Engineering Connection Assessment

P2378 Nova Solar Project Connection

Nova Solar L.P.

Date: September 2nd ,2022

Version: V1

Classification: Public

Role	Name	Date	Signature
Prepared	Mahmoud Ahmed, P. Eng.	Sep.2, 2022	Mahmoud Ahmed
Reviewed	Peyman Ahmadi, P.Eng.	Sep 06, 2022	
Approved	Pravin Koshti, P.Eng.	Sep 12,2022	Pravin Koshti

PERMIT TO PRACTICE
INDEPENDENT SYSTEM OPERATOR

RM SIGNATURE: Pravin Koshti

RM APEGA ID #: 110749

DATE: Oct 4,2022

PERMIT NUMBER: P008200

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

Mahmoud Ahmed

Sep. 28TH, 2022

APEGA ID # 280036

PROFESSIONAL ENGINEER ALBERTA
MAHMOUD MOHAMED OTHMAN AHMED

NOTE:

The conclusions and recommendations in this report are based on the results presented in *Attachment A: Engineering Connection Assessment: Study Results*, which was prepared by a third party consultant in accordance with the AESO Connection Process.

The AESO has reviewed the *Engineering Connection Assessment: Study Results*, and finds it acceptable for the purpose of assessing the potential impacts of the proposed connection on the performance of the Alberta interconnected electric system.

Contents

1 Introduction 1
1.1 Project Overview 1
2 Assessment Scope 2
2.1 Objectives 2
2.2 Existing System 2
2.3 Study Area 2
3 Connection Alternatives 3
3.1 Overview 3
3.2 Connection Alternatives Examined 3
3.3 Connection Alternatives Selected for Further Study 21
3.4 Connection Alternatives Not Selected for Further Study 21
4 Assessment Approach 22
4.1 Standards, Criteria and Assumptions 22
4.2 Studies Performed 22
4.2.1 Power Flow Studies 23
4.2.2 Transient Stability Studies 23
4.2.3 Short-Circuit Current Level Studies 23
4.3 Mitigation Measure Development and Evaluation 24
4.3.1 Post-Mitigation Studies 24
4.3.2 Constraint Effective Factor Studies 24
5 Interpretation of Results 25
5.1 Results Overview 25
5.2 Pre-Project Study Results 28
5.2.1 Category A Conditions 28
5.2.2 Category B Conditions 28
5.3 Post-Project Study Results 28
5.3.1 Alternative 1 Results 28
5.3.2 Alternative 2 Results 28
5.4 Mitigation Measures 29
5.4.1 Pre-Project 29
5.4.2 Post-Project 29
5.4.3 Post-Project Mitigation Study Results 29
5.4.4 Alternative Selection 29
6 Project Dependencies 30
7 Conclusions and Recommendations 31

Tables

Table 4-1: Connection Study Scenarios 22
Table 5-1: Summary of Reliability Criteria Violations, Project Impact and Mitigation Measures- Alternative 1 26
Table 5-2: Summary of Reliability Criteria Violations, Project Impact and Mitigation Measures- Alternative 2 27
Table 7-1: Connection Alternatives Considered 31

Figures

Figure 3-1: Connection Alternative 1 4
Figure 3-2: Connection Alternative 2 6
Figure 3-3: Connection Alternative 3 8
Figure 3-4: Connection Alternative 4 10
Figure 3-5: Connection Alternative 5 12
Figure 3-6: Connection Alternative 6 14
Figure 3-7: Connection Alternative 7 16
Figure 3-8: Connection Alternative 8 18
Figure 3-9: Connection Alternative 9 20

Attachments

Attachment A: Engineering Connection Assessment Results

1 Introduction

This AESO Engineering Connection Assessment describes the engineering studies that were completed to assess the impact of the Project (as defined below) on the performance of the Alberta interconnected electric system (AIES). This report also provides the AESO's conclusions and recommendations based on the results of the engineering studies.

Attached to this Engineering Connection Assessment are the results of the engineering studies (see Attachment A) and the scope and methodology used to perform the studies (see Attachment A1 to Attachment A). These attachments provide details regarding the technical criteria, assumptions, and methods for performing these engineering studies, and the results of the engineering studies.

1.1 Project Overview

Nova Solar L.P. (Market Participant) has submitted a request for system access service to the Alberta Electric System Operator (AESO) to connect its proposed Nova Solar Power Plant (Facility) to the AIES.

The Facility includes a proposed collector substation, to be designated Nova 1005S Substation.

The Market Participant's request includes: a request for a new system access service in the area, with a Rate STS, *Supply Transmission Service*, contract capacity of 150 MW and a Rate DTS, *Demand Transmission Service*, contract capacity of 1 MW; and a request for transmission development (collectively, the Project).

The scheduled in-service date (ISD) for the Project is July 14, 2023.

2 Assessment Scope

2.1 Objectives

The objectives of the AESO Engineering Connection Assessment are as follows:

- Assess the impact of the Project on the performance of the AIES.
- Evaluate Project connection alternatives and identify the AESO's preferred alternative.
- Recommend mitigation measures, if required, to reliably connect the Project to the AIES.
- Identify Project dependencies, including any TFO projects or AESO plans to expand or enhance the transmission system that must be completed prior to connection.

2.2 Existing System

Geographically, the Project is located in the AESO planning area Strathmore/Blackie (Area 45), which is part of the AESO South planning region. Strathmore/Blackie (Area 45) is surrounded by the planning areas of Calgary (Area 6), Airdrie (Area 57), Hanna (Area 42), Sheerness (Area 43), Brooks (Area 47), High River (Area 46), and Stavely (Area 49).

From a transmission system perspective, Strathmore/Blackie (Area 45) consists primarily of a 240 kV and 138 kV transmission system. Strathmore/Blackie (Area 45) is connected to Calgary (Area 6) through a 138 kV transmission line and two 240 kV transmission lines, connected to High River (Area 46) through two 138 kV transmission lines, connected to Brooks (Area 47) through a 138 kV transmission line and two 240 kV transmission lines, and connected to Stavely (Area 49) through a 138 kV transmission line.

Existing constraints in the South planning region are managed in accordance with the procedures set out in Section 302.1 of the ISO rules, Real Time Transmission Constraint Management (TCM Rule).

2.3 Study Area

The Study Area for the Project consists of the AESO Planning area of Strathmore/Blackie Planning Area (Area 45), Calgary (Area 6), Stavely (Area 49), Brooks (Area 47), and High River (Area 46), including the tie lines connecting these planning areas to the rest of the AIES. All transmission facilities within the Study Area will be studied and monitored for violations of the Reliability Criteria (defined in Section 3.1 of Attachment A1).

3 Connection Alternatives

3.1 Overview

The AESO, in consultation with the TFO in the Study Area and the Market Participant, examined nine transmission alternatives to meet the Market Participant's request for system access service, as detailed in Section 3.2.

3.2 Connection Alternatives Examined

Below is a description of the developments associated with the transmission alternatives that were examined for the Project.

Alternative 1 – T-Tap Connection to the 240 kV transmission Line 927L

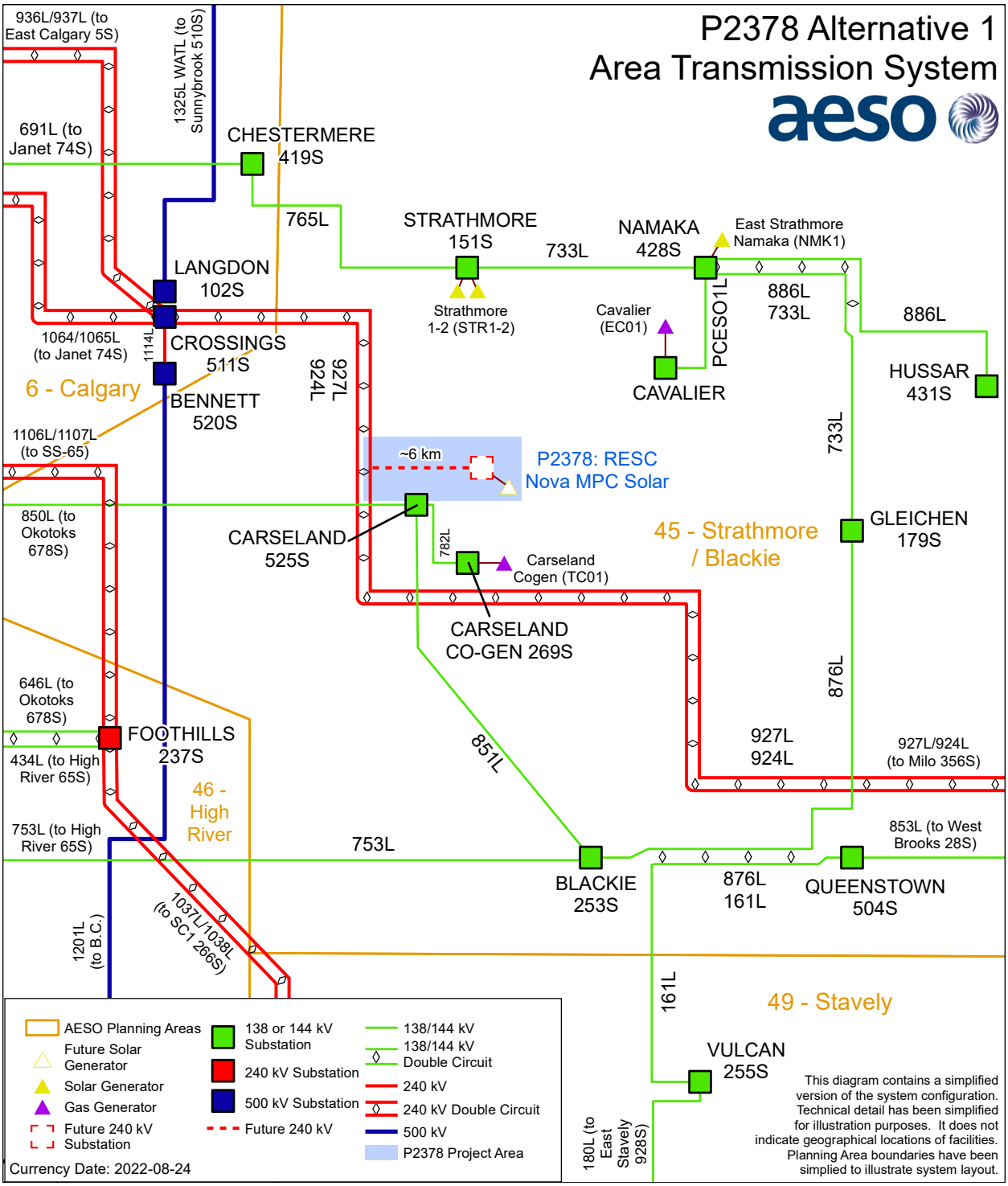
This alternative included the following developments:

- Connect the Facility to the existing 240 kV transmission line 927L through a T-Tap configuration between the existing Milo 356S and Langdon 102S substations;
- Add a 240 kV circuit, approximately 6 km[1], to connect the Facility to the T-Tap junction; and
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 3-1.

[1] Same as footnote 1.

Figure 3-1: Connection Alternative 1



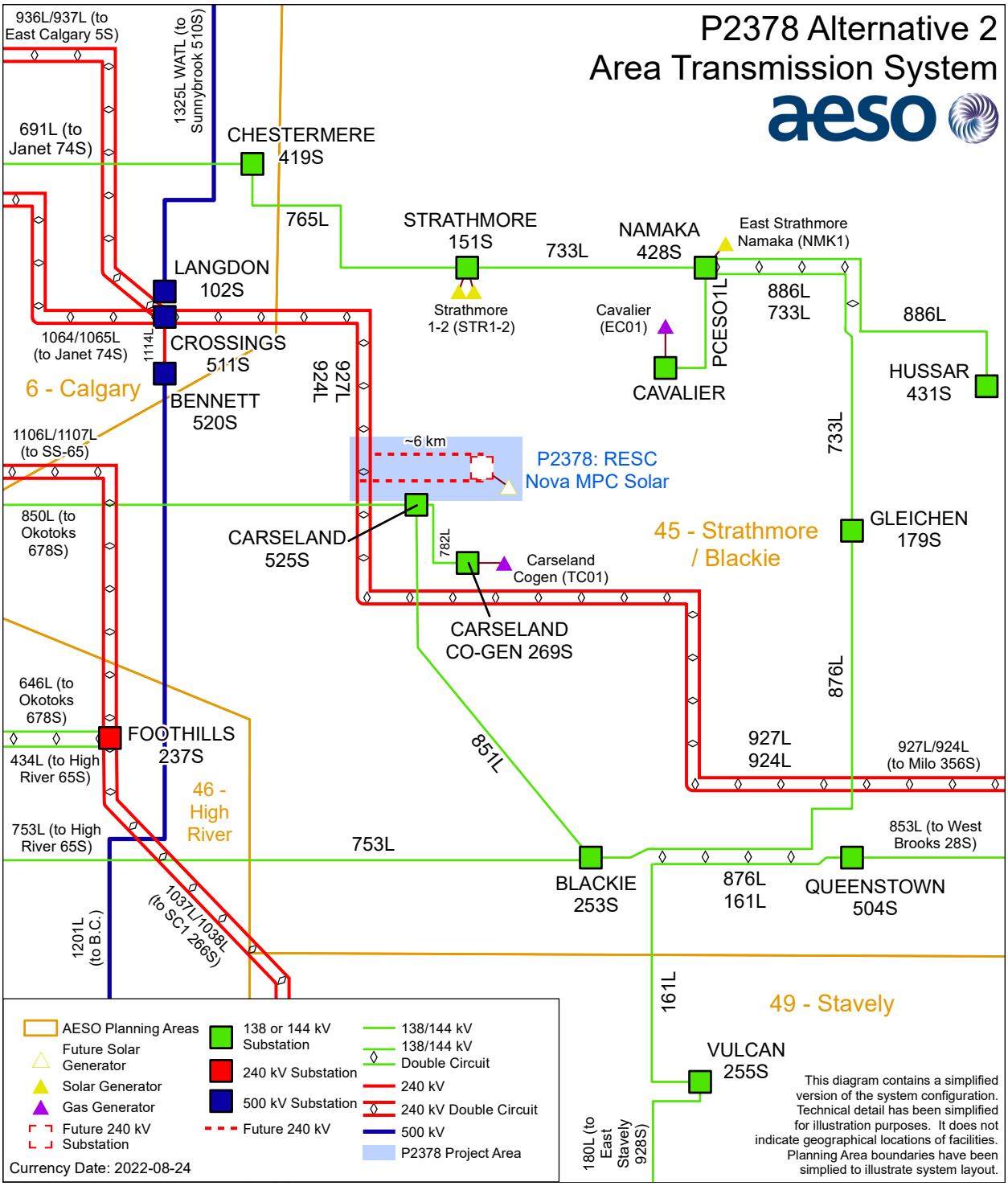
Alternative 2 – Double T-Tap Connection to the 240 kV transmission Lines 924L and 927L

This alternative included the following developments:

- Connect the Facility to the existing 240 kV transmission lines 924L and 927L through a double T-tap configuration between the existing Milo 356S and Langdon 102S substations;
- Add two 240 kV circuits, approximately 6 km each, to connect the Facility to the double T-Tap junction; and
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 3-2.

Figure 3-2: Connection Alternative 2



Alternative 3 – Radial 138 kV connection to Carseland 525S

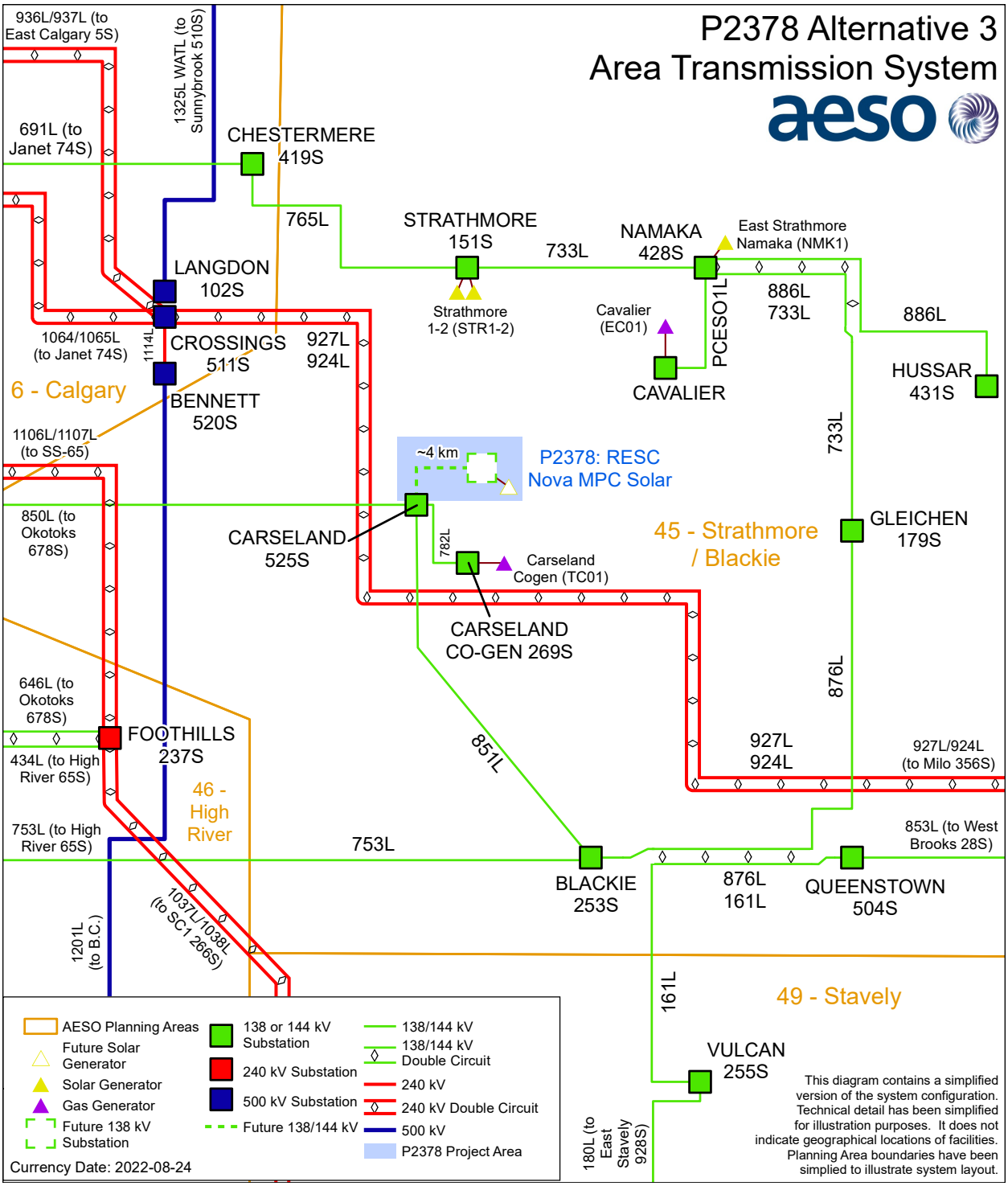
This alternative included the following developments:

- Modify the existing Carseland 525S substation, including adding one 138 kV circuit breaker;
- Add a 138 kV circuit, approximately 4 km[2], to connect the Facility to the existing Carseland 525S substation using a radial configuration; and
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 3-3.

[2] Same as footnote 1.

Figure 3-3: Connection Alternative 3



Alternative 4 – In-and-Out connection to the 138 kV Transmission Line 851L

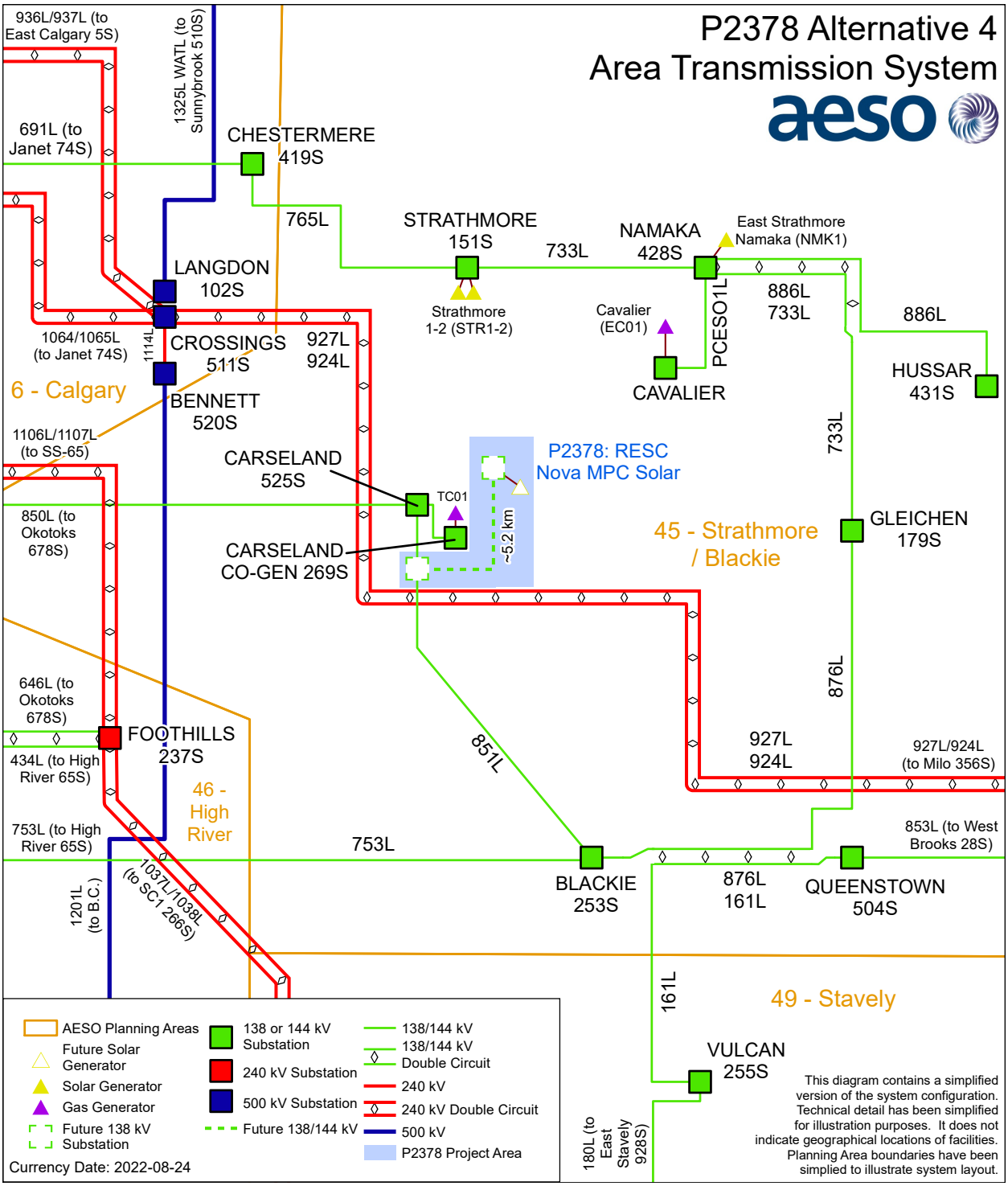
This alternative included the following developments:

- Add a new 138 kV substation with three (3) 138 kV circuit breakers and connect to the existing 851L transmission line (between Blackie 253S and Carseland 525S substations) using an in-and-out configuration;
- Add two 138 kV circuits, approximately 5.2 km[3], to connect the Facility to the proposed 138 kV substation using a radial configuration;
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 3-4

[3] Same as footnote 1.

Figure 3-4: Connection Alternative 4



Alternative 5 – T-Tap Connection to the 138 kV Transmission Line 851L

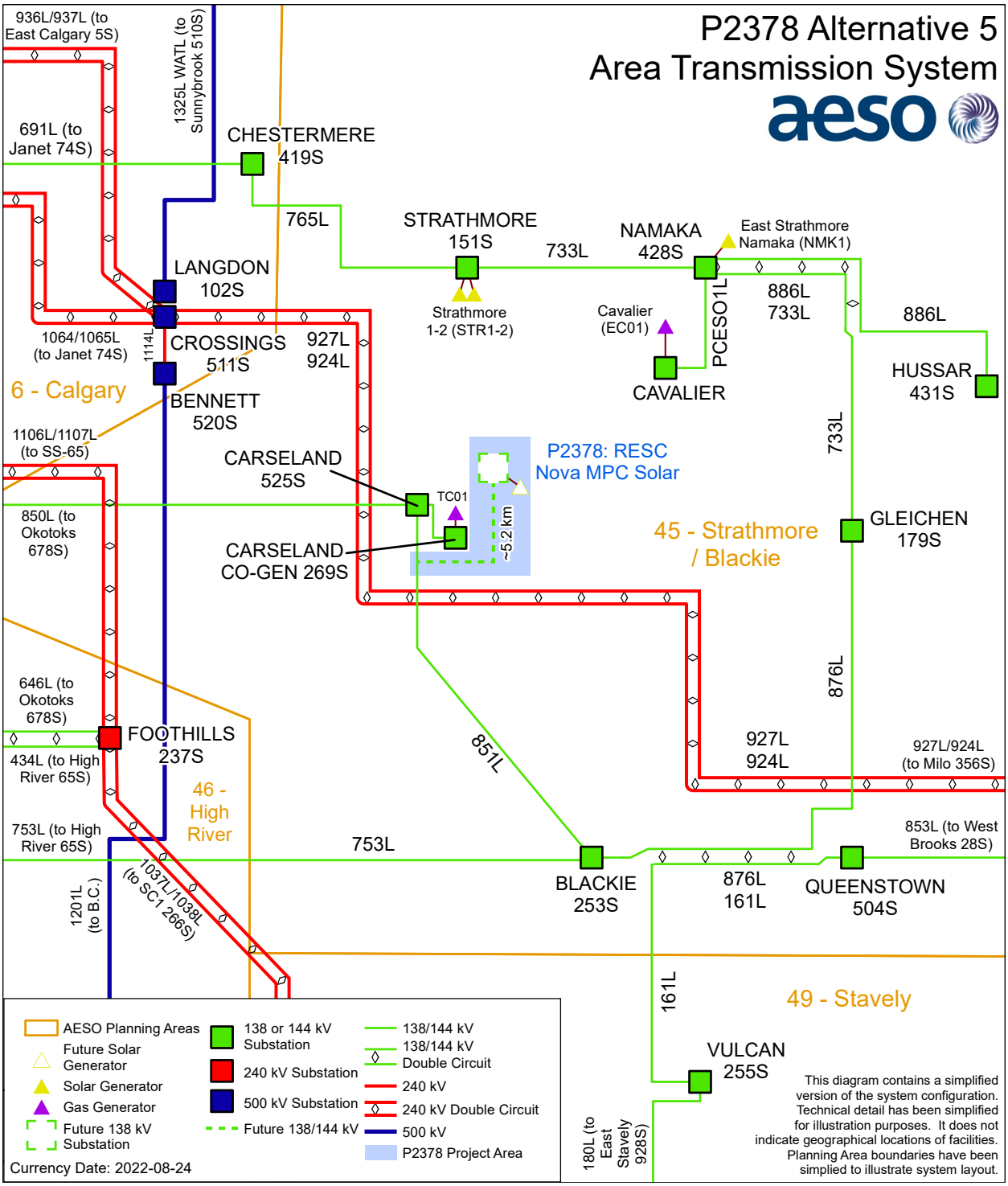
This alternative included the following developments:

- Connect the Facility to the existing 138 kV transmission line 851L through a T-Tap configuration between the existing Blackie 253S and Carseland 525S substations;
- Add a 138 kV circuit, approximately 5.2 km[4], to connect the Facility to the T-Tap junction; and
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 3-5.

[4] Same as footnote 1.

Figure 3-5: Connection Alternative 5



Alternative 6 – T-Tap Connection to the 240 kV transmission Line 924L

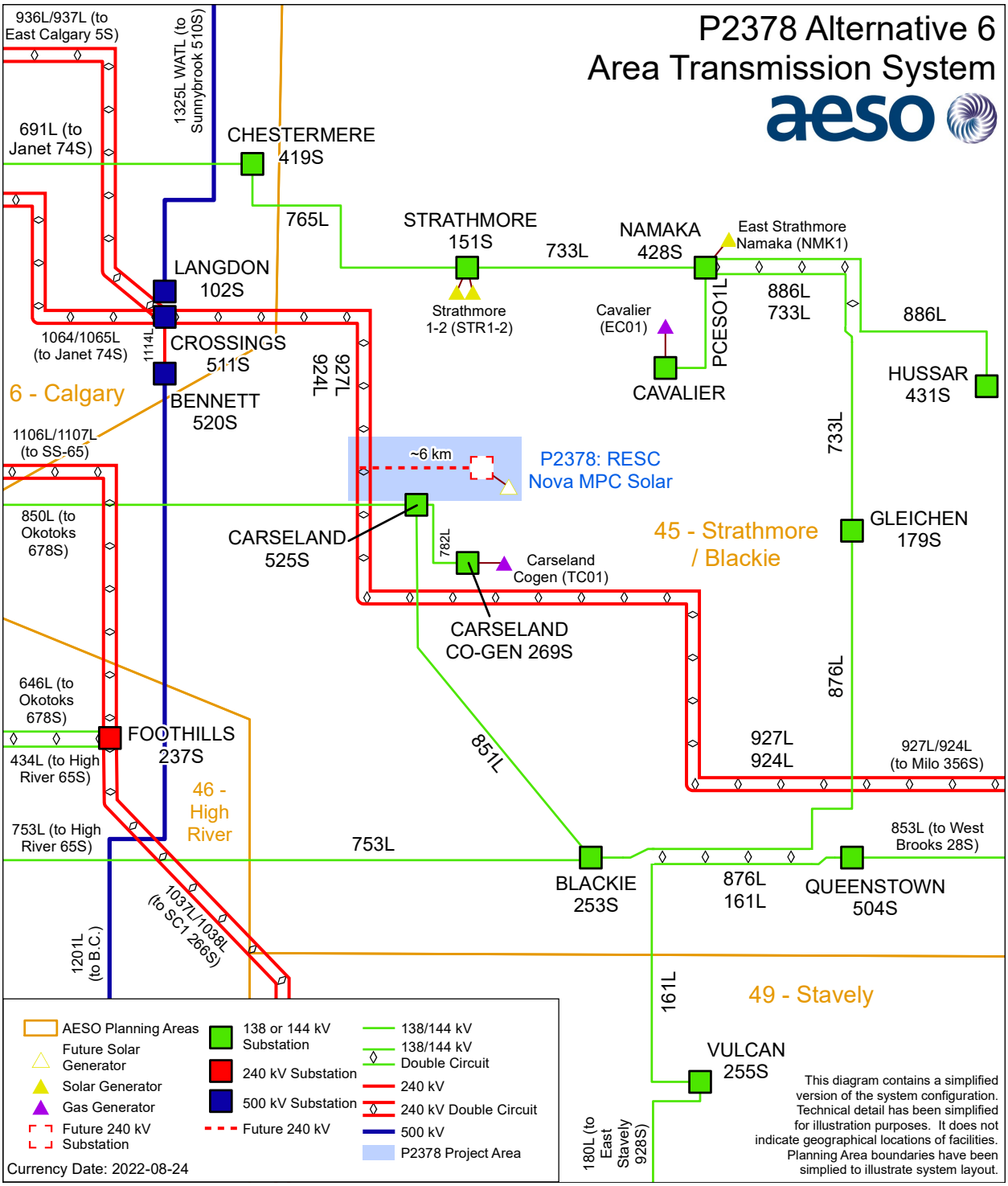
This alternative included the following developments:

- Connect the Facility to the existing 240 kV transmission line 924L through a T-tap configuration between the existing Milo 356S and Langdon 102S substations;
- Add a 240 kV circuit, approximately 6 km[5], to connect the Facility to the T-Tap junction; and
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 3-6.

[5] Same as footnote 1

Figure 3-6: Connection Alternative 6



Alternative 7 –In-and-Out connection to 240 kV transmission Line 927L

This alternative included the following developments:

- Add a new 240 kV substation with three (3) 240 kV circuit breakers and connect to the existing 927L transmission line (between Milo 356S and Langdon 102S substations) using an in-and-out configuration ;
- Add a 240 kV circuit, approximately 6 km[6], to connect the Facility to the proposed 240 kV substation using a radial configuration; and
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 3-7.

[6] Same as footnote 1

Figure 3-7: Connection Alternative 7

Alternative 8 – T-Tap Connection to the 138 kV Transmission Line 850L

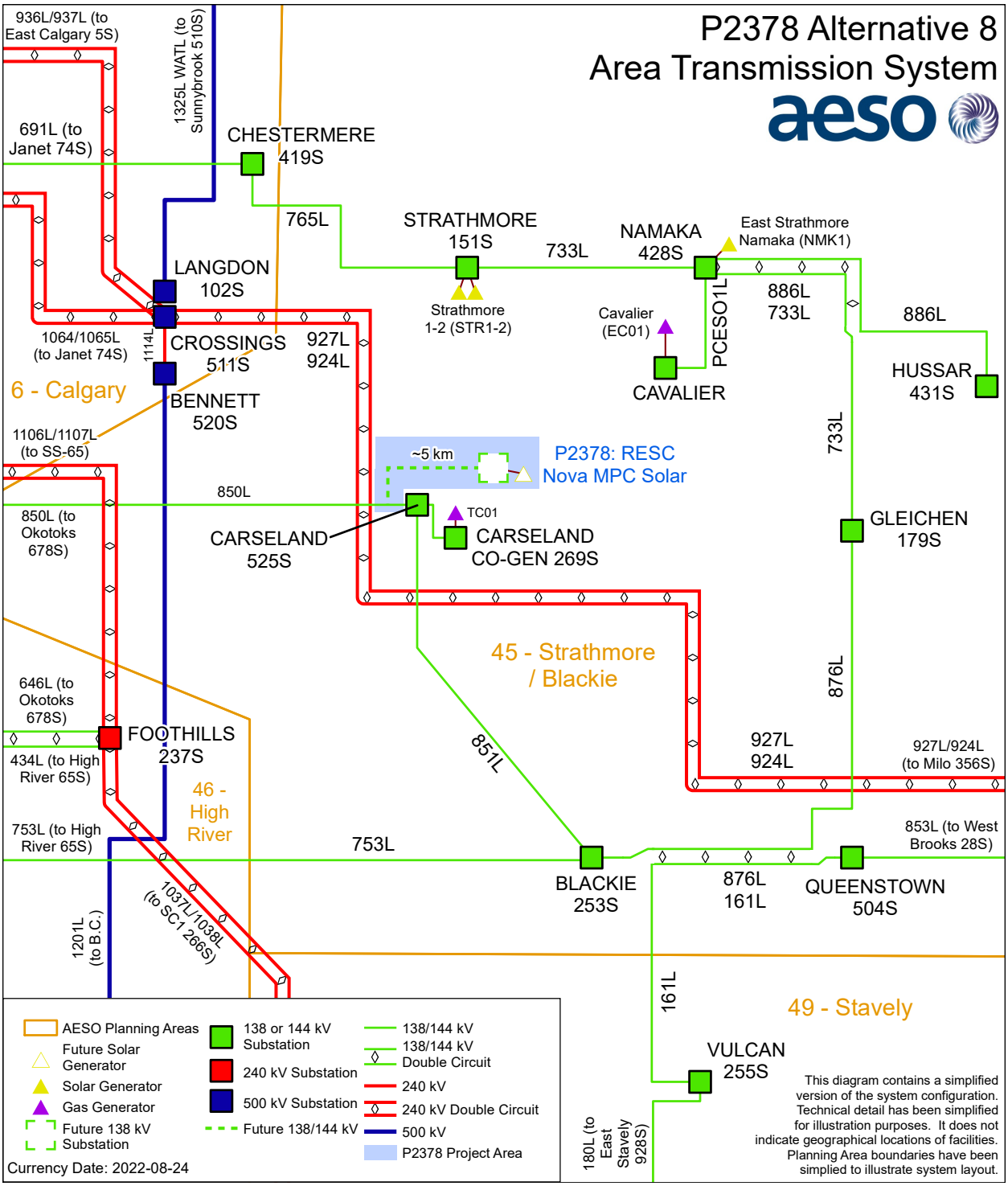
This alternative included the following developments:

- Connect the Facility to the existing 138 kV transmission line 850L through a T-Tap configuration between the existing Okotoks 678S and Carseland 525S substations;
- Add a 138 kV circuit, approximately 5 km[7], to connect the Facility to the T-Tap junction; and
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 3-8.

[7] Same as footnote 1.

Figure 3-8: Connection Alternative 8



Alternative 9 – In-and-Out connection to 240 kV transmission Line 924L

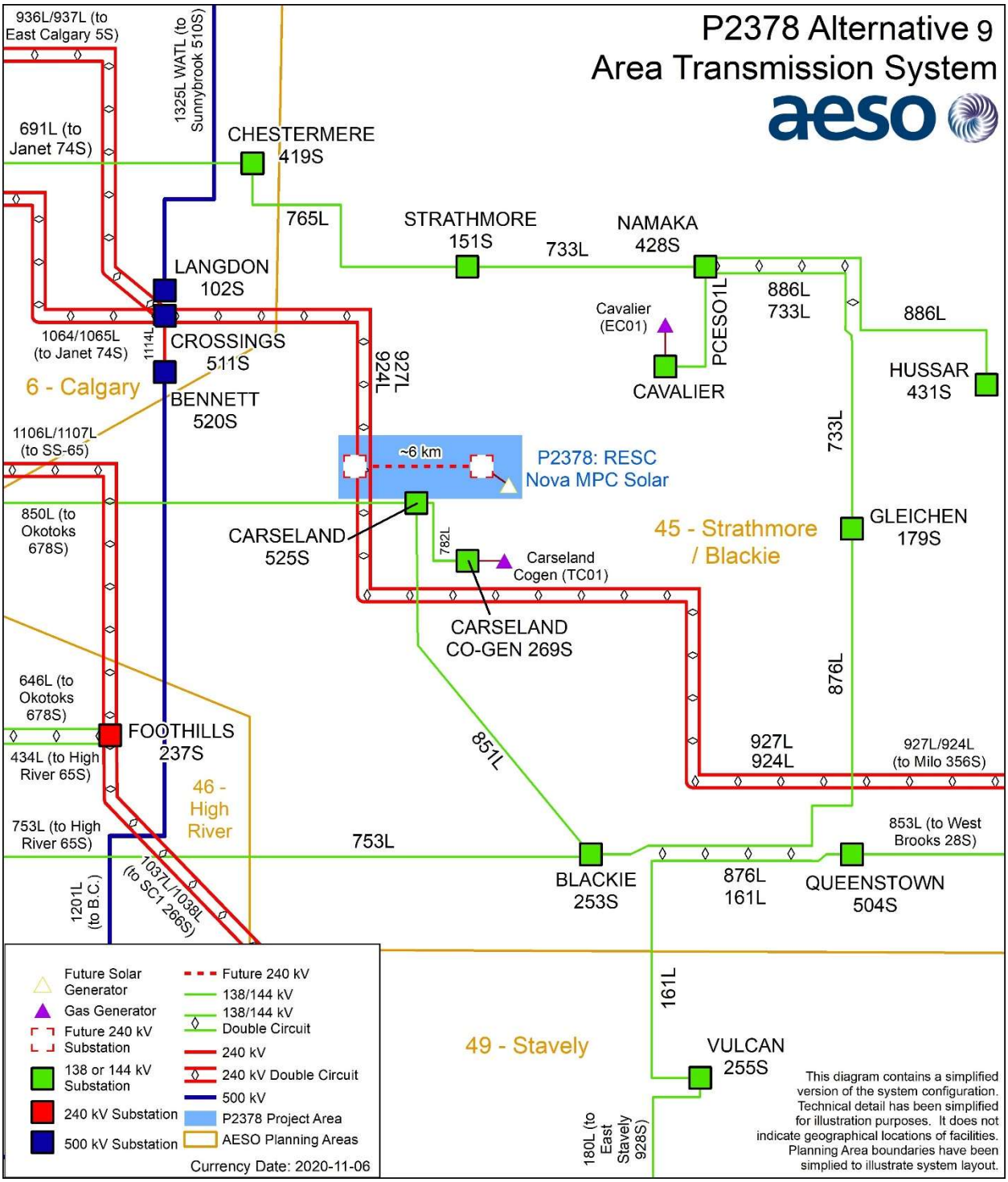
This alternative included the following developments:

- Add a new 240 kV substation with three (3) 240 kV circuit breakers and connect to the existing 924L transmission line (between Milo 356S and Langdon 102S substations) using an in-and-out configuration;
- Add a 240 kV circuit, approximately 6 km[8], to connect the Facility to the proposed 240 kV substation using a radial configuration; and
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 3-9.

[8] The TFO will determine the exact length.

Figure 3-9: Connection Alternative 9



3.3 Connection Alternatives Selected for Further Study

Alternatives 1 and 2 are considered technically feasible and were selected for further study.

3.4 Connection Alternatives Not Selected for Further Study

Alternatives 3, 4, 5, and 8 were ruled out as the available capacity on the 138 kV system would not accommodate an additional 150 MW. Alternatives 6, 7, and 9 would have similar system impacts and technical performance to Alternative 1; however, Alternatives 6, 7, and 9 involve increased transmission development and hence, increased cost, compared to Alternative 1. Therefore, Alternatives 6, 7, and 9 were not selected for further study.

4 Assessment Approach

4.1 Standards, Criteria and Assumptions

A detailed description of the standards, criteria, and assumptions that were used for the connection assessment is provided in Attachment A (see Attachment A1).

4.2 Studies Performed

At the time of study, the scheduled ISD for the Project is July 14, 2023. Therefore, studies were performed using scenarios for 2023 Summer Light (SL) and 2023 Summer Peak (SP).

In addition to studying the main scenarios (scenarios 1 to 4), which included P2378, the AESO also chose to run sensitivity studies to include two projects in the study area (scenarios 6 to 9). Since completion of the studies, both of those projects – Brooks Solar Farm[9] and Buffalo Plains Wind[10] have reached project inclusion criteria. Due to this, the AESO now considers the sensitivity scenarios as the main scenarios and will base all mitigations and recommendations centered on scenarios 6 to 9.

Short-circuit studies were performed using the 2023 SP pre-Project scenario, 2023 SP and 2031 WP post-Project scenarios.

Table 4-1 lists the study scenarios. Post-Project scenarios reflect the final requested Rate STS contract capacity of 150 MW at the Nova 1005S substation.

Table 4-1: Connection Study Scenarios

Scenario No.	Year/Season	System Generation Dispatch Conditions	Scenario Name	Project Load (MW)	Project Generation (MW)
Pre-Project					
1	2023 Summer Peak (SP)	High Generation	2023 SP Pre-Project	0	0
2	2023 Summer Light (SL)	High Generation	2023 SL Pre-Project	0	0
post-Project					
3	2023 SP	High Generation	2023 SP Post-Project	0	150
4	2023 SL	High Generation	2023 SL Post-Project	0	150
5	2031 WP	All machines in study area in service	2031 WP Post-Project	0	150
Pre-Project Sensitivity-with P1927 and P2247					

[9] Brooks Solar Farm approved by the AUC in Decision 27284-D01-2022 on June 10, 2022.
[10] Buffalo Plain Wind Farm approved by the AUC in Decision 26214-D01-2022 on February 10, 2022.

Scenario No.	Year/Season	System Generation Dispatch Conditions	Scenario Name	Project Load (MW)	Project Generation (MW)
6	2023 SP	High Generation	2023 SP Sensitivity Pre-Project	0	0
7	2023 SL	High Generation	2023 SL Sensitivity Pre-Project	0	0
Post-Project Sensitivity with P1927 and P2247					
8	2023 SP	High Generation	2023 SP Sensitivity Post-Project	0	150
9	2023 SL	High Generation	2023 SL Sensitivity Post-Project	0	150

The AESO Planning Region load forecasts used for the connection studies were based on the AESO's 2021 Long-term Outlook (2021 LTO).

4.2.1 Power Flow Studies

The purpose of the power flow studies is to identify and quantify any thermal and voltage criteria violations in the Study Area.

In addition, power flow studies are also used to identify POD low voltage bus voltage deviations beyond the limits listed in Table 3-1 of Attachment A1.[11]

Power flow studies were performed for 2023 Summer Light (SL) and 2023 Summer Peak (SP) pre-Project scenarios, and for 2023 SL and 2023 SP post-Project scenarios.

4.2.2 Transient Stability Studies

The purpose of the transient stability studies is to assess the post-Project stability of the transmission system after three-phase to ground faults are applied on select transmission lines in the Study Area.

Transient stability studies were performed for 2023 SL and 2023 SP post-Project scenarios.

4.2.3 Short-Circuit Current Level Studies

The purpose of short-circuit current level studies is to determine the expected system short-circuit current levels in the vicinity of the Project.

Short circuit studies were performed for the 2023 SP pre-Project scenario, 2023 SP and 2031 WP post-Project scenarios.

[11] The AESO's desired post-contingency voltage deviations for low voltage busses represent guidelines rather than criteria. A POD bus voltage deviation that exceeds the desired limits shown in Table 3-1 of Attachment A1 does not represent a Reliability Criteria violation. Mitigation measures would not be developed to specifically address POD bus voltage deviations that exceed the desired values in Table 3-1 of Attachment A1.

4.3 Mitigation Measure Development and Evaluation

As explained in Section 6 of Attachment A1, mitigation measures were developed to address system performance issues that were identified in the post-Project scenarios. Studies performed to assess the effectiveness of mitigation measures are briefly outlined below.

4.3.1 Post-Mitigation Studies

Power flow and transient stability studies were performed to assess the impact of the Project on the performance of the AIES following implementation of the AESO's proposed mitigation measures.

4.3.2 Constraint Effective Factor Studies

Constraint effective factor studies were used to determine the generator and load constraint effective factors and to identify the most effective generators or loads to manage thermal criteria violations that were observed under Category B conditions.

5 Interpretation of Results

5.1 Results Overview

This section provides an assessment of the impact of the Project on the performance of the AIES. The Reliability Criteria violations observed during the connection assessment studies, and the proposed mitigation measures are summarized in Table 5-1.

- Section 5.2 includes an overview of the pre-Project studies results.
- Section 5.3 includes an overview of the post-Project studies results.
- Section 5.4 includes a description of the proposed mitigation measures to address observed Reliability Criteria violations.
- Section 5.5 includes an overview of the post-mitigation studies results.

Detailed study results are provided in Attachment A.

Table 5-1: Summary of Reliability Criteria Violations, Project Impact and Mitigation Measures-Alternative 1

Scenario	Type of Reliability Criteria Violation		Contingency (System Element Lost)	Details of Violation	Project Impact	Pre-Project Mitigation Measures	Post-Project Mitigation Measures
	Pre-Project	Post-Project					
2023 SL	Thermal - below emergency rating	Thermal - below emergency rating	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	None	Thermal - below emergency rating	EATL	927L (Langdon 102s to P2378 Tap)	New violation	None	Real-time operational practices
	None	Thermal - below emergency rating		916L (East Calgary 5S to Sarcee 42S)	New violation	None	
	Thermal - below emergency rating	Thermal - below emergency rating	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	Materially increases violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1005L (Milo 356S to Picture Butte 120S)	1036L (Travers 554S to Milo 356S)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
2023 SP	Thermal - below emergency rating	Thermal - below emergency rating	1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)	No impact	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)	No impact	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1036L (Milo 356S to Travers 554S)	1005L (Milo 356S to P2009 Tap)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	None	Thermal - below emergency rating	EATL	927L (Langdon 102s to P2378 Tap)	New violation	None	Real-time operational practices
2023 SL Sensitivity	None	Thermal - below emergency rating	924L (Langdon 102S to Milo 356S)	927L (Langdon 102s to P2378 Tap)	New violation	None	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1109L (Enmax 65 to Enmax 25)	1080L (Enmax 65 to Enmax 25)	Marginally increases violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1080L (Enmax 65 to Enmax 25)	1109L (Enmax 65 to Enmax 25)	Marginally increases violation	Real-time operational practices	Real-time operational practices
	None	Thermal - below emergency rating	WATL (WATL HVDC Link)	901L (Janet 74S to 901AL JCT)	New violation	Real-time operational practices	Real-time operational practices
	Thermal - above emergency rating	Thermal - above emergency rating		916L (East Calgary 5S to Sarcee 42S)	Materially increases violation		
2023 SP Sensitivity	Thermal - below emergency rating	Thermal - above emergency rating	924L (Langdon 102S to Milo 356S)	927L (Langdon 102s to P2378 Tap)	Materially increases violation	Real-time operational practices	Modified Planned RAS 175
	Thermal - below emergency rating	Thermal - below emergency rating		927L (Milo 356s to P2378 Tap)	Materially reduces violation		
	Thermal - above emergency rating	Thermal - above emergency rating	1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	Thermal - above emergency rating	Thermal - above emergency rating	985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	None	Thermal - below emergency rating	1107L (Enmax 65 to Foothills 237S)	927L (Langdon 102s to P2378 Tap)	New violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating		691L (Janet 74S to Chestermere 419S)	Marginally increases violation		
	None	Thermal - below emergency rating		927L (Langdon 102s to P2378 Tap)	New violation		
	Thermal - below emergency rating	Thermal - below emergency rating		691L (Janet 74S to Chestermere 419S)	Marginally increases violation		
	Thermal - below emergency rating	Thermal - below emergency rating	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	Thermal - above emergency rating	Thermal - below emergency rating	927L (Langdon 102s to Milo 356s)	924L (Milo 356s to Langdon 102s)	Marginally reduces violation	Planned RAS 175	Real-time operational practices
	None	Thermal - below emergency rating	1037L (Foothills 237S to Windy Flats 138S)	927L (Langdon 102s to P2378 Tap)	New violation	None	Real-time operational practices
	None	Thermal - below emergency rating	1038L (Foothills 237S to Windy Flats 138S)	927L (Langdon 102s to P2378 Tap)	New violation	None	Real-time operational practices
	Thermal - above emergency rating	Thermal - above emergency rating	EATL	924L (Milo 356s to Langdon 102s)	Marginally reduces violation	Planned RAS 175	Modified Planned RAS 175
	Thermal - below emergency rating	Thermal - above emergency rating		927L (Langdon 102s to P2378 Tap)	Materially increases violation		
	None	Thermal - below emergency rating		916L (East Calgary 5S to Sarcee 42S)	New violation		
	Thermal - below emergency rating	Thermal - below emergency rating		927L (Milo 356s to P2378 Tap)	Materially reduces violation		
	Thermal - below emergency rating	Thermal - below emergency rating	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	Materially increases violation	Real-time operational practices	Real-time operational practices

Notes:

- Marginally increased (or marginally decreased) refers to a percent loading difference (post-Project percent loading minus pre-Project percent loading) between 0% and 3% (or -3%).
- Materially increased (or materially decreased) refers to a percent loading difference (post-Project percent loading minus pre-Project percent loading) above or equal to 3% (or below or equal to -3%).
- RAS No. 175 is a planned RAS (see Section 1.2.2 of Attachment A1).
- In this table, “Modify” refers to adding the Project to the logic of the respective RAS

Table 5-2: Summary of Reliability Criteria Violations, Project Impact and Mitigation Measures-Alternative 2

Scenario	Type of Reliability Criteria Violation		Contingency (System Element Lost)	Details of Violation	Project Impact	Pre-Project Mitigation Measures	Post-Project Mitigation Measures
	Pre-Project	Post-Project					
2023 SL	Thermal - below emergency rating	Thermal - below emergency rating	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	None	Thermal - below emergency rating	EATL	916L (East Calgary 5S to Sarcee 42S)	New violation	None	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	Materially increases violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1005L (Milo 356S to Picture Butte 120S)	1036L (Travers 554S to Milo 356S)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
2023 SP	Thermal - below emergency rating	Thermal - below emergency rating	1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)	No impact	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1036L (Milo 356S to Travers 554S)	1005L (Milo 356S to P2009 Tap)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	None	Thermal - below emergency rating	EATL	924L (P2378 Tap to Langdon 102s)	New violation	None	Real-time operational practices
	Thermal - above emergency rating	Thermal - above emergency rating		916L (East Calgary 5S to Sarcee 42S)	Materially increases violation		
2023 SL Sensitivity	Thermal - below emergency rating	Thermal - below emergency rating	1109L (Enmax 65 to Enmax 25)	1080L (Enmax 65 to Enmax 25)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1080L (Enmax 65 to Enmax 25)	1109L (Enmax 65 to Enmax 25)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	None	Thermal - below emergency rating	924L (Langdon 102s to Milo 356s)	927L (Langdon 102s to P2378 Tap)	New violation	None	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	927L (Langdon 102s to Milo 356s)	924L (P2378 Tap to Langdon 102s)	Materially increases violation	Real-time operational practices	Real-time operational practices
	Thermal - above emergency rating	Thermal - above emergency rating	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	Materially increases violation	Real-time operational practices	Real-time operational practices
2023 SP Sensitivity	Thermal - above emergency rating	Thermal - above emergency rating	1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	Thermal - above emergency rating	Thermal - above emergency rating	985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1107L (Enmax 65 to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	Marginally increases violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1106L (Enmax 65 to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	Marginally increases violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - below emergency rating	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	Marginally reduces violation	Real-time operational practices	Real-time operational practices
	Thermal - below emergency rating	Thermal - above emergency rating	924L (Langdon 102s to Milo 356s)	927L (Langdon 102s to P2378 Tap)	Materially increases violation	Real-time operational practices	Modified Planned RAS 175
	Thermal - below emergency rating	Thermal - below emergency rating		927L (Milo 356s to P2378 Tap)	Materially reduces violation		
	Thermal - above emergency rating	Thermal - above emergency rating	927L (Langdon 102s to Milo 356s)	924L (P2378 Tap to Langdon 102s)	Materially increases violation	Planned RAS 175	Modified Planned RAS 175
	Thermal - above emergency rating	Thermal - below emergency rating		924L (P2378 Tap to Milo 356s)	Materially reduces violation		
	None	Thermal - below emergency rating	1037L (Foothills 237S to Windy Flats 138S)	924L (P2378 Tap to Langdon 102s)	New violation	None	Real-time operational practices
	None	Thermal - below emergency rating	1038L (Foothills 237S to Windy Flats 138S)	924L (P2378 Tap to Langdon 102s)	New violation	None	Real-time operational practices
	Thermal - above emergency rating	Thermal - above emergency rating	EATL	924L (P2378 Tap to Langdon 102s)	Materially increases violation	Planned RAS 175	Modified Planned RAS 175
	Thermal - below emergency rating	Thermal - above emergency rating		927L (Langdon 102s to P2378 Tap)	Materially increases violation		
	None	Thermal - below emergency rating		916L (East Calgary 5S to Sarcee 42S)	New violation		
	Thermal - above emergency rating	Thermal - below emergency rating		924L (P2378 Tap to Milo 356s)	Marginally reduces violation		
	Thermal - below emergency rating	Thermal - below emergency rating		927L (Milo 356s to P2378 Tap)	Marginally reduces violation		
	Thermal - below emergency rating	Thermal - below emergency rating	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	Materially increases violation	Real-time operational practices	Real-time operational practices

Notes:

- Marginally increased (or marginally decreased) refers to a percent loading difference (post-Project percent loading minus pre-Project percent loading) between 0% and 3% (or -3%).
- Materially increased (or materially decreased) refers to a percent loading difference (post-Project percent loading minus pre-Project percent loading) above or equal to 3% (or below or equal to -3%).
- RAS No. 175 is a planned RAS (see Section 1.2.2 of Attachment A1).
- In this table, “Modify” refers to adding the Project to the logic of the respective RAS

5.2 Pre-Project Study Results

5.2.1 Category A Conditions

No Reliability Criteria violations were observed under the Category A conditions (i.e., all elements in service) for any of the pre-Project scenarios. The short-circuit fault levels were found to be within the typical capabilities of the nearby facilities.

5.2.2 Category B Conditions

The pre-Project power flow studies identified a number of thermal violations under Category B conditions (i.e., loss of a single system element).

5.3 Post-Project Study Results

5.3.1 Alternative 1 Results

5.3.1.1 Category A Conditions

No Reliability Criteria violations were observed under Category A conditions for any post-Project scenarios. Post-Project short-circuit fault levels were not significantly higher than pre-Project levels. The long-term short circuit levels were found to be within the designed capabilities of the nearby facilities.

5.3.1.2 Category B Conditions

Post-Project power flow studies identified a number of system performance issues under Category B conditions, namely: thermal criteria violations.

Results did not indicate any transient stability concerns, and the system showed acceptable dynamic response to all Category B conditions studied.

5.3.2 Alternative 2 Results

5.3.2.3 Category A Conditions

No Reliability Criteria violations were observed under Category A conditions for any post-Project scenarios. Post-Project short-circuit fault levels were not significantly higher than pre-Project levels. The long-term short circuit levels were found to be within the designed capabilities of the nearby facilities.

5.3.2.4 Category B Conditions

Post-Project power flow studies identified a number of system performance issues under Category B conditions, namely: thermal criteria violations.

Results did not indicate any transient stability concerns, and the system showed acceptable dynamic response to all Category B conditions studied.

5.4 Mitigation Measures

This section discusses the AESO's proposed mitigation measures to address the system performance issues that were identified in the pre-Project and post-Project scenarios. As part of this Project, mitigation measures will not be specifically developed for the POD bus voltage deviations observed under certain Category B conditions during pre-Project and post-Project scenarios.

5.4.1 Pre-Project

Prior to connection of the Project, all of the observed thermal criteria violations can be managed by using real-time operational practices. The remaining thermal criteria violations can be mitigated with the planned RAS No. 175.

5.4.2 Post-Project

The mitigation measures are similar for both Alternatives 1 and 2. After connection of the Project, some of the thermal criteria violations observed can be mitigated by using real-time operational practices.

The remaining thermal criteria violations can be mitigated by modification of planned RAS No. 175 by including the Project in the RAS logic.

5.4.3 Post-Project Mitigation Study Results

With the addition of the Project (either for Alternative 1 or Alternative 2), the total amount of generation tied to modified planned RAS 175 exceeds the Most Severe Single Contingency (MSSC) limit of 466 MW. The post-Project studies indicate that in order to mitigate the thermal violations following certain contingencies (EATL and 924L) the combined actions of RAS 175 may result in generation curtailment in excess of the MSSC limit. Pre-contingency generation curtailment under normal conditions may be required using real-time operational practices to prevent generation curtailment by RAS action above the MSSC level. The probability of pre-curtailment being required would be dependent on generation profiles and operating conditions.

Under Category B conditions, all of the observed Reliability Criteria violations requiring RAS were mitigated.

5.4.4 Alternative Selection

The study results shows that both Alternative 1 and 2 are technically feasible. For either Alternative 1 or Alternative 2, the thermal criteria violations noticed after the connection of the Project, can be managed by using real-time or by the modification of planned RAS No. 175. Alternative 2 involves increased transmission development and hence, increased cost, compared to Alternative 1. Therefore, Alternative 1 is selected as the AESO's preferred alternative as explained in section 7.

6 Project Dependencies

The Project does not require the completion of any other AESO plans to expand or enhance the transmission system prior to connection.

7 Conclusions and Recommendations

A summary of the connection alternatives considered and the AESO's rationale for its selection of the preferred alternative is provided in Table 7.1 below.

Table 7-1: Connection Alternatives Considered

Criteria	Alternative 1	Alternative 2
Alternative Name	T-Tap Connection to the 240 kV transmission Line 927L	Double T-Tap Connection to the 240 kV transmission Lines 924L and 927L
Scope	• Connect the Facility to the existing 240 kV transmission line 927L through a T-Tap configuration between Milo 356S and Langdon 102S; • Add a 240 kV circuit, approximately 6 km, to connect facility to the T-Tap junction	• Connect the Facility to the existing 240 kV transmission lines 924L and 927L through a double T-tap configuration between Milo 356S and Langdon 102S; • Add two 240 kV circuits, approximately 6 km each, to connect facility to the double T-Tap junction
Studied	Yes	Yes
Technical	Technically acceptable	Technically acceptable
NID-Level Cost	$3,631,126	N/A
Benefit	significant	significant
Selection Decision	preferred	ruled out as it involves increased transmission development and hence, increased cost, compared to Alternative 1

Based on the study results, Alternative 1 is technically viable. The connection assessment identified a number of pre-Project and post-Project system performance issues.

These issues can be mitigated through the use of modified planned RAS No. 175 and real-time operational practices, alone or in combination, as appropriate. With implementation of these mitigation measures, connecting the project with the preferred alternative does not adversely affect the performance of the AIES.

The AESO recommends proceeding with the Project using Alternative 1 as the preferred alternative to respond to the Market Participant's request for system access service. Real-time operational practices and the RAS mentioned above are recommended to mitigate the identified system performance issues.

Alternative 1 involves adding a 240 kV circuit, approximately 6 km in length, to connect facility to the existing 240 kV transmission line 927L (between Milo 356S and Langdon 102S) through a T-tap configuration.

The conductor used for the 240 kV circuit should have a minimum thermal rating similar to the existing 240 kV transmission line 927L to meet the Market Participant's requested STS.

Attachment A:
Engineering Connection Assessment Results

Engineering Connection Assessment: Study Results

P2378 RESC Nova Solar L.P.

Renewable Energy Systems Canada Inc.

Date: September 21, 2022
Version: V1D2
Classification: Public

Role	Name	Date	Signature
Prepared	Yani Jazayeri, P.Eng.	Sep 21, 2022	
Reviewed	James Howland, P.Eng.	2022-09-21	
Approved	Yani Jazayeri, P.Eng.	Sep 21, 2022	

PERMIT TO PRACTICE
HARDLINE ENGINEERING LTD.
Signature
Date 2022-10-04 ID#69556
PERMIT NUMBER: P 14024
The Association of Professional Engineers and Geoscientists of Alberta

PROFESSIONAL ENGINEER ALBERTA
POUYAN JAZAYERI

Sep 21, 2022
Member #74277

Contents

1 Introduction 4
2 Pre-Project Study Results 5
2.1 Power Flow Studies 5
2.1.1 Scenario 1: 2023 Summer Peak High Generation 5
2.1.2 Scenario 2: 2023 Summer Light High Generation 6
2.1.3 Scenario 6: 2023 Summer Peak High Generation P1927 / P2247 Sensitivity 7
2.1.4 Scenario 7: 2023 Summer Light High Generation P1927 / P2247 Sensitivity 8
3 Post-Project Study Results 10
3.1 Power Flow Studies 10
3.1.1 Scenario 3: 2023 Summer Peak High Generation - Alternative 1 10
3.1.2 Scenario 3: 2023 Summer Peak High Generation - Alternative 2 11
3.1.3 Scenario 4: 2023 Summer Light High Generation - Alternative 1 12
3.1.4 Scenario 4: 2023 Summer Light High Generation - Alternative 2 12
3.1.5 Scenario 8: 2023 Summer Peak High Generation P1927 / P2247 Sensitivity Alternative 1 13
3.1.6 Scenario 8: 2023 Summer Peak High Generation P1927 / P2247 Sensitivity Alternative 2 15
3.1.7 Scenario 9: 2023 Summer Light High Generation P1927 / P2247 Sensitivity Alternative 1 17
3.1.8 Scenario 9: 2023 Summer Light High Generation P1927 / P2247 Sensitivity Alternative 2 18
3.2 Transient Stability Studies 19
3.2.1 Alternative 1 19
3.2.2 Alternative 2 22
4 Short Circuit Studies 25
4.1 Pre-Project Results 25
4.2 Post-Project Results – Alternative 1 25
4.2.1 Scenario 3: 2023 Summer Peak High Generation Post-Project 25
4.2.2 Scenario 5: 2031 Winter Peak All Generators Post-Project 26
4.3 Post-Project Results – Alternative 2 26
4.3.1 Scenario 3: 2023 Summer Peak High Generation Post-Project 26
4.3.2 Scenario 5: 2031 Winter Peak All Generators Post-Project 27
5 Mitigation Measure Development and Evaluation 28
5.1 Pre-Project 28
5.2 Post-Project 29
5.2.1 Scenario 3: 2023 Summer Peak High Generation - Alternative 1 29
5.2.2 Scenario 3: 2023 Summer Peak High Generation - Alternative 2 29
5.2.3 Scenario 4: 2023 Summer Light High Generation - Alternative 1 29
5.2.4 Scenario 4: 2023 Summer Light High Generation - Alternative 2 29
5.2.5 Scenario 8: 2023 Summer Peak High Generation P1927/ P2247 Sensitivity Alternative 1 30
5.2.6 Scenario 8: 2023 Summer Peak High Generation P1927/ P2247 Sensitivity Alternative 2 30
5.2.7 Scenario 9: 2023 Summer Light High Generation P1927 / P2247 Sensitivity Alternative 1 31
5.2.8 Scenario 9: 2023 Summer Light High Generation P1927 / P2247 Sensitivity Alternative 2 31
5.3 Evaluation of Mitigation Measures 32
5.3.1 Scenario 8: 2023 Summer Peak High Generation P1927 / P2247 Sensitivity Alternative 1 32

5.3.2 Scenario 8: 2023 Summer Peak High Generation P1927 / P2247 Sensitivity Alternative 2 33
5.4 Constraint Effective Factor Studies 33

Tables

Table 2-1: Thermal Criteria Violations under Category B Conditions for Scenario 1 5
Table 2-2:: Thermal Criteria Violations under Category B Conditions for Scenario 2 6
Table 2-3: Thermal Criteria Violations under Category B Conditions for Scenario 6 7
Table 2-4: Thermal Criteria Violations under Category B Conditions for Scenario 7 8
Table 3-1: Thermal Criteria Violations under Category B Conditions for Scenario 3 Alternative 1 10
Table 3-2: Thermal Criteria Violations under Category B Conditions for Scenario 3 Alternative 2 11
Table 3-3: Thermal Criteria Violations under Category B Conditions for Scenario 4 Alternative 1 12
Table 3-4: Thermal Criteria Violations under Category B Conditions for Scenario 4 Alternative 2 13
Table 3-5: Thermal Criteria Violations under Category B Conditions for Scenario 8 Alternative 1 14
Table 3-6 Thermal Criteria Violations under Category B Conditions for Scenario 8 Alternative 2 16
Table 3-7: Thermal Criteria Violations under Category B Conditions for Scenario 9 Alternative 1 17
Table 3-8: Thermal Criteria Violations under Category B Conditions for Scenario 9 Alternative 2 18
Table 3-9: Transient Stability Study Results under Category B Conditions - Scenario 3 19
Table 3-10: Transient Stability Study Results under Category B Conditions – Scenario 4 20
Table 3-11: Transient Stability Study Results under Category B Conditions – Scenario 8 21
Table 3-12: Transient Stability Study Results under Category B Conditions – Scenario 9 21
Table 3-12: Transient Stability Study Results under Category B Conditions – Scenario 3 22
Table 3-12: Transient Stability Study Results under Category B Conditions – Scenario 4 22
Table 3-12: Transient Stability Study Results under Category B Conditions – Scenario 8 23
Table 3-12: Transient Stability Study Results under Category B Conditions – Scenario 9 24
Table 4-1: Pre-Project Short-Circuit Current Levels for Scenario 1 25
Table 4-2: Post-Project Short-Circuit Current Levels for Scenario 3 25
Table 4-3: Post-Project Short-Circuit Current Levels for Scenario 5 26
Table 4-2: Post-Project Short-Circuit Current Levels for Scenario 3 26
Table 4-3: Post-Project Short-Circuit Current Levels for Scenario 5 27
Table 5-1: Pre-Project Mitigation Measures 28
Table 5-1: Pre-Project Mitigation Measures with P1927 / P2247 Sensitivity 28
Table 5-2: Post-Project Mitigation Measures for Scenario 3 – Alternative 1 29
Table 5-3: Post-Project Mitigation Measures for Scenario 3 – Alternative 2 29
Table 5-4: Post-Project Mitigation Measures for Scenario 4 – Alternative 1 29
Table 5-5: Post-Project Mitigation Measures for Scenario 4 – Alternative 2 30
Table 5-6: Post-Project Mitigation Measures for Scenario 8 – Alternative 1 30
Table 5-7: Post-Project Mitigation Measures for Scenario 8 – Alternative 2 30
Table 5-8: Post-Project Mitigation Measures for Scenario 9 – Alternative 1 31
Table 5-9: Post-Project Mitigation Measures for Scenario 9 – Alternative 2 31

Table 5-10: Post-RAS Power Flow Study Results for Scenario 8 Alternative 1 32
Table 5-11: Post-RAS Power Flow Study Results for Scenario 8 Alternative 2 33

Attachments

Attachment A1 Engineering Connection Assessment: Study Scope
Attachment A2 Pre-Project Power Flow Diagrams
Attachment A3 Post-Project Power Flow Diagrams
Attachment A4 Post-Project Transient Stability Diagrams
Attachment A5 Dynamic Data and Assumptions
Attachment A6 Post-Mitigation Power Flow Diagrams
Attachment A7 Constraint Effective Factors Table

1 Introduction

This report presents the results of the engineering studies that were completed by Hardline Engineering Ltd. (the Studies Consultant) to assess the impact of the Project (as defined in Attachment A1: AESO Engineering Connection Assessment Scope) on the performance of the Alberta interconnected electric system (AIES). The studies were performed in accordance with Attachment A1: AESO Engineering Connection Assessment: Study Scope, which was prepared by the AESO.

The power system network analysis tool that was used for the studies in this connection assessment was PSS/E Version 34.

2 Pre-Project Study Results

This section describes the results of the pre-Project power flow studies.

2.1 Power Flow Studies

Power flow diagrams illustrating the pre-Project power flow studies results for Category A and Category B conditions are provided in Attachment A2.

2.1.1 Scenario 1: 2023 Summer Peak High Generation

Category A Conditions

No Reliability Criteria (as defined in Section 3.1 of Attachment A1) violations were observed under Category A conditions.

Category B Conditions

Thermal Criteria Violations

Thermal criteria violations were observed under certain Category B conditions as shown in Table 2-1.

Table 2-1: Thermal Criteria Violations under Category B Conditions for Scenario 1

Contingency (System Element Lost)	Violation Location Details	Thermal Ratings[a] (MVA)		Pre-Project Results	
		Normal Rating	Emergency Rating	Power Flow[b] (MVA)	% Loading[c]
1003L (Janet 74S to Enmax 25S)	985L (Janet 74S to Enmax 25S)	973.1	1017.0	993.5	102.1
985L (Janet 74S to Enmax 25S)	1003L (Janet 74S to Enmax 25S)	973.0	1017.0	992.5	102.0
1036L (Milo 356S to Travers 554S)	1005L (Milo 356S to P2009 Tap)	481.0	588.0	500.2	104.0
1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newell 2075S)	547.0	656.0	600.1	109.7

Notes:

[a] The facility ratings shown in Attachment A1 have been adjusted from a 144 kV voltage base to a 138 kV voltage base, as is used by the power system network analysis tool.

[b] Power flow (MVA) is current expressed as MVA (i.e., $S = \sqrt{3} \times V_{base} \times I_{actual}$)

[c] Reported as a percentage of the power flow (in MVA, i.e., $S = \sqrt{3} \times V_{base} \times I_{actual}$) relative to the transmission line's Normal Rating (also in MVA), as shown in Attachment A1.

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No voltage deviations beyond the limits listed in Table 3-1 of Attachment A1 (hereafter referred to as point of delivery (POD) bus voltage deviations) were observed.

2.1.2 Scenario 2: 2023 Summer Light High Generation

Category A Conditions

No Reliability Criteria (as defined in Section 3.1 of Attachment A1) violations were observed under Category A conditions.

Category B Conditions

Thermal Criteria Violations

Thermal criteria violations were observed under certain Category B conditions as shown in Table 2-2.

Table 2-2:: Thermal Criteria Violations under Category B Conditions for Scenario 2

Contingency (System Element Lost)	Violation Location Details	Thermal Ratings[a] (MVA)		Pre-Project Results	
		Normal Rating	Emergency Rating	Power Flow[b] (MVA)	% Loading[c]
1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newell 2075S)	547.0	656.0	571.1	104.4
WATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	437.8	107.3
1005L (Milo 356S to Picture Buttle 120S)	1036L (Travers 554S to Milo 356S)	481.0	577.0	484.8	100.8

Notes:

[a] The facility ratings shown in Attachment A1 have been adjusted from a 144 kV voltage base to a 138 kV voltage base, as is used by the power system network analysis tool.

[b] Power flow (MVA) is current expressed as MVA (i.e., $S = \sqrt{3} \times V_{base} \times I_{actual}$)

[c] Reported as a percentage of the power flow (in MVA, i.e., $S = \sqrt{3} \times V_{base} \times I_{actual}$) relative to the transmission line's Normal Rating (also in MVA), as shown in Attachment A1.

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No voltage deviations beyond the limits listed in Table 3-1 of Attachment A1 (hereafter referred to as point of delivery (POD) bus voltage deviations) were observed.

2.1.3 Scenario 6: 2023 Summer Peak High Generation P1927 / P2247 Sensitivity

Category A Conditions

No Reliability Criteria (as defined in Section 3.1 of Attachment A1) violations were observed under Category A conditions.

Category B Conditions

Thermal Criteria Violations

Thermal criteria violations were observed under certain Category B conditions as shown in Table 2-3.

Table 2-3: Thermal Criteria Violations under Category B Conditions for Scenario 6

Contingency (System Element Lost)	Violation Location Details	Thermal Ratings[a] (MVA)		Pre-Project Results	
		Normal Rating	Emergency Rating	Power Flow[b] (MVA)	% Loading[c]
924L (Langdon 102S to Milo 356S)	927L (Milo 356s to Langdon 102s)	576	691	661.248	114.8
927L (Langdon 102S to Milo 356S)	924L (Milo 356s to Langdon 102s)	547	656	660.2	120.7
1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)	973.1	1017	1088.9	111.9
985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)	973	1017	1088.8	111.9
1107L (Enmax 65 to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	85	132	86.2	101.4
1106L (Enmax 65 to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	85	132	86.2	101.4
1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	547	656	622.5	113.8
EATL	924L (Milo 356s to Langdon 102s)	547	656	667.3	122.0
EATL	927L (Milo 356s to Langdon 102s)	576	691	669.9	116.3
WATL	916L (East Calgary 5S to Sarcee 42S)	408	490	445.5	109.2

Notes:

[a] The facility ratings shown in Attachment A1 have been adjusted from a 144 kV voltage base to a 138 kV voltage base, as is used by the power system network analysis tool.

[b] Power flow (MVA) is current expressed as MVA (i.e., $S = \sqrt{3} \times V_{base} \times I_{actual}$)

[c] Reported as a percentage of the power flow (in MVA, i.e., $S = \sqrt{3} \times V_{base} \times I_{actual}$) relative to the transmission line's Normal Rating (also in MVA), as shown in Attachment A1.

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No voltage deviations beyond the limits listed in Table 3-1 of Attachment A1 (hereafter referred to as point of delivery (POD) bus voltage deviations) were observed.

2.1.4 Scenario 7: 2023 Summer Light High Generation P1927 / P2247 Sensitivity

Category A Conditions

No Reliability Criteria (as defined in Section 3.1 of Attachment A1) violations were observed under Category A conditions.

Category B Conditions

Thermal Criteria Violations

Thermal criteria violations were observed under certain Category B conditions as shown in Table 2-4.

Table 2-4: Thermal Criteria Violations under Category B Conditions for Scenario 7

Contingency (System Element Lost)	Violation Location Details	Thermal Ratings[a] (MVA)		Pre-Project Results	
		Normal Rating	Emergency Rating	Power Flow[b] (MVA)	% Loading[c]
927L (Langdon 102S to Milo 356S)	924L (Milo 356s to Langdon 102s)	547	656	547	100
1109L (Enmax 65 to Enmax 25)	1080L (Enmax 65 to Enmax 25)	487	584	499.175	102.5
1080L (Enmax 65 to Enmax 25)	1109L (Enmax 65 to Enmax 25)	487	584	499.175	102.5
EATL	924L (Milo 356s to Langdon 102s)	547	656	591.854	108.2
EATL	927L (Milo 356s to Langdon 102s)	576	691	594.432	103.2
EATL	916L (East Calgary 5S to Sarcee 42S)	408	490	503.064	123.3
WATL	916L (East Calgary 5S to Sarcee 42S)	408	490	527.952	129.4

Notes:

[a] The facility ratings shown in Attachment A1 have been adjusted from a 144 kV voltage base to a 138 kV voltage base, as is used by the power system network analysis tool.

[b] Power flow (MVA) is current expressed as MVA (i.e., $S = \sqrt{3} \times V_{base} \times I_{actual}$)

[c] Reported as a percentage of the power flow (in MVA, i.e., $S = \sqrt{3} \times V_{base} \times I_{actual}$) relative to the transmission line's Normal Rating (also in MVA), as shown in Attachment A1.

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No voltage deviations beyond the limits listed in Table 3-1 of Attachment A1 (hereafter referred to as point of delivery (POD) bus voltage deviations) were observed.

3 Post-Project Study Results

This section describes the results of the post-Project power flow studies and transient stability studies.

As described in Section 2 of Attachment A1, the post-Project studies were performed using Alternative 1 and 2. Alternative 1 is a T-Tap Connection to the 240 kV transmission Line 927L, and Alternative 2 is a double T-Tap Connection to the 240 kV transmission Lines 924L and 927L. The study results, including power flow and transient stability, indicate that both alternatives are technically feasible and have similar system performance.

3.1 Power Flow Studies

Power flow diagrams illustrating the post-Project power flow studies results for Category A and Category B conditions are included in Attachment A3.

3.1.1 Scenario 3: 2023 Summer Peak High Generation - Alternative 1

Category A Conditions

No Reliability Criteria violations were observed under Category A conditions.

Category B Conditions

Thermal criteria violations were observed under certain Category B conditions as shown in Table 3-1.

Table 3-1: Thermal Criteria Violations under Category B Conditions for Scenario 3 Alternative 1

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
1003L (Janet 74S to Enmax 25S)	985L (Janet 74S to Enmax 25S)	973.1	1017.0	993.5	102.1	993.5	102.1	0.0
985L (Janet 74S to Enmax 25S)	1003L (Janet 74S to Enmax 25S)	973.0	1017.0	992.5	102.0	992.5	102.0	0.0
1036L (Milo 356S to Travers 554S)	1005L (Milo 356S to P2009 Tap)	481.0	588.0	500.2	104.0	496.4	103.2	-0.8
1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newell 2075S)	547.0	656.0	600.1	109.7	590.8	108.0	-1.7
EATL	927L (Langdon 102S to P2378 Tap)	576.0	691.0	507.7	88.1	619.8	107.6	19.5

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No POD bus voltage deviations were observed.

3.1.2 Scenario 3: 2023 Summer Peak High Generation - Alternative 2

Category A Conditions

No Reliability Criteria violations were observed under Category A conditions.

Category B Conditions

Thermal criteria violations were observed under certain Category B conditions as shown in Table 3-2.

Table 3-2: Thermal Criteria Violations under Category B Conditions for Scenario 3 Alternative 2

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
1003L (Janet 74S to Enmax 25S)	985L (Janet 74S to Enmax 25S)	973.1	1017.0	993.5	102.1	992.6	102.0	-0.1
985L (Janet 74S to Enmax 25S)	1003L (Janet 74S to Enmax 25S)	973.0	1017.0	992.5	102.0	992.5	102.0	0.0
1036L (Milo 356S to Travers 554S)	1005L (Milo 356S to P2009 Tap)	481.0	588.0	500.2	104.0	496.4	103.2	-0.8
1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newell 2075S)	547.0	656.0	600.1	109.7	590.8	108.0	-1.7
EATL	927L (Langdon 102S to P2378 Tap)	576.0	691.0	505.9	92.5	557.4	101.9	9.4

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No POD bus voltage deviations were observed.

3.1.3 Scenario 4: 2023 Summer Light High Generation - Alternative 1

Category A Conditions

No Reliability Criteria violations were observed under Category A conditions.

Category B Conditions

Thermal criteria violations were observed under certain Category B conditions as shown in Table 3-3.

Table 3-3: Thermal Criteria Violations under Category B Conditions for Scenario 4 Alternative 1

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newell 2075S)	547.0	656.0	571.1	104.4	562.3	102.8	-1.6
EATL	927L (Langdon 102S to P2378 Tap)	576.0	691.0	484.7	84.1	601.3	104.4	20.3
EATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	401.9	98.5	444.7	109.0	10.5
WATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	437.8	107.3	478.2	117.2	9.9
1005L (Milo 356S to Picture Butte 120S)	1036L (Travers 554S to Milo 356S)	481.0	557.0	484.8	100.8	481.5	100.1	-0.7

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No POD bus voltage deviations were observed.

3.1.4 Scenario 4: 2023 Summer Light High Generation - Alternative 2

Category A Conditions

No Reliability Criteria violations were observed under Category A conditions.

Category B Conditions

Thermal criteria violations were observed under certain Category B conditions as shown in Table 3-4.

Table 3-4: Thermal Criteria Violations under Category B Conditions for Scenario 4 Alternative 2

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newell 2075S)	547.0	656.0	571.1	104.4	562.3	102.8	-1.6
EATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	401.9	98.5	442.3	108.4	9.9
WATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	437.8	107.3	478.6	117.3	10.0
1005L (Milo 356S to Picture Butte 120S)	1036L (Travers 554S to Milo 356S)	481.0	557.0	484.8	100.8	481.5	100.1	-0.7

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No POD bus voltage deviations were observed.

3.1.5 Scenario 8: 2023 Summer Peak High Generation P1927 / P2247 Sensitivity Alternative 1

Category A Conditions

No Reliability Criteria violations were observed under Category A conditions.

Category B Conditions

Thermal criteria violations were observed under certain Category B conditions as shown in Table 3-5.

Table 3-5: Thermal Criteria Violations under Category B Conditions for Scenario 8 Alternative 1

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
924L (Langdon 102S to Milo 356S)	927L (Langdon 102S to P2378 Tap)	576.0	691.0	661.5	114.8	769.0	133.5	18.7
924L (Langdon 102S to Milo 356S)	927L (Milo 356S to P2378 Tap)	576.0	691.0	661.5	114.8	636.5	110.5	-4.3
1003L (Janet 74S to Enmax 25S)	985L (Janet 74S to Enmax 25S)	973.1	1017.0	1088.8	111.9	1087.8	111.8	-.01
985L (Janet 74S to Enmax 25S)	1003L (Janet 74S to Enmax 25S)	973.0	1017.0	1088.8	111.9	1087.8	111.8	-.01
1107L (Enmax 65S to Foothills 237S)	927L (Langdon 102S to P2378 Tap)	576.0	591.0	479.6	83.3	588.1	102.1	18.8
1107L (Enmax 65S to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	85.0	132.0	86.2	101.4	86.4	101.7	0.3
1106L (Enmax 65S to Foothills 237S)	927L (Langdon 102S to P2378 Tap)	576.0	591.0	579.6	83.3	588.1	102.1	18.8
1106L (Enmax 65S to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	85.0	132.0	86.2	101.4	86.4	101.7	0.3
1088L (Cassils 324S to Newell 2065S)	1087L (Cassils 324S to Newell 2075S)	547.0	656.0	622.5	113.8	612.6	112.0	-1.8
927L (Langdon 102S to Milo 356S)	924L (Milo 356S to Langdon 102S)	547.0	656.0	660.2	120.7	649.8	118.8	-1.9
1037L (Foothills 237S to Windy Flats 138S)	927L (Langdon 102S to P2378 Tap)	576.0	691.0	506.0	87.8	614.0	106.6	18.8
1038L (Foothills 237S to Windy Flats 138S)	927L (Langdon 102S to P2378 Tap)	576.0	691.0	506.1	87.9	614.6	106.7	18.8
EATL	924L (Milo 356S to Langdon 102S)	547.0	656.0	667.3	122.0	664.6	121.5	-0.5
EATL	927L (Langdon 102S to P2378 Tap)	576.0	691.0	669.7	116.3	779.9	135.4	19.1

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
EATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	407.6	99.9	447.2	109.6	9.7
EATL	927L (Milo 356S to P2378 Tap)	576.0	691.0	669.7	116.3	643.4	111.7	-4.6
WATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	445.5	109.2	482.7	118.3	9.1

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No POD bus voltage deviations were observed.

3.1.6 Scenario 8: 2023 Summer Peak High Generation P1927 / P2247 Sensitivity Alternative 2

Category A Conditions

No Reliability Criteria violations were observed under Category A conditions.

Category B Conditions

Thermal criteria violations were observed under certain Category B conditions as shown in Table 3-6.

Table 3-6 Thermal Criteria Violations under Category B Conditions for Scenario 8 Alternative 2

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
1003L (Janet 74S to Enmax 25S)	985L (Janet 74S to Enmax 25S)	973.1	1017.0	1088.9	111.9	1087.9	111.8	-0.1
985L (Janet 74S to Enmax 25S)	1003L (Janet 74S to Enmax 25S)	973.0	1017.0	1088.8	111.9	1086.8	111.7	-0.2
1107L (Enmax 65S to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	85.0	132.0	86.2	101.4	86.4	101.7	0.3
1106L (Enmax 65S to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	85.0	132.0	86.2	101.4	86.4	101.6	0.2
1088L (Cassils 324S to Newell 2065S)	1087L (Cassils 324S to Newell 2075S)	547.0	656.0	622.5	113.8	612.6	112.0	-1.8
924L (Langdon 102S to Milo 356S)	927L (Langdon 102S to P2378 Tap)	576.0	691.0	661.5	114.8	708.5	123.0	8.2
924L (Langdon 102S to Milo 356S)	927L (Milo 356S to P2378 Tap)	576.0	691.0	661.5	114.8	644.0	111.8	-3.0
927L (Langdon 102S to Milo 356S)	924L (P2378 Tap to Langdon 102S)	547.0	656.0	660.1	120.7	704.0	128.7	8.0
927L (Langdon 102S to Milo 356S)	924L (Milo 356S to Langdon 102S)	547.0	656.0	660.1	120.7	642.7	117.5	-3.2
1037L (Foothills 237S to Windy Flats 138S)	924L (P2378 Tap to Langdon 102S)	547.0	656.0	504.2	92.2	553.6	101.2	9.0
1038L (Foothills 237S to Windy Flats 138S)	924L (P2378 Tap to Langdon 102S)	547.0	656.0	504.3	92.2	553.6	101.2	9.0
EATL	924L (P2378 Tap to Langdon 102S)	547.0	656.0	667.3	122.0	715.5	130.8	8.8
EATL	927L (Langdon 102S to P2378 Tap)	576.0	691.0	669.7	116.3	720.6	125.1	8.8
EATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	407.6	99.9	447.6	109.7	9.8

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
EATL	924L (P2378 Tap to Milo 356S)	547.0	656.0	667.3	122.0	653.1	119.4	-2.6
EATL	927L (Milo 356S to P2378 Tap)	576.0	691.0	669.7	116.3	654.9	113.7	-2.3
WATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	445.5	109.2	483.5	118.5	9.3

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No POD bus voltage deviations were observed.

3.1.7 Scenario 9: 2023 Summer Light High Generation P1927 / P2247 Sensitivity Alternative 1

Category A Conditions

No Reliability Criteria violations were observed under Category A conditions.

Category B Conditions

Thermal criteria violations were observed under certain Category B conditions as shown in Table 3-7. Certain thermal violations observed under the contingency loss of 927L and EATL in the pre-Project scenarios were not observed in the post-Project scenarios. The project has a positive impact on these events.

Table 3-7: Thermal Criteria Violations under Category B Conditions for Scenario 9 Alternative 1

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
924L (Langdon 102S to Milo 356S)	927L (Milo 356S to P2378 Tap)	576.0	691.0	548.2	95.2	653.2	113.4	18.2
1109L (Enmax 65S to Enmax 25S)	1080L (Enmax 65S to Enmax	487.0	584.0	499.2	102.5	501.1	102.9	0.5

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
	25S							
1080L (Enmax 65S to Enmax 25S	1109L (Enmax 65S to Enmax 25S)	487.0	584.0	499.2	102.5	501.6	103.0	0.5
WATL	901L (Janet 74S to 901AL JCT)	337.0	404.0	311.7	92.5	337.3	100.1	7.6
WATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	528.0	129.4	575.3	141.0	11.6

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No POD bus voltage deviations were observed.

3.1.8 Scenario 9: 2023 Summer Light High Generation P1927 / P2247 Sensitivity Alternative 2

Category A Conditions

No Reliability Criteria violations were observed under Category A conditions.

Category B Conditions

Thermal criteria violations were observed under certain Category B conditions as shown in Table 3-8. Certain thermal violations observed under the contingency loss of 927L and EATL in the pre-Project scenarios were not observed in the post-Project scenarios. The project has a positive impact on these events.

Table 3-8: Thermal Criteria Violations under Category B Conditions for Scenario 9 Alternative 2

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
1109L (Enmax 65S to Enmax 25S)	1080L (Enmax 65S to Enmax	487.0	584.0	499.2	102.5	497.7	102.2	-0.3

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Normal Rating (MVA)	Emergency Rating (MVA)	Pre-Project Results		Post-Project Results		% Loading Difference (Post-Pre)
				Observed Power Flow (MVA)	% Loading	Observed Power Flow (MVA)	% Loading	
	25S							
1080L (Enmax 65S to Enmax 25S	1109L (Enmax 65S to Enmax 25S)	487.0	584.0	499.2	102.5	498.2	102.3	-0.2
924L (Langdon 102S to Milo 356S)	927L (Milo 356S to P2378 Tap)	576.0	691.0	548.2	95.2	597.3	103.7	8.5
927L (Langdon 102S to Milo 356S)	924L (P2378 Tap to Milo 356S)	547.0	656.0	547.1	100.0	591.3	108.1	8.1
WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	528.0	129.4	570.0	139.7	10.3

Voltage Criteria Violations

No voltage criteria violations were observed under Category B conditions.

POD Bus Voltage Deviations

No POD bus voltage deviations were observed.

3.2 Transient Stability Studies

Transient stability studies were completed for Scenario 3,4, 8, and 9.

The results did not indicate any transient stability concerns, and the system showed acceptable dynamic response to all Category B conditions studied, as shown in the tables below. The post-Project transient stability plots are provided in Attachment A4. The dynamic data and assumptions of all equipment proposed for the Facility are provided in Attachment A5.

3.2.1 Alternative 1

Table 3-9: Transient Stability Study Results under Category B Conditions - Scenario 3

Studied Contingency	Fault Description and Location	Results
924L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
927L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
1005L (Milo 356S to Picture Buttle 120S)	3-phase fault at Milo 356S	Stable

Studied Contingency	Fault Description and Location	Results
	3-phase fault at Picture Buttle 120S	Stable
1036L (Milo 356S to Travers 554S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Travers 554S	Stable
923L (Milo 356S - Newell 2075S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Newell 2075S	Stable
935L (Milo 356S - Cassils 324S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Cassils 324S	Stable
1064L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
1065L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
936L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable
937L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable

Table 3-10: Transient Stability Study Results under Category B Conditions – Scenario 4

Studied Contingency	Fault Description and Location	Results
924L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
927L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
1005L (Milo 356S to Picture Buttle 120S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Picture Buttle 120S	Stable
1036L (Milo 356S to Travers 554S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Travers 554S	Stable
923L (Milo 356S - Newell 2075S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Newell 2075S	Stable
935L (Milo 356S - Cassils 324S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Cassils 324S	Stable
1064L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
1065L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
936L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable
937L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable

Table 3-11: Transient Stability Study Results under Category B Conditions – Scenario 8

Studied Contingency	Fault Description and Location	Results
924L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
927L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
1005L (Milo 356S to Picture Buttle 120S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Picture Buttle 120S	Stable
1036L (Milo 356S to Travers 554S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Travers 554S	Stable
923L (Milo 356S - Newell 2075S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Newell 2075S	Stable
935L (Milo 356S - Cassils 324S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Cassils 324S	Stable
1064L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
1065L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
936L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable
937L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable

Table 3-12: Transient Stability Study Results under Category B Conditions – Scenario 9

Studied Contingency	Fault Description and Location	Results
924L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
927L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
1005L (Milo 356S to Picture Buttle 120S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Picture Buttle 120S	Stable
1036L (Milo 356S to Travers 554S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Travers 554S	Stable
923L (Milo 356S - Newell 2075S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Newell 2075S	Stable
935L (Milo 356S - Cassils 324S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Cassils 324S	Stable
1064L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable

Studied Contingency	Fault Description and Location	Results
1065L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
936L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable
937L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable

3.2.2 Alternative 2

Table 3-13: Transient Stability Study Results under Category B Conditions – Scenario 3

Studied Contingency	Fault Description and Location	Results
924L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
927L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
1005L (Milo 356S to Picture Buttle 120S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Picture Buttle 120S	Stable
1036L (Milo 356S to Travers 554S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Travers 554S	Stable
923L (Milo 356S - Newell 2075S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Newell 2075S	Stable
935L (Milo 356S - Cassils 324S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Cassils 324S	Stable
1064L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
1065L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
936L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable
937L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable

Table 3-14: Transient Stability Study Results under Category B Conditions – Scenario 4

Studied Contingency	Fault Description and Location	Results
924L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
927L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
1005L (Milo 356S to Picture Buttle 120S)	3-phase fault at Milo 356S	Stable

Studied Contingency	Fault Description and Location	Results
	3-phase fault at Picture Buttle 120S	Stable
1036L (Milo 356S to Travers 554S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Travers 554S	Stable
923L (Milo 356S - Newell 2075S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Newell 2075S	Stable
935L (Milo 356S - Cassils 324S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Cassils 324S	Stable
1064L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
1065L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
936L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable
937L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable

Table 3-15: Transient Stability Study Results under Category B Conditions – Scenario 8

Studied Contingency	Fault Description and Location	Results
924L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
927L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
1005L (Milo 356S to Picture Buttle 120S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Picture Buttle 120S	Stable
1036L (Milo 356S to Travers 554S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Travers 554S	Stable
923L (Milo 356S - Newell 2075S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Newell 2075S	Stable
935L (Milo 356S - Cassils 324S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Cassils 324S	Stable
1064L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
1065L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
936L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable
937L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable

Table 3-16: Transient Stability Study Results under Category B Conditions – Scenario 9

Studied Contingency	Fault Description and Location	Results
924L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
927L (Langdon 102S to Milo 356S)	3-phase fault at Langdon 102S	Stable
	3-phase fault at Milo 356S	Stable
1005L (Milo 356S to Picture Buttle 120S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Picture Buttle 120S	Stable
1036L (Milo 356S to Travers 554S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Travers 554S	Stable
923L (Milo 356S - Newell 2075S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Newell 2075S	Stable
935L (Milo 356S - Cassils 324S)	3-phase fault at Milo 356S	Stable
	3-phase fault at Cassils 324S	Stable
1064L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
1065L (Langdon 102S - Janet 74S)	3-phase fault at Langdon 102S	Stable
936L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable
937L (East Calgary 5S - Langdon 102S)	3-phase fault at Langdon 102S	Stable

4 Short Circuit Studies

4.1 Pre-Project Results

Pre-Project short-circuit current levels are provided in Table 4-1[1].

Table 4-1: Pre-Project Short-Circuit Current Levels for Scenario 1

Substation Name and Number	Base Voltage (kV)	Pre-Fault Voltage (kV)	3-Φ Fault (kA)	Positive Sequence Thevenin Source Impedance (R1+jX1) (pu)	1-Φ Fault (kA)	Zero Sequence Thevenin Source Impedance (R0+jX0) (pu)
Milo 356S	240	249.7	14.14	0.003897+ j0.019653	10.48	0.008618+ j0.040136
Langdon 102S	240	253.0	22.58	0.002387+ j0.011828	22.23	0.001793+ j0.012688
Cassils 324S	240	249.8	13.85	0.004487+ j0.020789	13.76	0.002952+ j0.021461
Newell 2075S	240	249.2	13.05	0.004720+ j0.022280	12.30	0.004411+ j0.026511
Picture Buttle 120S	240	246.9	9.47	0.005069+ j0.028289	7.18	0.011017+ j0.055196
Travers 554S	240	246.5	8.90	0.005199+ j0.030466	5.47	0.019963+ j0.086707
Janet 74S	240	254.0	26.11	0.002144+ j0.010112	25.81	0.001832+ j0.010780
East Calgary 5S	240	252.1	17.38	0.003274+ j0.015089	15.52	0.003127+ j0.020916

4.2 Post-Project Results – Alternative 1

4.2.1 Scenario 3: 2023 Summer Peak High Generation Post-Project

Post-Project short-circuit current levels for Scenario 3 are provided in Table 4-2.

Table 4-2: Post-Project Short-Circuit Current Levels for Scenario 3

Substation Name and Number	Base Voltage (kV)	Pre-Fault Voltage (kV)	3-Φ Fault (kA)	Positive Sequence Thevenin Source Impedance (R1+jX1) (pu)	1-Φ Fault (kA)	Zero Sequence Thevenin Source Impedance (R0+jX0) (pu)
Milo 356S	240	249.7	14.14	0.003902+ j0.019663	10.48	0.008610+ j0.040119
Langdon 102S	240	253.0	22.49	0.002405+ j0.011869	22.17	0.001793+ j0.012688
Cassils 324S	240	249.8	13.85	0.004491+ j0.020796	13.76	0.002951+ j0.021459
Newell 2075S	240	249.2	13.04	0.004725+ j0.022287	12.29	0.004411+ j0.026509

[1] Short-circuit current studies were based on modeling information provided to the AESO by third parties. The authenticity of the modeling information has not been validated. Fault levels could change as a result of system developments, new customer connections, or additional generation in the area. It is recommended that these changes be monitored and fault levels reviewed to ensure that the fault levels are within equipment operating limits. The information provided in this study should not be used as the sole source of information for electrical equipment specifications or for the design of safety-grounding systems.

Substation Name and Number	Base Voltage (kV)	Pre-Fault Voltage (kV)	3-Φ Fault (kA)	Positive Sequence Thevenin Source Impedance (R1+jX1) (pu)	1-Φ Fault (kA)	Zero Sequence Thevenin Source Impedance (R0+jX0) (pu)
Picture Buttle 120S	240	247.0	9.47	0.005073+ j0.028296	7.18	0.011017+ j0.055195
Travers 554S	240	246.5	8.90	0.005203+ j0.030473	5.47	0.019960+ j0.086700
Janet 74S	240	253.9	26.03	0.002156+ j0.010134	25.75	0.001832+ j0.010780
East Calgary 5S	240	252.1	17.33	0.003289+ j0.015113	15.48	0.003127+ j0.020916
P2378 Substation	240	251.6	10.69	0.004744+ j0.025148	7.03	0.014646+ j0.064130

4.2.2 Scenario 5: 2031 Winter Peak All Generators Post-Project

Post-Project short-circuit current levels for Scenario 5 are provided in Table 4-3.

Table 4-3: Post-Project Short-Circuit Current Levels for Scenario 5

Substation Name and Number	Base Voltage (kV)	Pre-Fault Voltage (kV)	3-Φ Fault (kA)	Positive Sequence Thevenin Source Impedance (R1+jX1) (pu)	1-Φ Fault (kA)	Zero Sequence Thevenin Source Impedance (R0+jX0) (pu)
Milo 356S	240	252.7	13.86	0.003256+ j0.018343	10.23	0.008183+ j0.037604
Langdon 102S	240	253.0	22.79	0.002086+ j0.010995	22.17	0.001684+ j0.012164
Cassils 324S	240	252.7	14.43	0.003086+ j0.017827	15.60	0.001722+ j0.013966
Newell 2075S	240	252.6	13.55	0.003230+ j0.019031	13.81	0.002769+ j0.018022
Picture Buttle 120S	240	250.0	8.84	0.004791+ j0.028321	6.87	0.010346+ j0.052306
Travers 554S	240	250.5	8.45	0.004790+ j0.029792	5.27	0.018908+ j0.082855
Janet 74S	240	252.1	26.65	0.001878+ j0.009347	26.11	0.001679+ j0.010192
East Calgary 5S	240	248.6	17.28	0.002967+ j0.014188	15.26	0.002909+ j0.020163
P2378 Substation	240	252.6	10.35	0.004403+ j0.024281	6.69	0.014538+ j0.063604

4.3 Post-Project Results – Alternative 2

4.3.1 Scenario 3: 2023 Summer Peak High Generation Post-Project

Post-Project short-circuit current levels for Scenario 3 are provided in Table 4-2.

Table 4-4: Post-Project Short-Circuit Current Levels for Scenario 3

Substation Name and Number	Base Voltage (kV)	Pre-Fault Voltage (kV)	3-Φ Fault (kA)	Positive Sequence Thevenin Source Impedance (R1+jX1) (pu)	1-Φ Fault (kA)	Zero Sequence Thevenin Source Impedance (R0+jX0) (pu)
Milo 356S	240	249.8	14.14	0.003900+ j0.019658	10.48	0.008602+ j0.040103

Substation Name and Number	Base Voltage (kV)	Pre-Fault Voltage (kV)	3-Φ Fault (kA)	Positive Sequence Thevenin Source Impedance (R1+jX1) (pu)	1-Φ Fault (kA)	Zero Sequence Thevenin Source Impedance (R0+jX0) (pu)
Langdon 102S	240	253.0	22.51	0.002401+ j0.011858	22.18	0.001793+ j0.012688
Cassils 324S	240	249.9	13.85	0.004490+ j0.020794	13.76	0.002951+ j0.021458
Newell 2075S	240	249.2	13.04	0.004723+ j0.022284	12.30	0.004410+ j0.026508
Picture Buttle 120S	240	247.0	9.47	0.005072+ j0.028294	7.18	0.011016+ j0.055195
Travers 554S	240	246.6	8.90	0.005202+ j0.030470	5.47	0.019957+ j0.086693
Janet 74S	240	253.9	26.04	0.002153+ j0.010128	25.76	0.001832+ j0.010780
East Calgary 5S	240	252.1	17.34	0.003285+ j0.015106	15.49	0.003127+ j0.020916
P2378 Substation	240	252.0	10.69	0.004866+ j0.025160	7.02	0.015285+ j0.064176

4.3.2 Scenario 5: 2031 Winter Peak All Generators Post-Project

Post-Project short-circuit current levels for Scenario 5 are provided in Table 4-3.

Table 4-5: Post-Project Short-Circuit Current Levels for Scenario 5

Substation Name and Number	Base Voltage (kV)	Pre-Fault Voltage (kV)	3-Φ Fault (kA)	Positive Sequence Thevenin Source Impedance (R1+jX1) (pu)	1-Φ Fault (kA)	Zero Sequence Thevenin Source Impedance (R0+jX0) (pu)
Milo 356S	240	252.7	13.87	0.003256+ j0.018341	10.24	0.008176+ j0.037589
Langdon 102S	240	253.0	22.79	0.002087+ j0.010998	22.17	0.001684+ j0.012164
Cassils 324S	240	252.7	14.43	0.003086+ j0.017827	15.60	0.001722+ j0.013965
Newell 2075S	240	252.6	13.55	0.003230+ j0.019030	13.82	0.002769+ j0.018021
Picture Buttle 120S	240	250.0	8.84	0.004791+ j0.028321	6.87	0.010346+ j0.052305
Travers 554S	240	250.5	8.45	0.004790+ j0.029792	5.27	0.018905+ j0.082849
Janet 74S	240	252.1	26.66	0.001879+ j0.009349	26.11	0.001679+ j0.010192
East Calgary 5S	240	248.6	17.28	0.002968+ j0.014189	15.27	0.002909+ j0.020163
P2378 Substation	240	252.9	14.81	0.003158+ j0.016973	8.93	0.012257+ j0.050096

5 Mitigation Measure Development and Evaluation

The Studies Consultant, in consultation with the AESO, developed mitigation measures to address the system performance issues that were identified in the post-Project scenarios. Existing remedial action schemes (RASs) are described in Section 1.2.2 of Attachment A1.

5.1 Pre-Project

Pre-Project mitigation measures are summarized in Table 5-2 and Table 5-2.

Table 5-1: Pre-Project Mitigation Measures

Mitigation Measure	Location of Observed Violation	Contingency
Real time operational practices	985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)
	1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)
Real time operational practices	916L (East Calgary 5S to Sarcee 42S)	WATL
Real time operational practices	1005L (Milo 356S to P2009 Tap)	1036L (Milo 356S to Travers 554S)
Real time operational practices	1087L (Cassils 324S to Newwell 2075S)	1088L (Cassils 324S to Newell 2075S)

Table 5-2: Pre-Project Mitigation Measures with P1927 / P2247 Sensitivity

Mitigation Measure	Location of Observed Violation	Contingency
Real time operational practices	985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)
	1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)
Real time operational practices	916L (East Calgary 5S to Sarcee 42S)	WATL
Real time operational practices	1005L (Milo 356S to P2009 Tap)	1036L (Milo 356S to Travers 554S)
Real time operational practices	1087L (Cassils 324S to Newwell 2075S)	1088L (Cassils 324S to Newell 2075S)
Real time operational practices	691L (Janet 74S to Chestermere 419S)	1107L (Enmax 65 to Foothills 237S)
		1106L (Enmax 65 to Foothills 237S)
RAS 175	924L (Milo 356s to Langdon 102s)	927L (Langdon 102S to Milo 356S)
Real time operational practices	1080L (Enmax 65 to Enmax 25)	1109L (Enmax 65 to Enmax 25)
Real time operational practices	1109L (Enmax 65 to Enmax 25)	1080L (Enmax 65 to Enmax 25)
RAS 175	924L (Milo 356s to Langdon 102s)	EATL
RAS 175	927L (Milo 356s to Langdon 102s)	EATL

5.2 Post-Project

5.2.1 Scenario 3: 2023 Summer Peak High Generation - Alternative 1

Post-Project mitigation measures are summarized in Table 5-3.

Table 5-3: Post-Project Mitigation Measures for Scenario 3 – Alternative 1

Mitigation Measure	Location of Observed Violation	Contingency
Real time operational practices	985L (Janet 74S to Enmax 25S)	1003L (Janet 74S to Enmax 25S)
	1003L (Janet 74S to Enmax 25S)	985L (Janet 74S to Enmax 25S)
	1005L (Milo 356S to P2009 Tap)	1036L (Milo 356S to Travers 554S)
	1087L (Cassils 324S to Newell 2075S)	1088L (Cassils 324S to Newell 2075S)
	927L (Langdon 102S to P2378 Tap)	EATL

5.2.2 Scenario 3: 2023 Summer Peak High Generation - Alternative 2

Post-Project mitigation measures are summarized in Table 5-4.

Table 5-4: Post-Project Mitigation Measures for Scenario 3 – Alternative 2

Mitigation Measure	Location of Observed Violation	Contingency
Real time operational practices	985L (Janet 74S to Enmax 25S)	1003L (Janet 74S to Enmax 25S)
	1003L (Janet 74S to Enmax 25S)	985L (Janet 74S to Enmax 25S)
	1005L (Milo 356S to P2009 Tap)	1036L (Milo 356S to Travers 554S)
	1087L (Cassils 324S to Newell 2075S)	1088L (Cassils 324S to Newell 2075S)
	924L (Langdon 102S to P2378 Tap)	EATL

5.2.3 Scenario 4: 2023 Summer Light High Generation - Alternative 1

Post-Project mitigation measures are summarized in Table 5-5.

Table 5-5: Post-Project Mitigation Measures for Scenario 4 – Alternative 1

Mitigation Measure	Location of Observed Violation	Contingency
Real time operational practices	1087L (Cassils 324S to Newell 2075S)	1088L (Cassils 324S to Newell 2075S)
	927L (Langdon 102S to P2378 Tap)	EATL
	916L (East Calgary 5S to Sarcee 42S)	EATL WATL
	1036L (Travers 554S to Milo 356S)	1005L (Milo 256S to Picture Butte 120S)

5.2.4 Scenario 4: 2023 Summer Light High Generation - Alternative 2

Post-Project mitigation measures are summarized in Table 5-6.

Table 5-6: Post-Project Mitigation Measures for Scenario 4 – Alternative 2

Mitigation Measure	Location of Observed Violation	Contingency
Real time operational practices	1087L (Cassils 324S to Newell 2075S)	1088L (Cassils 324S to Newell 2075S)
	916L (East Calgary 5S to Sarcee 42S)	EATL WATL (WATL HVDC Link)
	1036L (Travers 554S to Milo 356S)	1005L (Milo 256S to Picture Butte 120S)

5.2.5 Scenario 8: 2023 Summer Peak High Generation P1927/ P2247 Sensitivity Alternative 1

Post-Project mitigation measures are summarized in Table 5-7.

Table 5-7: Post-Project Mitigation Measures for Scenario 8 – Alternative 1

Mitigation Measure	Location of Observed Violation	Contingency
Real time operational practices	985L (Janet 74S to Enmax 24S)	1003L (Janet 74S to Enmax 25S)
	1003L (Janet 74S to Enmax 25S)	985L (Janet 74S to Enmax 25S)
Modified RAS 175 to include P2378	927L (Langdon 102S to P2378 Tap)	924L (Langdon 102S to Milo 356S) EATL
	924L (Milo 356S to Langdon 102S)	EATL
Real time operational practices	927L (Milo 356S to P2378 Tap)	924L (Langdon 102S to Milo 356S) EATL
	927L (Langdon 102S to P2378 Tap)	1106L (Enmax 65S to Foothills 237S) 1107L (Enmax 65S to Foothills 237S) 1037L (Foothills 237S to Windy Flats 138S) 1038L (Foothills 237S to Windy Flats 138S)
	691L (Janet 74S to Chestermere 419S)	1107L (Enmax 65S to Foothills 237S) 1106L (Enmax 65S to Foothills 237S)
	1087L (Cassils 324S to Newell 2075S)	1088L (Cassils 324S to Newell 2075S)
	924L (Milo 356S to Langdon 102S)	927L (Langdon 102S to Milo 356S)
	916L (East Calgary 5S to Sarcee 42S)	WATL

5.2.6 Scenario 8: 2023 Summer Peak High Generation P1927/ P2247 Sensitivity Alternative 2

Post-Project mitigation measures are summarized in Table 5-8.

Table 5-8: Post-Project Mitigation Measures for Scenario 8 – Alternative 2

Mitigation Measure	Location of Observed Violation	Contingency
Real time operational practices	985L (Janet 74S to Enmax 24S)	1003L (Janet 74S to Enmax 25S)
	1003L (Janet 74S to Enmax 25S)	985L (Janet 74S to Enmax 25S)

Modified RAS 175 to include P2378	927L (Langdon 102S to P2378 Tap)	924L (Langdon 102S to Milo 356S) EATL
	924L (P2378 Tap to Langdon 102S)	927L (Langdon 102S to P2378 Tap) EATL
Real time operational practices	691L (Janet 74S to Chestermere 419S)	1107L (Enmax 65S to Foothills 237S) 1106L (Enmax 65S to Foothills 237S)
	1087L (Cassils 324S to Newell 2075S)	1088L (Cassils 324S to Newell 2075S)
	916L (East Calgary 5S to Sarcee 42S)	EATL WATL
	924L (Milo 356S to P2378 Tap)	927L (Milo 356S to P2378 Tap) EATL
	924L (Langdon 102S to P2378 Tap)	1037L (Foothills 237S to Windy Flats 138S) 1038L (Foothills 237S to Windy Flats 138S)
	927L (Milo 356S to P2378 Tap)	924L (Langdon 102S to Milo 356S) EATL

5.2.7 Scenario 9: 2023 Summer Light High Generation P1927 / P2247 Sensitivity Alternative 1

Post-Project mitigation measures are summarized in Table 5-9.

Table 5-9: Post-Project Mitigation Measures for Scenario 9 – Alternative 1

Mitigation Measure	Location of Observed Violation	Contingency
Real time operational practices	916L (East Calgary 5S to Sarcee 42S)	WATL
	927L (Langdon 102S to P2378 Tap)	924L (Langdon 102S to Milo 356S)
	1080L (Enmax 65S to Enmax 25S)	1109L (Enmax 65S to Enmax 25S)
	1109L (Enmax 65S to Enmax 25S)	1080L (Enmax 65S to Enmax 25S)
	901L (Janet 74S to 901AL JCT)	WATL

5.2.8 Scenario 9: 2023 Summer Light High Generation P1927 / P2247 Sensitivity Alternative 2

Post-Project mitigation measures are summarized in Table 5-10.

Table 5-10: Post-Project Mitigation Measures for Scenario 9 – Alternative 2

Mitigation Measure	Location of Observed Violation	Contingency
Real time operational practices	916L (East Calgary 5S to Sarcee 42S)	WATL
	924L (Langdon 102S to P2378 Tap)	927L (Langdon 102S to Milo 356S)
	927L (Langdon 102S to P2378 Tap)	924L (Langdon 102S to Milo 356S)
	1080L (Enmax 65S to Enmax 25S)	1109L (Enmax 65S to Enmax 25S)
	1109L (Enmax 65S to Enmax 25S)	1080L (Enmax 65S to Enmax 25S)

5.3 Evaluation of Mitigation Measures

This section describes the results of the power flow studies that were performed to assess the impact of the Project on the performance of the AIES following the implementation of proposed mitigation measures.

The post-mitigation measures studies were performed under Category B conditions for Scenarios 8 and 9 using Alternatives 1 and 2, and the RASs described in the previous section.

The post-mitigation power flow diagrams for selected Category B conditions are provided in Attachment A6. Post-mitigation power flow diagrams present only those post-Project contingencies that result in thermal criteria violations that require RAS mitigation. Post-Project contingencies that result in thermal criteria violations that can be mitigated by real-time operational practices or TFO capital maintenance projects were not studied.

5.3.1 Scenario 8: 2023 Summer Peak High Generation P1927 / P2247 Sensitivity Alternative 1

Category B Conditions

Thermal violations observed under certain Category B conditions in the post-Project studies were mitigated by RASs as shown in Table 5-11.

After RAS actions were complete, real-time operational practices are required to fully alleviate certain thermal criteria violations observed on 240 kV transmission line 916L.

Table 5-11: Post-RAS Power Flow Study Results for Scenario 8 Alternative 1

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Seasonal Continuous Rating (MVA)	Short-term (Emergency) Rating (MVA)	Post-Project Results		Post-RAS Action Results	
				Power Flow (MVA)	% Loading	Power Flow (MVA)	% Loading
924L (Langdon 102S to Milo 356S)	927L (Langdon 102s to P2378 Tap)	576.0	691.0	769.0	133.5	560.6	97.3
924L (Langdon 102S to Milo 356S)	927L (Milo 356s to P2378 Tap)	576.0	691.0	636.5	110.5	565.9	98.3
EATL	924L (Milo 356s to Langdon 102s)	547.0	656.0	664.6	121.5	525.0	96.0
EATL	927L (Langdon 102s to P2378 Tap)	576.0	691.0	779.9	135.4	526.4	91.4
EATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	447.2	109.6	480.0	117.4
EATL	927L (Milo 356s to P2378 Tap)	576.0	691.0	643.4	111.7	527.8	91.6

5.3.2 Scenario 8: 2023 Summer Peak High Generation P1927 / P2247 Sensitivity Alternative 2

Category B Conditions

The thermal and voltage criteria violations observed under certain Category B conditions in the post-Project studies were mitigated by RASs as shown in Table 5-12.

After RAS actions were complete, real-time operational practices are required to fully alleviate certain thermal criteria violations observed on 240 kV transmission lines 916L and 927L.

Table 5-12: Post-RAS Power Flow Study Results for Scenario 8 Alternative 2

Contingency (System Element Lost)	Details of Violation (Violation Observed On)	Seasonal Continuous Rating (MVA)	Short-term (Emergency) Rating (MVA)	Post-Project Results		Post-RAS Action Results	
				Power Flow (MVA)	% Loading	Power Flow (MVA)	% Loading
924L (Langdon 102s to Milo 356s)	927L (Langdon 102s to P2378 Tap)	576.0	691.0	708.5	123.0	538.0	93.4
924L (Langdon 102s to Milo 356s)	927L (Milo 356s to P2378 Tap)	576.0	691.0	644.0	111.8	472.7	82.1
927L (Langdon 102s to Milo 356s)	924L (P2378 Tap to Langdon 102s)	547.0	656.0	704.0	128.7	473.7	86.6
927L (Langdon 102s to Milo 356s)	924L (P2378 Tap to Milo 356s)	547.0	656.0	642.7	117.5	479.5	87.7
EATL	924L (P2378 Tap to Langdon 102s)	547.0	656.0	715.5	130.8	524.0	98.8
EATL	927L (Langdon 102s to P2378 Tap)	576.0	691.0	720.6	125.1	584.5	101.5
EATL	916L (East Calgary 5S to Sarcee 42S)	408.0	490.0	447.6	109.7	468.9	114.9
EATL	924L (P2378 Tap to Milo 356s)	547.0	656.0	653.1	119.4	526.7	96.3
EATL	927L (Milo 356s to P2378 Tap)	576.0	691.0	654.9	113.7	516.2	89.6

5.4 Constraint Effective Factor Studies

Constraint effective factor studies were conducted for all post-Project scenarios. The constraint effective factors were calculated for all Category B conditions when the loadings of the monitored transmission elements in the Study Area exceeded 100% (i.e., for all of the contingencies that resulted in thermal criteria violations). The results of the constraint effective factor studies are provided in Attachment A7.

Attachment A1
Engineering Connection Assessment: Study Scope

Study Scope

P2378 Nova Solar Project Connection

Renewable Energy Systems Canada Inc.

Date: Jan. 7th, 2021

Version: V1

Classification: Public

Company Name	Name and Credentials	Date	Signature
Hardline Engineering Inc. (Study Consultant)	James Howland, P. Eng.	2022-01-11	
AESO	Mahmoud Ahmed, P. Eng.	2022-01-11	Mahmoud Ahmed
Market Participant	Andrea Cosman	2022-01-11	

Contents

1 Introduction 1
1.1 Project Overview 1
1.2 Existing System Overview 2
1.2.1 Study Area 2
1.2.2 Existing Constraints 2
2 Connection Alternatives 4
2.1 Alternative 1 – T-Tap Connection to the 240 kV transmission Line 927L 4
2.2 Alternative 2 – Double T-Tap Connection to the 240 kV transmission Lines 924L and 927L 6
3 Criteria, Standards and Requirements 8
3.1 AESO Reliability Criteria 8
3.2 ISO Rules and Information Documents 9
4 Scenarios and Assumptions 10
4.1 Scenarios 10
4.2 Assumptions 10
4.2.1 System Project Assumptions 10
4.2.2 Connection Project Assumptions 10
4.2.3 Load Assumptions 11
4.2.4 Generation Assumptions 11
4.2.5 Intertie Flow Assumptions 15
4.2.6 HVDC Power Order Assumptions 16
4.2.7 Transmission Facility Ratings 17
4.2.8 Protection Fault Clearing Times 19
4.2.9 Project Dynamic Data 20
4.2.10 Voltage Profile Assumption 20
5 Study Methodology 21
5.1 Power Flow Studies 21
5.1.1 Contingencies to be Studied 22
5.2 Transient Stability Studies 22
5.2.1 Contingencies to be Studied 22
5.3 Short-Circuit Current Level Studies 22
6 Mitigation Measures 24
6.1 Development 24
6.2 Evaluation 24
6.2.1 Post-Mitigation Studies 24
6.2.2 Constraint Effective Factor Studies 24
7 Changes to Study Assumptions 25

Tables

Table 1-1: Project Load and Generation Details 1
Table 3-1: Post-Contingency Voltage Deviation Guidelines for Low Voltage Busses 9
Table 4-1: Connection Study Scenarios 10
Table 4-2: Planned Connection Projects Included in the Studies 11
Table 4-3: Forecast Load (at AESO [Central/South/Northeast/ Northwest/Edmonton/Calgary] Planning Region Peak) 11
Table 4-4: Existing Generation (excluding Wind and Solar) Dispatch Conditions 12
Table 4-5: Dispatch Conditions for Existing Wind and Solar Generation Facilities ... **Error! Bookmark not defined.**
Table 4-6: Dispatch Conditions for Planned Wind and Solar Generation Projects.... **Error! Bookmark not defined.**
Table 4-7: Intertie Flows by Scenario 15
Table 4-8: HVDC to Adjacent AC System MVAr Exchange Limits 17
Table 4-9: Thermal Rating Assumptions for Key Transmission Lines in the Study Area 17
Table 4-10: Summary of Key Transformer Ratings in the Study Area 18
Table 4-11: Summary of Key Shunt Elements in the Study Area 19
Table 4-12: Protection Fault Clearing Times 20
Table 5-1: Summary of the Studies to be Performed 21

Figures

Figure 1-1: Transmission System in the Study Area 3
Figure 2-1: Connection Alternative 1 5
Figure 2-2: Connection Alternative 2 7

Attachments

Attachment A: Transmission Planning Criteria – Basis and Assumptions

1 Introduction

This Study Scope provides an overview of the engineering studies to be completed by Hardline Engineering Inc. (the Studies Consultant) to assess the impact of the Project (as defined in section 1.1) on the performance of the Alberta interconnected electric system (AIES). Technical criteria, assumptions and methods for performing these engineering studies are provided in this document.

1.1 Project Overview

Renewable Energy Systems Canada Inc. (Market Participant) has submitted a request for system access service to the Alberta Electric System Operator (AESO) to connect its proposed RESC Nova MPC Solar (Facility) to the AIES.

The Market Participant's request includes: a request for a new system access service in the area, with a Rate STS, *Supply Transmission Service*, contract capacity of 150 MW and a Rate DTS, *Demand Transmission Service*, contract capacity of 1 MW; and a request for transmission development (collectively, the Project).

The Project in-service date (ISD) used for the purpose of the studies is December 31st, 2022.

Load and generation components of the Project are listed in Table 1-1.

Table 1-1: Project Load and Generation Details

Project Component		Description
Load	Existing Rate DTS, *Demand Transmission Service,* contract capacity	No existing contract
	Requested Rate DTS	1 MW
	Type	Station service
	Motors (number and size)	Not applicable
	Power factor	Not applicable
	Future load expansion plans	No
Generation	Generation type	Solar PV
	Existing Rate STS, *Supply Transmission Service,* contract capacity	No existing contract
	Requested Rate STS	150 MW
	Number and size of generating units	TBD
	Maximum authorized real power (MARP)	150 MW
	Maximum capability (MC)	150 MW
	Reactive power capability	0.95 pf absorbing
		0.9 pf producing
	Future generation expansion plans	No

Note:

Project Component	Description

MARP and MC are defined in the AESO's *Consolidated Authoritative Document Glossary*, which can be found on the AESO's website.

1.2 Existing System Overview

1.2.1 Study Area

Geographically, the Project is located in the AESO planning area of Strathmore/Blackie (Area 45).

The Study Area consists of the AESO planning areas of the Strathmore/Blackie Planning Area (Area 45), Calgary (Area 6), Stavely (Area 49), Brooks (Area 47), and High River (Area 46), including the tie lines connecting these planning areas to the rest of the AIES.

The existing transmission system in the Study Area is shown in Figure 1-1.

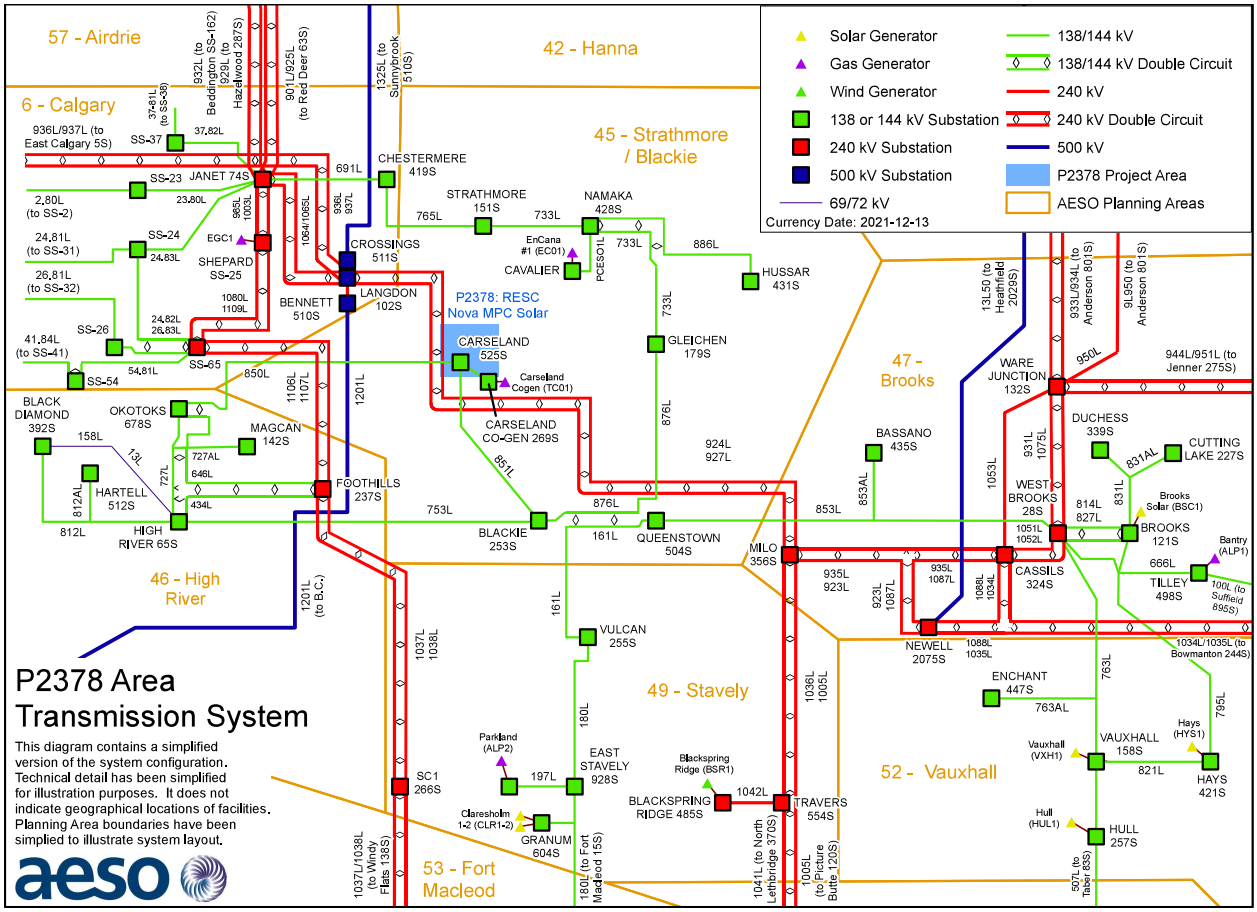
1.2.2 Existing Constraints

Existing constraints in the Study Area are managed in accordance with the procedures set out in Section 302.1 of the ISO rules, *Real Time Transmission Constraint Management* (TCM Rule).

There are a number of constraints in the Study Area that are mitigated by existing remedial action schemes (RASs) and/or other protection schemes. The following existing RASs and/or other protection schemes are used to manage constraints in the area:

- RAS 133: Beddington 162s Overload Mitigation Scheme
- RAS 136: Direct Transfer Trip to MATL on Loss of 1201L
- RAS 145: Shepard RAS - Mitigation of 138 kV Thermal Constraints on ENMAX System
- RAS 150: WATL HVDC
- RAS 153: Mitigation of 138 kV Thermal Constraints on ENMAX System at SS-65
- RAS 157: Chestermere 419S Overload and Voltage Stability Mitigation
- RAS 141: 498S Voltage Instability Mitigation
- RAS 149: EATL HVDC

Figure 1-1: Transmission System in the Study Area



2 Connection Alternatives

The following alternatives will be studied:

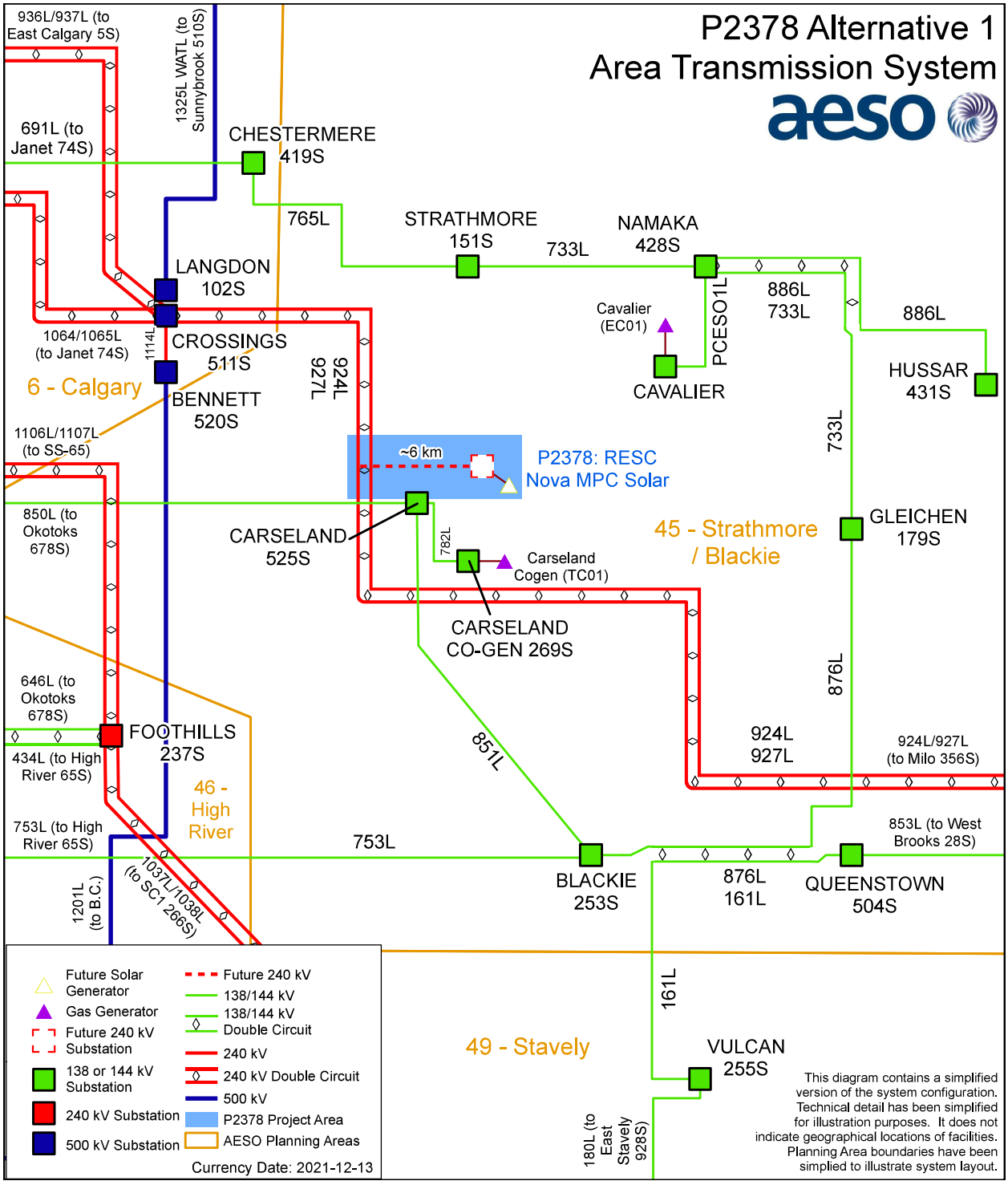
2.1 Alternative 1 – T-Tap Connection to the 240 kV transmission Line 927L

This alternative included the following developments:

- Connect the Facility to the existing 240 kV transmission line 927L through a T-Tap configuration between Milo 356S and Langdon 102S;
- Add a 240 kV circuit, approximately 6 km, to connect facility to the T-Tap junction; and
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 2-1

Figure 2-1: Connection Alternative 1



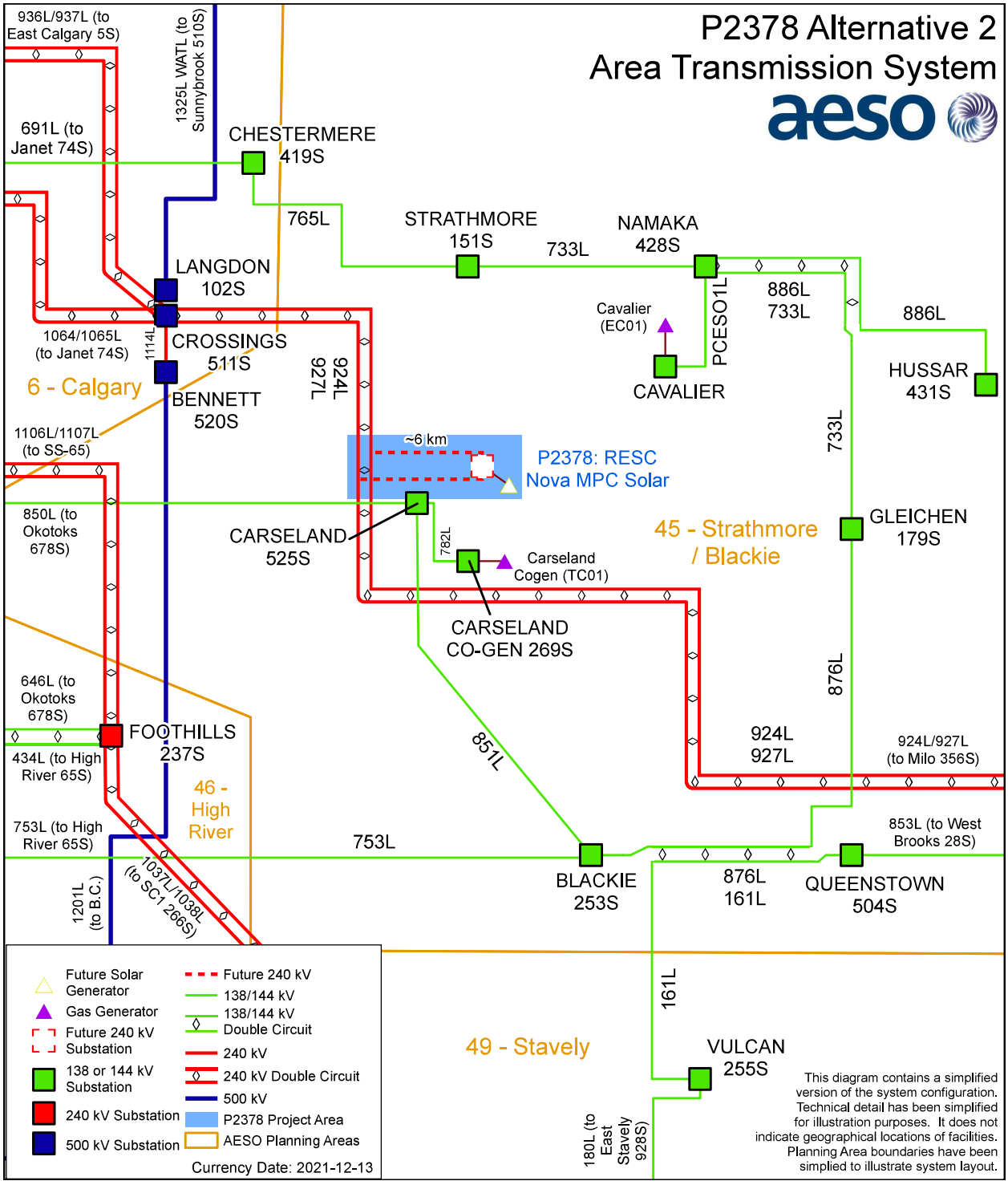
2.2 Alternative 2 – Double T-Tap Connection to the 240 kV transmission Lines 924L and 927L

This alternative included the following developments:

- Connect the Facility to the existing 240 kV transmission lines 924L and 927L through a double T-tap configuration between Milo 356S and Langdon 102S;
- Add two 240 kV circuits, approximately 6 km each, to connect facility to the double T-Tap junction; and
- Add or modify associated equipment as required for the above transmission developments.

The proposed connection configuration is shown in Figure 2-2

Figure 2-2: Connection Alternative 2



3 Criteria, Standards and Requirements

3.1 AESO Reliability Criteria

The Transmission Planning (TPL) Standards, which are included in the Alberta Reliability Standards, and *Transmission Planning Criteria – Basis and Assumptions (see Attachment A),* (collectively, the Reliability Criteria) will be applied to evaluate system performance under Category A system conditions (i.e., all elements in-service) and following Category B contingencies (i.e., single element outage), prior to and following the studied alternatives. Below is a summary of Category A and Category B system conditions.

Category A, often referred to as the N-0 condition, represents a normal system with no contingencies and all facilities in service. Under this condition, the system must be able to supply all firm load and firm transfers to other areas. All equipment must operate within its applicable rating, voltages must be within their applicable range, and the system must be stable with no cascading outages.

Category B events, often referred to as an N-1 or N-G-1 with the most critical generator out of service, result in the loss of any single specified system element under specified fault conditions with normal clearing. These elements are a generator, a transmission circuit, a transformer, or a single pole of a DC transmission line. The acceptable impact on the system is the same as Category A. Planned or controlled interruptions of electric supply to radial customers or some local network customers, connected to or supplied by the faulted element or by the affected area, may occur in certain areas without impacting the overall reliability of the interconnected transmission systems. To prepare for the next contingency, system adjustments are permitted, including curtailments of contracted firm (non-recallable reserved) transmission

The TPL standards, TPL-001-AB-0 and TPL-002-AB1-0 have referenced Applicable Ratings when specifying the required system performance under Category A and Category B events. For the purpose of applying the TPL standards to the studies documented in this report, Applicable Ratings are defined as follows:

- Normal thermal rating of the line's loading limits for each season;
- The highest specified loading limits for transformers;
- For Category A conditions: Voltage range under normal operating condition per AESO Information Document #2010-007RS, *General Operating Practices – Voltage Control* (ID #2010-007RS). For the busses not listed in ID #2010-007RS, Table 2-1 in the *Transmission Planning Criteria – Basis and Assumptions* applies;
- For Category B conditions: The extreme voltage range values per Table 2-1 in the *Transmission Planning Criteria – Basis and Assumptions; and*
- Desired post-contingency voltage deviation limits for three defined post-event timeframes as provided in Table 3-1.

Table 3-1: Post-Contingency Voltage Deviation Guidelines for Low Voltage Busses

Parameter and reference point	Time Period		
	Post Transient (up to 30 sec)	Post Auto Control (30 sec to 5 min)	Post Manual Control (Steady State)
Voltage deviation from steady state at point of delivery (POD) low voltage bus.	±10%	±7%	±5%

3.2 ISO Rules and Information Documents

ID #2010-007RS will be used to establish system normal (i.e., pre-contingency) voltage profiles for the Study Area.

The TCM Rule will be followed to set up the study scenarios and assess the impact of the Project. In addition, due regard will be given to the following:

- The AESO's *Connection Study Requirements*;
- Section 502.1 of the ISO rules, *Aggregated Generating Facilities Technical Requirements*;
- Section 502.16 of the ISO rules, *Aggregated Generating Facilities Operating Requirements*;
- Section 502.5 of the ISO rules *Generating Unit Technical Requirements*;
- Section 502.6 of the ISO rules *Generating Unit Operating Requirements*;

4 Scenarios and Assumptions

4.1 Scenarios

The following section describes the scenarios to be studied and the assumptions to be used in the studies.

Connection scenarios must be studied as outlined in Table 4-1.

Table 4-1: Connection Study Scenarios

Scenario No.	Year/Season	System Generation Dispatch Conditions	Scenario Name	Project Load (MW)	Project Generation (MW)
Pre-Project					
1	2023 Summer Peak (SP)	High Generation	2023 SP Pre-Project	0	0
2	2023 Summer Light (SL)	High Generation	2023 SL Pre-Project	0	0
post-Project					
3	2023 SP	High Generation	2023 SP Post-Project	0	150
4	2023 SL	High Generation	2023 SL Post-Project	0	150
5	2031 WP	All machines in study area in service	2031 WP Post-Project	0	150
Pre-Project Sensitivity-with P1927 and P2247					
6	2023 SP	High Generation	2023 SP Sensitivity Pre-Project	0	0
7	2023 SL	High Generation	2023 SL Sensitivity Pre-Project	0	0
Post-Project Sensitivity with P1927 and P2247					
8	2023 SP	High Generation	2023 SP Sensitivity Post-Project	0	150
9	2023 SL	High Generation	2023 SL Sensitivity Post-Project	0	150

4.2 Assumptions

4.2.1 System Project Assumptions

The pre-Project and post-Project connection assessment will not include any system transmission projects because there are no planned system transmission developments in the Study Area that are expected to be in service before the scheduled Project ISD.

4.2.2 Connection Project Assumptions

In addition to the planned renewable projects summarized in **Error! Reference source not found.**, Table 4-2 summarizes the connection projects in the Study Area that should be included in the studies.

Table 4-2: Planned Connection Projects Included in the Studies

AESO Project No.	AESO Project Name	AESO Planning Area No.	Generation (MW)	Load (MW)	Scheduled ISD
P2247	Buffalo Plains MPC Wind	47-Brooks	466	2	April 17, 2023
P1927	Solar Krafte Brooks	47-Brooks	400	1	June 30, 2022

4.2.3 Load Assumptions

The load forecast to be used for the studies is shown in Table 4-3 and is a forecast for the AESO South Planning Region peak based on the AESO 2021 Long-term Outlook (2021 LTO) [1] with modifications to incorporate the latest forecast intelligence. For the post-Project studies, when the Study Area loads are modified to align with the regional load forecast, the active power to reactive power ratio in the base case scenarios shall be maintained.

Table 4-3: Forecast Load at AESO South Planning Region Peak

AESO Planning Region Name	Forecast Peak Load by Year/Season (MW)	
	2023 SP	2023 SL
South Planning Region[1]	1,579	862

Note:
[1] The South Region comprises the following AESO planning areas: 4, 43 ,44 ,45 ,46 ,47, 48, 49, 52,53 ,54, and 55

4.2.4 Generation Assumptions

The generation forecast to be used for the studies is based on the 2021 LTO with modifications to incorporate the latest forecast intelligence. The generation assumptions for the studies will assume high generation dispatch conditions. Additional studies may be required in the event of changes to the AESO's corporate forecast.

The existing generation (excluding wind and solar) dispatch conditions for the study scenarios are described in Table 4-4

.

[1] The 2021 LTO is available on the AESO website.

Table 4-4: Existing Generation (excluding Wind and Solar) Dispatch Conditions

Facility Name	Bus No.	MC (MW)	AESO Planning Area No.	Unit Net Generation (MW) by Scenario	
				2023 SP	2023 SL
Bantry (ALP1)	4275	7	47	5	0
Parkland (ALP2)	4235	10	49	9	0
Carseland Cogen (TC01)	3251, 4251	95	45	71	74
Cavalier (EC01)	3247, 4247	120	45	85	62

The wind and solar generation facilities will be dispatched to the high wind dispatch scenario presented in Table 4-5 ,Table 4-6, Table 4-7 and Table 4-8 . The Pre-Project dispatch scenarios for the existing wind and solar generation facilities are shown in Table 4-5 and Table 4-6

Table 4-5: Dispatch Conditions for Existing and Under Construction Wind Generation Facilities

Facility Name and Code	Bus No.	MC (MW)	AESO Planning Area No.	Unit Net Generation (MW)	
				SL	SP
Ardenville Wind (ARD1)	4735, 4740	53	68	62.6	57.8
Blue Trail Wind (BTR1)	66328, 67328	53	66	60.7	56.1
Castle River #1 (CR1)	2234, 3234	53	39	35.9	33.2
Castle Rock Wind Farm (CRR1)	67221	53	77	70.8	65.5
Cowley Ridge (CRWD)	4264	53	20	18.4	17.0
Enmax Taber (TAB1)	15343, 16343	52	81	74.5	68.9
Kettles Hill (KHW1)	2402, 3402	53	63	58.0	53.6
McBride Lake Windfarm (AKE1)	2901, 3901, 4901	53	73	67.2	62.1
Soderglen Wind (GWW1)	12358, 13358	53	71	65.3	60.4
Summerview 1 (IEW1)	2338, 3338	53	66	60.7	56.1
Summerview 2 (IEW2)	4339, 5337	53	66	60.7	56.1
Suncor Chin Chute (SCR3)	2389	54	30	27.6	25.5
Suncor Magrath (SCR2)	11002	53	30	27.6	25.5

Facility Name and Code	Bus No.	MC (MW)	AESO Planning Area No.	Unit Net Generation (MW)	
				SL	SP
Suncor Wintering Hills (SCR4)	60789, 60791, 60793, 60846, 60848, 60850	88	43	81.0	74.8
Old Man River(OWF1)	61543	46	53	42.3	39.1
Blackspring Ridge(BSR1)	61736, 61737	300	49	276.0	255.0
Castle Rock Ridge 2 (CRR2)	567221	30.6	53	28.2	26.0
Enel Riverview Wind Farm (RIV1)	69221	115	53	105.8	97.8
Capital Power Whitla Wind Power Facility (WHT1)	60990	201.6	4	185.5	171.4
Capital Power Whitla Wind Power Facility Phase 2 (WHT2)	61990	4	97.2	89.4	82.6
Capital Power Whitla Wind Power Facility Phase 3 (WHT2)	64990	4	54	49.7	45.9
TransAlta Windrise (WRW1)	567031	53	207	190.4	176.0
Ghost Pine (NEP1)	2621, 2622, 2623, 2624, 2625	82	42	75.4	69.7
Halkirk (HAL1)	66435, 67435	150	42	138.0	127.5
Fortis Bull Creek Phases 1 and 2(Bul1 & BUL2)	550003, 550004	29	37	26.7	24.7

Table 4-6: Dispatch Conditions for Existing and Under Construction Solar Generation Facilities

Facility Name and Code	Bus No.	MC (MW)	AESO Planning Area No.	Unit Net Generations (MW)	
				SL	SP
Brooks Solar (BSC1)	553257	15	47	0.0	7.5
Hull DER Solar (HUL1)	2401	24.5	52	0.0	12.3
Vauxhall Solar (VXH1)	4274	22	52	0.0	11.0
Claresholm 1 (CLR1)	60894	58	49	0.0	29.0
Clareshom 2 (CLR2)	61894	75	49	0.0	37.5
Suffield (SUF1)	3270	23	52	0.0	11.5
Burdett (BRD1)	2269	10.5	52	0.0	5.3
Burdett (BUR1)	557269	20	52	0.0	10.0
Westfield Yellow Lake (WEF1)	557277	19	52	0.0	9.5
Innisfail Solar (INF1)	557120	22	39	0.0	11.0
Jenner (JER1)	554986	21	48	0	10.5
Hays (HYS1)	554401	24	52	0	12

Table 4-7 and Table 4-8 list the pre-Project dispatch levels for the planned wind and solar generation projects in the AESO South and Central planning regions that are included in the study scenarios.

Table 4-7: Dispatch Conditions for Planned Wind Generation Projects

Project Number	Project Name	Planned ISD	Bus No.	MC (MW)	AESO Planning Area No.	Unit Net Generation Dispatch (MW)	
						SL	SP
P1892	Fortis Buffalo Atlee Cluster 3 WAGF (REP #2)	2-Dec-22	552260	17.25	48	15.9	14.7
P1853	Fortis Buffalo Atlee Cluster 1 WAGF (REP #2)	2-Dec-22	553260	17.25	48	15.9	14.7
P2199	Buffalo Atlee Wind Farm 2 (REP #2)	2-Dec-22	557261	13.8	48	12.7	11.7
P1719	Stirling WAGF Project	1-Aug-22	61630	113	54	104.0	96.1
P2122	EDF Cypress Wind (REP #2)	1-Nov-22	560003	201.6	4	185.5	171.4
P1533	Joss MPC WAGF (REP #3)	31-Aug-22	60798, 60799	122.4	47	112.6	104.0
P1698	Joss Jenner WAGF - Phase 2 (REP #3)	31-Aug-22	61798, 61799	71.4	47	65.7	60.7
P1812	Suncor Forty Mile Granlea WAGF	16-Nov-21	61994, 62994	200	4	184.0	170.0
P1898	Pattern Lanfine North Wind	Sep. 30, 2022	60996	42	145	133.4	123.3
P2212	RESC Rattlesnake Ridge MPC Wind	30-Jul-21	60873	115.9	4	106.6	98.5
P1718	Wheatland WAGF	30-Sep-22	61632, 60632	120	43	110.4	102.0
P1909	TransAlta Garden Plain Wind	1-Jul-22	565002	130	42	119.6	110.5
P2234	Jenner Wind Phase 3	30-Jun-22	61798, 61799	109.2	48	100.5	92.8

Table 4-8: Dispatch Conditions for Planned Solar Generation Projects

Project Number	Project Name	Planned ISD	Bus No.	MC (MW)	AESO Planning Area No.	Unit Net Generation Dispatch (MW)	
						SL	SP
P2009 & P2341	Greengate Travers MPC Solar & Travers Solar Phase 2	1-Apr-21 & Apr. 1, 2022	560026, 561026, 562026	465	49	0.0	232.5
P1831	Fortis 255S Vulcan Faribault Farms DG PV	24-May-21	4244	22	49	0.0	11.0
P1850	Fortis Coaldale 254S DER Solar 3	24-May-21	554691	22	54	0.0	11.0
P1851	Fortis Monarch 492S DER Solar	24-May-21	2005	23.6	54	0.0	11.8

P1862	Fortis Spring Coulee 385S Solar DG	Oct. 15, 2021	553246, 554246	29.5	55	0.0	14.8
P1870	Fortis Stavely 349S DER Solar	24-May-21	2004	16.5	49	0.0	8.3
P1918	FortisAlberta Conrad DER Solar 1	Aug. 15, 2021	554291	23.4	52	0.0	11.7
P1959	FortisAlberta Conrad DER Solar 2	Aug. 15, 2021	553291	22.5	52	0.0	11.3
P2029	FortisAlberta Strathmore 151S DER Solar 1	Aug. 15, 2021	557259	18	45	0.0	9.0
P2030	FortisAlberta Strathmore 151S DER Solar 2	Aug. 15, 2021	558259	22.5	45	0.0	11.3
P2195	FortisAlberta Bassano 435S DER Solar	Feb 1, 2023	557399	9.25	47	0.0	4.63
P1932	FortisAlberta Namaka DER Solar	Sep.3, 2021	553340	20.1	45	0.0	10.05
P2249	FortisAlberta Empress 394S DER Solar 1	1-May-22	558316	22.5	48	0.0	11.3
P2250	FortisAlberta Empress 394S DER Solar 2	1-May-22	558016	16	48	0.0	8.0
P2272	FortisAlberta Buffalo Creek 526S DER Storage	1-Oct-21	558079	20	32	0.0	10.0
P1978	ATCO Michichi DER Solar	1-Nov-22	552448, 553448, 552450	75	42	0.0	37.5
P2300	RESC Enterprise MPC Solar	1-Apr-22	563070	65	49	0.0	32.5

The post-Project scenario wind and solar generation dispatch levels were identical to the pre-Project scenario dispatch levels shown in Table 4-5, Table 4-6, Table 4-7, and Table 4-8. The Facility is dispatched to 150 MW in all post-Project scenarios. In the sensitivity studies, projects included for sensitivity will be dispatched to its maximum capacity in all pre- and post-Project scenarios.

4.2.5 Intertie Flow Assumptions

The intertie flow assumptions for the Alberta-British Columbia (AB-BC), Alberta-Saskatchewan (AB-SK), and Alberta-Montana (MATL) interties are shown in Table 4-9.

For the 2031 WP Post-Project scenario, the intertie flow values should be set to the AESO planning base cases.

Table 4-9: Intertie Flows by Scenario

Scenario Number	Scenario Name	Import (-) / Export (+) (MW) by Intertie		
		AB-BC	AB-SK	MATL
1	2023 SL Pre-Project	-602	0	-300

Scenario Number	Scenario Name	Import (-) / Export (+) (MW) by Intertie		
		AB-BC	AB-SK	MATL
2	2023 SP Pre-Project	-181	0	-300
3	2023 SL Post-Project	-602	0	-300
4	2023 SP Post-Project	-181	0	-300
6	2023 SL Pre-Project Sensitivity	-602	0	-300
7	2023 SP Pre-Project Sensitivity	-181	0	-300
8	2023 SL Post-Project Sensitivity	-602	0	-300
9	2023 SP Post-Project Sensitivity	-181	0	-300

4.2.6 HVDC Power Order Assumptions

The Western Alberta Transmission Line (WATL) and the Eastern Alberta Transmission Line (EATL) are high-voltage direct current (HVDC) transmission lines. The HVDC power order assumptions for the studies will be set to minimize losses for the pre-Project and post-Project study scenarios as shown in Table 4-10. For the 2031 WP scenario, the HVDC power order should be as per the AESO base cases and will not be adjusted.

Table 4-10: HVDC Power Order by Scenario

Scenario Number	Scenario Name	WATL (MW)*	EATL (MW)*
1	2023 SL Pre-Project	TBD	TBD
2	2023 SP Pre-Project	TBD	TBD
3	2023 SL Post-Project	TBD	TBD
4	2023 SP Post-Project	TBD	TBD
6	2023 SL Pre-Project Sensitivity	TBD	TBD
7	2023 SP Pre-Project Sensitivity	TBD	TBD
8	2023 SL Post-Project Sensitivity	TBD	TBD
9	2023 SP Post-Project Sensitivity	TBD	TBD

N → S: HVDC flow direction is North to South
S → N: HVDC flow direction is South to North

The reactive power limits of the MVAr exchanges between the HVDC terminals (WATL and EATL) and the connected alternating current (AC) transmission systems are shown in Table 4-11. These limits must be maintained when performing the studies.

Table 4-11: HVDC to Adjacent AC System MVAr Exchange Limits

HVDC Facility	North Terminal Reactive Power Limit (MVAr)	South Terminal Reactive Power Limit (MVAr)
EATL	-85 to 75	-35 to 35
WATL	-75 to 75	-35 to 35

4.2.7 Transmission Facility Ratings

The legal owner of transmission facilities TFO provided the thermal ratings assumptions for the existing transmission lines in the Study Area. Table 4-12 shows the normal ratings and emergency ratings for the key transmission lines in the Study Area, which will be used to perform the engineering studies.

Table 4-12: Thermal Rating Assumptions for Key Transmission Lines in the Study Area

Line ID	Line Description	Voltage Class (kV)	Summer Normal Rating (MVA)	Summer Emergency Rating (MVA)
924L	Milo 356S - Langdon 102S	240	547	656
927L	Milo 356S - Langdon 102S	240	576	691
876L	Blackie 253S-Gleichen 179S	138	110	121
161L	Vulcan 255S - Queenstown 504S	138	117	129
733L	Gleichen 179S-Namaka 428S	138	112 TD-L	123
733L	Namaka 428S-Strathmore 151S	138	120	132
851L	Blackie 253S-Carseland 525S	138	85	94
1042L	Travers 554S - Blackspring Ridge 485S	240	488	586
935L	Milo 356S - Cassils 324S	240	547	656
923L	Milo 356S - Newell 2075S	240	547	656
727L	High River 65S-Magcan 142S	138	119	131
727AL	Magcan 142S-Okotoks 678S	138	94 TD-L	103 TD-L
434L	Foothills 237S-High River 65S	138	279	307
180L	Vulcan 255S - East Stavely 928S	138	118	130
892L	Suffield 895S - Bowmanton 244S	138	80	88
814L	Brooks 121S - West Brooks 28S	138	167M	184M
1087L	Cassils 324S - Newell 2075S	240	547	656
197L	East Stavely 928S to Stavely 349S	138	112M	124M
666L	West Brooks 28 S - Tilley 498S	138	120CT	133
1053L	Cassils 324S - Ware Junction 132S	240	831CT	1047M
931L	West Brooks 28S - Ware Junction 132S	240	592	654M

Line ID	Line Description	Voltage Class (kV)	Summer Normal Rating (MVA)	Summer Emergency Rating (MVA)
1075L	West Brooks 28S - Ware Junction 132S	240	592	654M
850 L	Okotoks 678S- Carseland 525S	138	89	98
691 L	CHESTERMERE 419S- Janet 74S	138	85	94
646L	Okotoks 678S- Foothills 237S	138	280	308
753L	HIGH RIVER 65S - Blackie 253S	138	121	133
765L	Chestermere 419S-Strathmore 151S	138	85	94
936L	EAST CALGARY- Langdon 102S	240	487	584
937L	EAST CALGARY- Langdon 102S	240	487	584
985L	Janet 74S - (ENMAX #25 SUB)	240	973	1017
1003L	Janet 74S - (ENMAX #25 SUB)	240	973	1017
1064L	Langdon 102S- Janet 74S	240	974	1039
1065L	Langdon 102S- Janet 74S	240	974	1169
1106L	Foothills 237S- (ENMAX #65 SUB)	240	971	1071
1107L	Foothills 237S - (ENMAX #65 SUB)	240	971	1071

Note:
"CT" indicates that the transmission line is limited by current transformer.

"L" indicates that the transmission line rating is limited by the line

"M" indicates that the transmission line rating is limited for reasons other than protection equipment, transformer, current transformer, line, ganged switch, circuit breaker, or regulator.

"TD-L" temporarily derated

The TFO provided the details of the substation transformers in the Study Area. The key transformers in the Study Area are shown in Table 4-13.

Table 4-13: Summary of Key Transformer Ratings in the Study Area

Substation Name and Number	Transformer ID	Transformer Voltages (kV)	Transformer Rating (MVA)
Janet 74S	T1	240/138	341.8
Janet 74S	T2	240/138	341.8
Foothills 237S	T1	240/138	400
Foothills 237S	T2	240/138	400
East Calgary 5S	T1	240/138	400
East Calgary 5S	T2	240/138	400
WEST BROOK 28S	T1	240/138	400
WEST BROOK 28S	T2	240/138	400

The TFO provided the details of the shunt elements in the Study Area. The key shunt elements in the Study Area are shown in Table 4-14.

Table 4-14: Summary of Key Shunt Elements in the Study Area

Substation Name and Number	Voltage Class (kV)	Capacitors		Reactors	
		Number of Switched Shunt Blocks	Total at Nominal Voltage (MVAr)	Number of Switched Shunt Blocks	Total at Nominal Voltage (MVAr)
Strathmore 151S	138	1	24.46		
Hussar 431S	138	1	9.17		
Blackie 253S	138	1	24.46		
Magcan 142S	138	1	24.46		
Enmax #2 SUB	138	2	160		
Janet 74S	240	2	268.8		
Janet 74S	138	2	146.74		
West Brooks 28S	240			1	50
Tilley 498S	138	1	27.17		
Langdon 102S	240	SVC (Continous)	2x(108.14 to -148.1)		
Sarcee 42S	240	2	201.6		
Sarcee 42S	138	1	48.92		

4.2.8 Protection Fault Clearing Times

The transient stability studies will be performed using the actual fault clearing times for the selected contingencies, as provided by the TFO and as shown in Table 4-15. Only those contingencies shown in Table 4-15 will be studied for transient stability studies. If the TFO did not specify the fault clearing times (e.g. for new transmission lines) for a selected contingency, then the studies for that contingency will be performed using the standard fault clearing times that are specified in Table 2-3 of the AESO's *Transmission Planning Criteria – Basis and Assumptions*.

Table 4-15: Protection Fault Clearing Times

Contingency (System Element Lost)	Fault Location	Clearing Times (Cycles)	
		Near End	Far End
924L (Milo 356S - Langdon 102S)	Langdon 102S	5.5	6.5
924L (Langdon 102S - Milo 356S)	Milo 356S	5.5	6.5
927L (Milo 356S - Langdon 102S)	Langdon 102S	5.5	6.5
927L (Langdon 102S - Milo 356S)	Milo 356S	5.5	6.5
1005L (Milo 356S- Picture Butte 120S)	Milo 356S	5	6
1036L (Milo 356S – Travers 554S)	Milo 356S	5	6
923L (Milo 356S and Newell 2075S)	Milo 356S	5	6
935L (Milo 356S – Cassils 324S)	Milo 356S	5	6
1036L (Milo 356S – Travers 554S)	Travers 554S	5	6
923L (Milo 356S and Newell 2075S)	Newell 2075S	5	6
1005L (Milo 356S- Picture Butte 120S)	Picture Butte 120S	5	6
935L (Milo 356S – Cassils 324S)	Cassils 324S	5	6
935L (Milo 356S – Cassils 324S)	Milo 356S	5	6
1064L (Langdon 102S- Janet 74S)	Langdon 102S	5	6
1065L (Langdon 102S- Janet 74S)	Langdon 102S	5	6
936L (East Calgary 5S- Langdon 102S)	Langdon 102S	5	6
937L (East Calgary 5S- Langdon 102S)	Langdon 102S	5	6

4.2.9 Project Dynamic Data

Dynamic data for the Project can be found in Attachment A7.

4.2.10 Voltage Profile Assumption

ID #2010-007RS will be used to establish system normal (i.e., pre-contingency) voltage profiles for key area busses prior to commencing any studies. Table 2-1 of the *Transmission Planning Criteria – Basis and Assumptions* applies for the busses not included in ID #2010-007RS. These voltages will be used to set the voltage profile for the study base cases prior to the power flow studies.

5 Study Methodology

The studies to be performed for this connection assessment are identified in Table 5-1.

Table 5-1: Summary of the Studies to be Performed

Scenario No. and Name		Power Flow		Voltage Stability		Transient Stability		Motor Starting		Short Circuit
		Category		Category		Category		Category		Category A
		A	B	A	B	A	B	A	B	
Pre-Project										
1	2023 SP Pre-Project	X	X			X*	X*			
2	2023 SL Pre-Project	X	X			X*	X*			X
Post-Project										
3	2023 SP Post-Project	X	X			X	X			
4	2023 SL Post-Project	X	X			X	X			X
5	2031 WP Post-Project									X
Pre-Project Sensitivity										
6	2023 SP Sensitivity Pre-Project	X	X			X*	X*			
7	2023 SL Sensitivity Pre-Project	X	X			X*	X*			
Post-Project Sensitivity										
8	2023 SP Sensitivity Post-Project	X	X			X	X			
9	2023 SL Sensitivity Post-Project	X	X			X	X			

*Only required if post-Project studies show potential transient stability issues

For the engineering studies, all transmission facilities 69 kV and above, within the Study Area and the transmission lines connecting these planning areas to neighboring planning areas will be studied and monitored to assess the impact of the Project on the performance of the AIES, including any violations of the Reliability Criteria (as defined in Section 3.1).

5.1 Power Flow Studies

Power flow studies will be performed to identify thermal and voltage criteria violations as per the Reliability Criteria, and any deviations from the limits listed in Table 3-1.

For information purposes, the Studies Consultant must also provide, as a separate file, a list of any transmission elements where the thermal loading exceeds 95% of the element's normal rating under Category A and Category B conditions.

For the Category B power flow studies, the transformer taps and switched shunt reactive compensating devices such as shunt capacitors and reactors will be locked and continuous shunt devices will be enabled.

Voltage deviations at point-of-delivery (POD) low voltage busses will also be assessed for both the pre-Project and post-Project networks by first locking all tap changers and area shunt reactive compensating devices to identify any post-transient voltage deviations above 10%. Second, tap changers will be allowed to move while shunt reactive compensating devices remained locked to determine if any voltage deviations above 7% would occur in the area. Third, all the taps and shunt reactive compensating devices will be allowed to adjust, and voltage deviations above 5% will be reported.

The scenarios to be studied are shown in Table 5-1.

5.1.1 Contingencies to be Studied

Power flow studies will be performed for the Category A and all Category B in the Study Area. EATL and WATL outage will be carried out as well.

5.2 Transient Stability Studies

The Genesee generating unit 3 in Wabamun (Area 40) will be used as the reference for the studies.

The report presenting the results of the transient stability studies must provide response plots for several variables, including rotor angle, and active and reactive power output for the study area generating units. The results report must also provide the 500 kV, 240 kV and 138 kV bus voltage levels for substations near the point of connection. Other busses will be monitored and will be reported as determined by the results. The results report must also provide the key branch active and reactive power flow surrounding the Facility.

Transient stability studies will be performed for the post-Project scenarios as shown in Table 5-1. If any transient stability issues are observed, transient stability analysis will be performed for the corresponding pre-Project scenarios.

5.2.1 Contingencies to be Studied

Transient stability studies will be performed for the contingencies shown in Table 4-15

5.3 Short-Circuit Current Level Studies

A maximum fault level must be provided for the substations in the vicinity of the Project assuming normal system operation with all transmission elements in service and generation dispatched. Three-phase faults and single line-to-ground faults will be simulated. Polar coordinates and per-unit values will be used for reporting the results.

Winter peak scenarios will be used for the short-circuit studies because winter peak scenarios generally produce higher short-circuit current levels than summer peak scenarios.

Estimated maximum three-phase faults and single line-to-ground short-circuit current levels will be reported for the following substations:

- The proposed collector substation of the Facility (P2378)

- Milo 356S
- Langdon 102S
- Cassils 324S
- Newell 2075S
- Picture Buttle 120S
- Travers 554S
- Janet 74S
- East Calgary 5S

Further sensitivity studies, in consultation with the TFO, may be required if the primary short-circuit analysis indicates a potential to exceed or approach the existing fault rating of the transmission facilities.

The scenarios to be studied are as shown in Table 5-1.

6 Mitigation Measures

6.1 Development

Mitigation measures may be required if the post-Project study results identify system performance issues. Mitigation measures for the Project may involve modifying or adding real-time operational practices and/or remedial action schemes (RASs).

The Studies Consultant must notify the AESO of any system performance issues in a timely manner, following which the AESO Studies Engineer may instruct the Studies Consultant as follows:

- Develop tables showing the constraint effective factors[2] for generation or load based on thermal criteria violations that are observed.
- Collaborate with the AESO to propose changes, if any, to the connection alternatives that could remove the requirement for a RAS.
- Collaborate with the AESO to study modifications to existing and/or planned RASs, proposed by the AESO, to ensure the coordination of existing protection schemes with the addition of any proposed protection schemes.
- Collaborate with the AESO to identify and study new RASs, if any, that may be required to ensure system reliability is maintained after connecting the Project to the AIES.

The AESO Studies Engineer will work closely with the Studies Consultant and guide the development and/or modifications of the proposed mitigation measures to ensure system reliability, security and compliance with AESO ID #2018-018T, *Provision of System Access Service and the Connection Process*.

6.2 Evaluation

6.2.1 Post-Mitigation Studies

Studies to evaluate the effectiveness of mitigation measures, if required, will be performed in accordance with the technical criteria, assumptions, and methods provided in this Study Scope and in accordance with further instructions from the AESO.

6.2.2 Constraint Effective Factor Studies

Constraint effective factor analysis are used to determine the generator- and load- constraint effective factors and to identify the most effective generators or loads to manage the thermal criteria violations, if any, that are observed under Category B conditions.

[2] Constraint effective factor studies are performed to determine the generator- and load- constraint effective factors. Constraint effective factors are used to estimate the ability of generators and loads to manage transmission constraints. A generator's or load's constraint effective factor is defined as the change in power flow over a specific transmission line following a change in the generator's energy production or in the load's energy consumption. The greater the constraint effective factor, the more effective a generator or load can be in managing a thermal criteria violation on the specific transmission line.

7 Changes to Study Assumptions

This study will utilize the AESO's planning base cases, which are based on the AESO's current corporate forecast (2021 LTO) with modifications to incorporate the latest forecast intelligence. Sensitivity studies or restudy may be required in the event of revisions to the AESO's corporate forecast, forecast intelligence, or other study assumptions. Additional engineering studies may also be required to assess new connection alternatives, changes to project ISD, or delays in proposed system developments. Any additional or revised study requirements shall be captured in a signed Study Scope Amendment document.

Attachment A: Transmission Planning Criteria – Basis and Assumptions

Transmission Planning Criteria – Basis and Assumptions

Date: July 9, 2019

Version: V1.2

Alberta Electric System Operator

Calgary Place, 2500, 330-5th Avenue SW Calgary, AB T2P 0L4

Phone: 403-539-2450 | Fax: 403-539-2949

www.aeso.ca

@theaeso

1. Introduction

This document presents the reliability standards, criteria, and assumptions to be used as the basis for planning the Alberta Transmission System. The criteria, standards and assumptions identified in this document supersede those previously established.

2. Transmission Reliability Standards and Criteria[1]

The AESO applies the following Alberta Reliability Standards to ensure that the transmission system is planned to meet applicable performance requirements under a defined set of system conditions and contingencies. A brief description of each of these standards is given below:

1. **TPL-001-AB-0: System Performance Under Normal Conditions**

   Category A represents a normal system condition with all elements in service (N-0). All equipment must be within its applicable rating, voltages must be within their applicable ratings and the system must be stable with no cascading outages. Under Category A, electric supply to load cannot be interrupted and generating units cannot be removed from service.

2. **TPL-002-AB1-0: System Performance Following Loss of a Single BES Element**

   Category B events result in the loss of any single element (N-1) under specified fault conditions with normal clearing. The specified elements are a generating unit, a transmission circuit, a transformer or a single pole of a direct current transmission line. The acceptable impact on the system is the same as Category A with the exception that radial customers or some local network customers, including loads or generating units, are allowed to be disconnected from the system if they are connected through the faulted element. The loss of opportunity load or opportunity interchanges is allowed. No cascading can occur.

3. **TPL-003-AB-0: System Performance Following Loss of Two or More BES Elements**

   Category C events result in the loss of two or more bulk electric system elements (sequential, N-1-1 or concurrent, N-2) under specified fault conditions and include both normal and delayed fault clearing. All of the system limits for Category A and B events apply with the exception that planned and controlled loss of firm load, firm transfers and/or generation is acceptable provided there is no cascading.

4. **TPL-004-AB-0: System Performance Following Extreme BES Events**

   Category D represents a wide variety of extreme, rare and unpredictable events, which may result in the loss of load and generation in widespread areas. The system may not be able to reach a new stable steady state, which means a blackout is a possible outcome. The AESO needs to evaluate these events, at its discretion, for risks and consequences prior to creating mitigation plans.

5. **FAC-014-AB1-2: Establishing and Communicating System Operating Limits**

   The AESO is required to establish system operating limits where a contingency is not mitigated through construction of transmission facilities

[1] A complete description of the *Alberta Reliability Standards* can be found on the AESO's website: https://www.aeso.ca/rules-standards-and-tariff/alberta-reliability-standards/

2.1 Thermal Loading Criteria

The AESO Thermal Loading Criteria require that the continuous thermal rating of any transmission element is not exceeded under normal and post-contingency operating conditions. Thermal limits are assumed to be 100% of the respective normal summer and winter ratings. Emergency limits are not considered in the planning evaluations.

2.2 Voltage Range and Voltage Stability Criteria

The normal minimum and maximum voltage limits as specified in the following table are used to identify Category A system voltage violations, while the extreme minimum and maximum limits are used to identify Category B and C system violations. Table 2-1 presents the acceptable steady state and contingency state voltage ranges for the AIES. Table 2-2 provides voltage stability criteria used to test the system performance.

Table 2-1: Acceptable Range of Steady State Voltage (kV)

Nominal Voltage	Extreme Minimum	Normal Minimum	Normal Maximum	Extreme Maximum
500	475	500	525	550
240	216	234	252	264
260 (Northeast & Northwest)*	234	247	266	275
144	130	137	151	155
138	124	135	145	152
72	65	68.5	75.5	79
69	62	65.5	72.5	76

Table 2-2: Voltage Stability Criteria

Performance Level	Disturbance (1)(2)(3)(4) Initiated by: Fault of No Fault DC Disturbance	MW Margin (P-V method) (5)(6)(7)	MVAr Margin (V-Q method) (6)(7)
A	Any element such as: One Generator One Circuit One Transformer One Reactive Power Source One DC Monopole	≥5%	Worst Case Scenario(8)
B	Bus Section	≥5%	50% of Margin Requirement in Level A
C	Any combination of two elements such as: A Line and a Generator A Line and a Reactive Power Source Two Generators Two Circuits Two Transformers Two Reactive Power Sources DC Bipole	≥2.5%	50% of Margin Requirement in Level A
D	Any combination of three or more elements such as: Three or More Circuits on ROW Entire Substation Entire Plant Including Switchyard	> 0	> 0

2.3 Transient Stability Analysis Assumptions

Standard fault clearing times as shown in Table 2-3 are used for the new facilities or when the actual clearing times are not available for the existing facilities. Double line-to-ground faults are applied for the Category C5 events with normal clearing times. Single line-to-ground faults are applied for Category C6 to C9 events with delayed clearing times as depicted in Table 2-4 and Table 2-5.

Table 2-3: Fault Clearing Times

Nominal (kV)	Near End (Cycles)	Far End (Cycles)
500	4	5
240	5	6
144/138 with telecommunications	6	8
144/138 without telecommunications	6	30

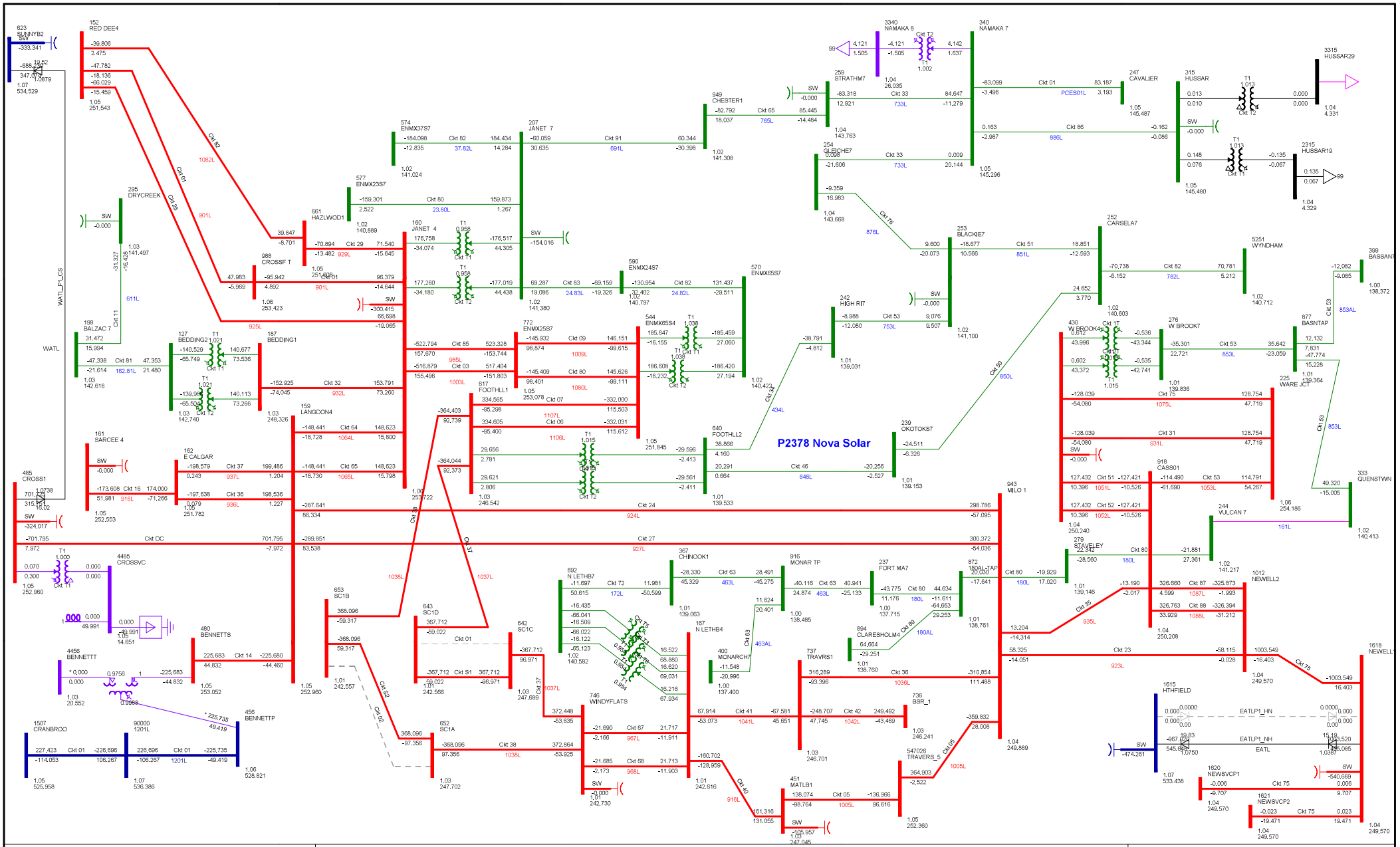
Table 2-4: Stuck Breaker Clearing Times for Lines

Voltage (kV)	Fault Clearing Times (Cycles)		
	Near End	Far End	2nd Ckt (C5 and C7 only)
138/144	15	24	24
240	12	6	14
500	9	5	11

Table 2-5: Stuck Breaker Clearing Times for Transformers

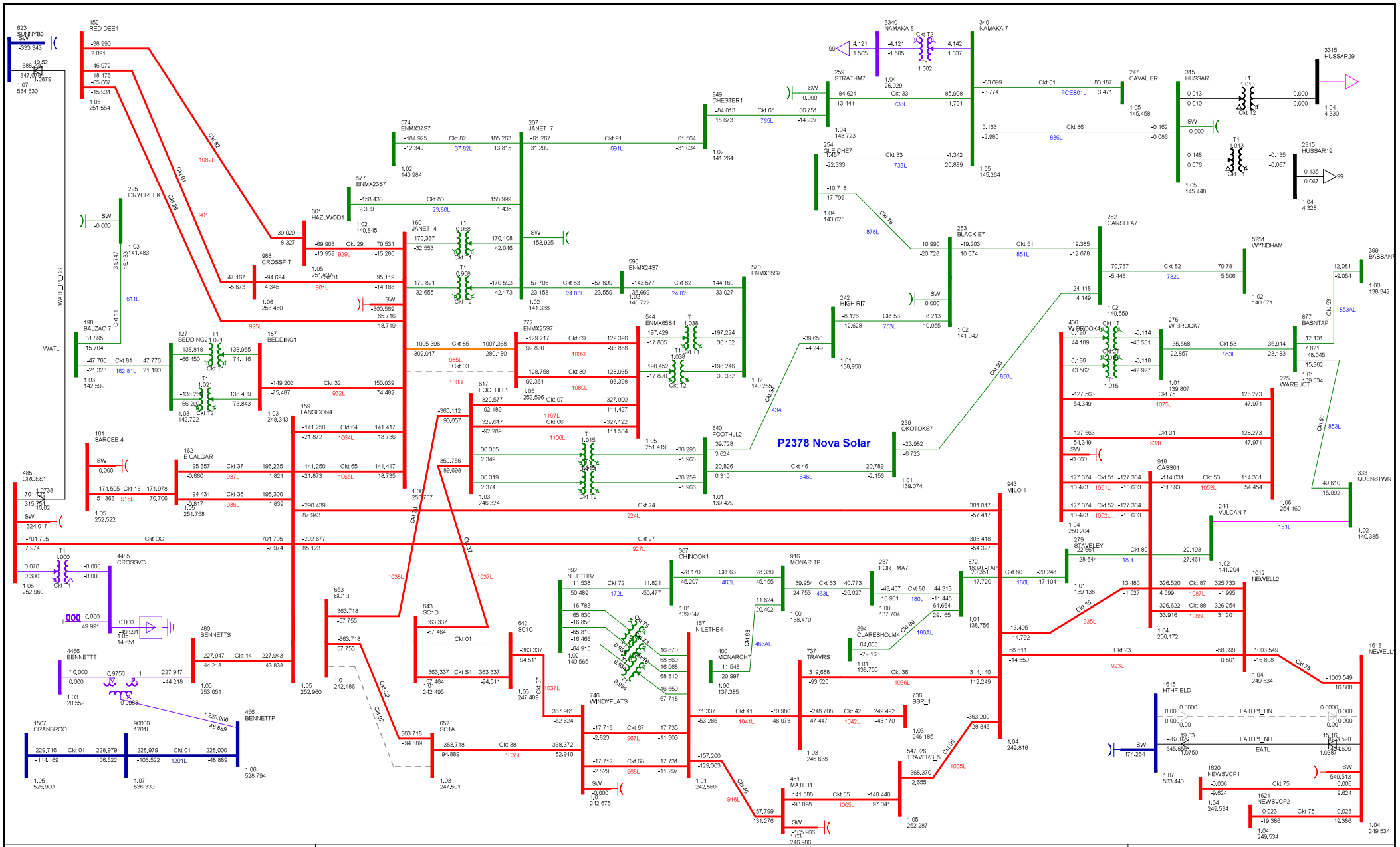
Voltage (kV)	Fault Location	Fault Clearing Times (Cycles)		
		High Side	Low Side	2nd Ckt (breaker fail)
240/138	240 kV side	12	6	14
	138 kV side	5	15	24
500/240	500 kV side	9	5	11
	240 kV side	4	12	14

Attachment A2
Pre-Project Power Flow Diagrams



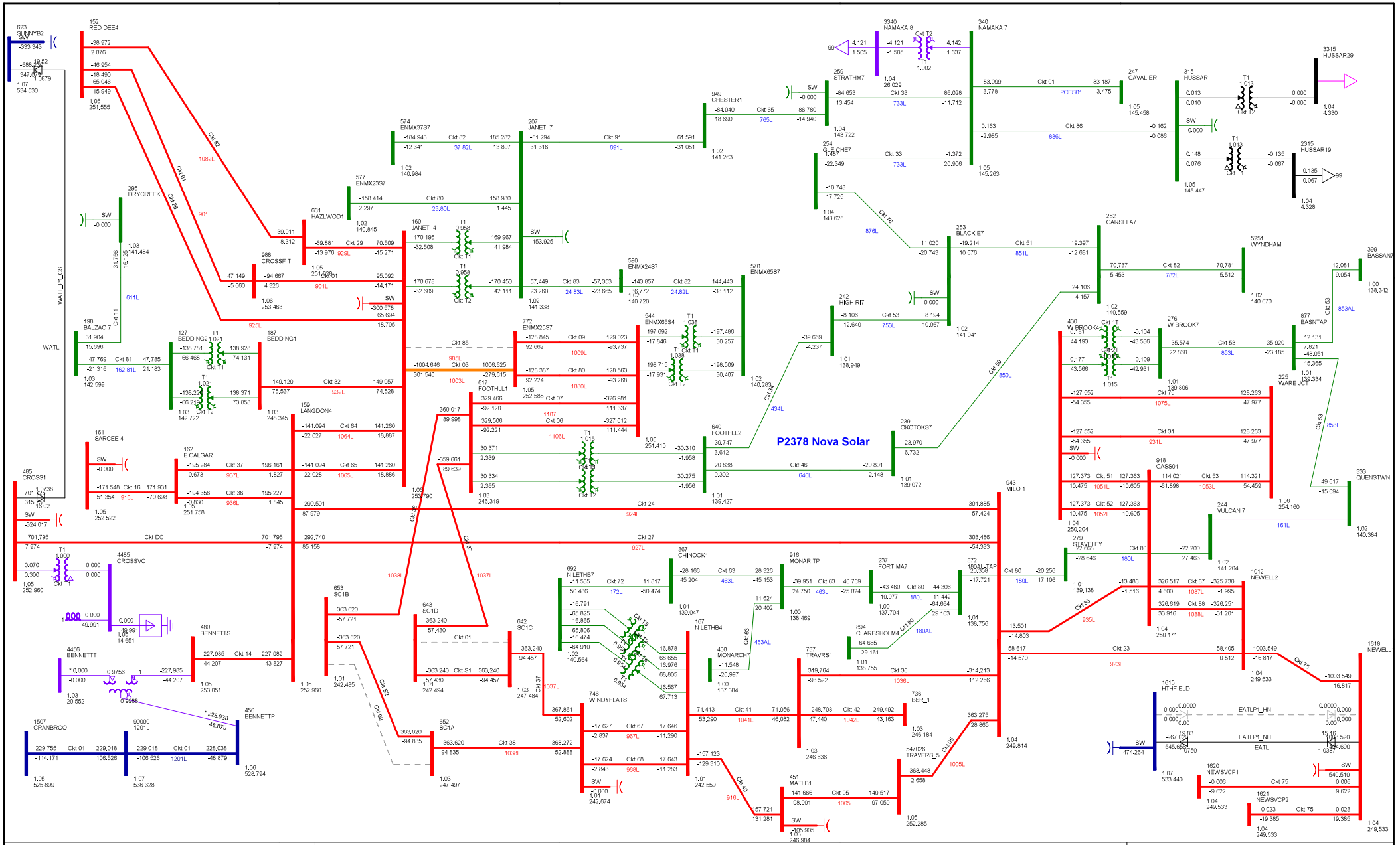
P2378 Nova Solar Project Connection

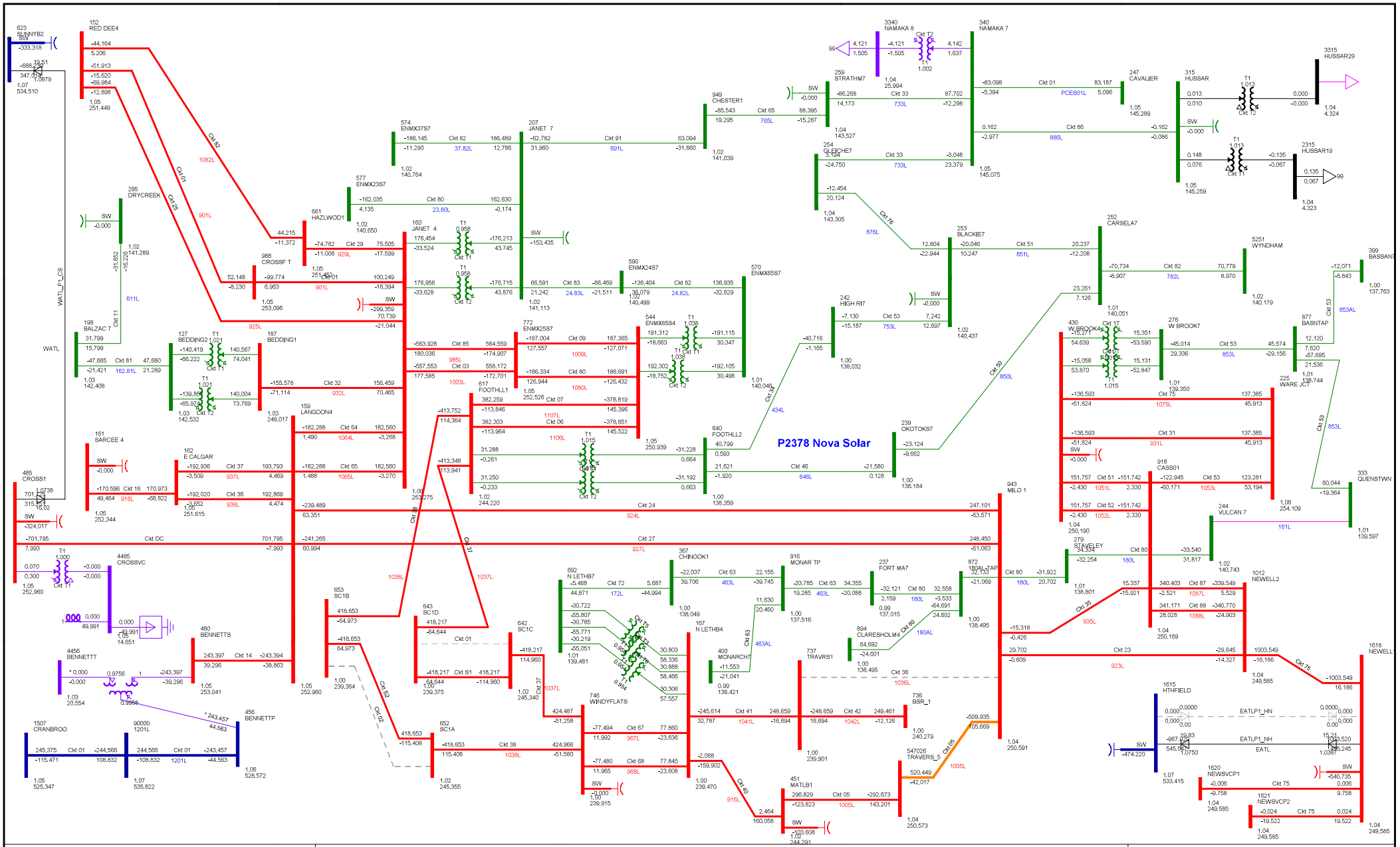
FIGURE A2.1-1-N-0: NORMAL OPERATION
2023 SUMMER PEAK (PRE-CONNECTION)
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

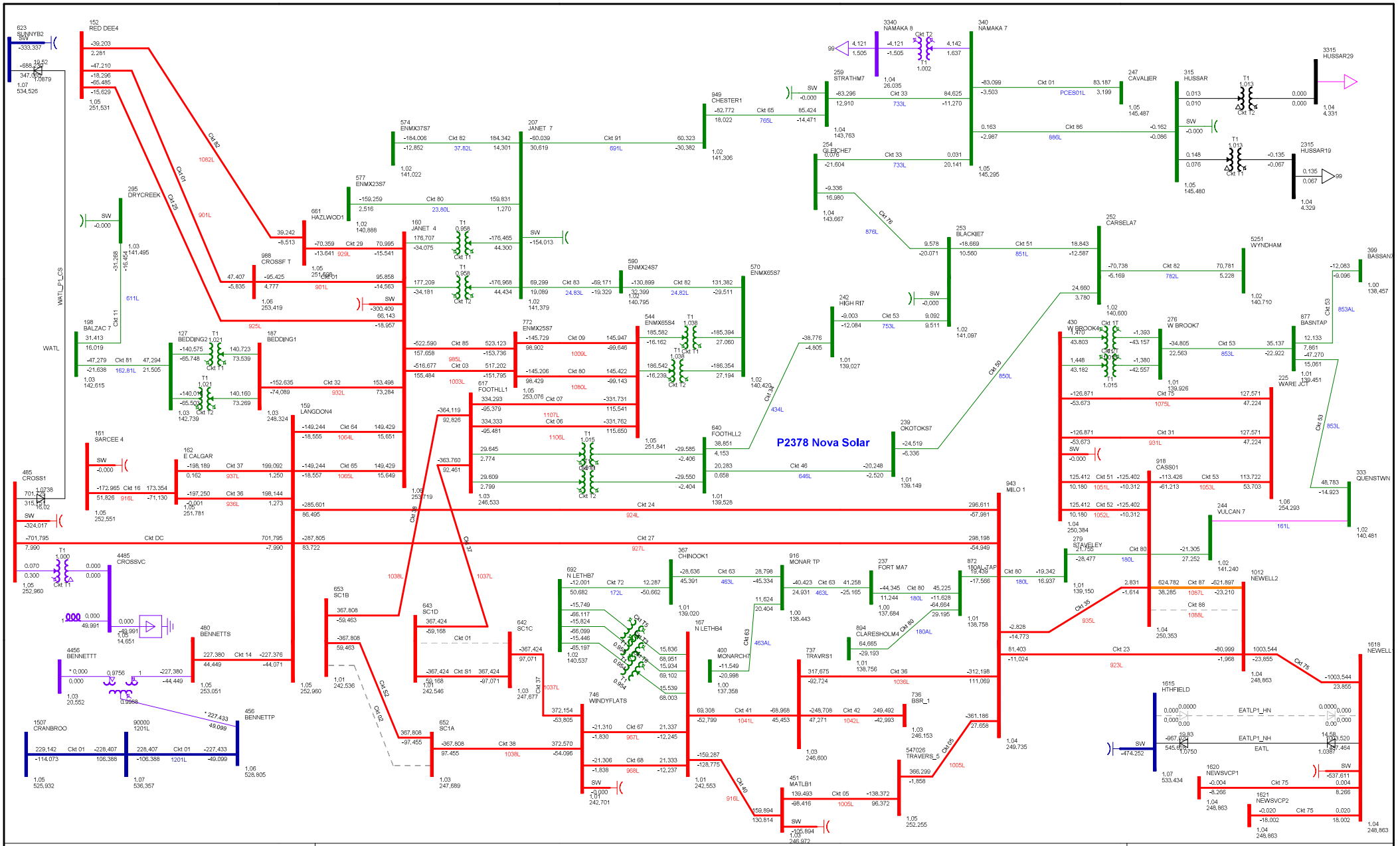
FIGURE A2.1-2 N-1: 1003L (JANET 74S TO ENMAX 25)
2023 SUMMER PEAK (PRE-CONNECTION)
PRINTED ON SATURDAY 21. MAY 2022


P2378 Nova Solar
WATL_P_LCS
WATL
623 SUNNYB2 SW -333.343
152 RED DEE4
295 DRYCREEK
198 BALZAC 7
988 CROSSF T
661 HAZLWOD1
577 ENMX23S7
574 ENMX37S7
160 JANET 4
207 JANET 7
949 CHESTER1
3340 NAMAKA 8
340 NAMAKA 7
259 STRATHM7
254 GLEICHE7
3315 HUSSAR29
315 HUSSAR
2315 HUSSAR19
247 CAVALIER
252 CARSELA7
253 BLACKIE7
242 HIGH RI7
590 ENMX24S7
570 ENMX65S7
544 ENMX65S4
772 ENMX25S7
617 FOOTHLL1
640 FOOTHLL2
239 OKOTOKS7
5251 WYNDHAM
399 BASSAN7
877 BASNTAP
276 W BROOK7
430 W BROOK4
225 WARE JCT
127 BEDDING2
187 BEDDING1
159 LANGDON4
161 SARCEE 4
162 E CALGAR
485 CROSS1
4485 CROSSVC
480 BENNETTS
4456 BENNETTT
1507 CRANBROO
90000 1201L
456 BENNETTP
653 SC1B
643 SC1D
642 SC1C
652 SC1A
692 N LETHB7
367 CHINOOK1
167 N LETHB4
916 MONAR TP
400 MONARCH7
746 WINDYFLATS
237 FORT MA7
894 CLARESHOLM4
737 TRAVRS1
736 BSR_1
547026 TRAVERS_5
451 MATLB1
872 180AL_TAP
943 MILO 1
279 STAVELEY
244 VULCAN 7
918 CASS01
333 QUENSTWN
1618 NEWELL
1012 NEWELL2
1615 HTHFIELD
1620 NEWSVCP1
1621 NEWSVCP2
EATLP1_HN
EATLP1_NH
EATL
611L
901L
1082L
925L
1038L
1037L
985L
1003L
1009L
1080L
1107L
1106L
1064L
1065L
936L
937L
916L
924L
927L
1041L
1042L
967L
968L
1005L
876L
850L
434L
463AL
180AL
853AL
1051L
1052L
1053L
1087L
1088L
1036L
923L
935L
1075L
782L
851L
733L
886L
753L
646L
1038L
Ckt 82
Ckt 01
Ckt 25
Ckt 11
Ckt 85
Ckt 03
Ckt 09
Ckt 06
Ckt 07
Ckt 24
Ckt 27
Ckt DC
Ckt 39
Ckt 37
Ckt 52
Ckt 92
Ckt 38
Ckt 40
Ckt 05
Ckt 30
Ckt 34
Ckt 76
Ckt 53
Ckt 63
Ckt 75
Ckt 35
Ckt 23
Ckt 36
Ckt 41
Ckt 42
Ckt 67
Ckt 68
Ckt 72
Ckt 73
Ckt 74
Ckt 80
Ckt 87
Ckt 88
Ckt 51
Ckt 52
Ckt 65
Ckt 46
Ckt 14
Ckt 16
Ckt 37
Ckt 36
Ckt 32
Ckt 29
Ckt 33
Ckt 86
Ckt 1T
Ckt 2T
Ckt S1
Ckt 01
Ckt 82
Ckt 83
Ckt 91
Ckt 65
Ckt 80
Ckt 81
Ckt 63
Ckt 72
Ckt 67
Ckt 68
Ckt 38
Ckt 37
Ckt 39
Ckt 92
Ckt 52
Ckt 40
Ckt 05
Ckt 30
Ckt 34
Ckt 76
Ckt 53



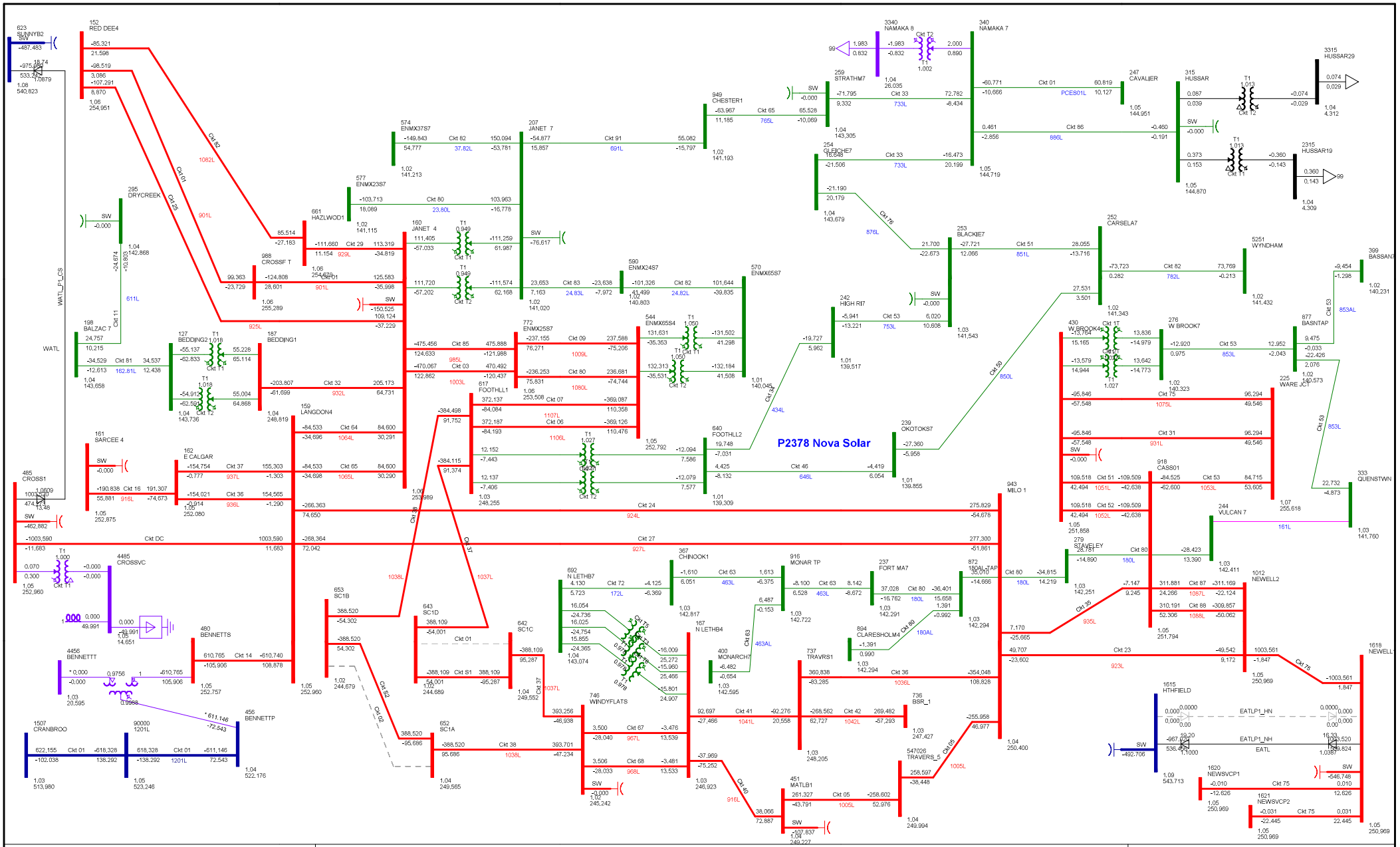
P2378 Nova Solar Project Connection

FIGURE A2.1-4 N-1: 1036L (MILO 356S TO TRAVERS 554S)
2023 SUMMER PEAK (PRE-CONNECTION)
PRINTED ON SATURDAY 21. MAY 2022



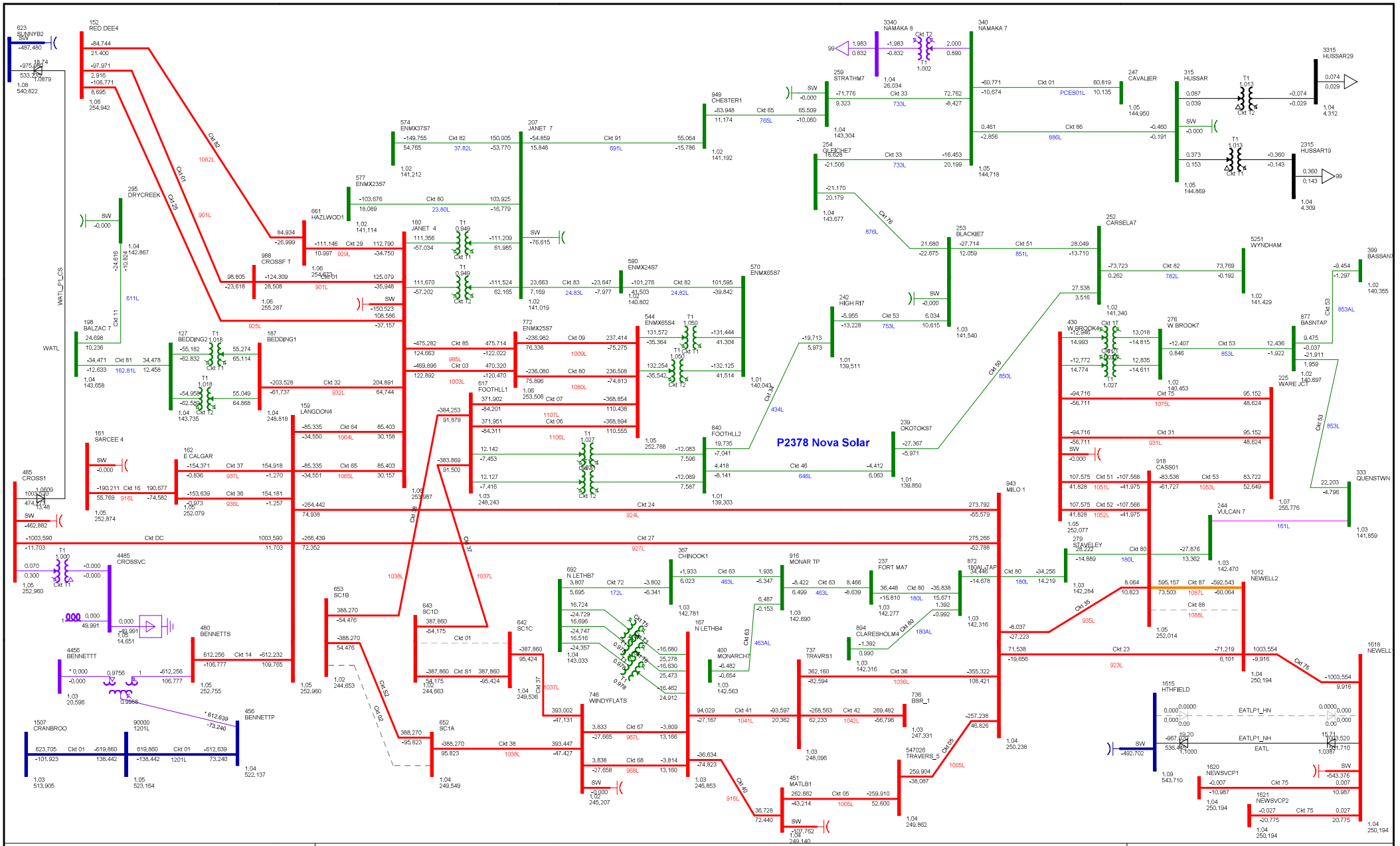
P2378 Nova Solar Project Connection

FIGURE A2.1-5 N-1: 1088L (CASSILS 324S TO NEWELL 2075S)
2023 SUMMER PEAK (PRE-CONNECTION)
PRINTED ON SATURDAY 21. MAY 2022



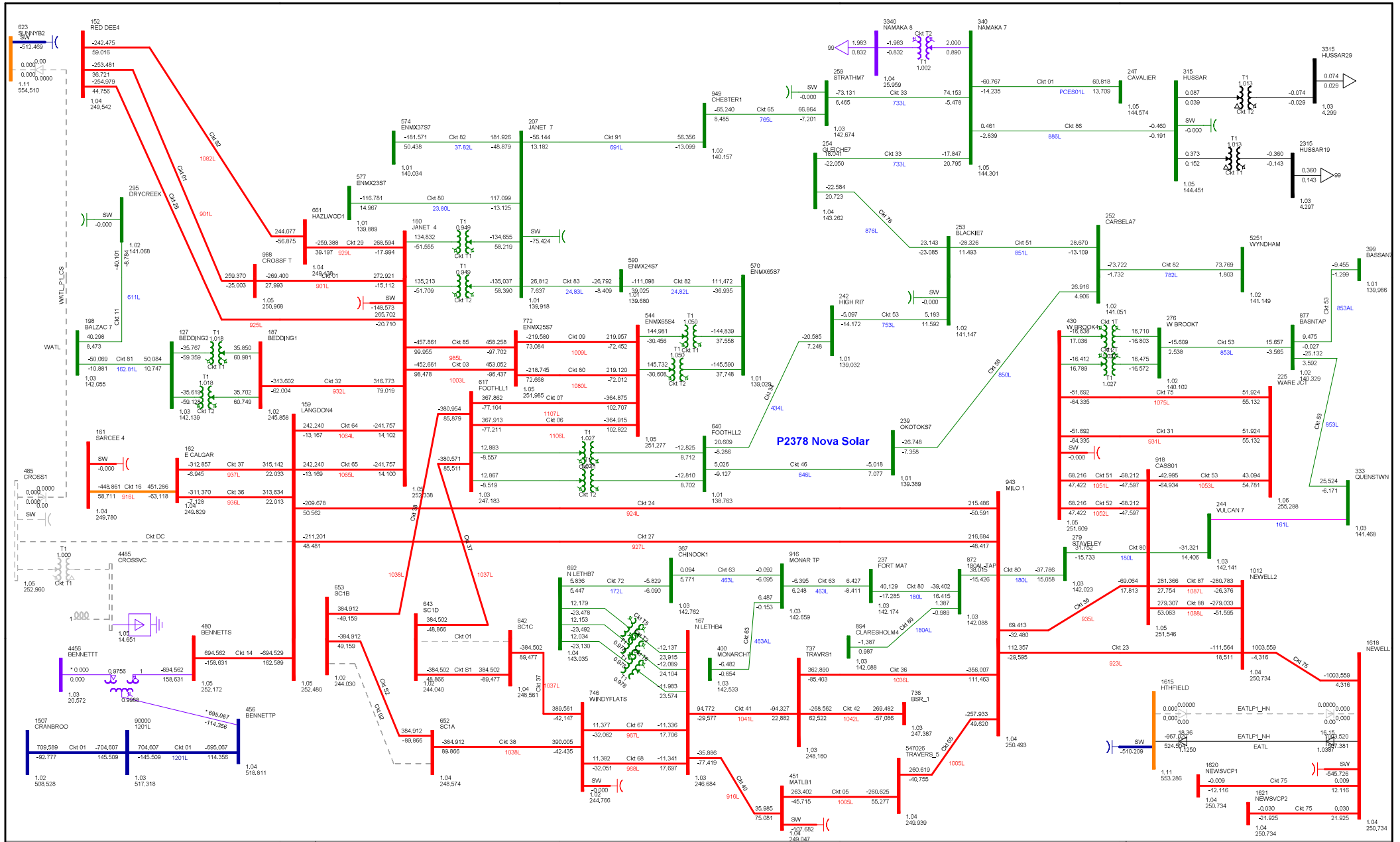
P2378 Nova Solar Project Connection

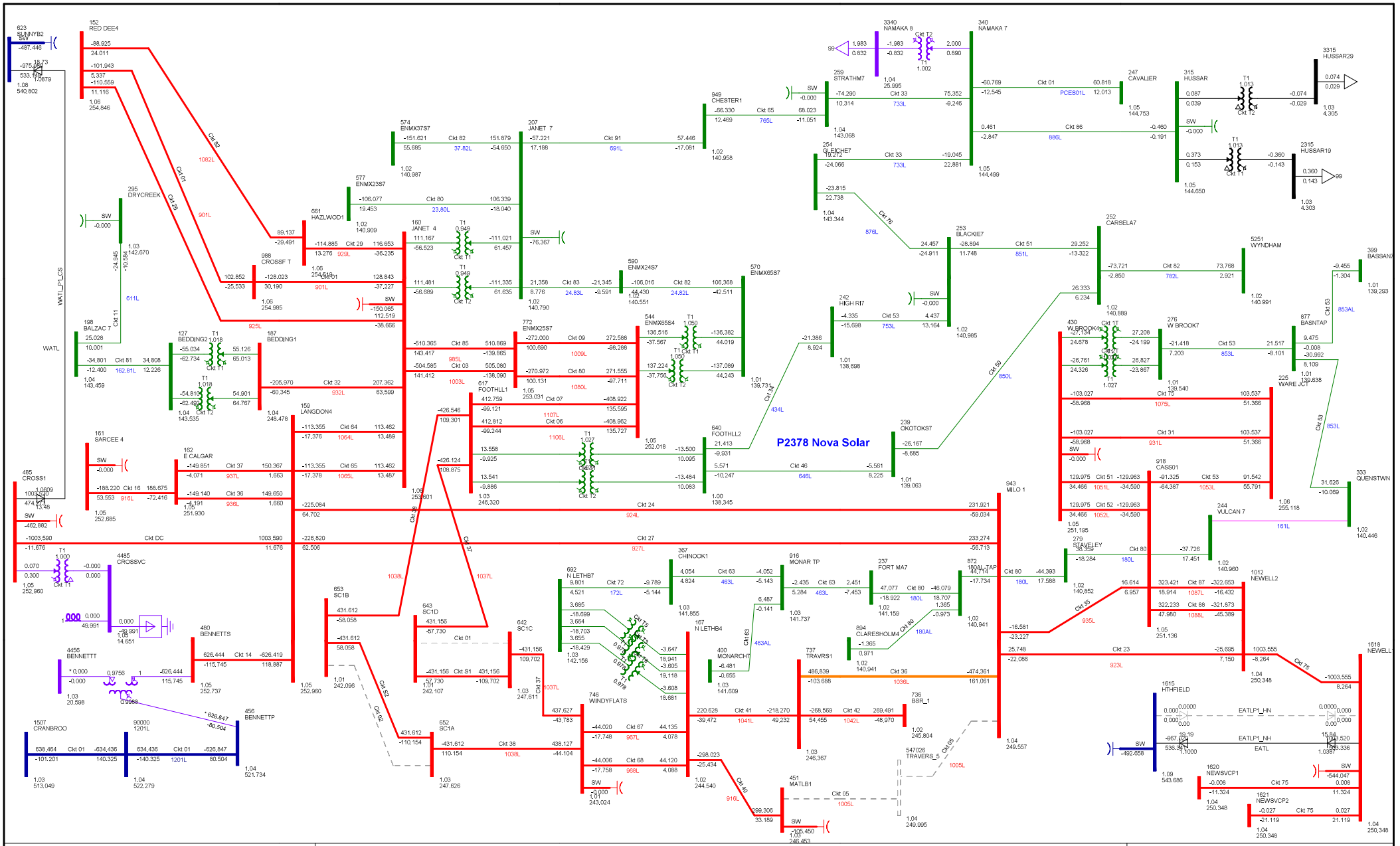
FIGURE A2.2-1-N-0: NORMAL OPERATION
2023 SUMMER LIGHT (PRE-CONNECTION)
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

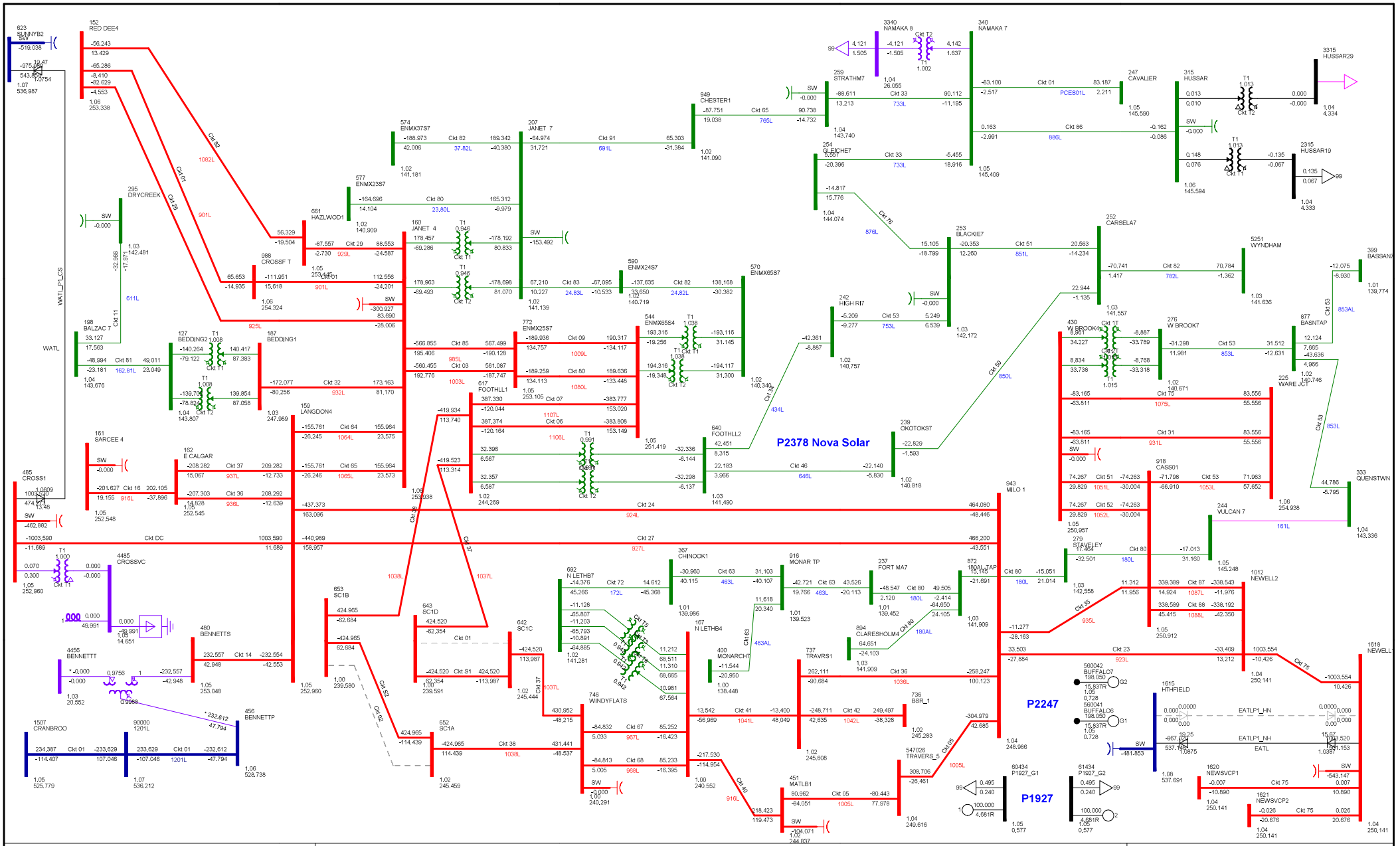
FIGURE A2.2-2 N-1: 1088L (CASSILS 324S TO NEWELL 2075S)
2023 SUMMER LIGHT (PRE-CONNECTION)
PRINTED ON SATURDAY 21. MAY 2022


P2378 Nova Solar
WATL
WATL_P1_CS
623 SUNNYB2
152 RED DEE4
295 DRYCREEK
988 CROSSF T
661 HAZLWOD1
577 ENMX23S7
574 ENMX37S7
160 JANET 4
207 JANET 7
949 CHESTER1
3340 NAMAKA 8
340 NAMAKA 7
259 STRATHM7
254 GLETCHE7
247 CAVALIER
315 HUSSAR
3315 HUSSAR29
2315 HUSSAR19
253 BLACKIE7
252 CARSELA7
242 HIGH RI7
5251 WYNDHAM
399 BASSAN7
877 BASNTAP
276 W BROOK7
430 W BROOK4
225 WARE JCT
239 OKOTOKS7
570 ENMX65S7
590 ENMX24S7
544 ENMX65S4
772 ENMX25S7
198 BALZAC 7
127 BEDDING2
187 BEDDING1
159 LANGDON4
161 SARCEE 4
162 E CALGAR
485 CROSS1
4485 CROSSVC
4456 BENNETTT
480 BENNETTS
456 BENNETTP
1507 CRANBROO
90000 1201L
617 FOOTHLL1
640 FOOTHLL2
653 SC1B
643 SC1D
642 SC1C
652 SC1A
692 N LETHB7
167 N LETHB4
367 CHINOOK1
916 MONAR TP
400 MONARCH7
237 FORT MA7
894 CLARESHOLM4
737 TRAVRS1
736 BSR_1
547026 TRAVERS_6
451 MATLB1
746 WINDYFLATS
872 180AL_TAP
943 MILO 1
279 STAVELEY
244 VULCAN 7
918 CASS01
1012 NEWELL2
1618 NEWELL
333 QUENSTWN
1615 HTHFIELD
1620 NEWSVCP1
1621 NEWSVCP2
EATLP1_HN
EATLP1_NH
EATL
P2378 Nova Solar Project Connection
FIGURE A2.2-3 N-1: WATL
2023 SUMMER LIGHT (PRE-CONNECTION)
PRINTED ON SATURDAY 21. MAY 2022



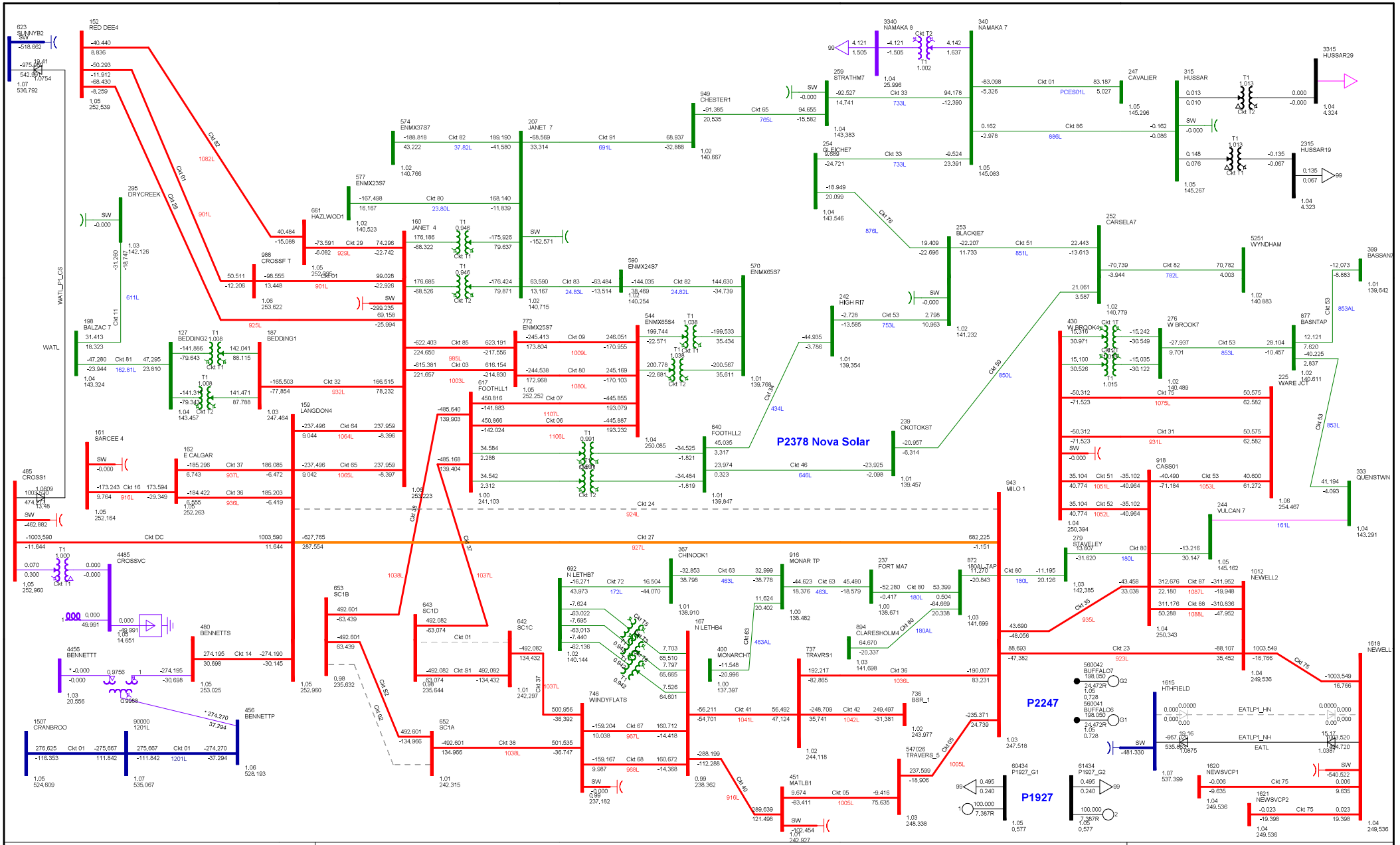
P2378 Nova Solar Project Connection

FIGURE A2.2-4 N-1: 1005L (MILO 356S TO PICTURE BUTTE 120S)
2023 SUMMER LIGHT (PRE-CONNECTION)
PRINTED ON SATURDAY 21. MAY 2022



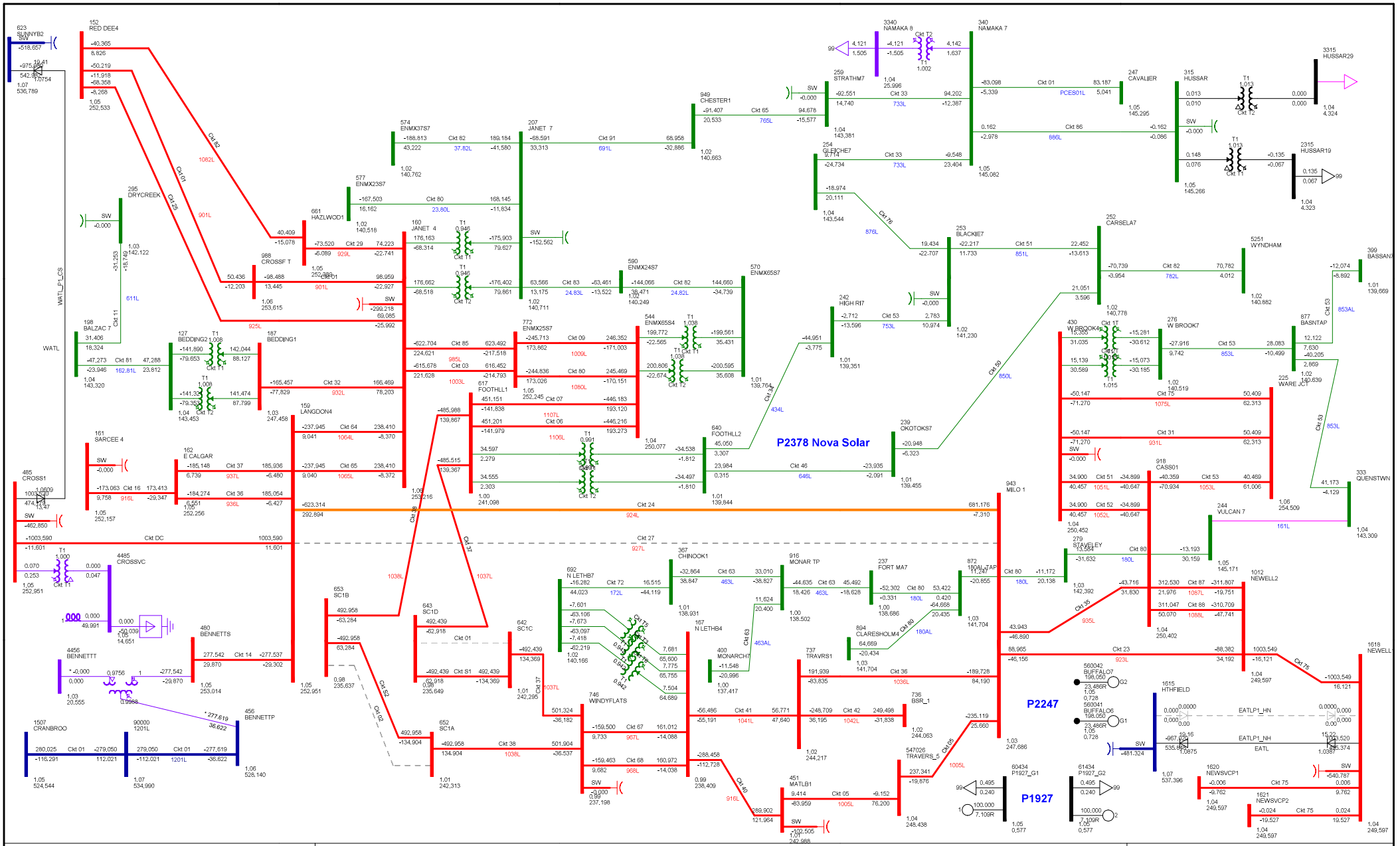
P2378 Nova Solar Project Connection

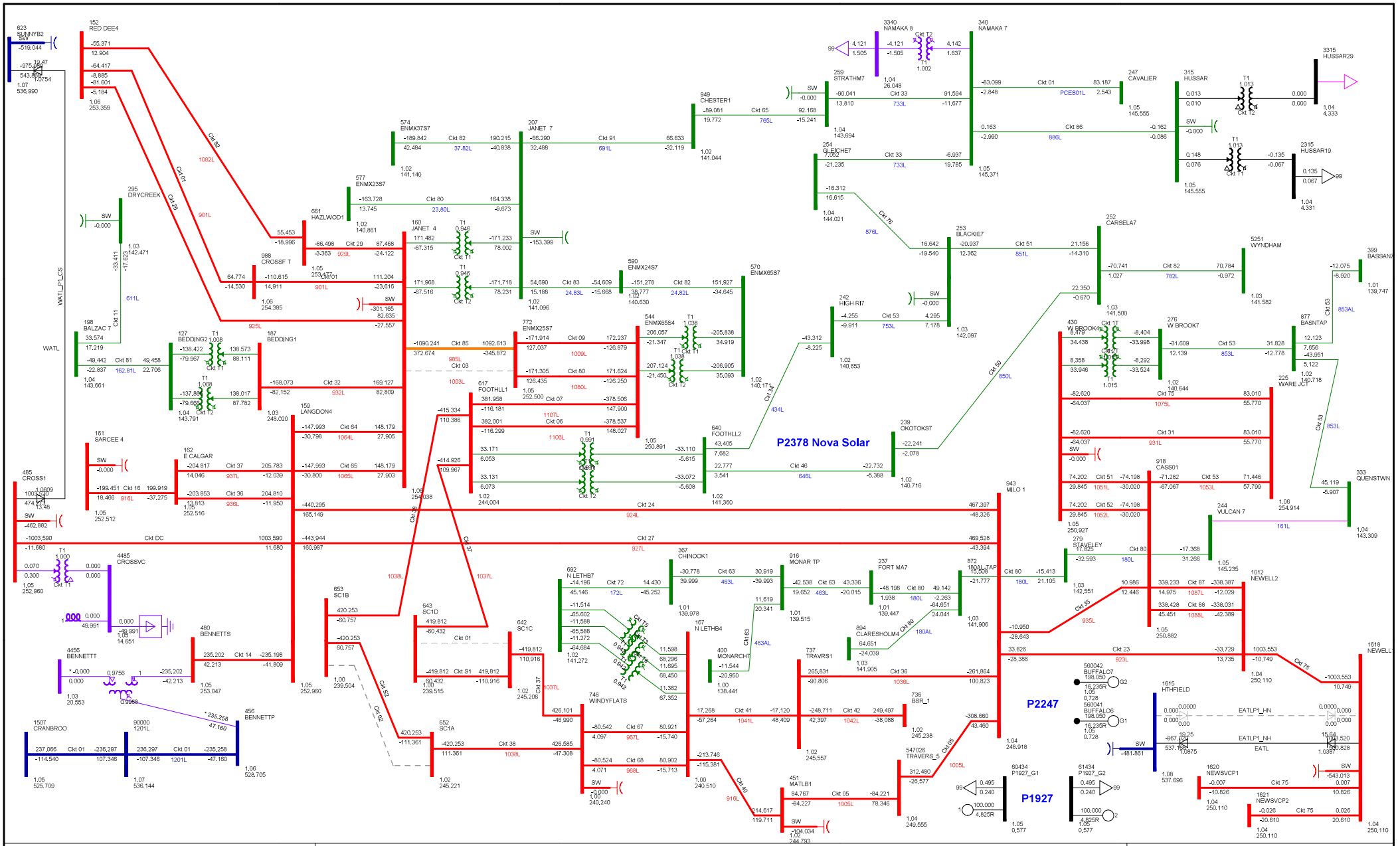
FIGURE A2.3-1-N-0: NORMAL OPERATION
2023 SUMMER PEAK (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

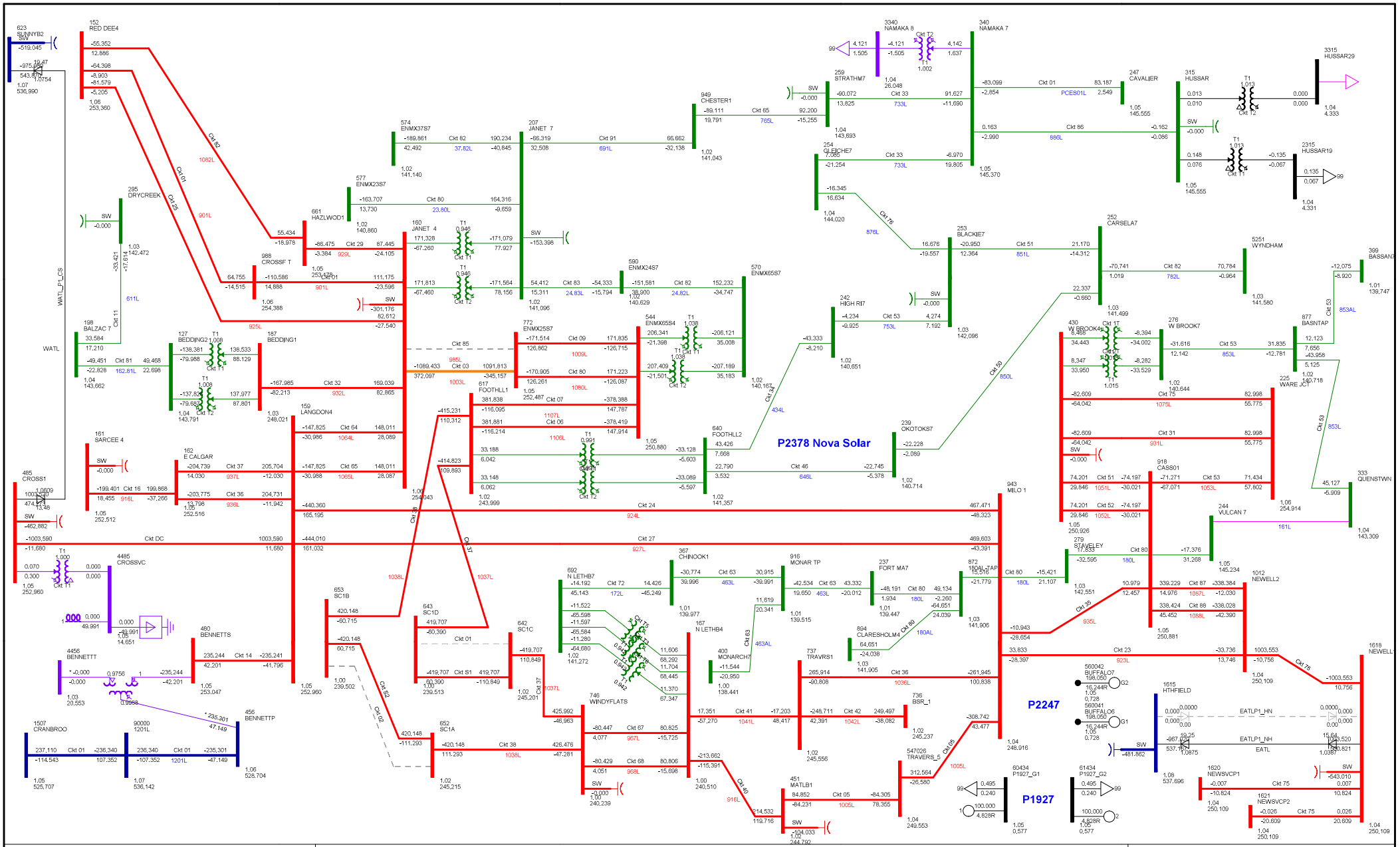
FIGURE A2.3-2 N-1: 924L (LANGDON 102S TO MILO 356S)
2023 SUMMER PEAK (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022


P2378 Nova Solar
P2247
P1927
WATL_P_LCS
WATL
623 SUNNYB2 SW -518.657
152 RED DEE4
295 DRYCREEK
198 BALZAC 7
988 CROSSF T
661 HAZLWOD1
577 ENMX23S7
574 ENMX37S7
207 JANET 7
160 JANET 4
949 CHESTER1
3340 NAMAKA 8
340 NAMAKA 7
259 STRATHM7
254 GLEICHE7
253 BLACKIE7
242 HIGH RI7
570 ENMX65S7
590 ENMX24S7
544 ENMX65S4
772 ENMX25S7
617 FOOTHLL1
640 FOOTHLL2
239 OKOTOKS7
252 CARSELA7
5251 WYNDHAM
399 BASSAN7
247 CAVALIER
315 HUSSAR
3315 HUSSAR29
2315 HUSSAR19
430 W BROOK4
276 W BROOK7
877 BASNTAP
225 WARE JCT
333 QUENSTWN
127 BEDDING2
187 BEDDING1
159 LANGDON4
161 SARCEE 4
162 E CALGAR
485 CROSS1
4485 CROSSVC
480 BENNETTS
4456 BENNETTT
1507 CRANBROO
90000 1201L
456 BENNETTP
653 SC1B
643 SC1D
642 SC1C
652 SC1A
692 N LETHB7
167 N LETHB4
367 CHINOOK1
916 MONAR TP
400 MONARCH7
746 WINDYFLATS
737 TRAVRS1
894 CLARESHOLM4
237 FORT MA7
872 190AL_TAP
736 BSR_1
547026 TRAVERS_6
451 MATLB1
943 MILO 1
279 STAVELEY
244 VULCAN 7
1012 NEWELL2
1618 NEWELL
560042 BUFFALO7
560041 BUFFALO6
61434 P1927_G2
60434 P1927_G1
1615 HTHFIELD
1620 NEWSVCP1
1621 NEWSVCP2
EATLP1_HN
EATLP1_NH
EATL
918 CASS01
Ckt 82
Ckt 01
Ckt 25
Ckt 11
Ckt 39
Ckt 37
Ckt 92
Ckt 24
Ckt 27
Ckt 47
Ckt 80
Ckt 76
Ckt 63
Ckt 40
Ckt 05
Ckt 35
Ckt 75
Ckt 53
Ckt 63
Ckt 72
Ckt 73
Ckt 74
Ckt 78
Ckt 79
Ckt 37
1082L
901L
925L
611L
1038L
1037L
1003L
985L
1009L
1080L
1106L
1107L
1064L
1065L
924L
927L
434L
850L
876L
853AL
1075L
1087L
1088L
1053L
1051L
1052L
931L
923L
1041L
1042L
1036L
1005L
916L
463AL
180AL
180L
782L
851L
733L
765L
691L
967L
968L
1038L
936L
937L
1201L
1 Ckt T1
1 Ckt T2
1 Ckt T1 T1
1 Ckt T2 T1
1 Ckt T1 T2
1 Ckt T2 T2
1 Ckt 1T
1 Ckt 2T
1 Ckt T1
1 Ckt T2
1 Ckt T1
1 Ckt T2
1 Ckt T1
1 Ckt T2



P2378 Nova Solar Project Connection

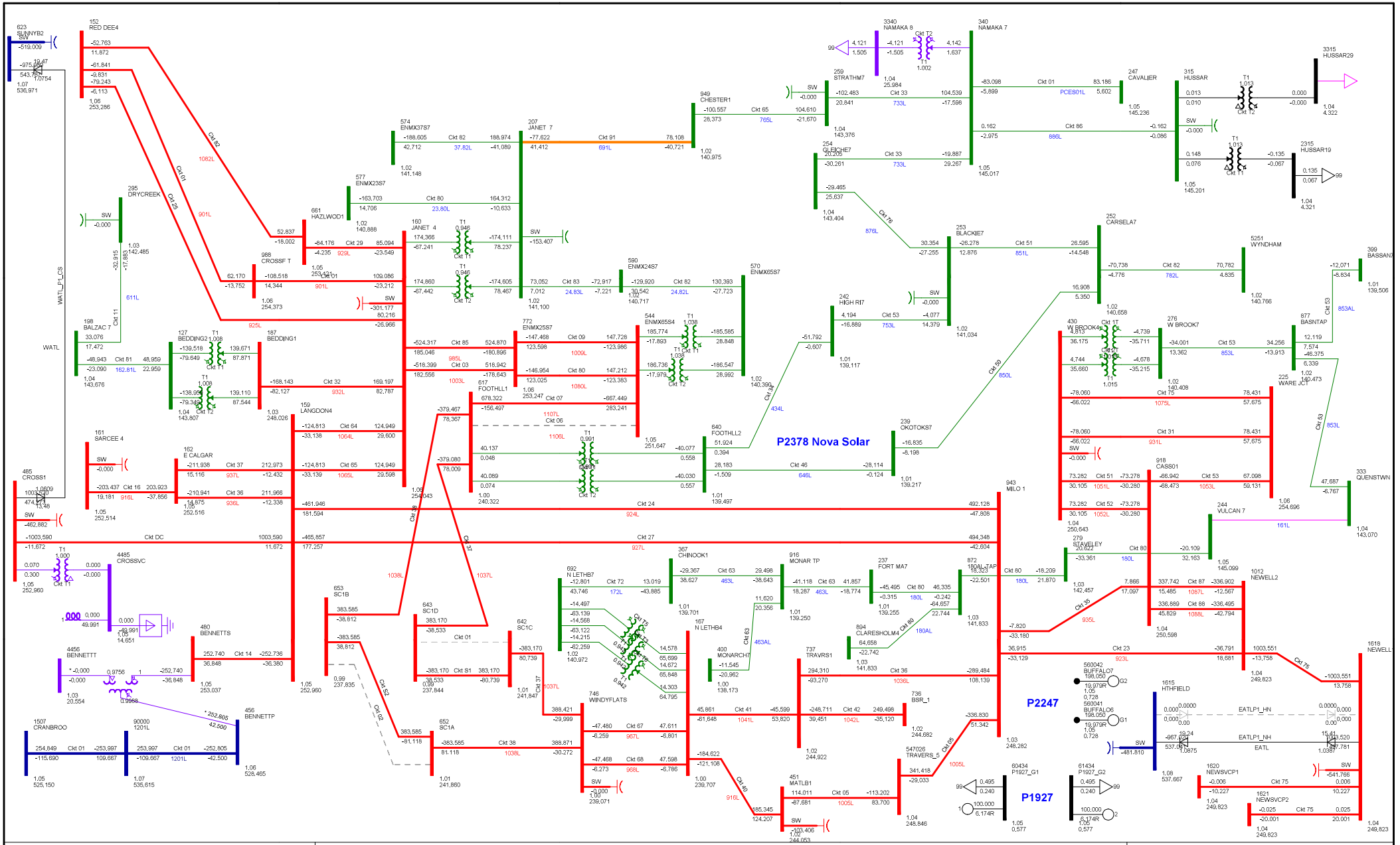
FIGURE A2.3-4 N-1: 1003L (JANET 74S TO ENMAX 25)
2023 SUMMER PEAK (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

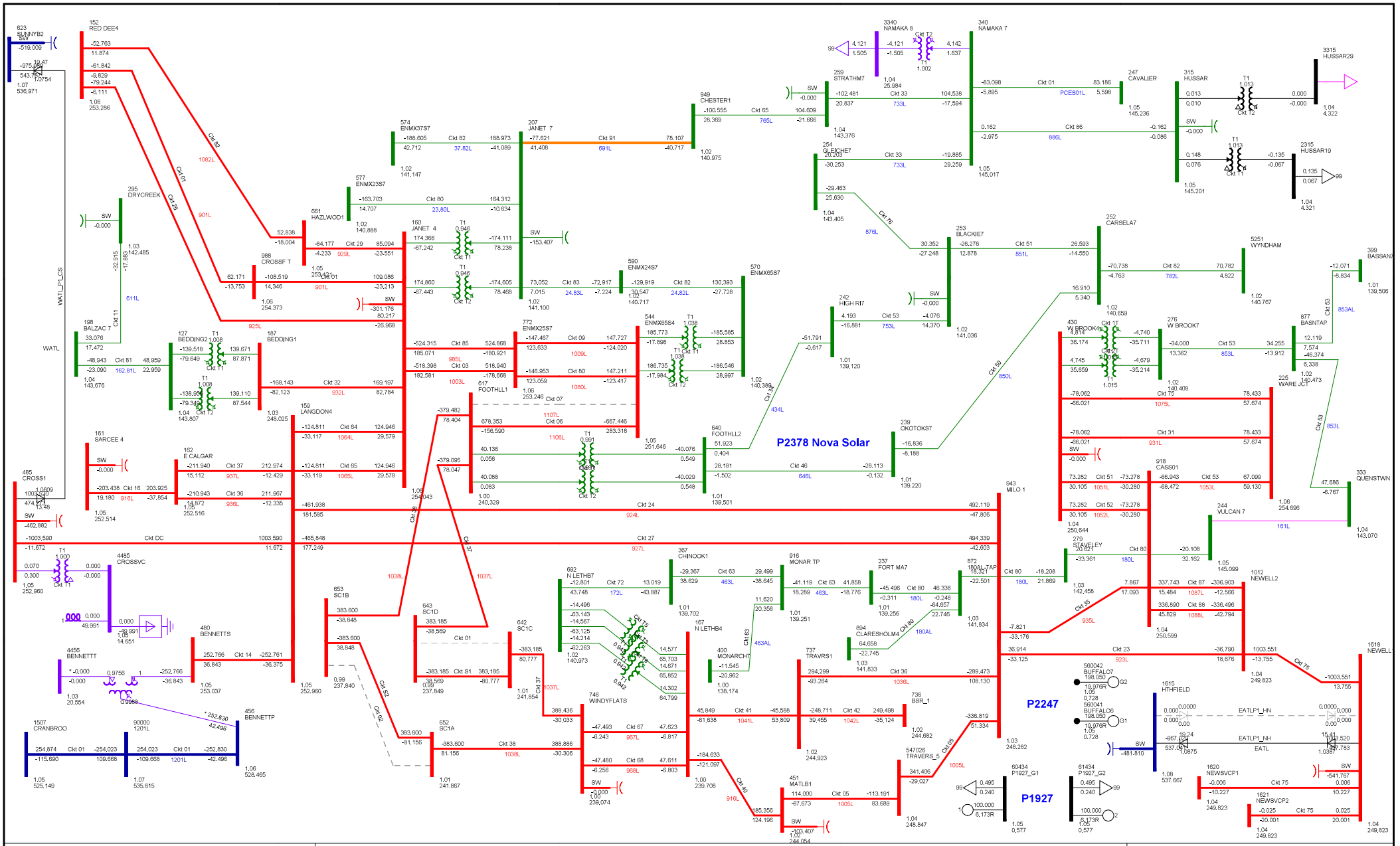
FIGURE A2.3-5 N-1: 985L (JANET 74S TO ENMAX 25)
2023 SUMMER PEAK (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022

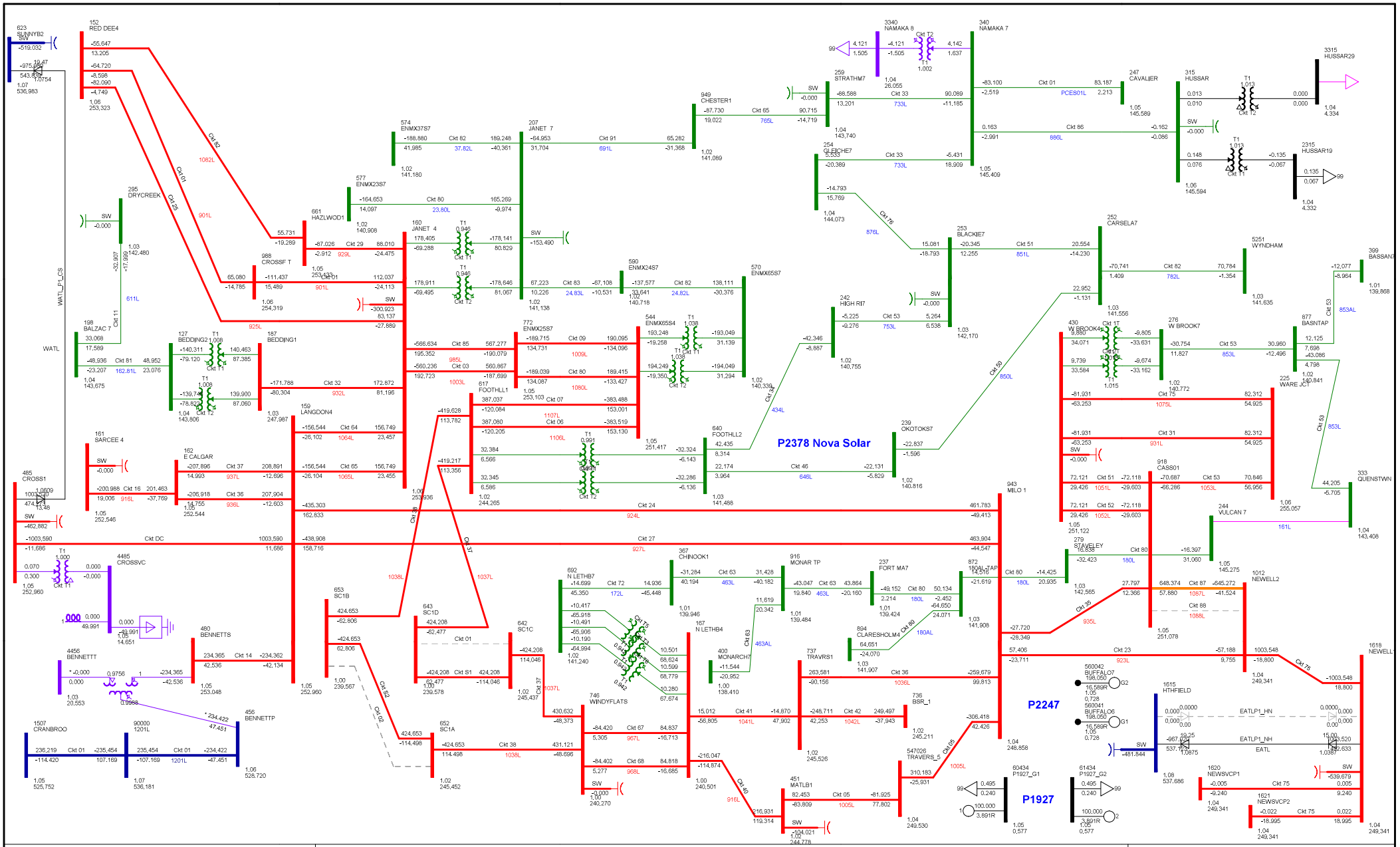
Bus – Voltage (kV/pu)
Branch – MW/Mvar
Equipment – MW/Mvar
100.0 MVA Base
T: 100.0/0.690LV
kV: <=10.000 <=69.000 <=138.000 <=240.000 <=500.000 >500.000



P2378 Nova Solar Project Connection

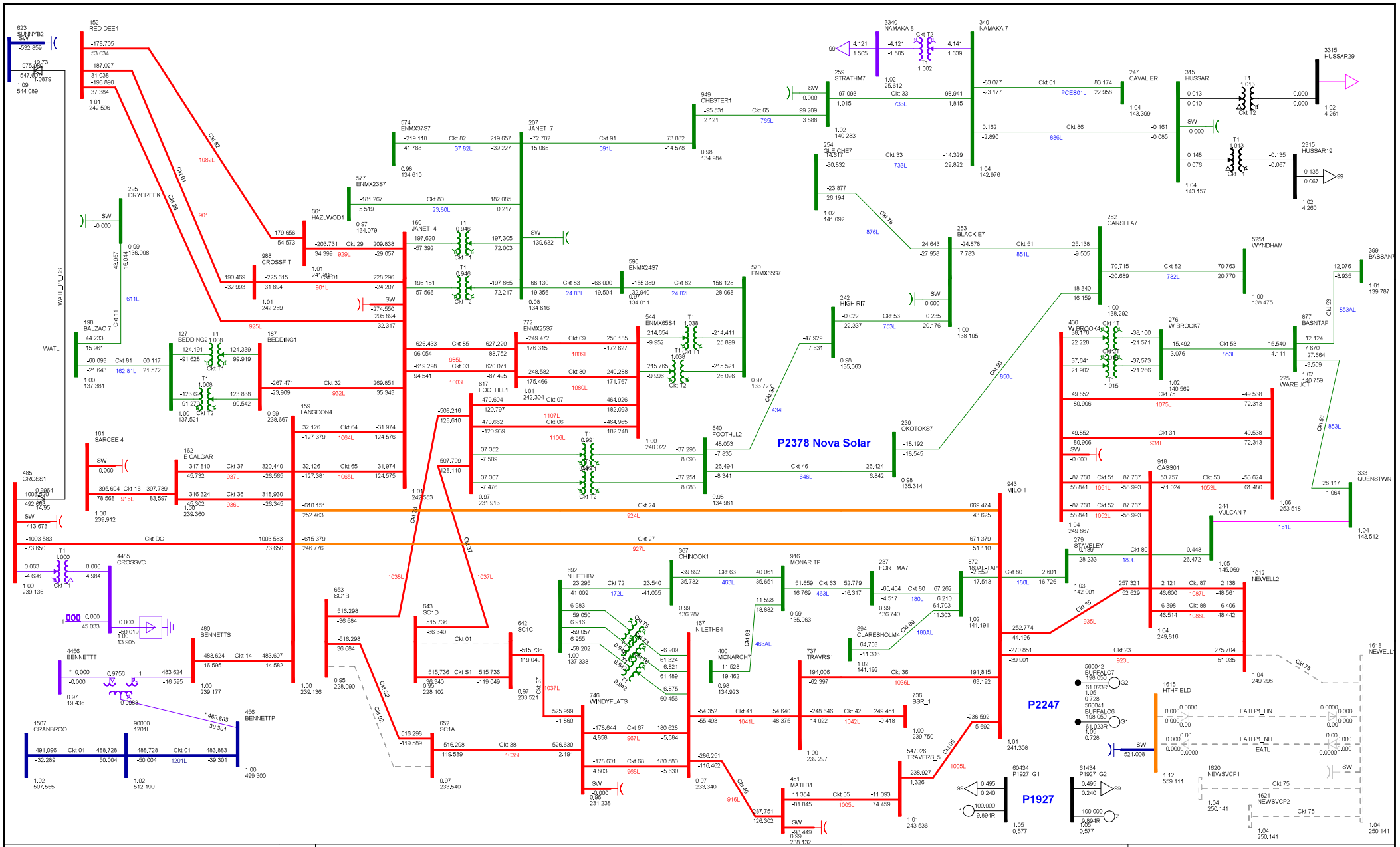
FIGURE A2.3-6 N-1: 1106L (ENMAX 65 TO FOOTHILLS 237S)
2023 SUMMER PEAK (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022


P2378 Nova Solar
P2247
P1927
WATL_P_LCS
WATL
RED DEE4
DRYCREEK
CROSSF T
HAZLWOOD1
ENMX37S7
ENMX23S7
JANET 7
JANET 4
CHESTER1
STRATHM7
NAMAKA 8
NAMAKA 7
CAVALIER
HUSSAR
HUSSAR29
HUSSAR19
GLEICHE7
HIGH RI7
BLACKIE7
CARSELA7
WYNDHAM
BASSAN7
W BROOK4
W BROOK7
BASNTAP
WARE JCT
QUENSTWN
BALZAC 7
BEDDING2
BEDDING1
LANGDON4
SARCEE 4
E CALGAR
FOOTHLL1
FOOTHLL2
ENMX25S7
ENMX65S4
ENMX65S7
OKOTOKS7
CROSS1
CROSSVC
BENNETTT
BENNETTS
BENNETTP
CRANBROO
SC1B
SC1D
SC1C
SC1A
N LETHB7
N LETHB4
CHINOOK1
MONAR TP
MONARCH7
WINDYFLATS
FORT MA7
CLARESHOLM4
TRAVRS1
TRAVERS_5
MATLB1
BSR_1
MILO 1
VULCAN 7
CASS01
NEWELL2
NEWELL
STAVELEY
HTHFIELD
EATLP1_HN
EATLP1_NH
EATL
NEWSVCP1
NEWSVCP2
BUFFALO7
BUFFALO6
P1927_G1
P1927_G2
OKOTOKS7
SUNNYB2
Ckt 82
Ckt 01
Ckt 25
Ckt 11
Ckt 39
Ckt 37
Ckt 92
Ckt 24
Ckt 27
Ckt 30
Ckt 31
Ckt 35
Ckt 53
Ckt 63
Ckt 75
Ckt 76
Ckt 105
Ckt 40
Ckt DC
1082L
901L
925L
611L
1038L
1037L
1107L
1106L
1009L
1080L
1003L
985L
434L
850L
876L
853AL
463AL
1005L
916L
P2378 Nova Solar Project Connection
FIGURE A2.3-7 N-1: 1107L (ENMAX 65 TO FOOTHILLS 237S)
2023 SUMMER PEAK (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022



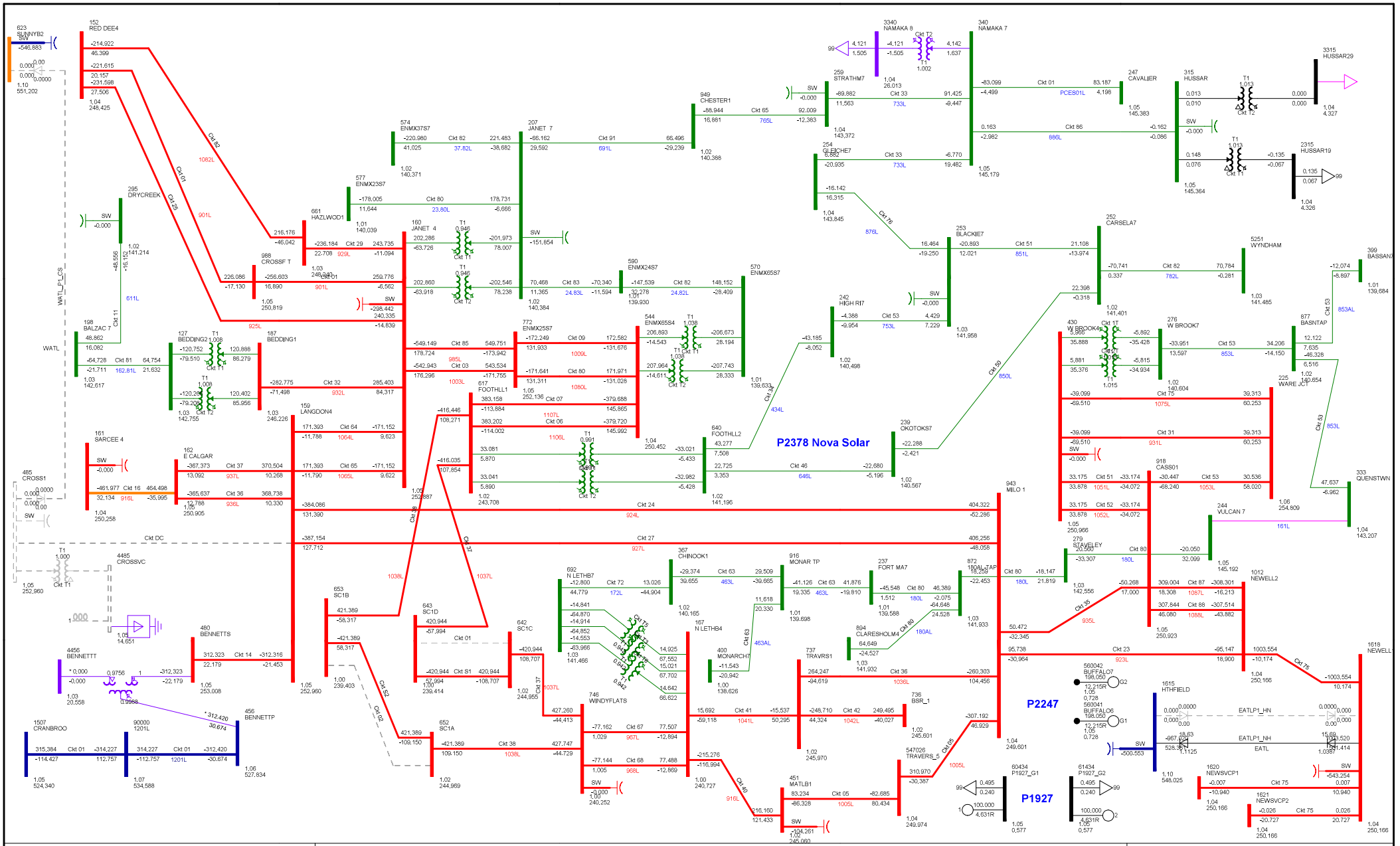
P2378 Nova Solar Project Connection

FIGURE A2.3-8 N-1: 1088L (CASSILS 324S TO NEWELL 2075S)
2023 SUMMER PEAK (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

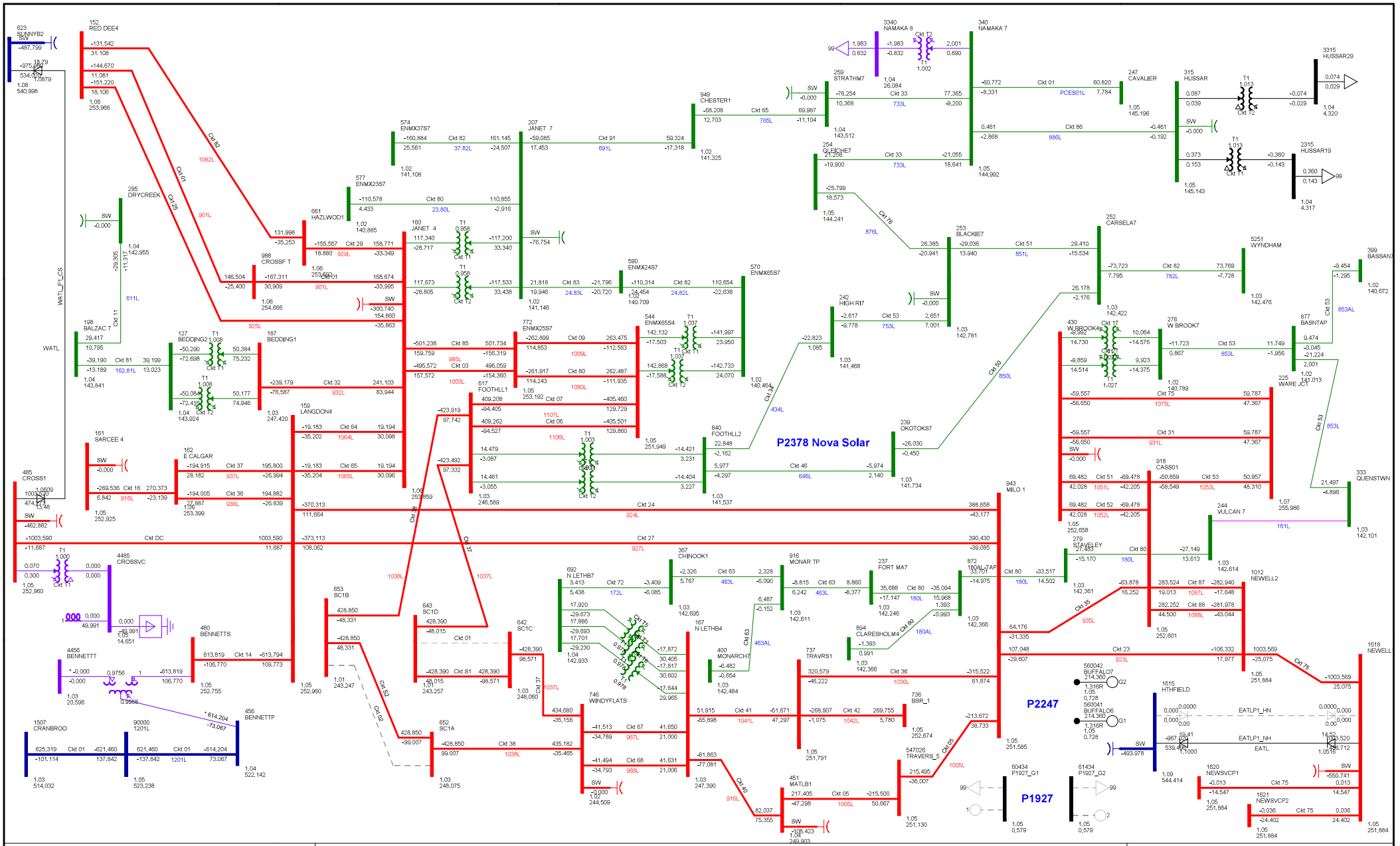
FIGURE A2.3-9 N-1: EATL
2023 SUMMER PEAK (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

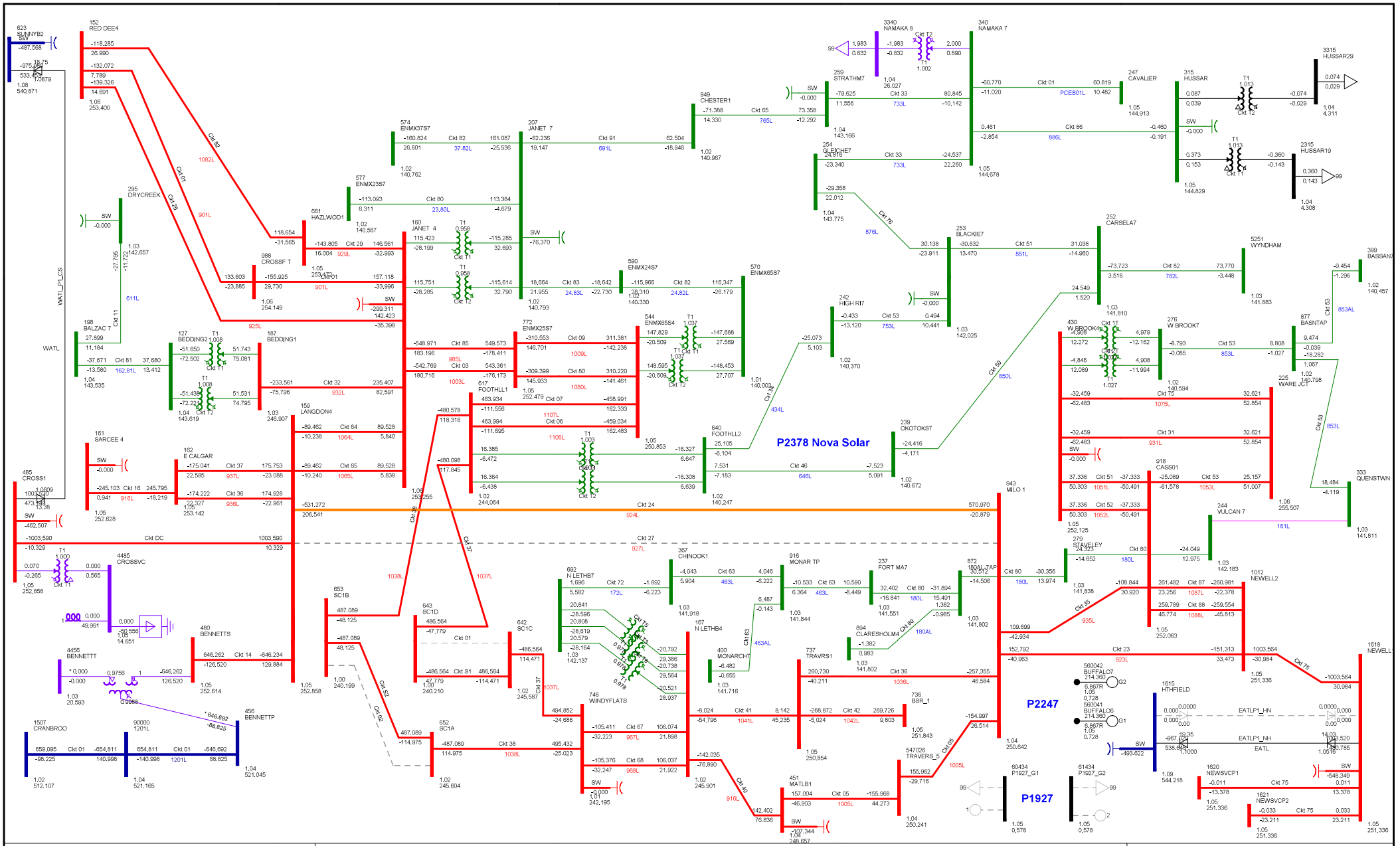
FIGURE A2.3-10 N-1: WATL
2023 SUMMER PEAK (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022

Bus – Voltage (kV/pu)
Branch – MW/Mvar
Equipment – MW/Mvar
100.0 MVA Base
T: 100.0/0.600LV
kV: <=10.000 <=69.000 <=138.000 <=240.000 <=500.000 >500.000



P2378 Nova Solar Project Connection

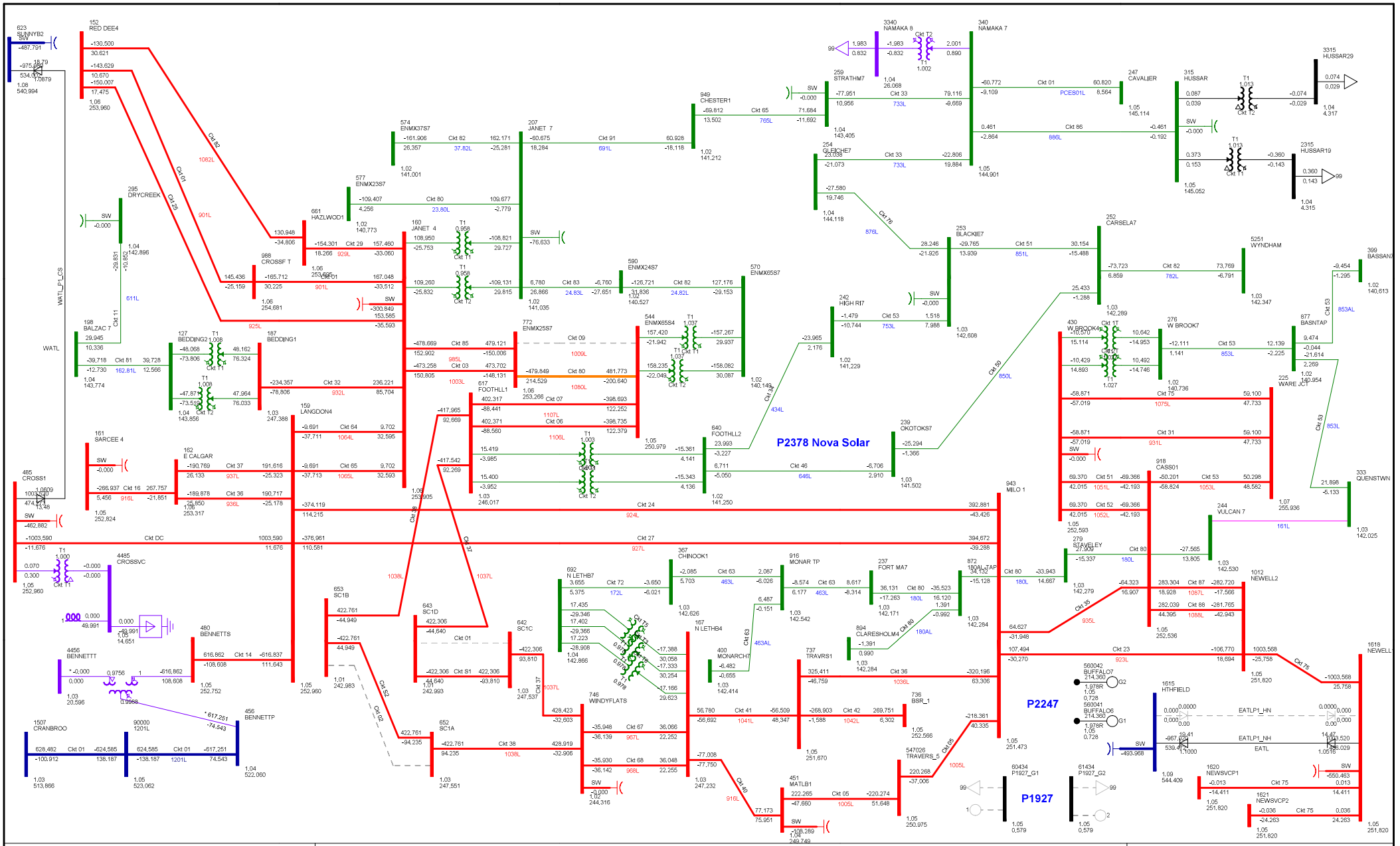
FIGURE A2.4-1-N-0: NORMAL OPERATION
2023 SUMMER LIGHT (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

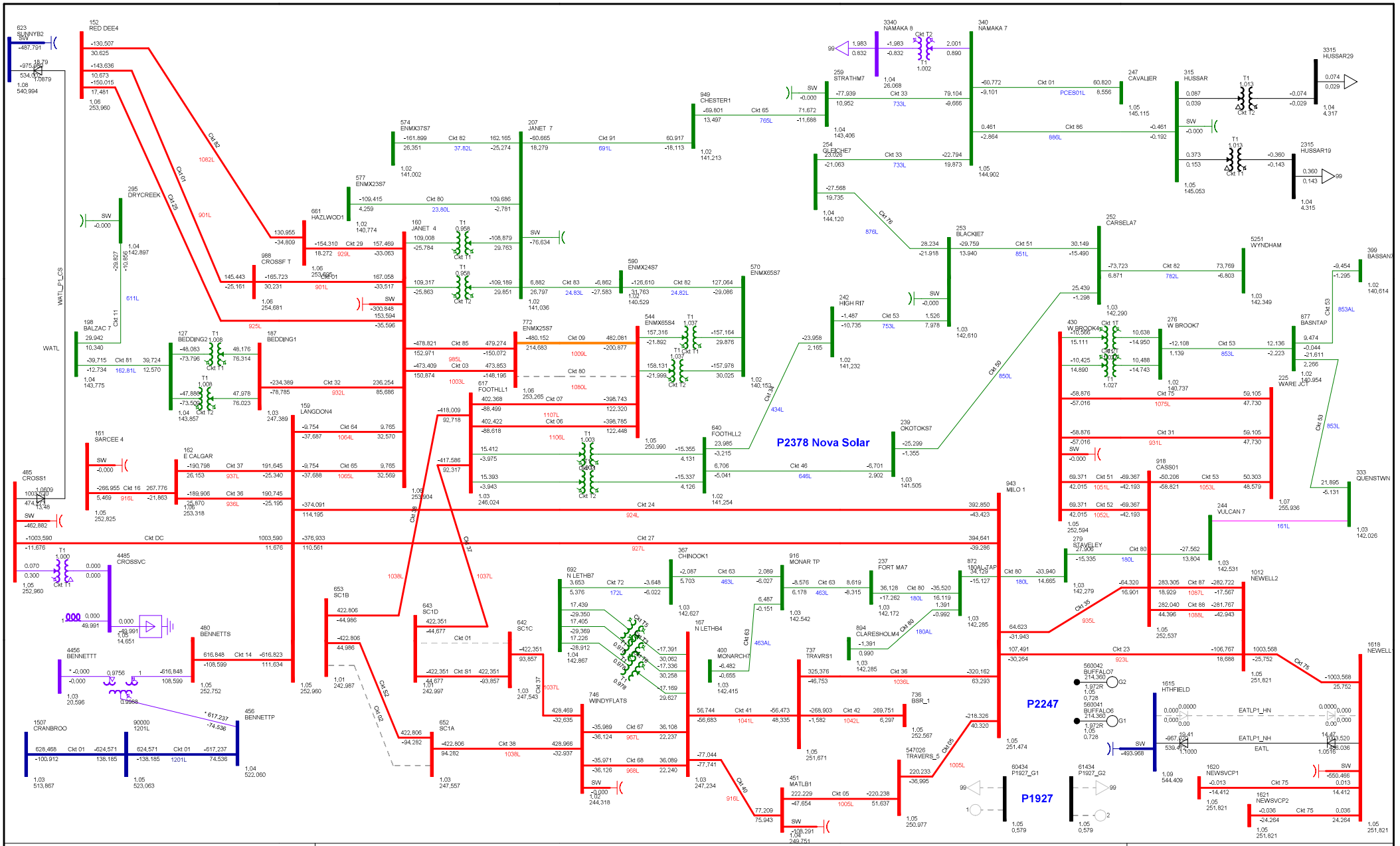
FIGURE A2.4-2 N-1: 927L (LANGDON 102S TO MILO 356S)
2023 SUMMER LIGHT (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022

Bus – Voltage (kV/pu)
Branch – MW/Mvar
Equipment – MW/Mvar
HV/LV Ratio
LV: <=10.000 <=69.000 <=138.000 <=240.000 <=500.000 >500.000



P2378 Nova Solar Project Connection

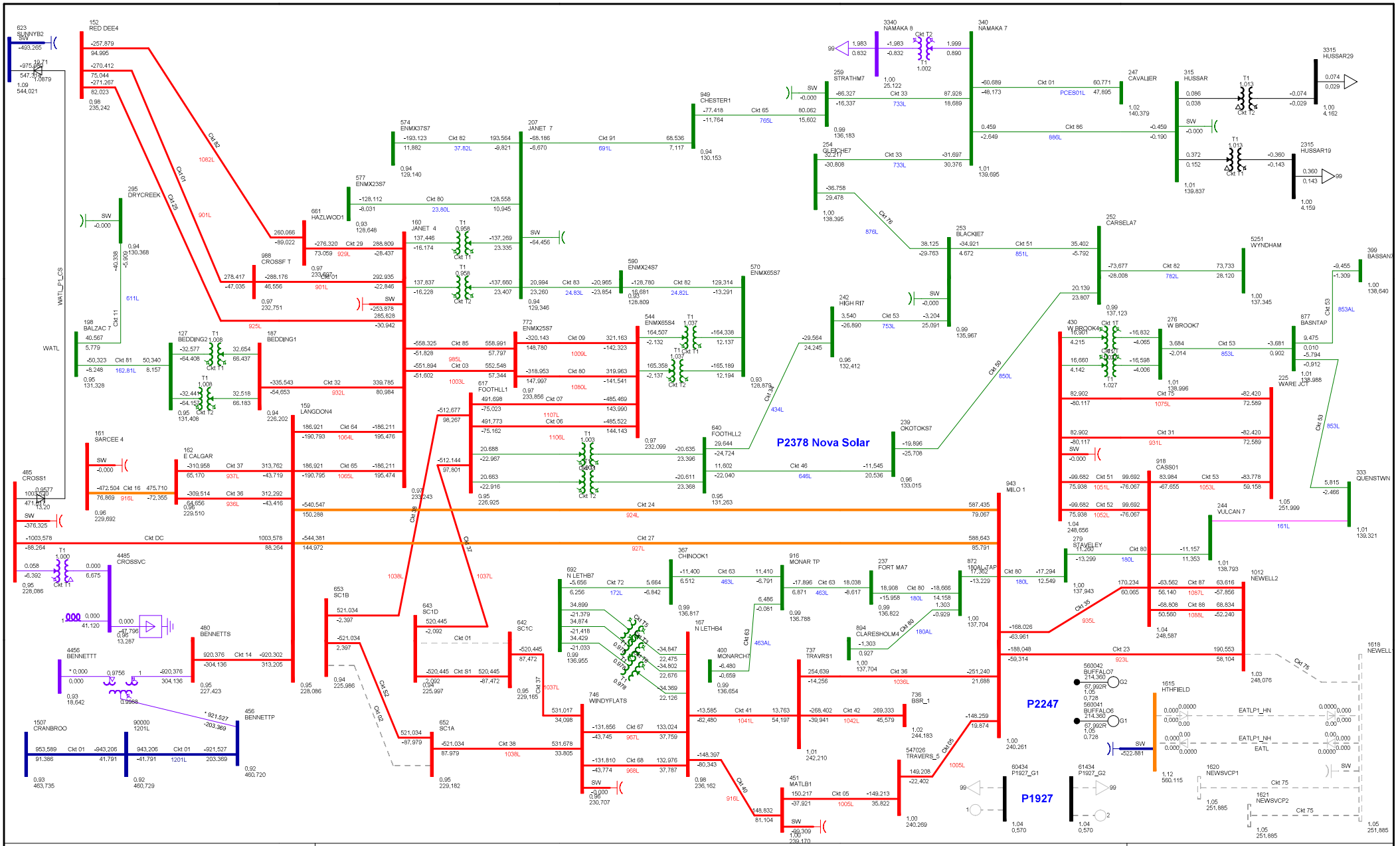
FIGURE A2.4-3 N-1: 1109L (ENMAX 65 TO ENMAX 25)
2023 SUMMER LIGHT (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

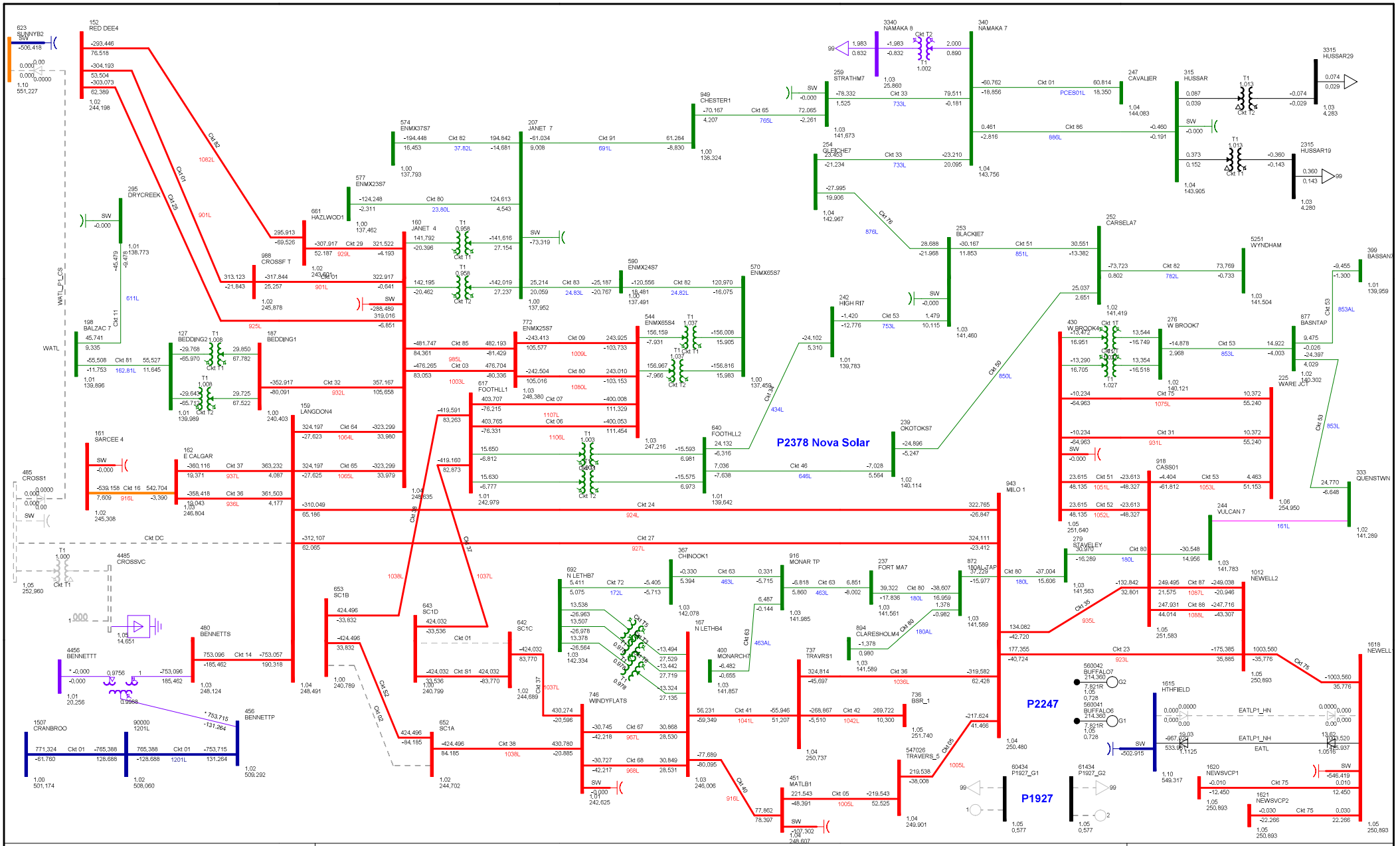
FIGURE A2.4-4 N-1: 1080L (ENMAX 65 TO ENMAX 25)
2023 SUMMER LIGHT (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022

Bus – Voltage (kV/pu)
Branch – MW/Mvar
Equipment – MW/Mvar
100.0 MVA Base
T: 1000.0/1000.0/1000.0 MVA
kV: <=10.000 <=69.000 <=138.000 <=240.000 <=500.000 >500.000

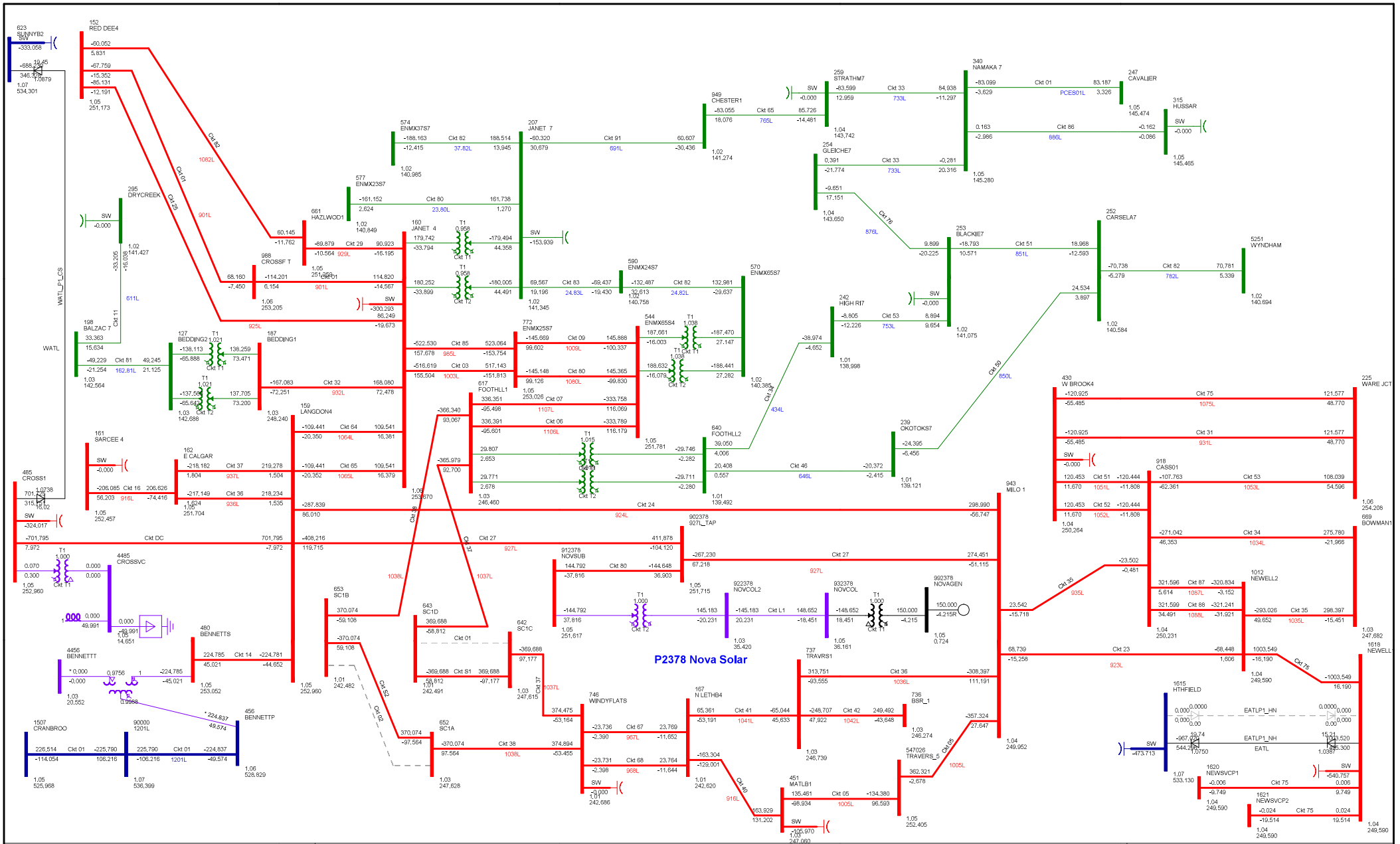


P2378 Nova Solar Project Connection

FIGURE A2.4-5 N-1: EATL
2023 SUMMER LIGHT (PRE-CONNECTION) - SENSITIVITY
PRINTED ON SATURDAY 21. MAY 2022

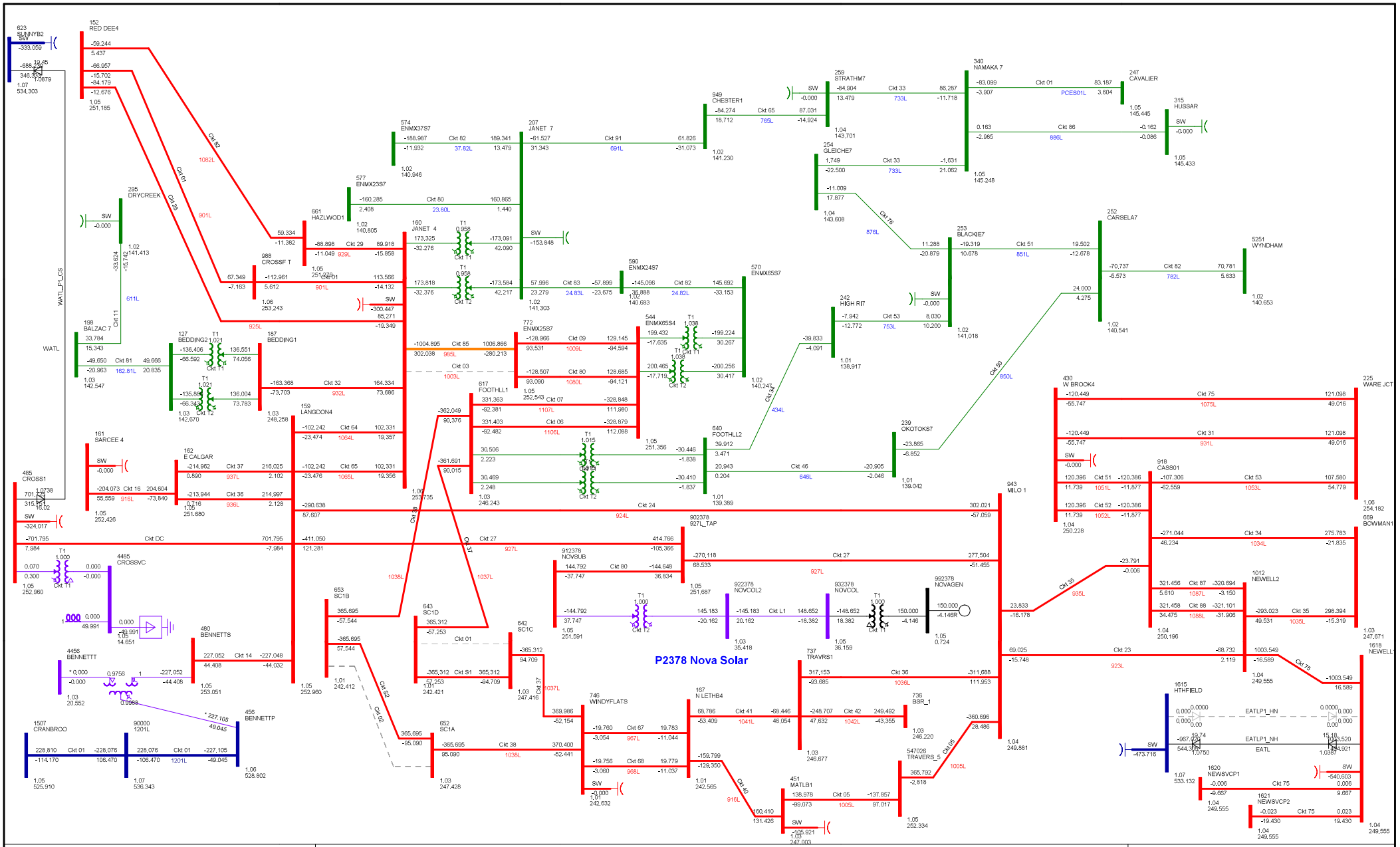

P2378 Nova Solar
P2247
P1927
WATL
WATL_P1_CS
623 SUNNYB2
152 RED DEE4
295 DRYCREEK
198 BALZAC 7
127 BEDDING2
187 BEDDING1
988 CROSSF T
661 HAZLWOOD1
574 ENMX37S7
577 ENMX23S7
160 JANET 4
207 JANET 7
949 CHESTER1
3340 NAMAKA 8
340 NAMAKA 7
259 STRATHM7
254 GLEICHE7
247 CAVALIER
315 HUSSAR
3315 HUSSAR29
2315 HUSSAR19
590 ENMX24S7
544 ENMX65S4
772 ENMX25S7
570 ENMX65S7
242 HIGH RI7
253 BLACKIE7
252 CARSELA7
5251 WYNDHAM
399 BASSAN7
877 BASNTAP
430 W BROOK1T
276 W BROOK7
225 WARE JCT
617 FOOTHLL1
640 FOOTHLL2
239 OKOTOKS7
161 SARCEE 4
162 E CALGAR
159 LANGDON4
485 CROSS1
4485 CROSSVC
4456 BENNETTT
480 BENNETTS
456 BENNETTP
1507 CRANBROO
90000 1201L
653 SC1B
643 SC1D
642 SC1C
652 SC1A
692 N LETHB7
367 CHINOOK1
167 N LETHB4
916 MONAR TP
400 MONARCH7
237 FORT MA7
894 CLARESHOLM4
737 TRAVRS1
736 BSR_1
547026 TRAVERS_6
746 WINDYFLATS
451 MATLB1
872 180AL_TAP
943 MILO 1
279 STAVELEY
918 CASS01
244 VULCAN 7
1012 NEWELL2
1618 NEWELL
560042 BUFFALO7
560041 BUFFALO6
60434 P1927_G1
61434 P1927_G2
1615 HTHFIELD
1620 NEWSVCP1
1621 NEWSVCP2
333 QUENSTWN
485 CROSS1
Ckt 82
Ckt 01
Ckt 05
Ckt 11
Ckt 39
Ckt 37
Ckt 52
Ckt 92
Ckt 40
Ckt 76
Ckt 80
Ckt 35
Ckt 63
Ckt 75
Ckt 53
Ckt DC
1082L
901L
925L
611L
985L
1003L
1080L
1107L
1106L
434L
850L
1038L
1037L
1037L
463AL
180AL
916L
1005L
853AL
1075L
1052L
1051L
1087L
1088L
935L
923L
1036L
1042L
967L
968L
1041L
733L
765L
691L
876L
886L
782L
851L
753L
853L
1053L
931L
180L
161L
924L
927L
1038L
1037L
1041L
1005L
1075L
1087L
1088L
1051L
1052L
935L
923L
1036L
1042L
967L
968

Attachment A3
Post-Project Power Flow Diagrams



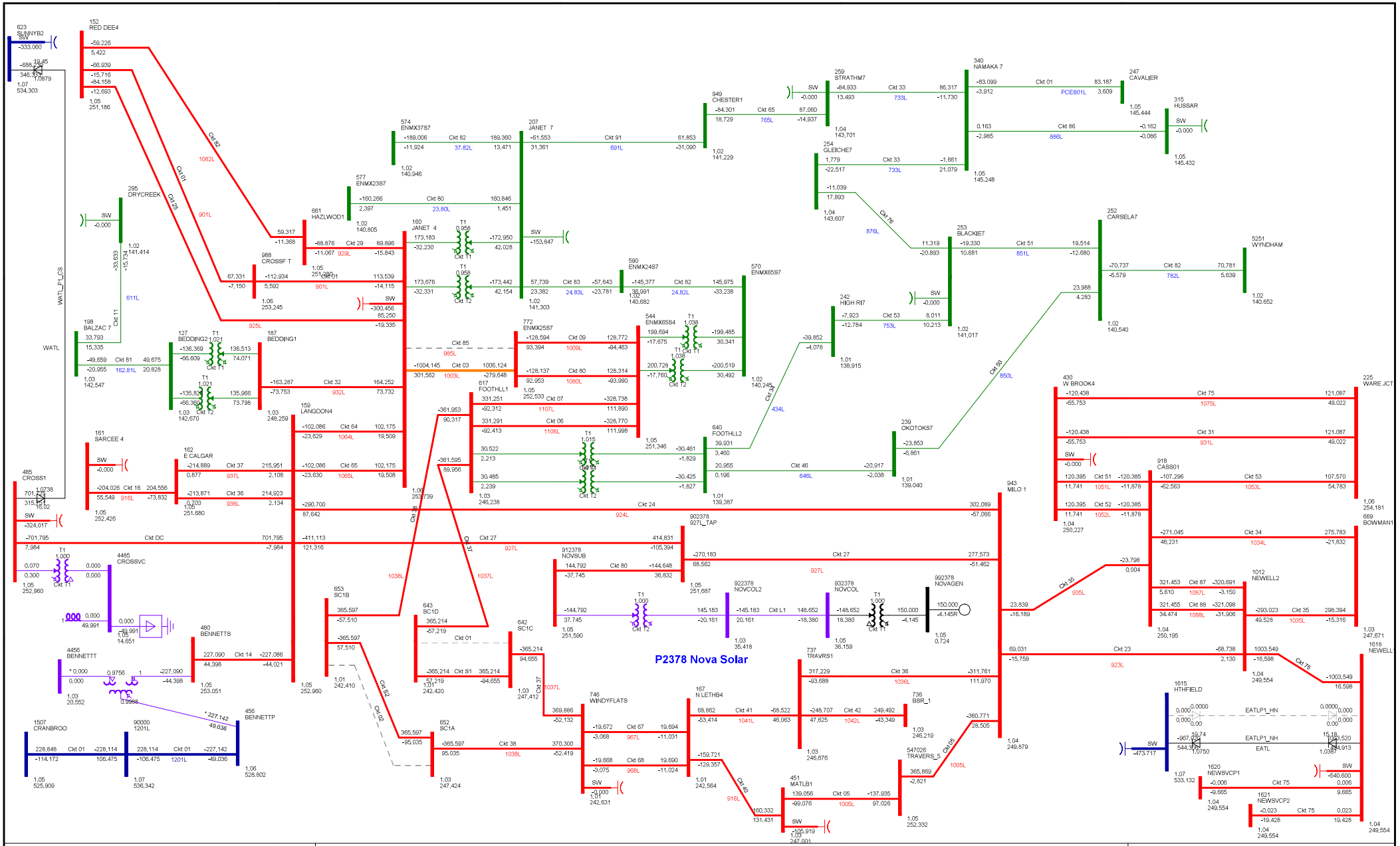
P2378 Nova Solar Project Connection

FIGURE A3.1-1-N-0: NORMAL OPERATION
2023 SUMMER PEAK (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022



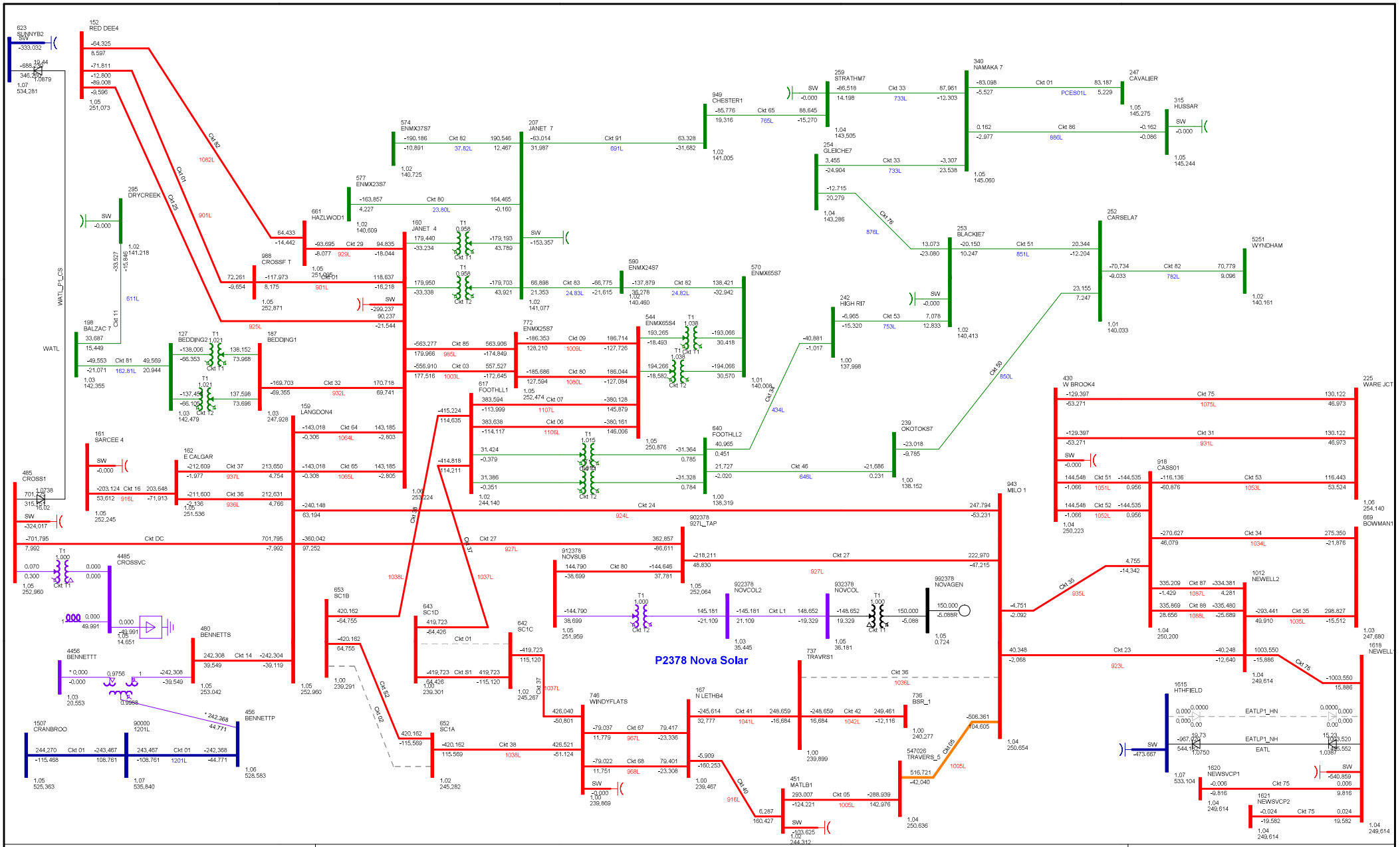
P2378 Nova Solar Project Connection

FIGURE A3.1-2 N-1: 1003L (JANET 74S TO ENMAX 25)
2023 SUMMER PEAK (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022



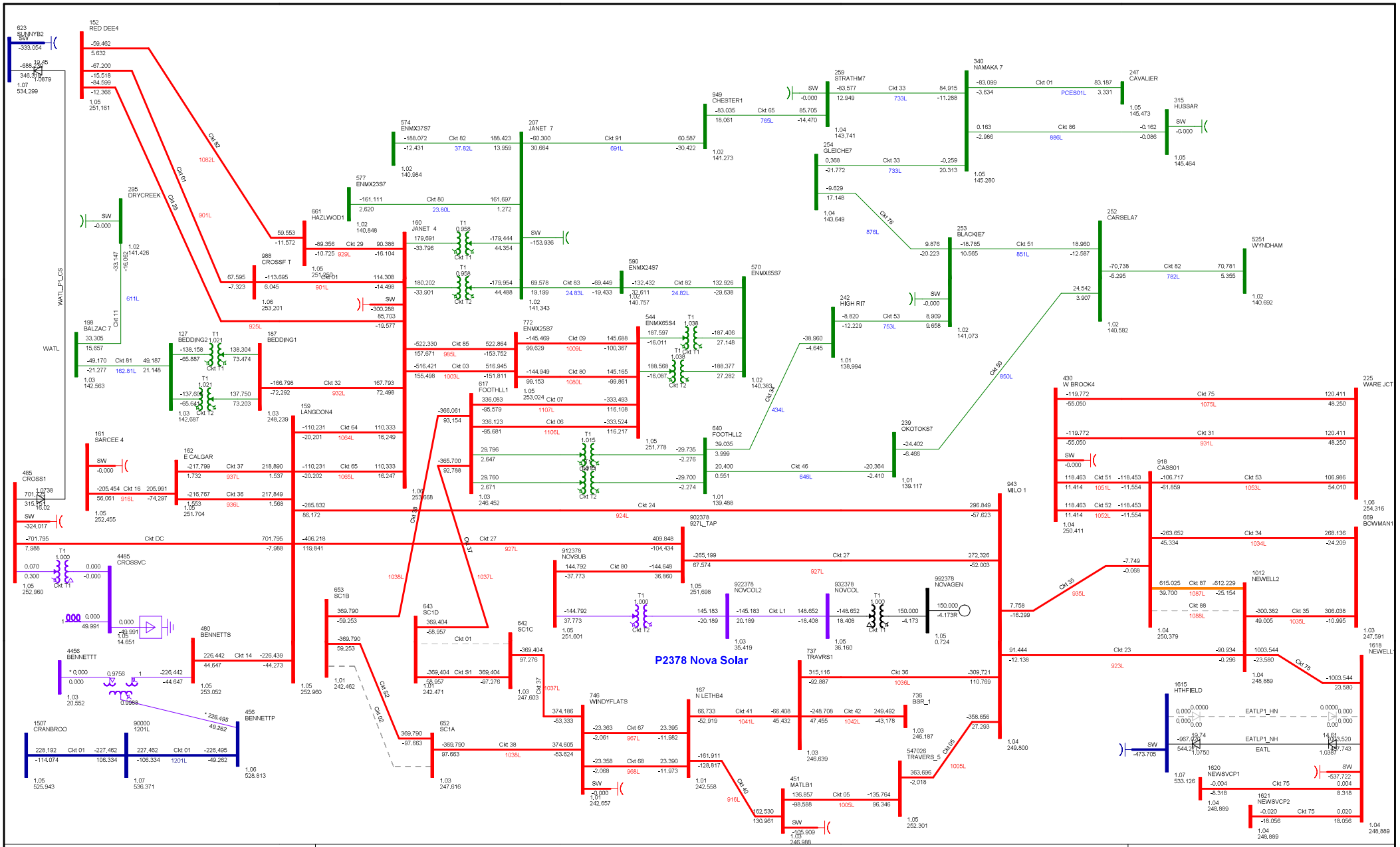
P2378 Nova Solar Project Connection

FIGURE A3.1-3 N-1: 985L (JANET 7S TO ENMAX 25)
2023 SUMMER PEAK (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022



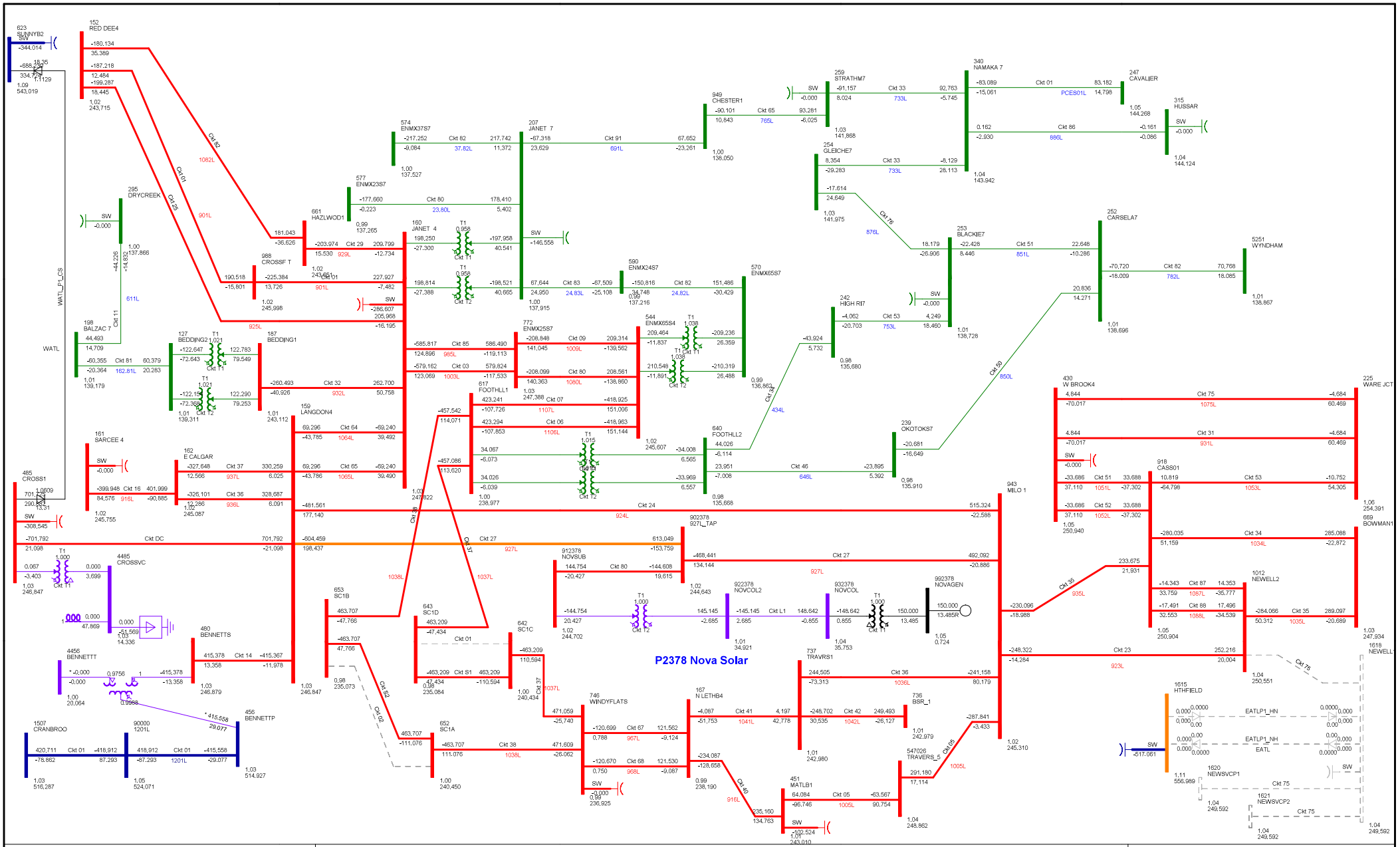
P2378 Nova Solar Project Connection

FIGURE A3.1-4 N-1: 1036L (MILO 356S TO TRAVERS 554S)
2023 SUMMER PEAK (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022



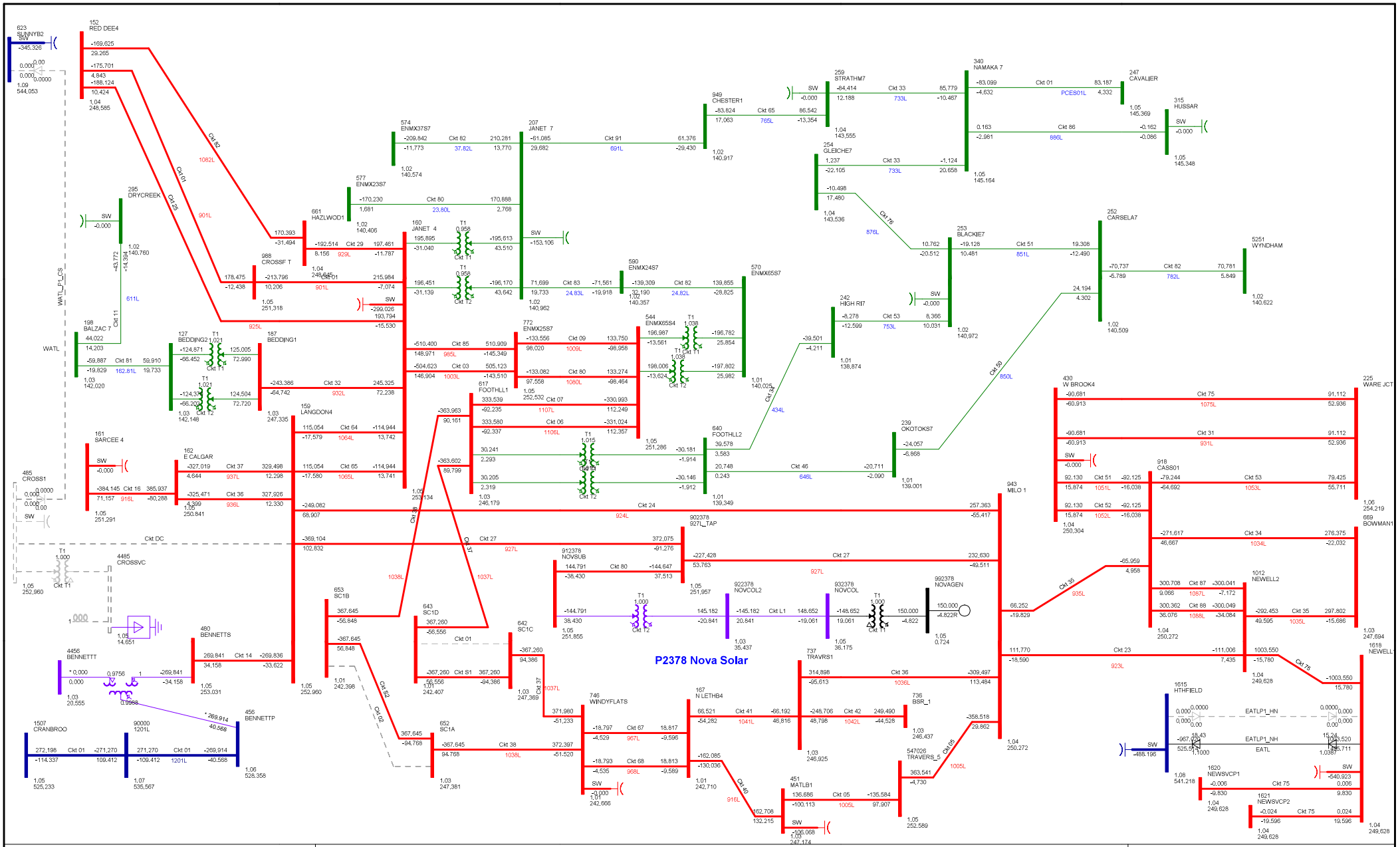
P2378 Nova Solar Project Connection

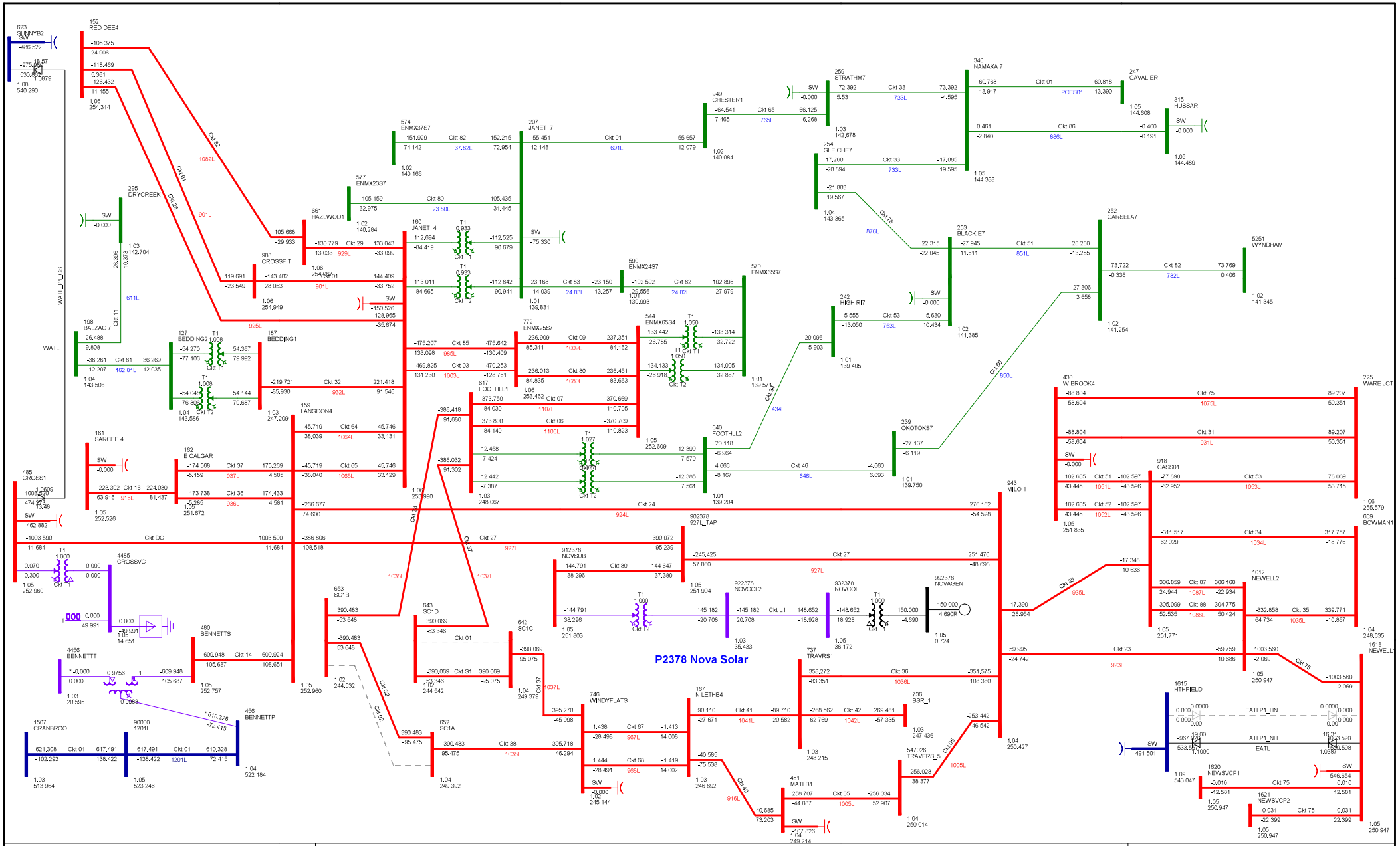
FIGURE A3.1-5 N-1: 1088L (CASSILS 324S TO NEWELL 2075S)
2023 SUMMER PEAK (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

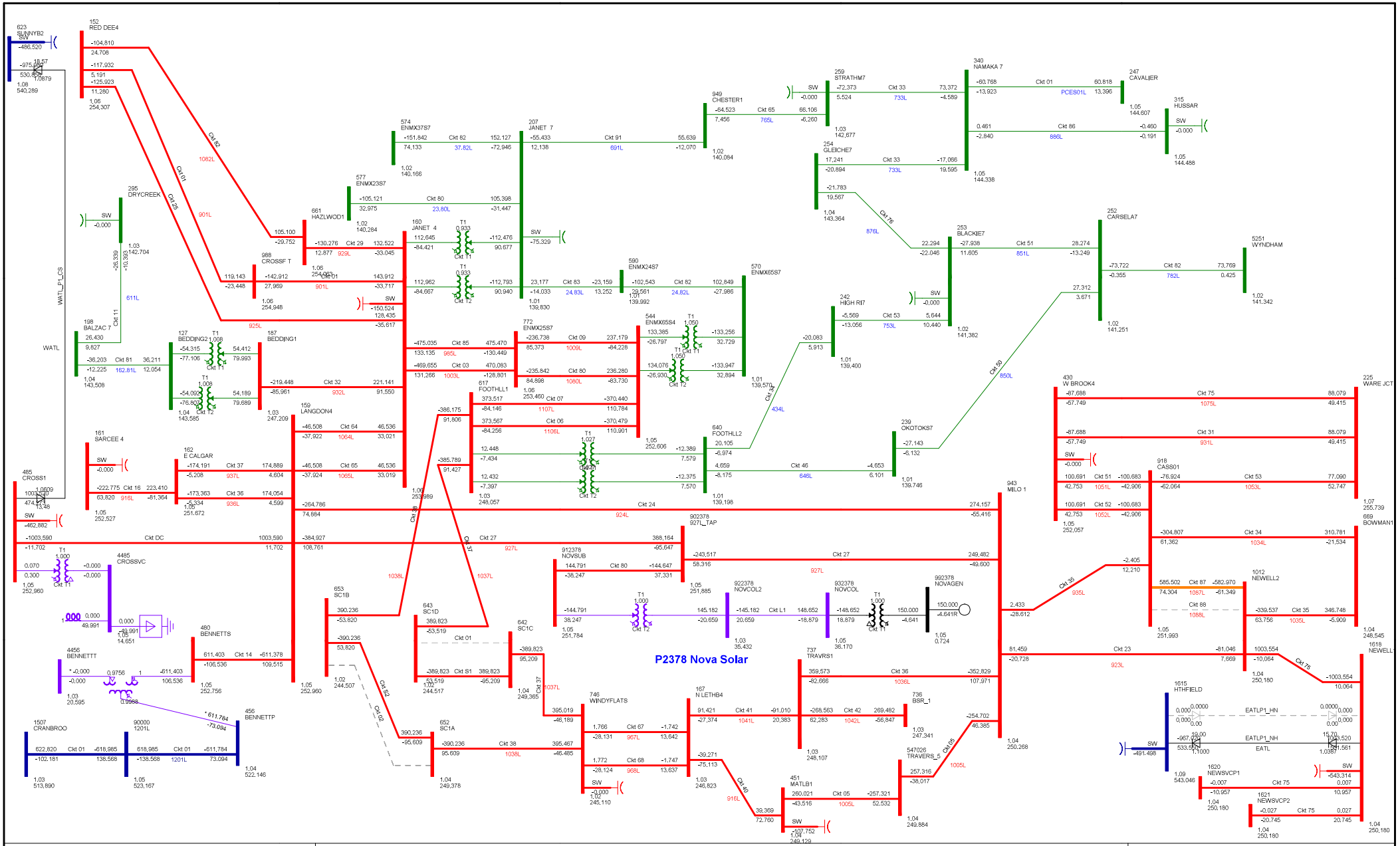
FIGURE A3.1-6 N-1: EATL
2023 SUMMER PEAK (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022


P2378 Nova Solar
WATL
WATL_P1_CS
Ckt DC
623 SUNNYB2 SW -345.326
152 RED DEE4 -169.625 29.265 -175.701 4.943 -188.124 10.424 1.04 248.585
295 DRYCREEK SW -0.000 1.02 140.760
198 BALZAC 7 44.022 14.203 -59.887 Ckt 81 59.910 -19.829 162.81L 19.733 1.03 142.020
Ckt 11
611L
1082L
901L
925L
178.475 -12.438
170.393 -31.494
988 CROSSF T 1.05 251.318
-213.796 10.206
661 HAZLWOD1 1.02 140.406
-192.514 Ckt 29 197.461 8.156 929L -11.787
1.04 248.645
Ckt 01
215.984 -7.074
577 ENMX23S7 -170.230 1.681 Ckt 80 170.888 23.80L 2.768
574 ENMX37S7 -209.842 -11.773 Ckt 82 210.281 37.82L 13.770 1.02 140.574
207 JANET 7 -61.085 29.682 Ckt 91 61.376 691L -29.430
949 CHESTER1 -83.624 17.063 Ckt 65 86.542 765L -13.354 1.02 140.917
SW -0.000
259 STRATHM7 -84.414 12.188 Ckt 33 85.779 733L -10.467 1.04 143.555
254 GLEICHE7 1.237 -22.105 Ckt 33 -1.124 733L 20.658 1.05 145.164
340 NAMAKA 7 -83.099 -4.632 Ckt 01 83.187 PCES01L 4.332 1.05 145.369
247 CAVALIER
315 HUSSAR SW -0.000 1.05 145.348
0.163 -2.981 Ckt 86 -0.162 886L -0.056
-10.498 17.480 1.04 143.536
876L
160 JANET 4 195.895 -31.040 T1 0.958 Ckt T1 -195.613 43.510
196.451 -31.139 T1 0.958 Ckt T2 -196.170 43.642
SW -153.106
1.02 140.962
590 ENMX24S7 -139.309 32.190 Ckt 82 139.855 24.82L -28.825 1.02 140.357
570 ENMX65S7 1.01 140.025
544 ENMX65S4 196.987 -13.561 T1 1.038 T1 Ckt T1 -196.782 25.854 198.006 -13.624 T1 1.038 Ckt T2 -197.802 25.982
772 ENMX25S7 -133.556 98.020 Ckt 09 133.750 1009L -98.958 -133.082 97.556 Ckt 80 133.274 1080L -98.464
1.05 252.532
-39.501 -4.211
242 HIGH RI7 -8.278 -12.599 Ckt 53 8.366 753L 10.031 1.02 140.972 1.01 138.874
SW -0.000
253 BLACKIE7 -19.126 10.481 Ckt 51 19.308 851L -12.490 1.02 140.481
10.762 -20.512
252 CARSELA7 -70.737 -5.789 Ckt 82 70.781 782L 5.849 1.02 140.509
5251 WYNDHAM 1.02 140.622
24.194 4.302
850L
Ckt 30
434L
Ckt 34
-510.400 148.971 965L -145.349 -504.623 146.904 Ckt 03 505.123 1003L -143.510
617 FOOTHLL1 333.539 -92.235 333.580 -92.337 Ckt 06 112.357 1106L 30.241 2.293 30.205 2.319 1.03 246.179
T1 1.015 Ckt T1 T1 1.015 Ckt T2
640 FOOTHLL2 39.578 3.583 20.748 0.243 1.01 139.349
Ckt 46 646L -20.711 -2.090
239 OKOTOKS7 -24.057 -6.868 1.01 139.001
Ckt 07 1107L -330.993 112.249
-30.181 -1.914 -30.146 -1.912
1.05 251.286
-363.963 90.161 -363.602 89.799 1.05 253.134
159 LANGDON4 115.054 -17.579 Ckt 64 1064L -114.944 13.742 115.054 -17.580 Ckt 65 1065L -114.944 13.741
187 BEDDING1 -243.386 -54.742 Ckt 32 932L 245.325 72.236
127 BEDDING2 1.021 -124.671 -66.452 T1 Ckt T1 125.005 72.990 -124.376 -66.200 T1 1.021 Ckt T2 124.504 72.720 1.03 142.148
162 E CALGAR -327.019 4.644 Ckt 37 937L 329.498 12.298 -325.471 4.599 Ckt 36 936L 327.926 12.330 1.05 250.841
161 SARCEE 4 SW -0.000 -384.145 Ckt 16 385.937 71.157 916L -80.288 1.05 251.291
485 CROSS1 0.000 0.000 0.000 0.000 SW
1.05 252.960 Ckt T1
4485 CROSSVC 1.03 14.651
480 BENNETTS 269.841 34.158 Ckt 14 -269.836 -33.622 1.05 253.031
4456 BENNETTT * 0.000 0.000 0.9756 1 -269.841 -34.158 1.03 20.555 0.9988
* 269.914 40.568
1507 CRANBROO 272.198 -114.337 Ckt 01 -271.270 109.412 271.270 -109.412 Ckt 01 1201L -269.914 -40.568 1.05 525.233 1.07 535.567
90000 1201L
456 BENNETTP 1.06 528.358
-249.082 68.907 Ckt 24 257.363 924L -55.417
-369.104 102.832 Ckt 27 372.075 927L -91.276
Ckt 39
Ckt 37
1038L
1037L
653 SC1B 367.645 -56.848 -367.645 56.848 1.01 242.398
643 SC1D 367.260 -56.556 Ckt 01 -367.260 56.556 Ckt S1 367.260 -94.386 1.01 242.407
642 SC1C -367.260 94.386 1.03 247.369 Ckt 37 1037L 371.980 -51.233
652 SC1A -367.645 94.768 Ckt 38 372.397 1038L -51.520 1.03 247.381
Ckt S2
Ckt 02
902378 927L_TAP
912376 NOVSUB 144.791 -36.430 Ckt 80 -144.647 37.513 1.05 251.957
-227.428 53.763 Ckt 27 232.630 927L -49.511
922378 NOVCOL2 -145.182 20.841 Ckt L1 148.652 -19.061 1.03 35.437
932378 NOVCOL -148.652 19.061 T1 1.000 Ckt T1 150.000 -4.822 1.05 36.175
992378 NOVAGEN 150.000 -4.822R 1.05 0.724
-144.791 38.430 T1 1.000 Ckt T2 145.182 -20.841 1.05 251.855
943 MILO 1 66.252 -19.829 111.770 -18.590 1.04 250.272
Ckt 36 935L
-65.959 4.958
Ckt 23 923L
-111.006 7.435
737 TRAVRS1 314.898 -95.613 Ckt 36 1036L -309.497 113.484
-248.706 48.798 Ckt 42 249.490 1042L -44.528 1.03 246.925
736 BSR_1 1.03 246.437
-358.518 29.862
547026 TRAVERS_6 363.541 -4.730 1005L 1.05 252.589
Ckt 05
451 MATLB1 136.686 -100.113 Ckt 05 -135.584 1005L 97.907 1.03 247.174
SW -106.068
746 WINDYFLATS -18.797 -4.529 Ckt 67 18.817 967L -9.596 -18.793 -4.535 Ckt 68 18.813 968L -9.589 SW 0.000 1.01 242.666
167 N LETHB4 66.521 -54.282 Ckt 41 -66.192 1041L 46.816 -162.085 -130.036 1.01 242.710
Ckt 40
916L
162.708 132.215
430 W BROOK4 -90.681 -60.913 Ckt 75 91.112 1075L 52.936 -90.681 -60.913 Ckt 31 91.112 931L 52.936 SW -0.000 92.130 15.874 Ckt 51 1051L -92.125 -16.038 92.130 15.874 Ckt 52 1052L -92.125 -16.038 1.04 250.304
918 CASS01 -79.244 -64.692 Ckt 53 79.425 1053L 55.711
225 WARE JCT 1.06 254.219
669 BOWMAN1 -271.617 46.667 Ckt 34 276.375 1034L -22.032 1.03 247.694
1012 NEWELL2 300.708 9.066 Ckt 87 1087L -300.041 -7.172 300.362 36.076 Ckt 88 1088L -300.049 -34.084 -292.453 49.595 Ckt 35 1035L 297.802 -15.686 1.04 250.272
1618 NEWELL 1003.550 -15.780 1.04 249.628
Ckt 75
-1003.550 15.780
1615 HTHFIELD 0.000 0.000 0.000 0.000 EATLP1_HN 0.000 0.000 0.000 0.000 SW -488.196 -967.920 525.953 1.1000 EATLP1_NH 18.43 15.24 1043.520 1.0387 EATL 1.06 541.218
1620 NEWSVCP1 -0.006 -9.830 Ckt 75 0.006 9.830 1.04 249.628
1621 NEWSVCP2 -0.024 -19.596 Ckt 75 0.024 19.596 1.04 249.628
SW -540.923
P2378 Nova Solar Project Connection
FIGURE A3.1-7 N-1: WATL
2023 SUMMER PEAK (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022
Bus – Voltage (kV/pu)
Branch – MW/Mvar
Equipment – MW/Mvar
Ckt/X/Rating
T: 100/0.8/800LV
kV: <=10.000 <=69.000 <=138.000 <=240.000 <=500.000 >500.000



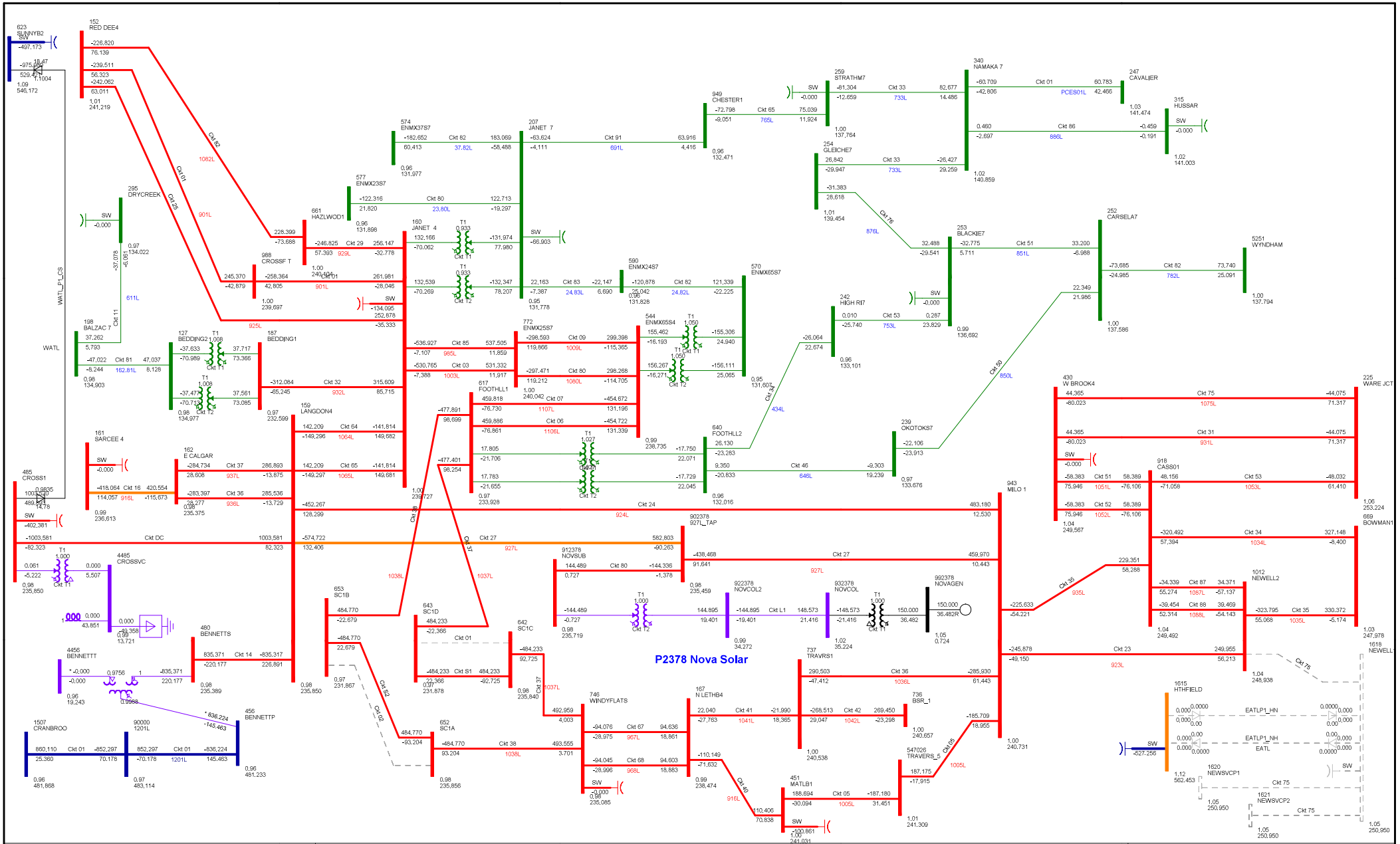
P2378 Nova Solar Project Connection

FIGURE A3.2-1-N-0: NORMAL OPERATION
2023 SUMMER LIGHT (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022



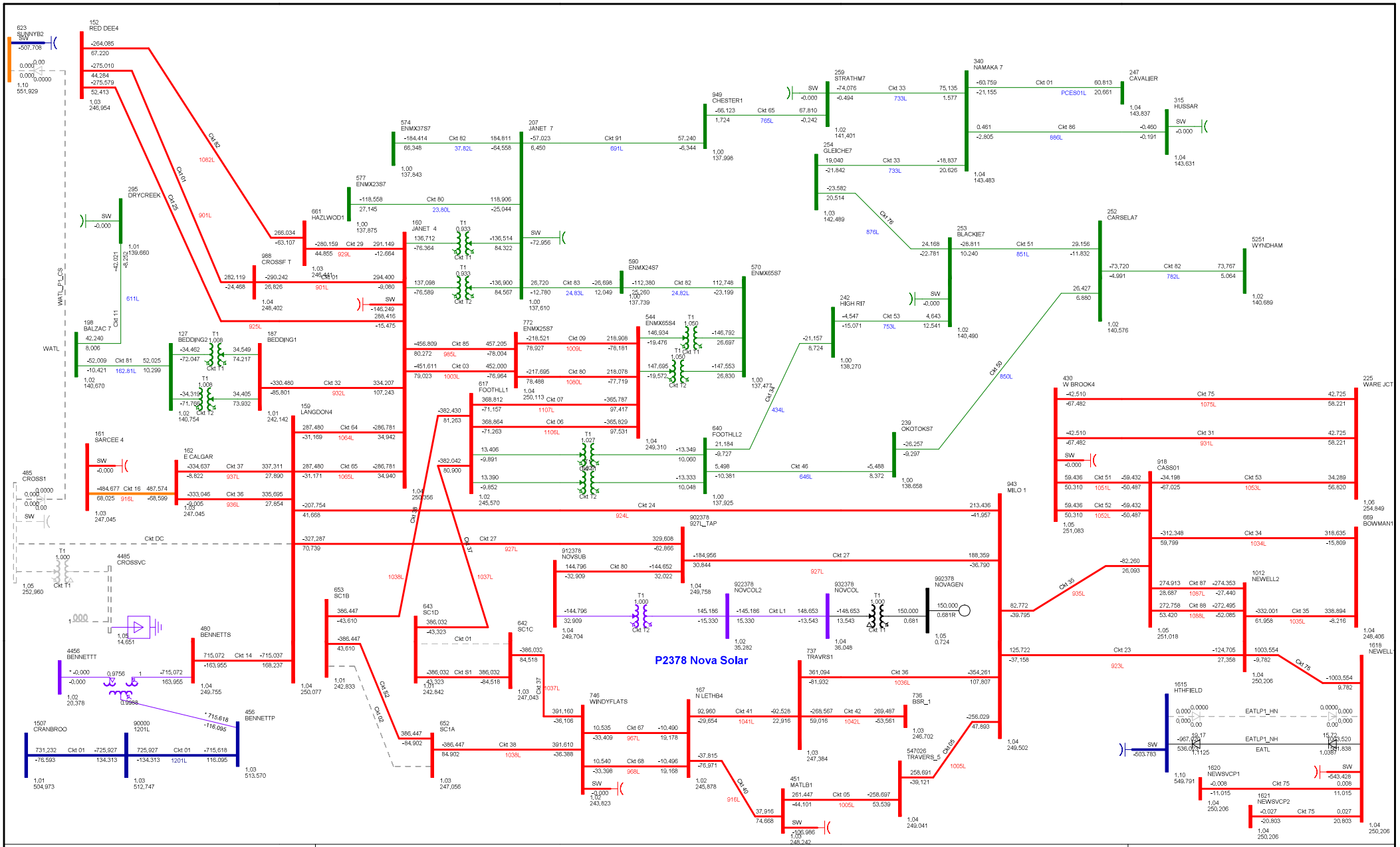
P2378 Nova Solar Project Connection

FIGURE A3.2-2 N-1: 1088L (CASSILS 324S TO NEWELL 2075S)
2023 SUMMER LIGHT (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022



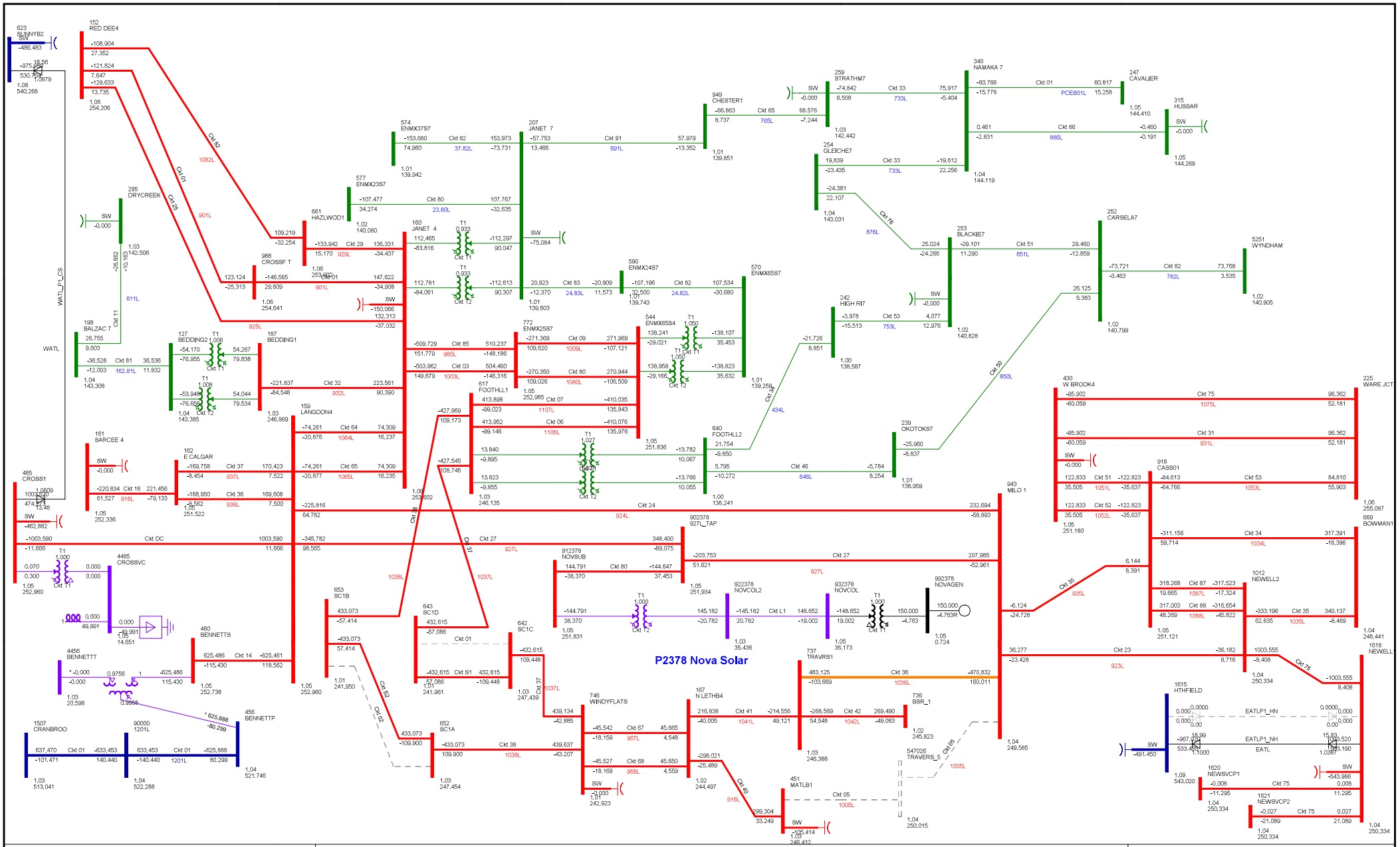
P2378 Nova Solar Project Connection

FIGURE A3.2-3 N-1: EATL
2023 SUMMER LIGHT (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022



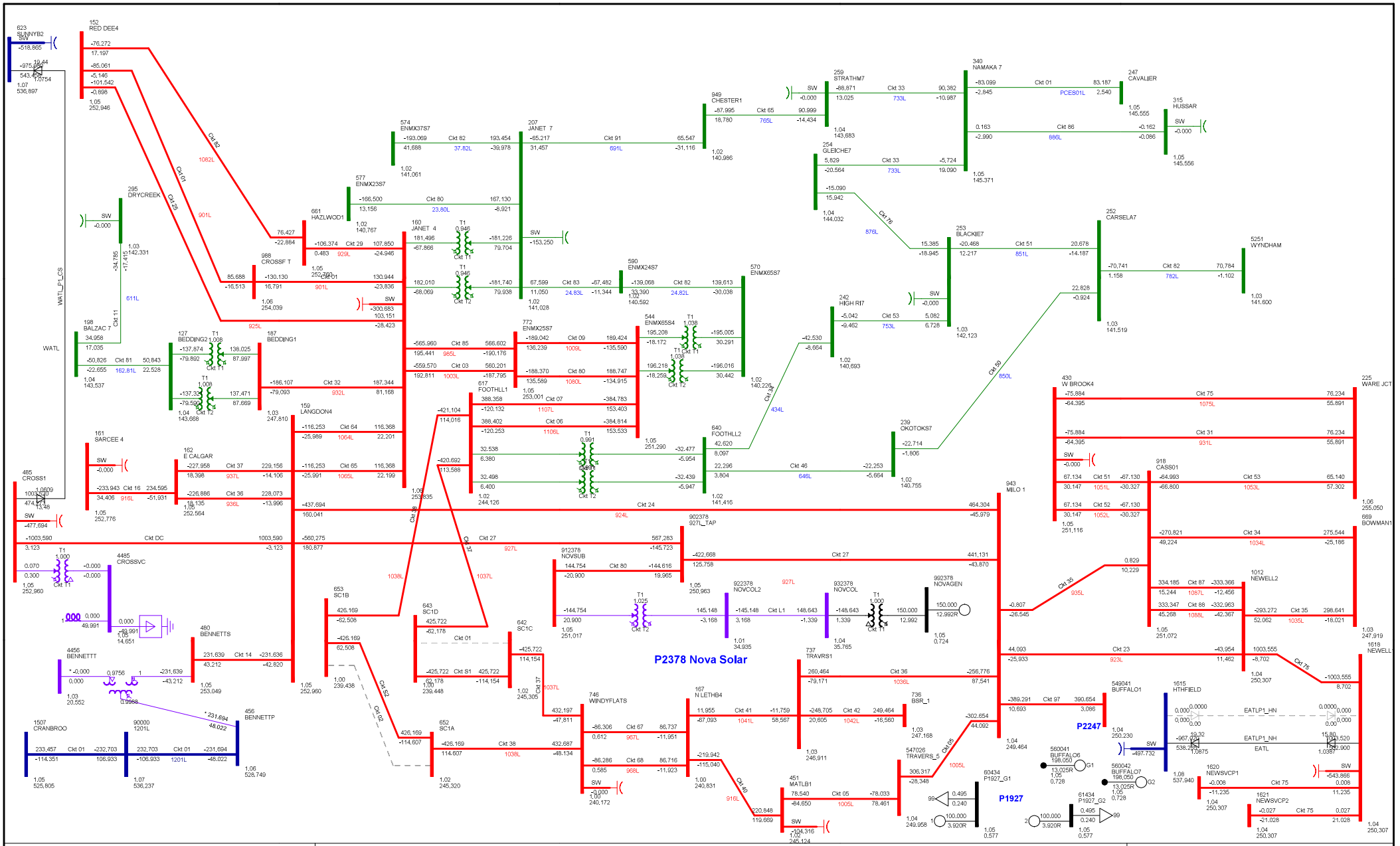
P2378 Nova Solar Project Connection

FIGURE A3.2-4 N-1: WATL
2023 SUMMER LIGHT (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022



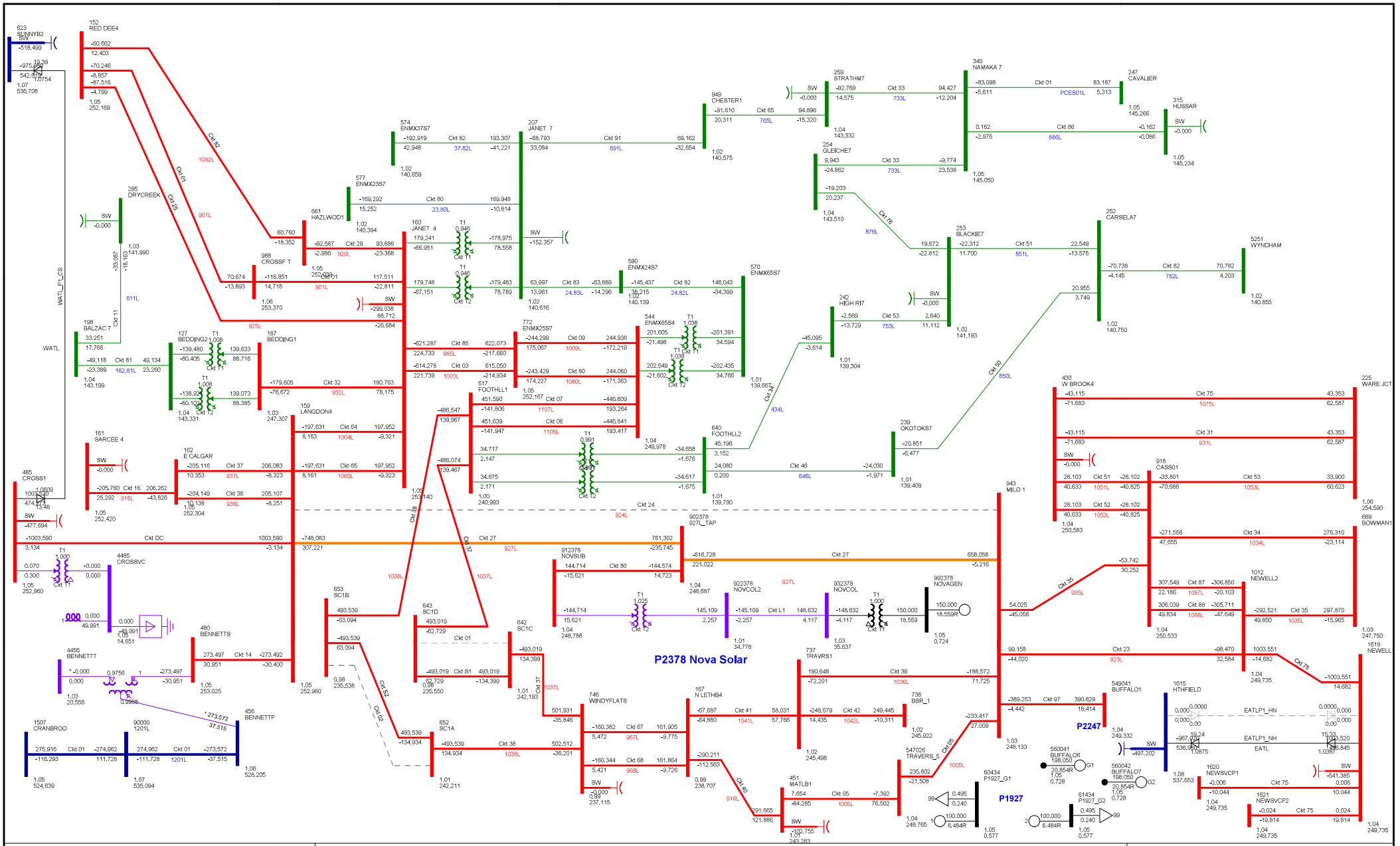
P2378 Nova Solar Project Connection

FIGURE A3.2-5 N-1: 1005L (MILO 356S TO PICTURE BUTTE 120S)
2023 SUMMER LIGHT (POST-CONNECTION) - A1
PRINTED ON SATURDAY 21. MAY 2022



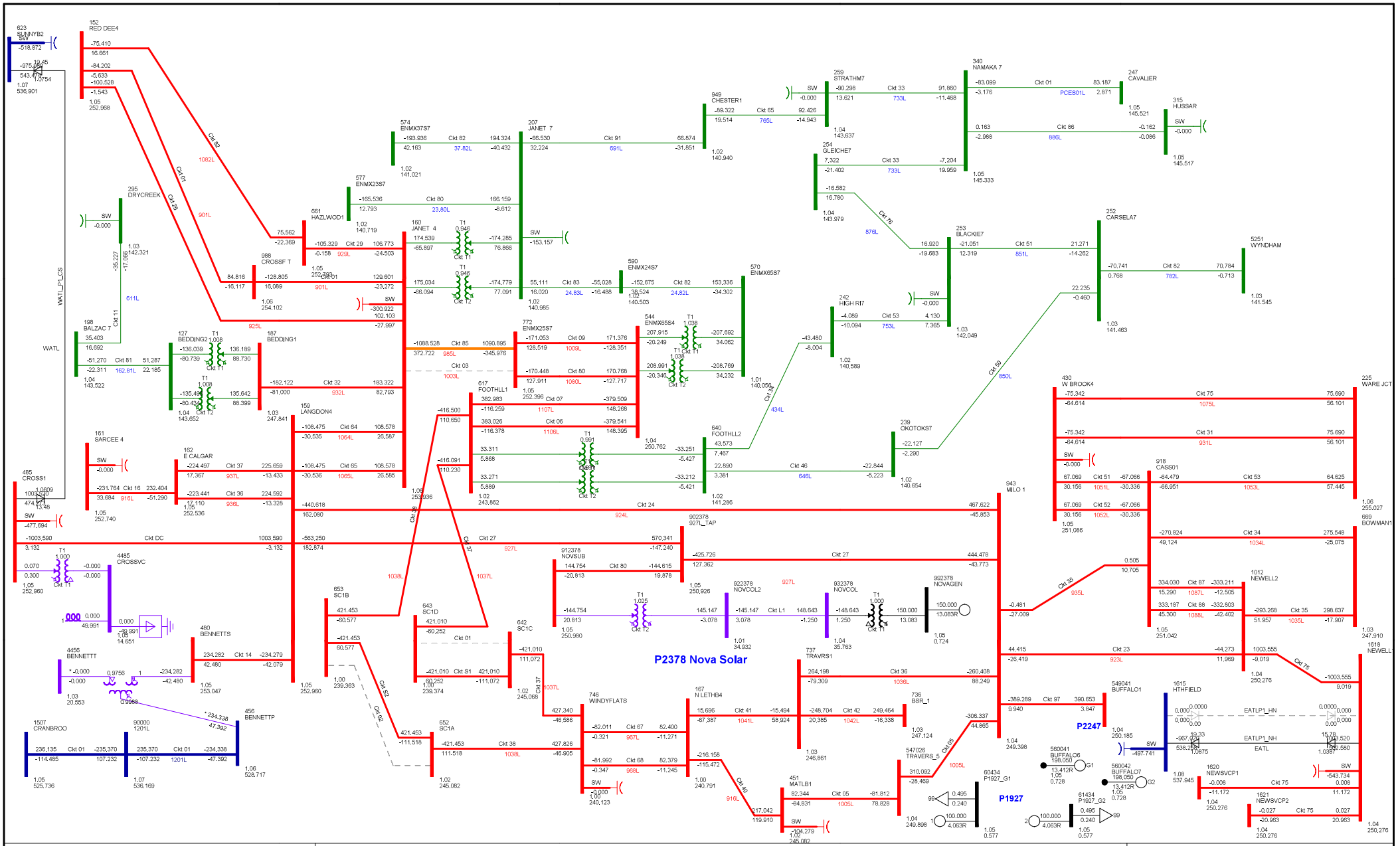
P2378 Nova Solar Project Connection

FIGURE A3.3-1-N-0: NORMAL OPERATION
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



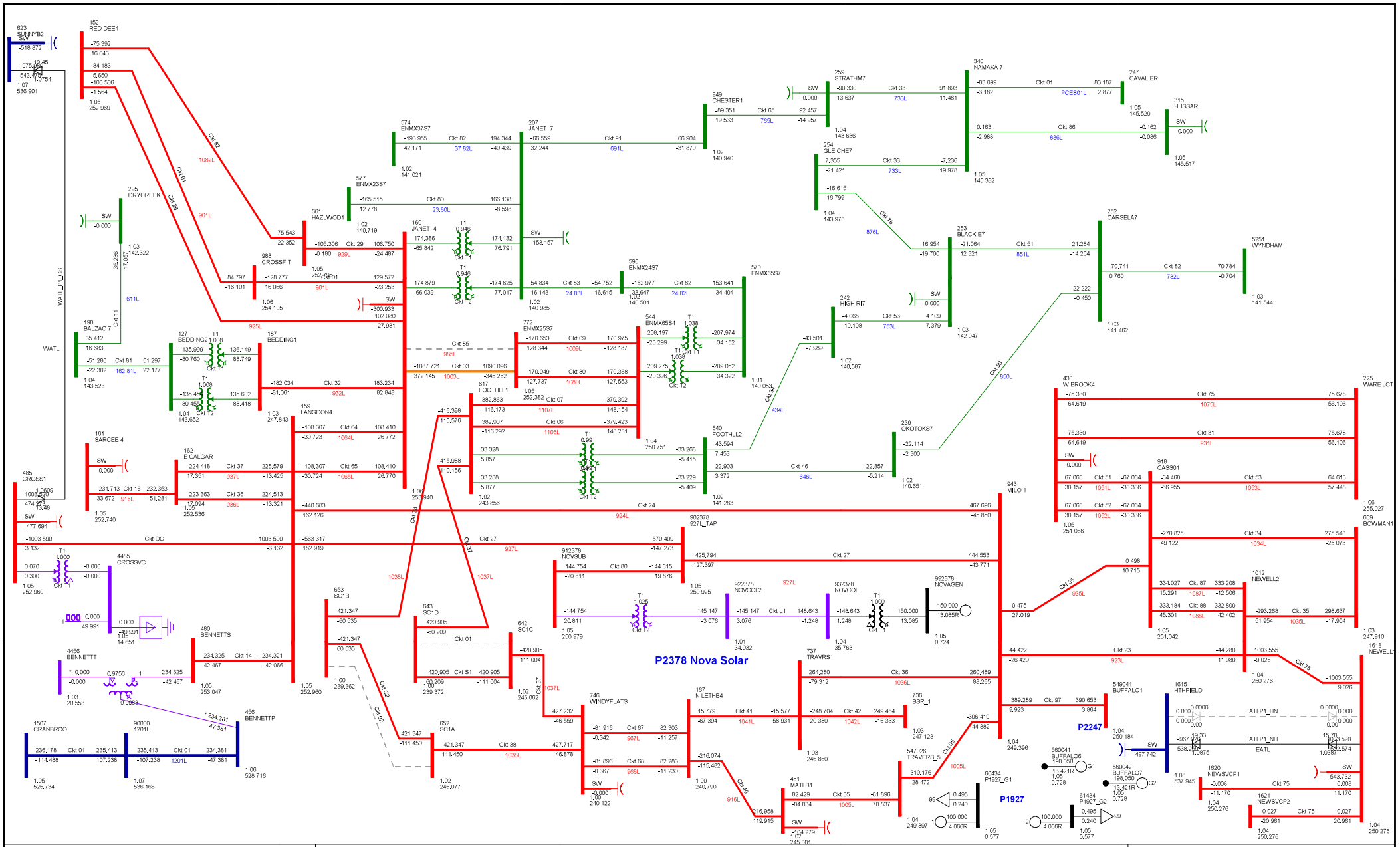
P2378 Nova Solar Project Connection

FIGURE A3.3-2 N-1: 924L (LANGDON 102S TO MILO 356S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



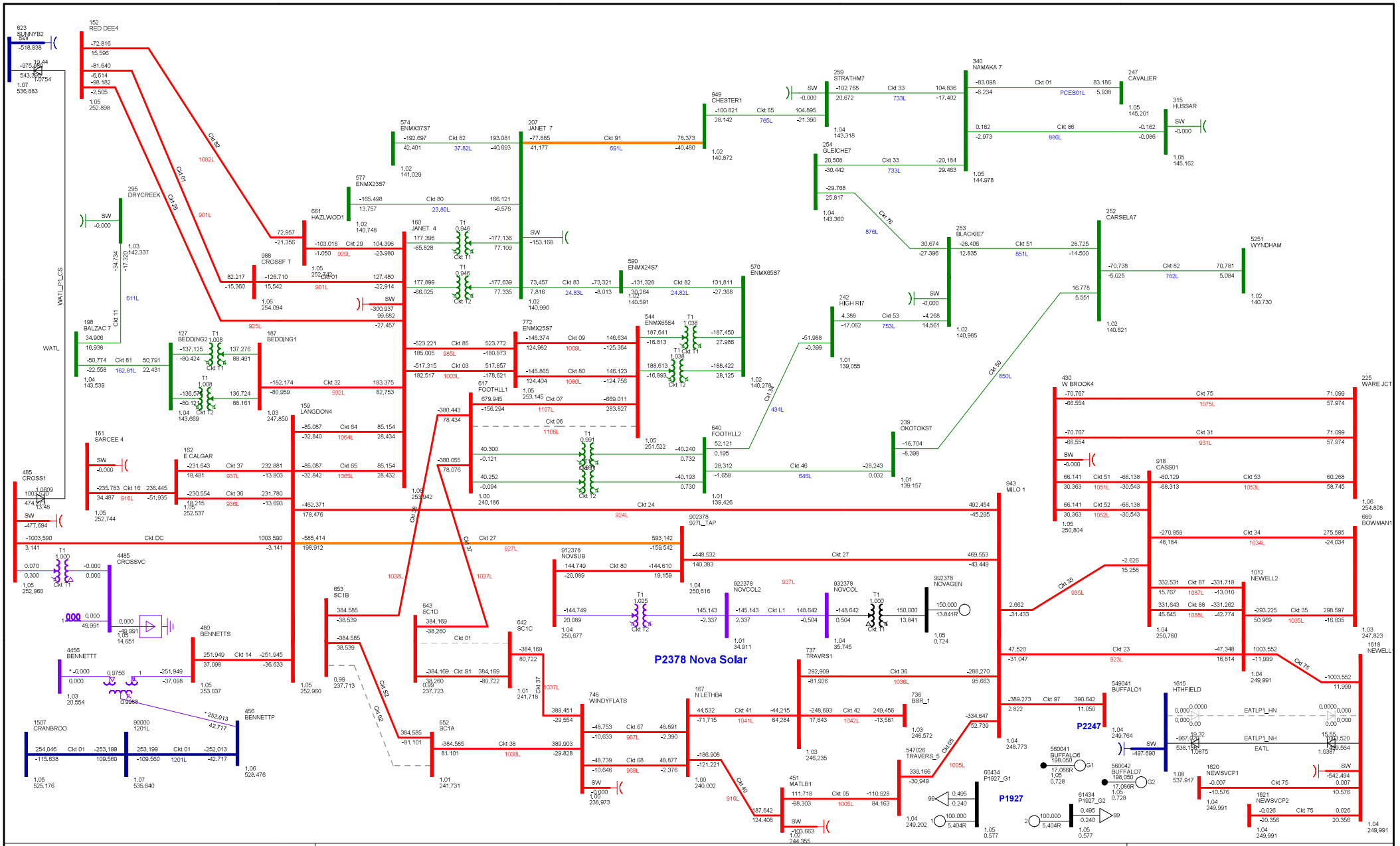
P2378 Nova Solar Project Connection

FIGURE A3.3-3 N-1: 1003L (JANET 7S TO ENMAX 25)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



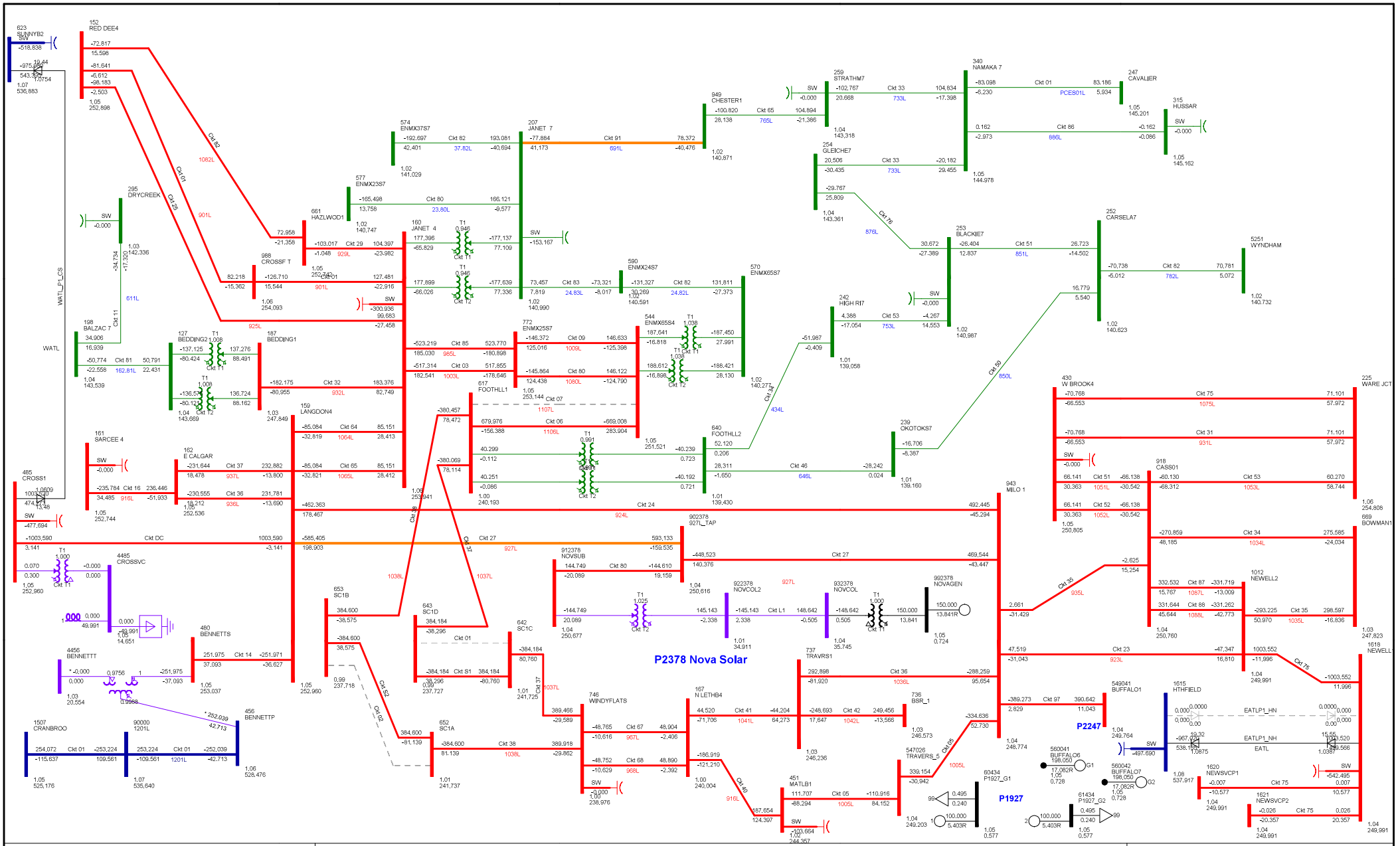
P2378 Nova Solar Project Connection

FIGURE A3.3-4 N-1: 985L (JANET 74S TO ENMAX 25)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



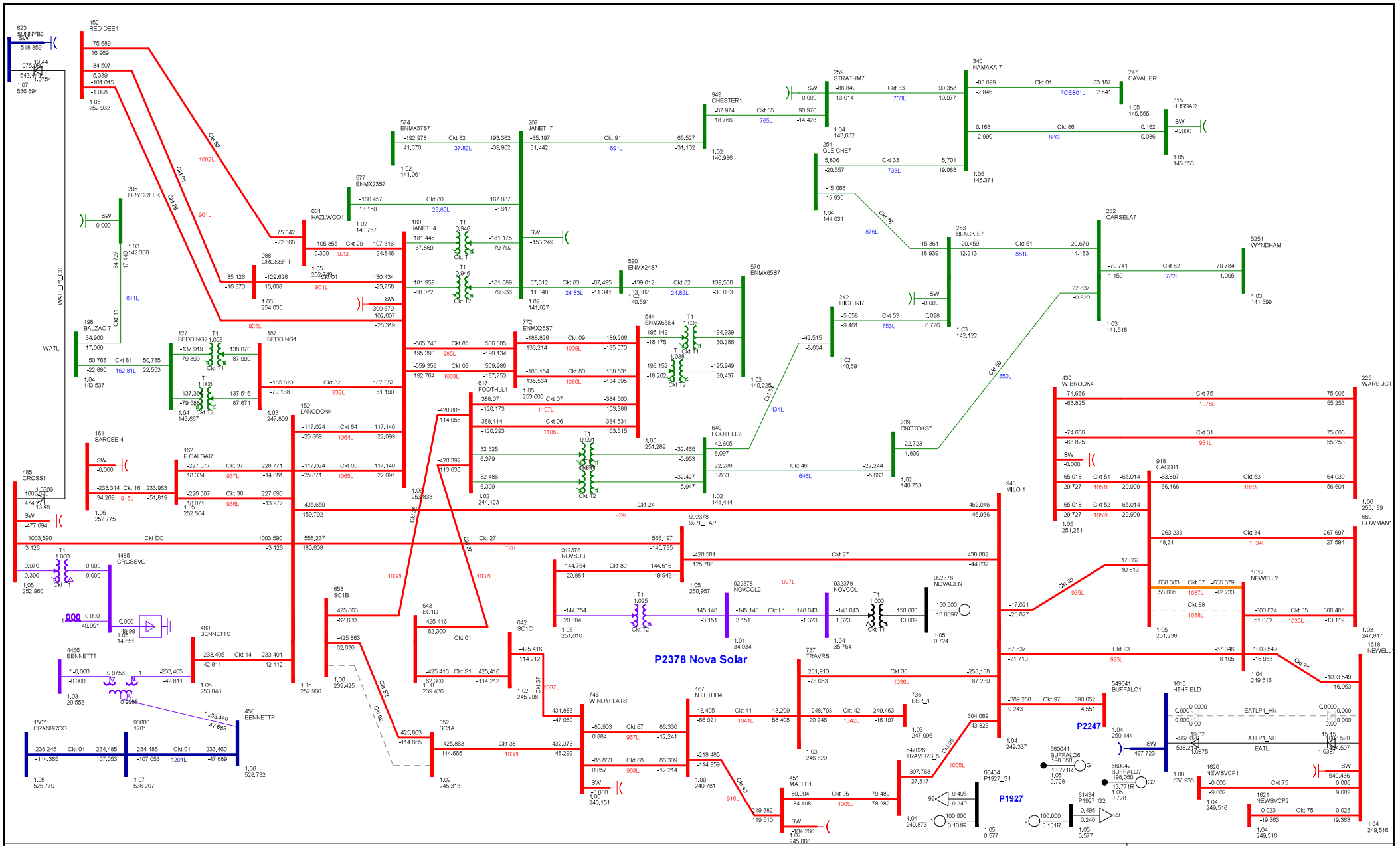
P2378 Nova Solar Project Connection

FIGURE A3.3-5 N-1: 1106L (ENMAX 65 TO FOOTHILLS 237S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



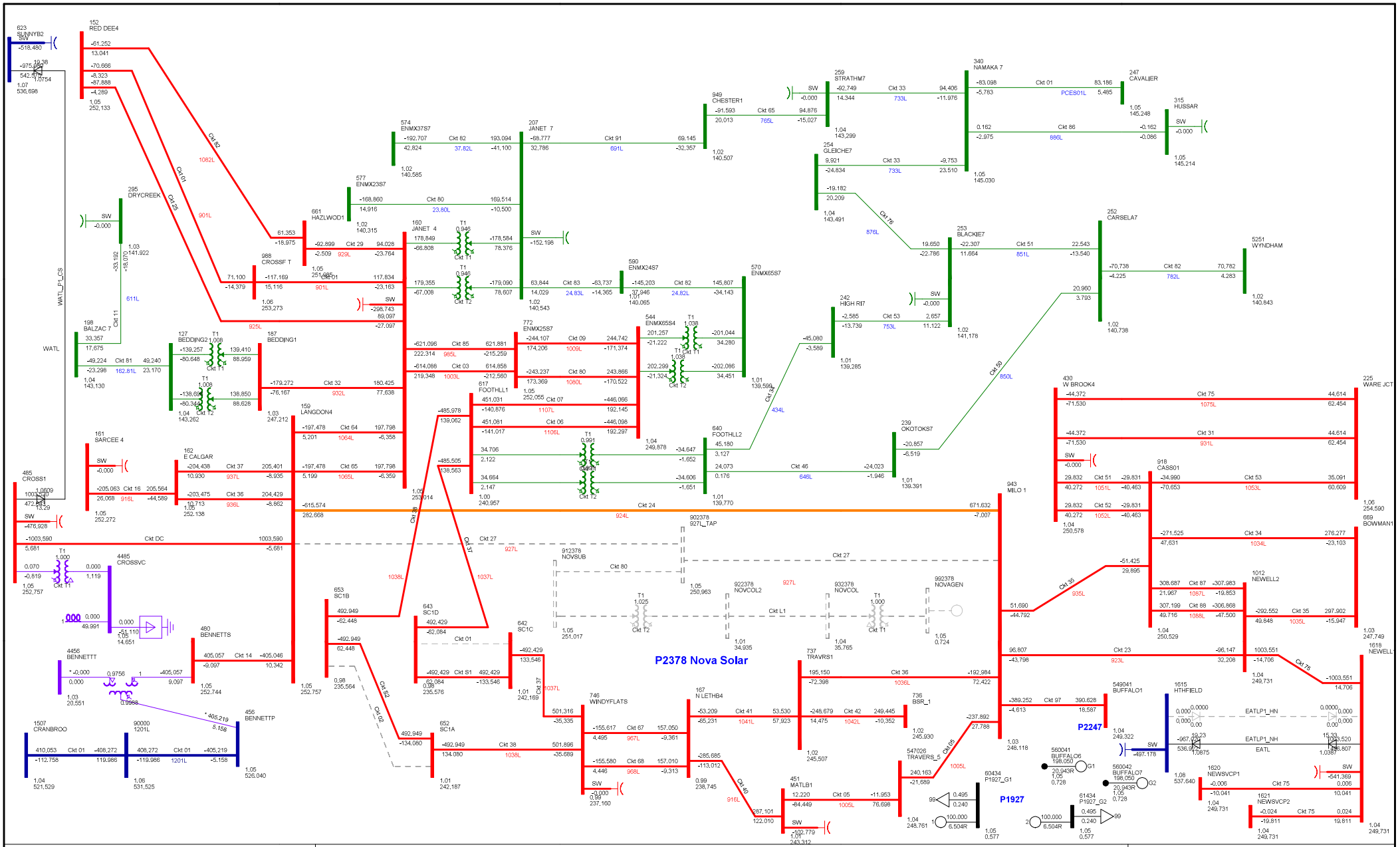
P2378 Nova Solar Project Connection

FIGURE A3.3-6 N-1: 1107L (ENMAX 65 TO FOOTHILLS 237S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



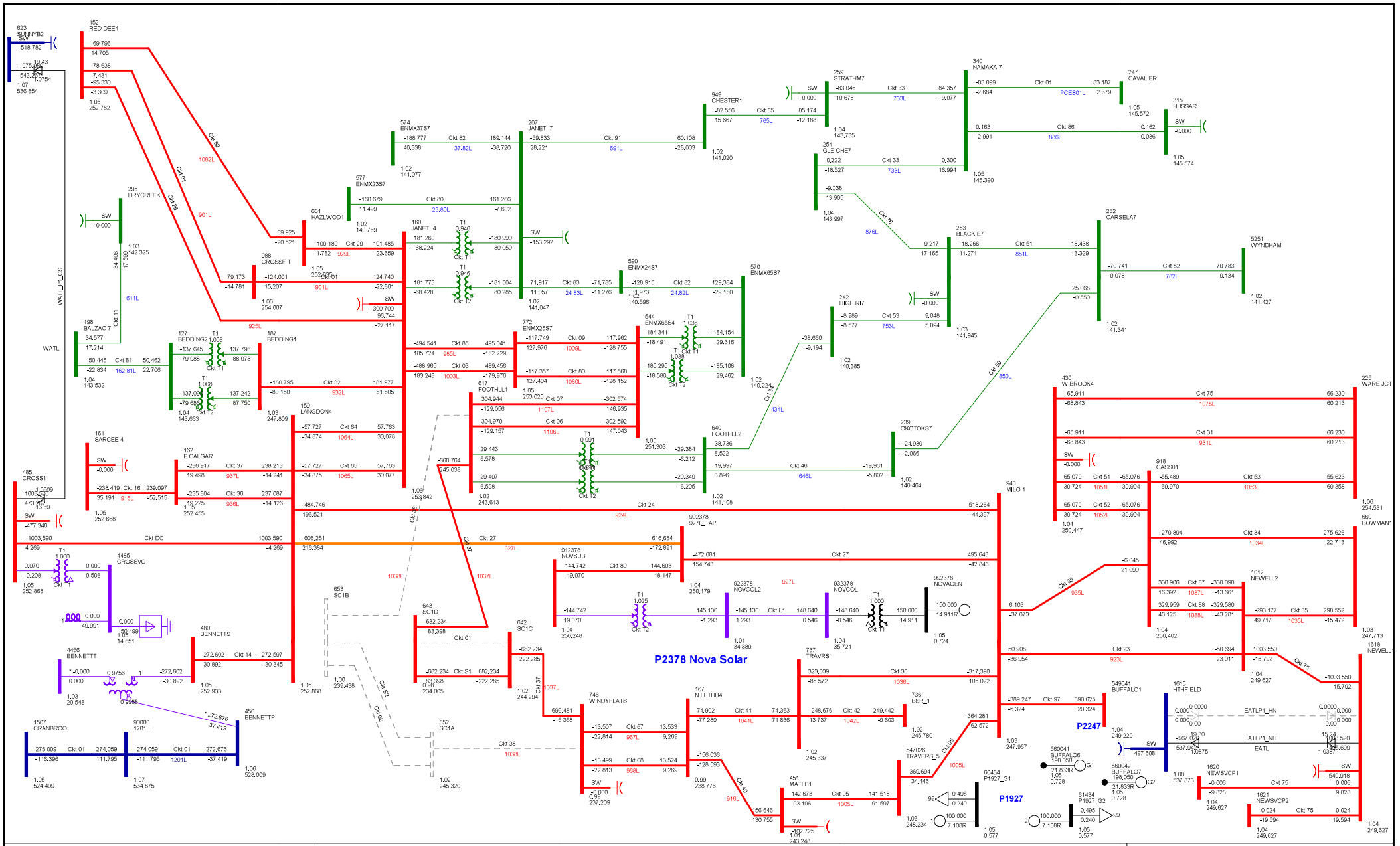
P2378 Nova Solar Project Connection

FIGURE A3.3-7 N-1: 1088L (CASSILS 324S TO NEWELL 2075S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



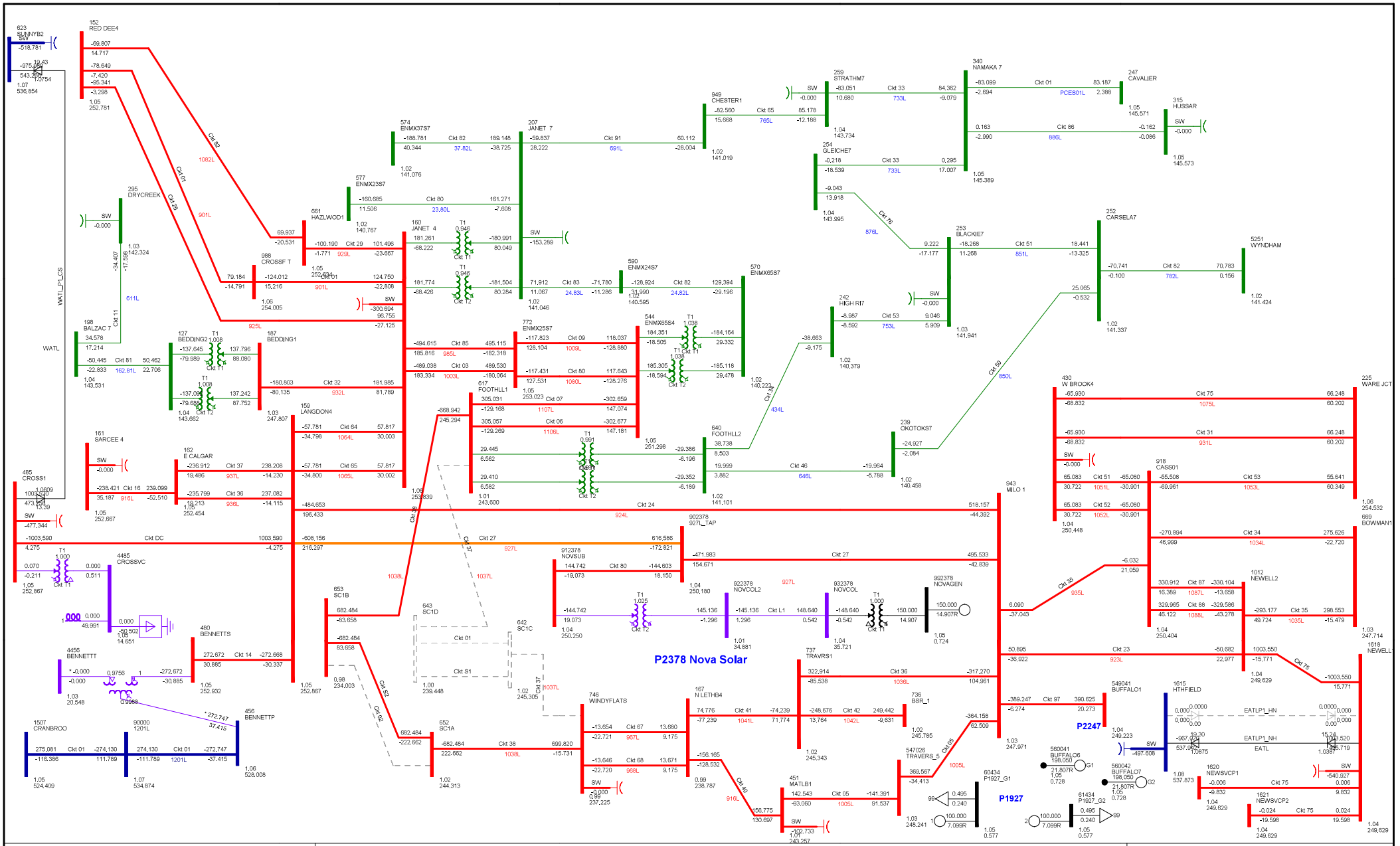
P2378 Nova Solar Project Connection

FIGURE A3.3-8 N-1: 927L (LANGDON 102S TO MILO 356S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



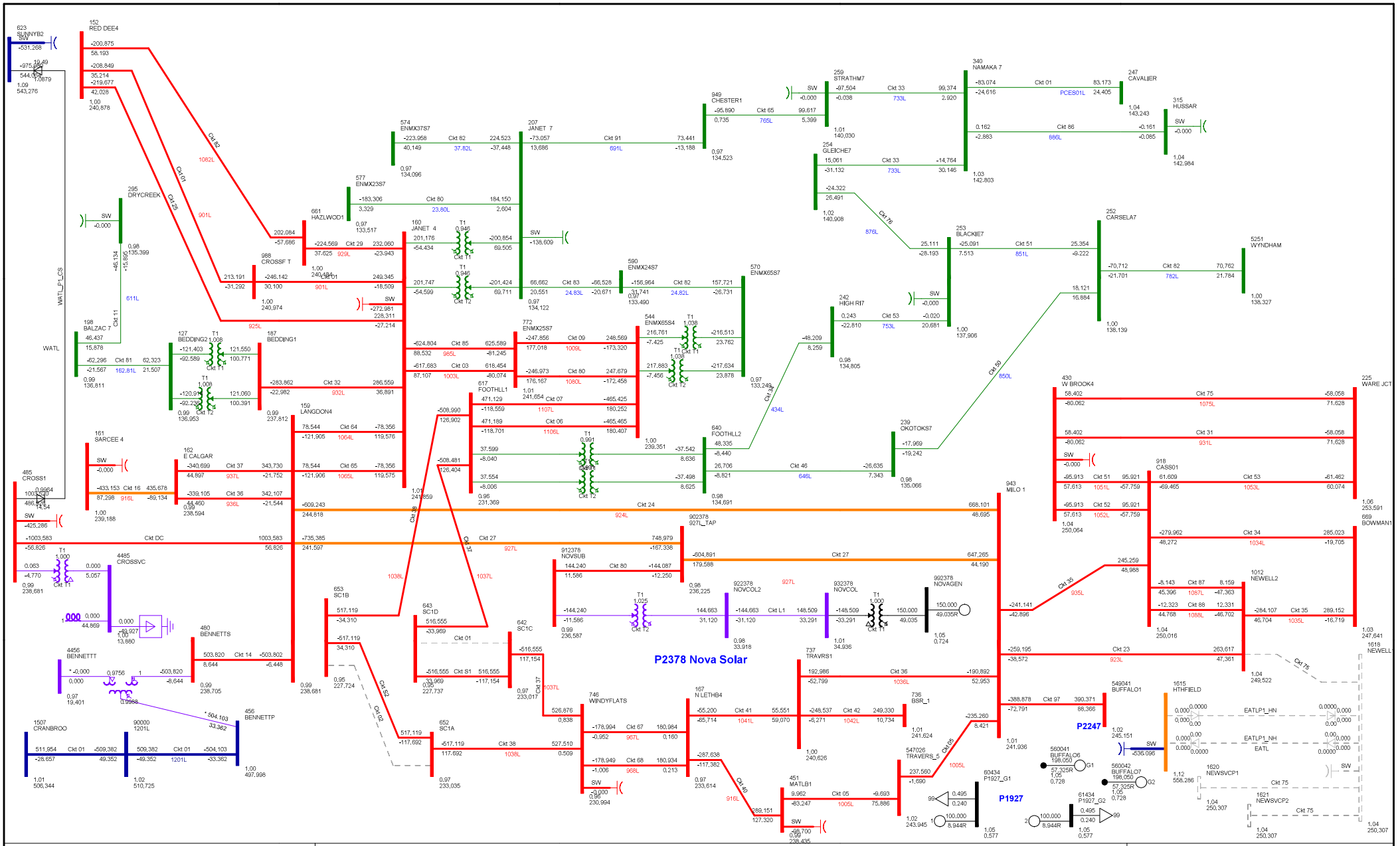
P2378 Nova Solar Project Connection

FIGURE A3.3-9 N-1: 1038L (FOOTHILLS 237S TO WINDY FLATS 138S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



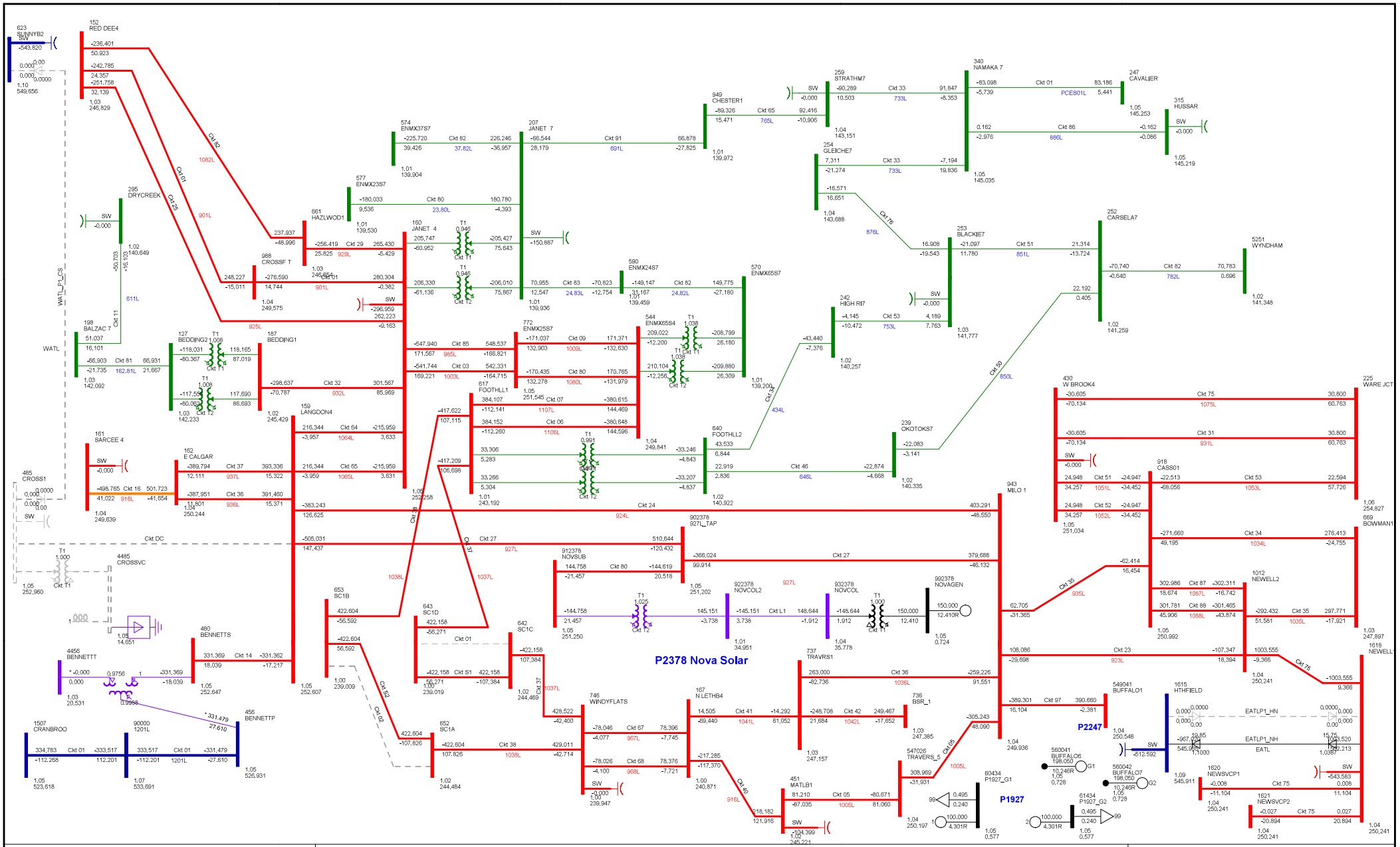
P2378 Nova Solar Project Connection

FIGURE A3.3-10 N-1: 1037L (FOOTHILLS 237S TO WINDY FLATS 138S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



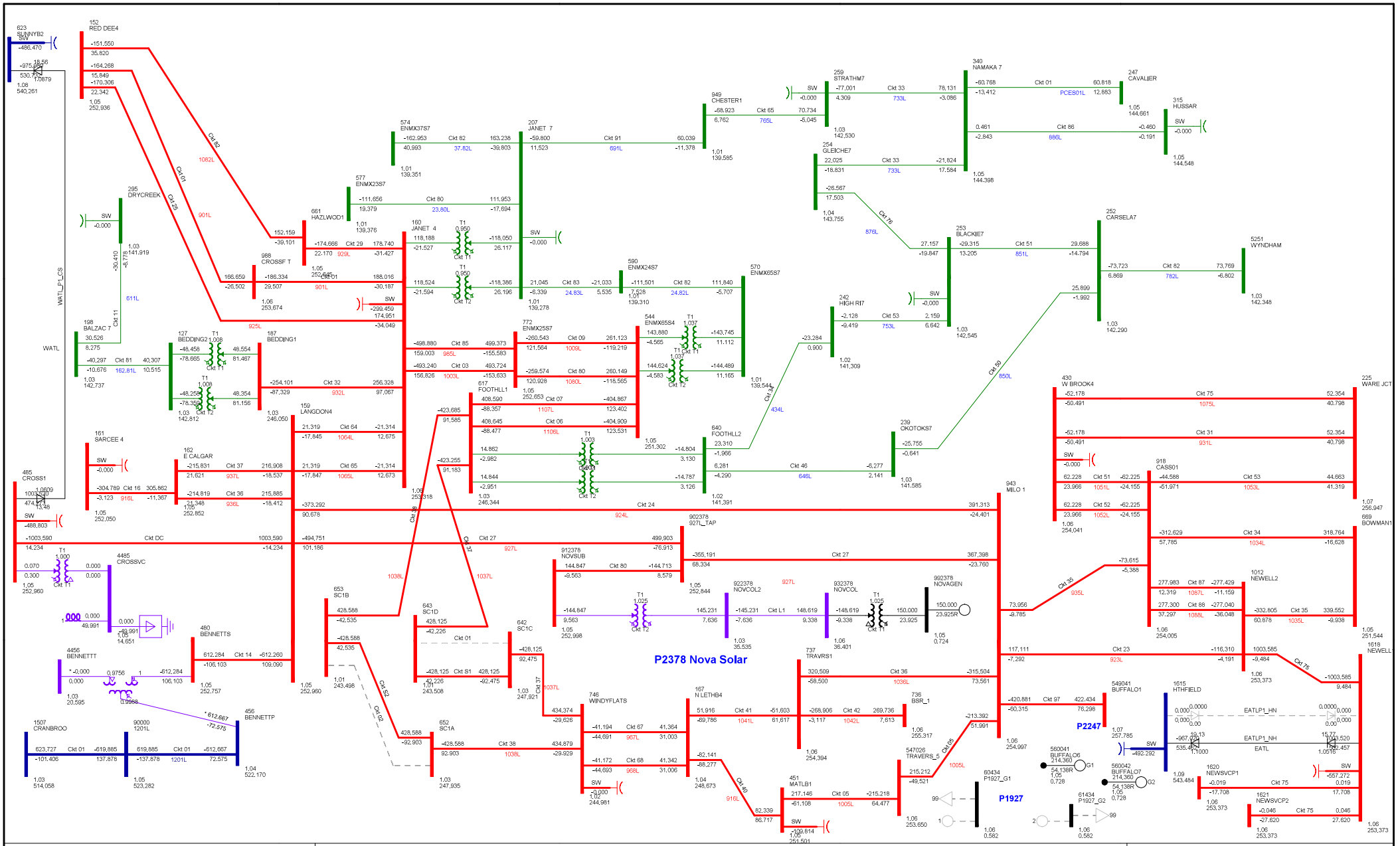
P2378 Nova Solar Project Connection

FIGURE A3.3-11 N-1: EATL
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



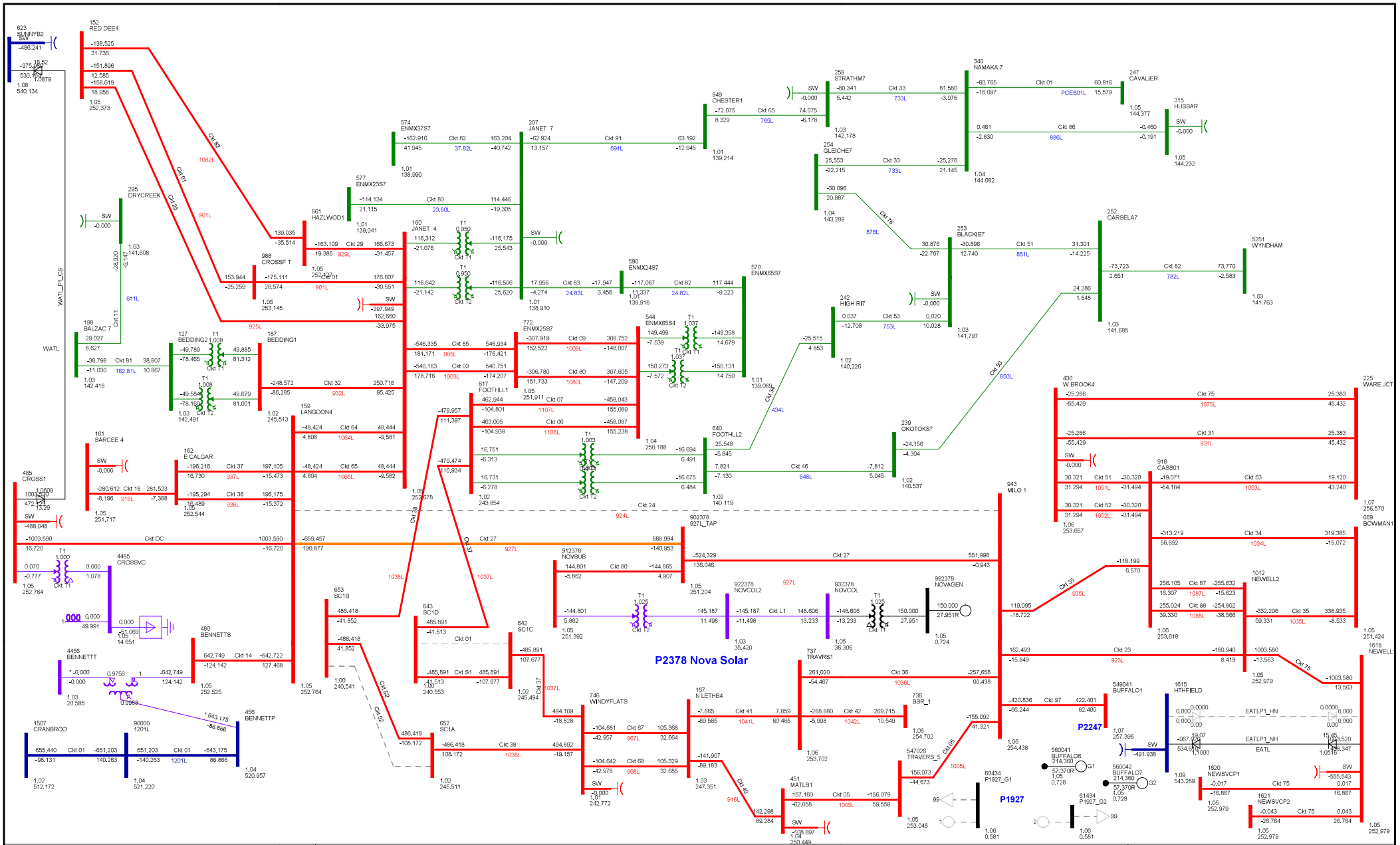
P2378 Nova Solar Project Connection

FIGURE A3.3-12 N-1: WATL
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



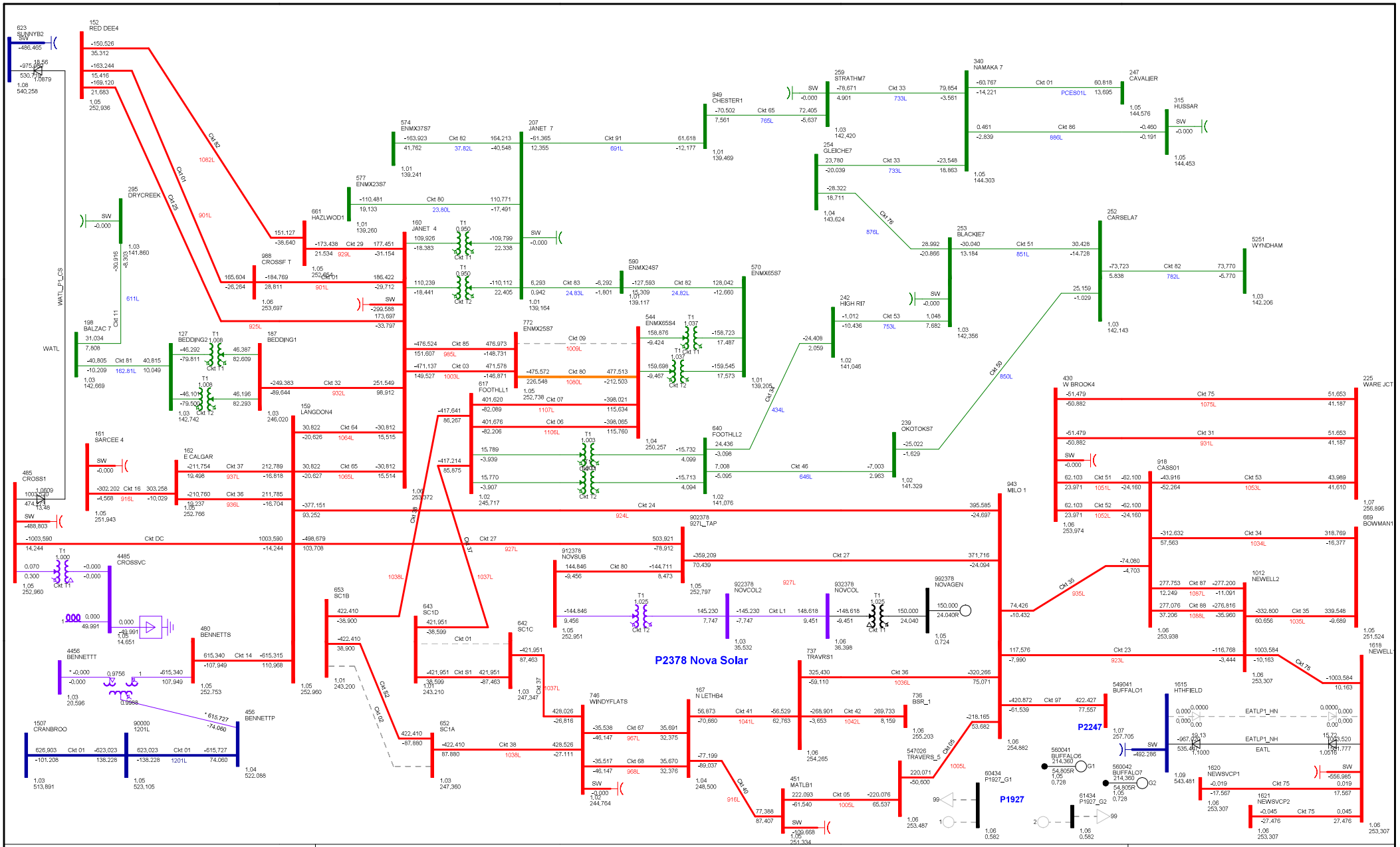
P2378 Nova Solar Project Connection

FIGURE A3.4-1-N-0: NORMAL OPERATION
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



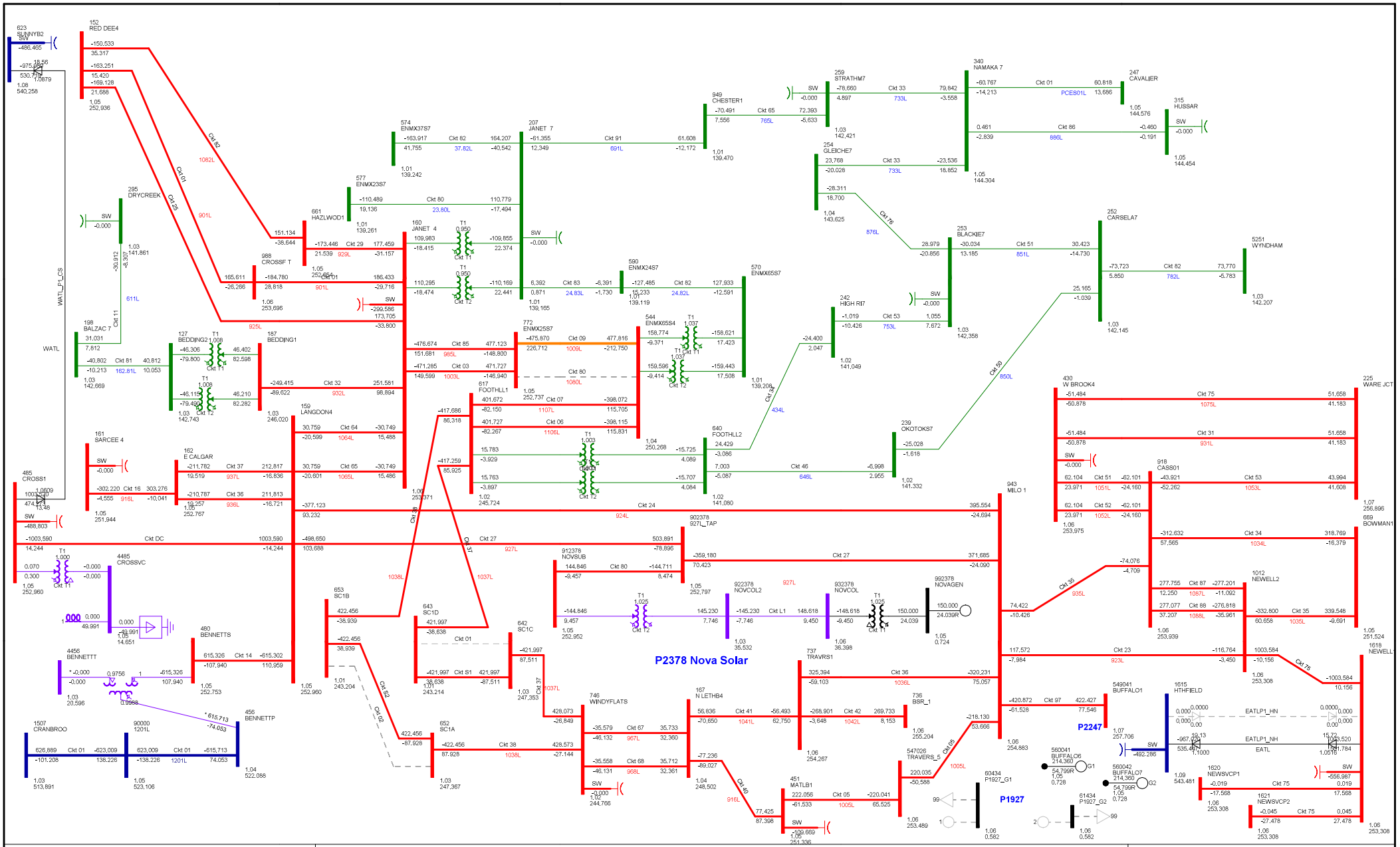
P2378 Nova Solar Project Connection

FIGURE A3.4-2 N-1: 924L (LANGDON 102S TO MILO 356S)
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



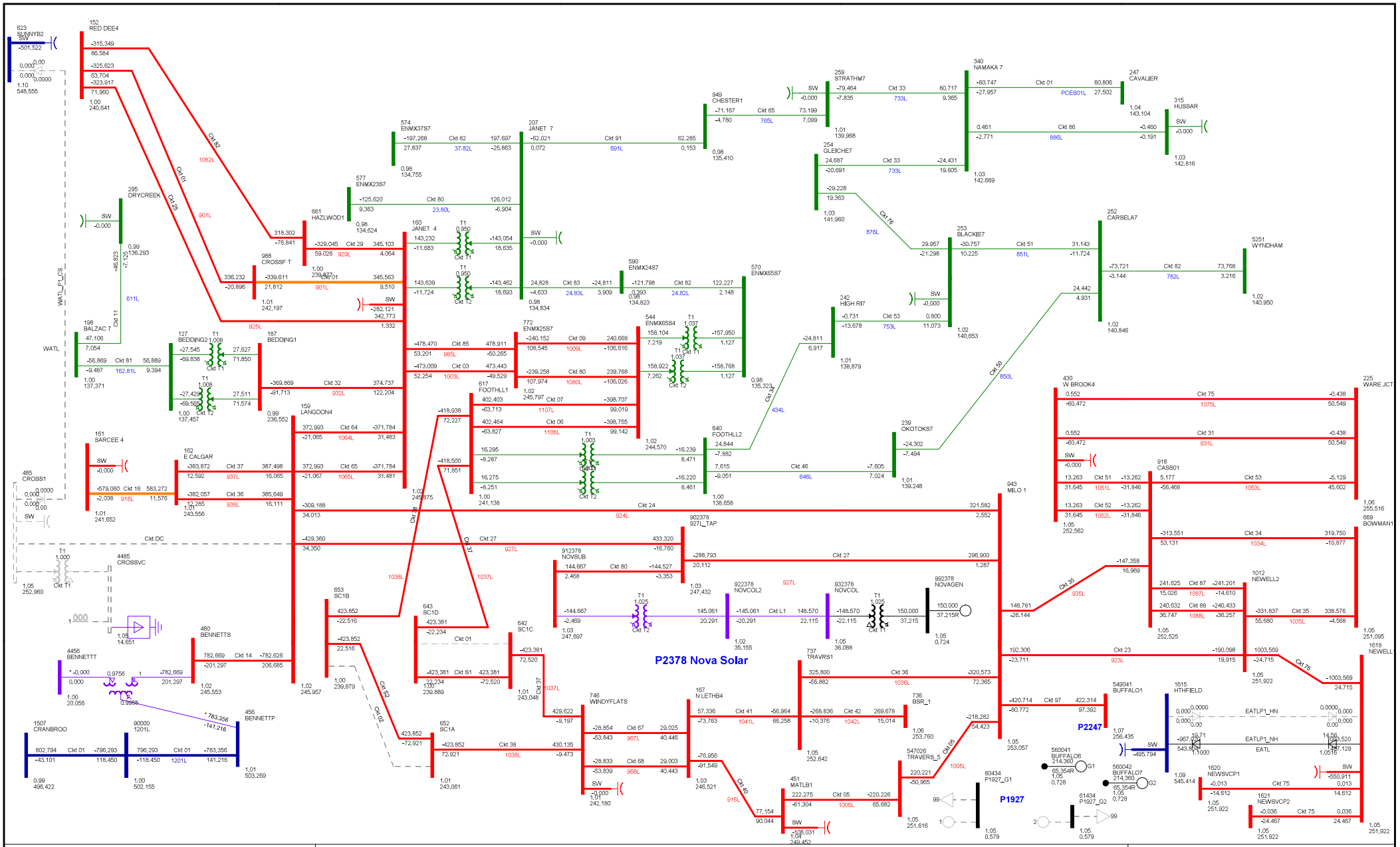
P2378 Nova Solar Project Connection

FIGURE A3.4-3 N-1: 1109L (ENMAX 65 TO ENMAX 25)
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



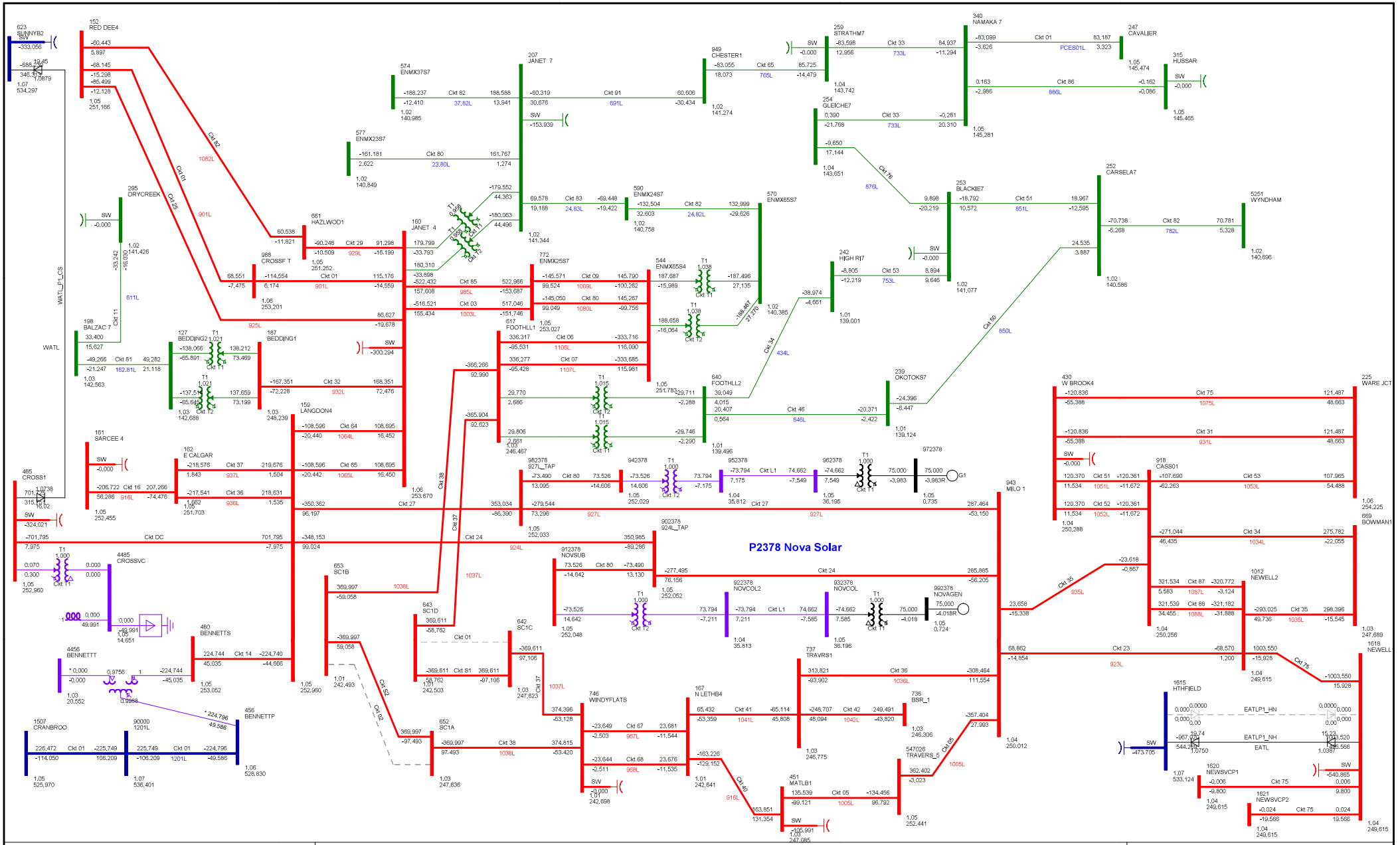
P2378 Nova Solar Project Connection

FIGURE A3.4-4 N-1: 1080L (ENMAX 65 TO ENMAX 25)
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



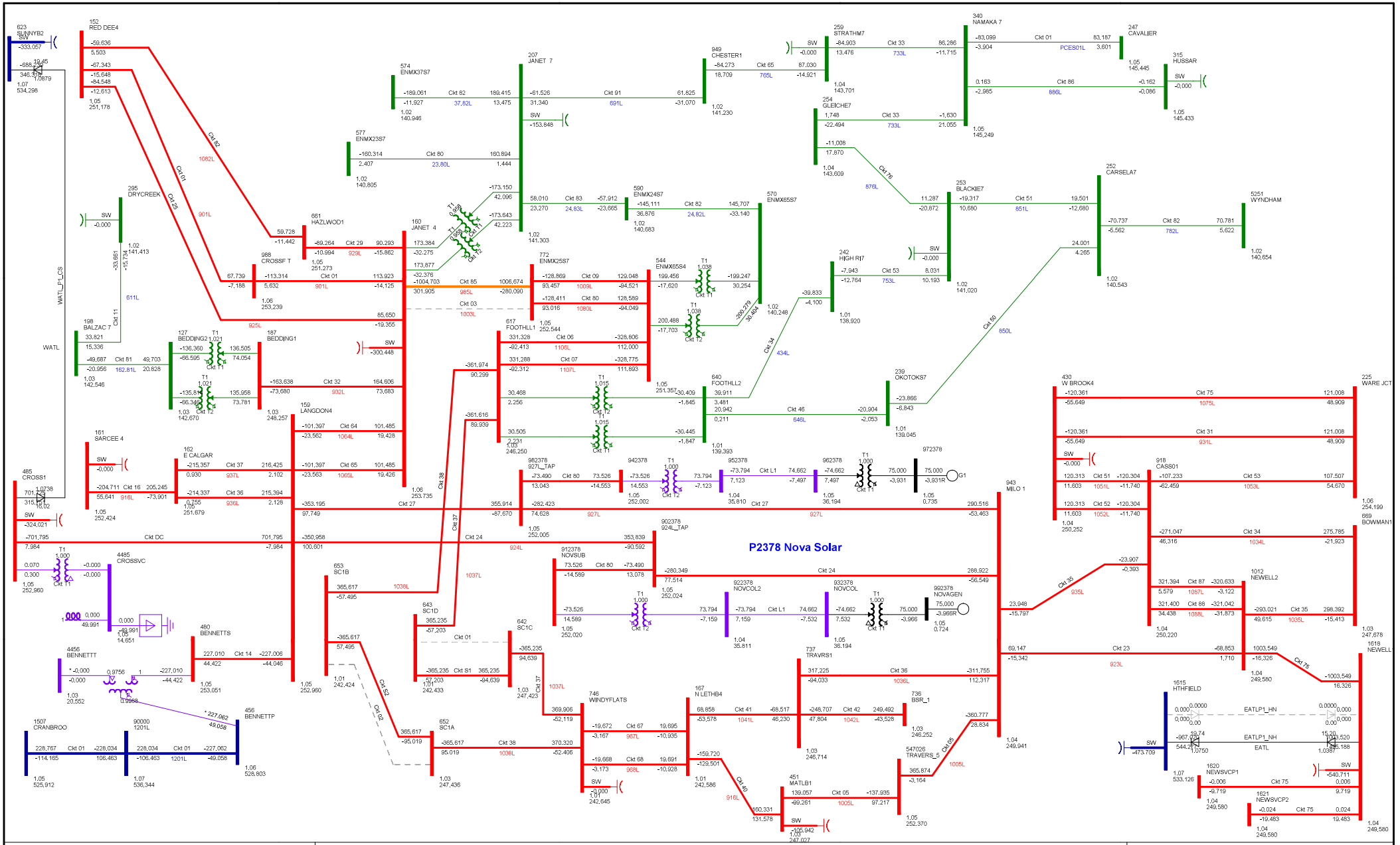
P2378 Nova Solar Project Connection

FIGURE A3.4-5 N-1: WATL
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



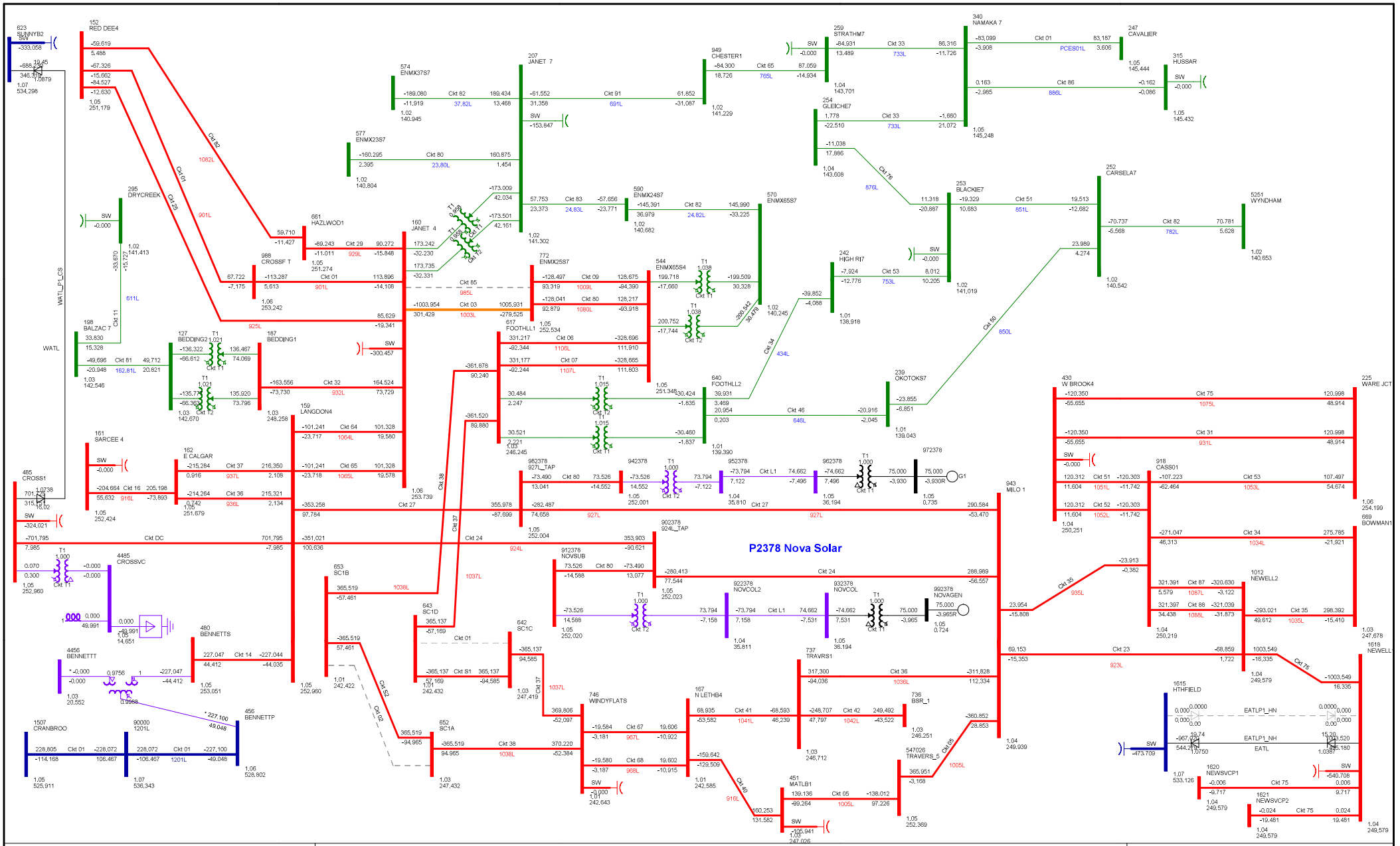
P2378 Nova Solar Project Connection

FIGURE A3.5-1-N-0: NORMAL OPERATION
2023 SUMMER PEAK (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



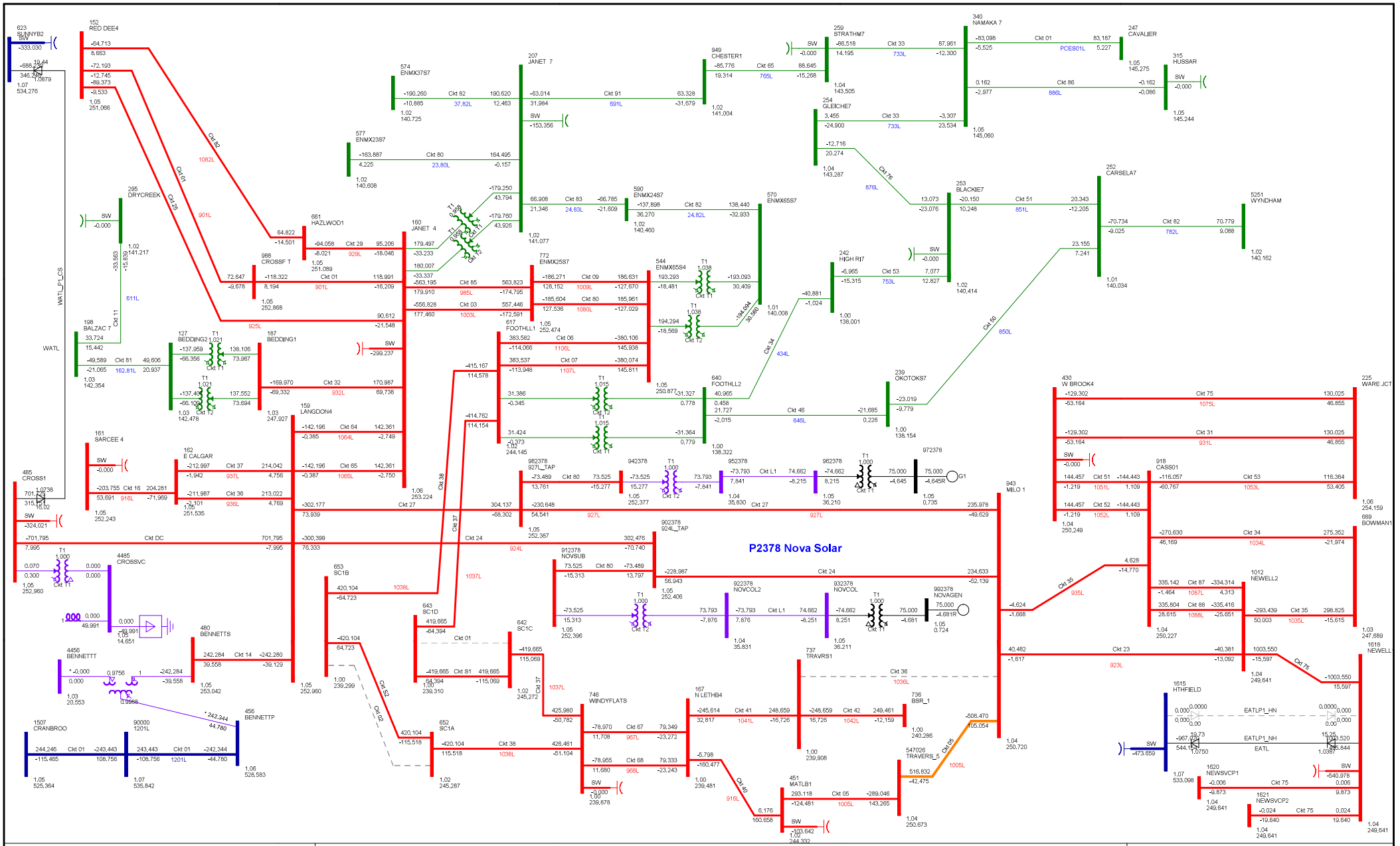
P2378 Nova Solar Project Connection

FIGURE A3.5-2 N-1: 1003L (JANET 74S TO ENMAX 25)
2023 SUMMER PEAK (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



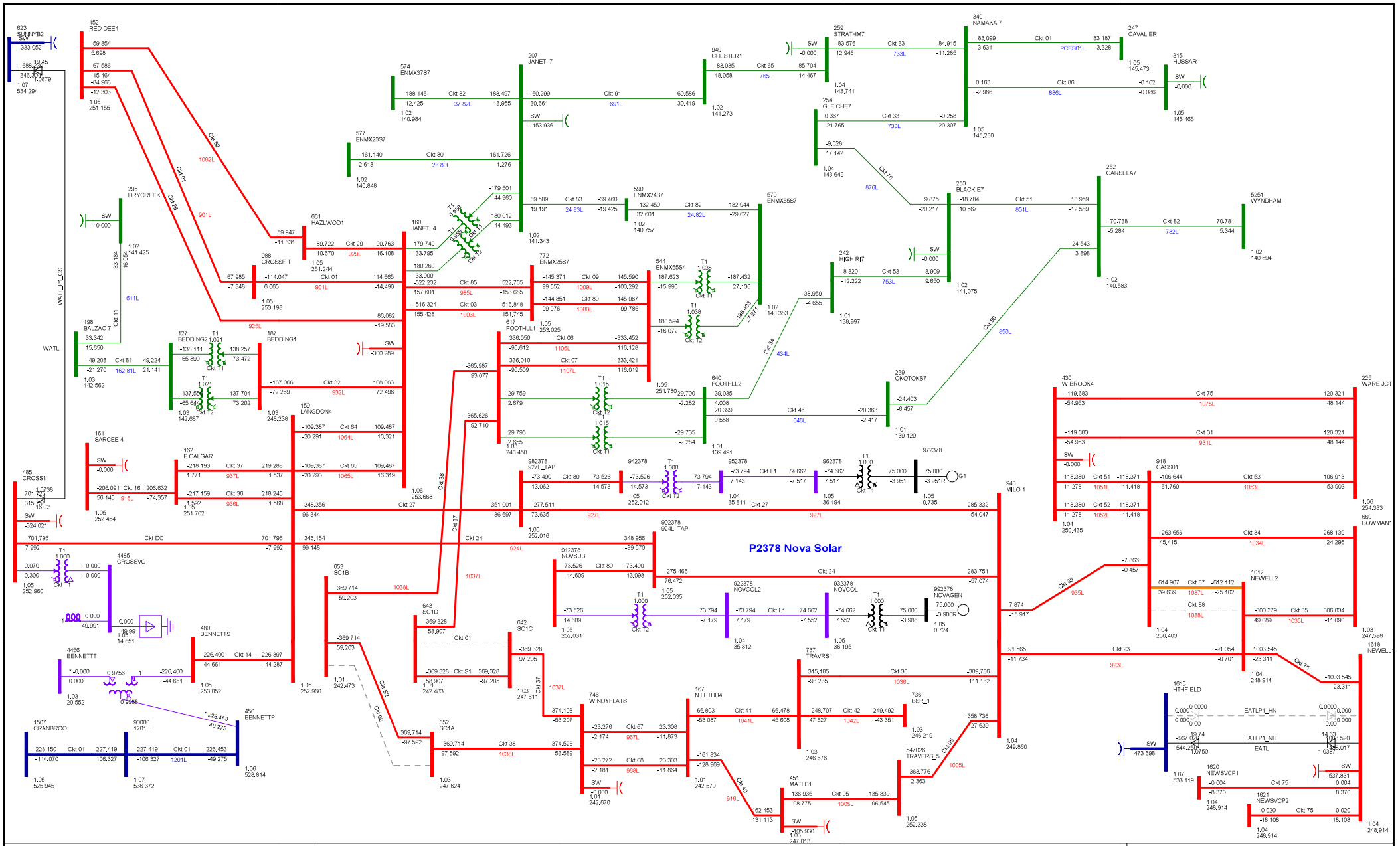
P2378 Nova Solar Project Connection

FIGURE A3.5-3 N-1: 985L (JANET 74S TO ENMAX 25)
2023 SUMMER PEAK (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



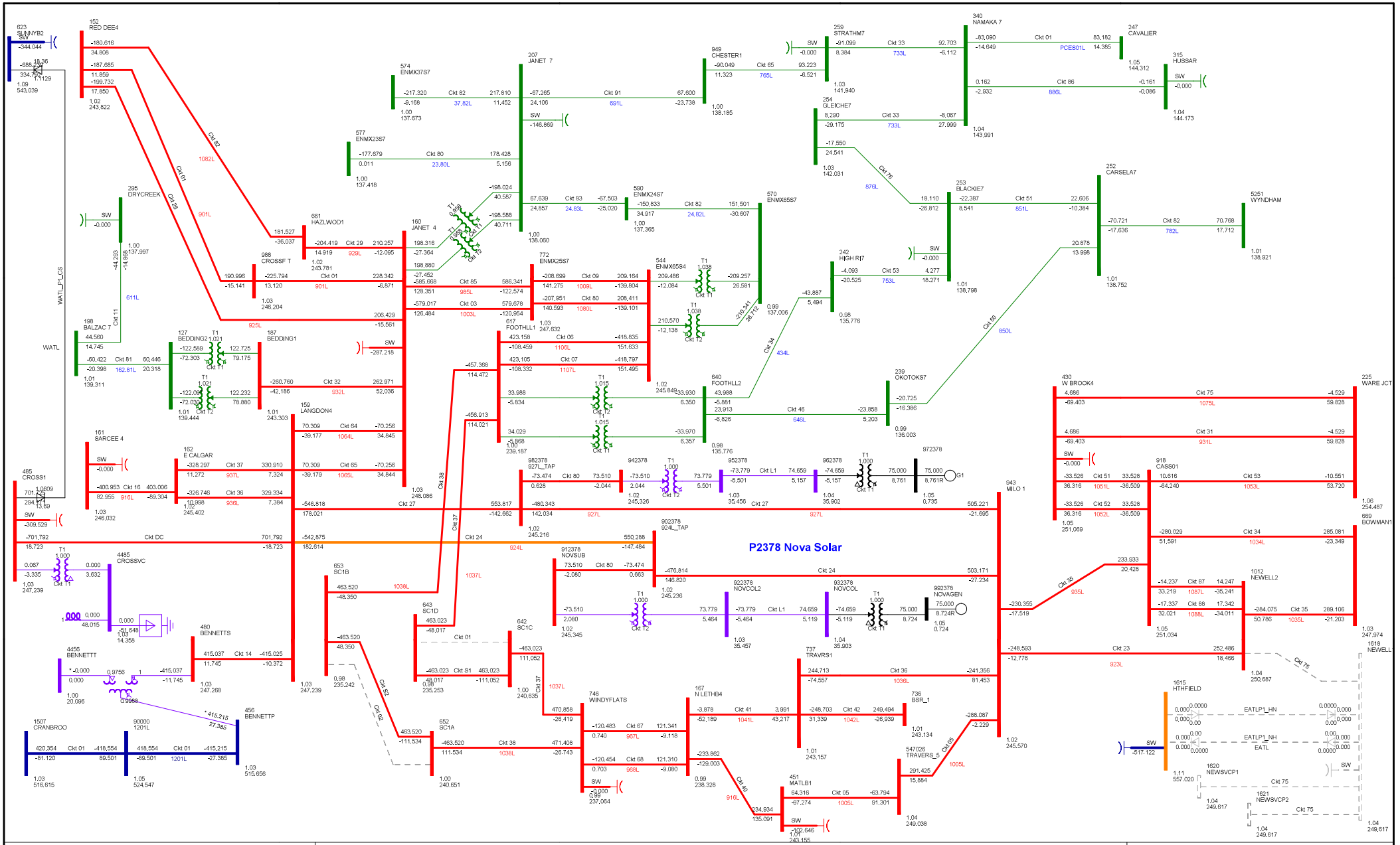
P2378 Nova Solar Project Connection

FIGURE A3.5-4 N-1: 1036L (MILO 356S TO TRAVERS 554S)
2023 SUMMER PEAK (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



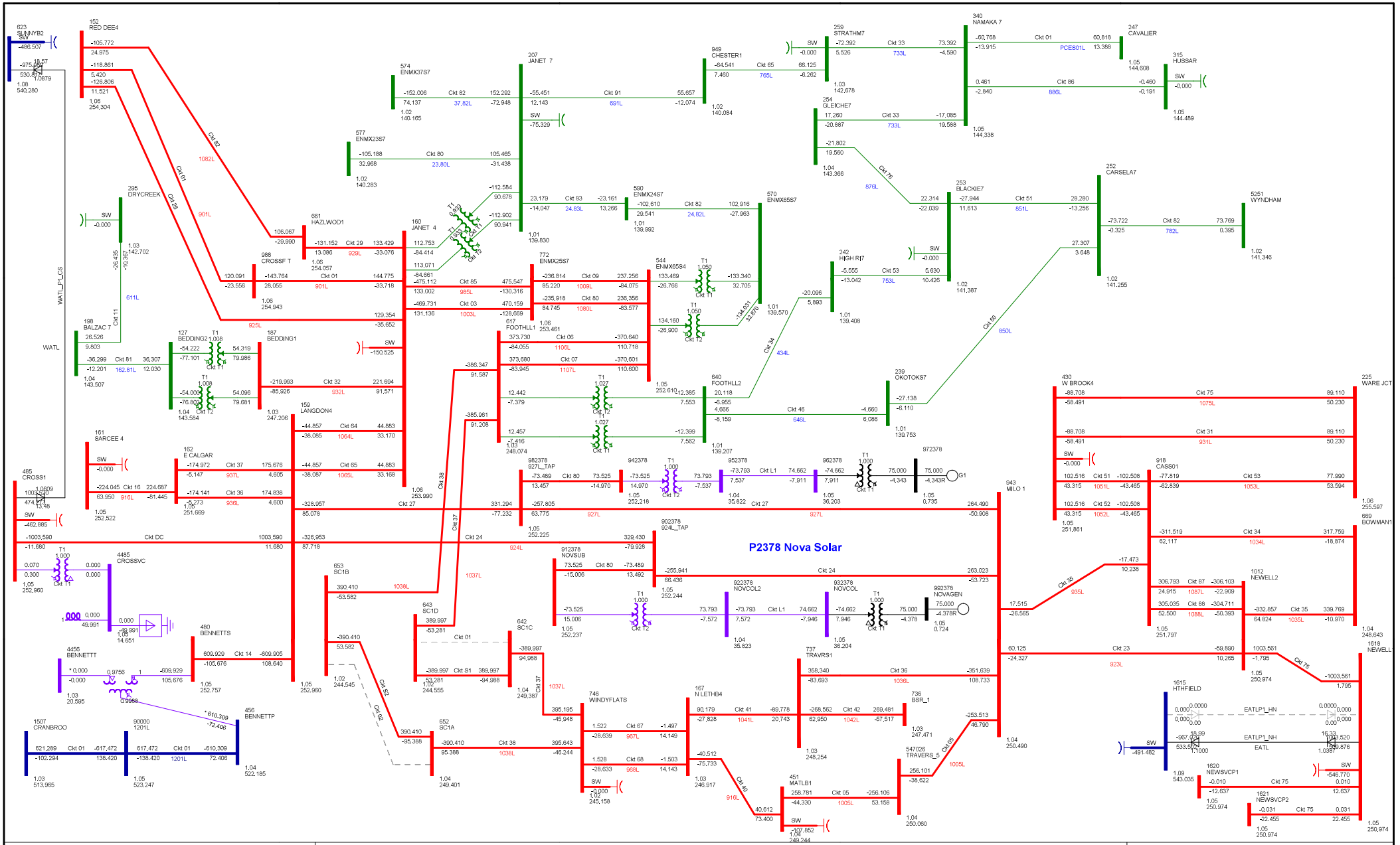
P2378 Nova Solar Project Connection

FIGURE A3.5-5 N-1: 1088L (CASSILS 324S TO NEWELL 2075S)
2023 SUMMER PEAK (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



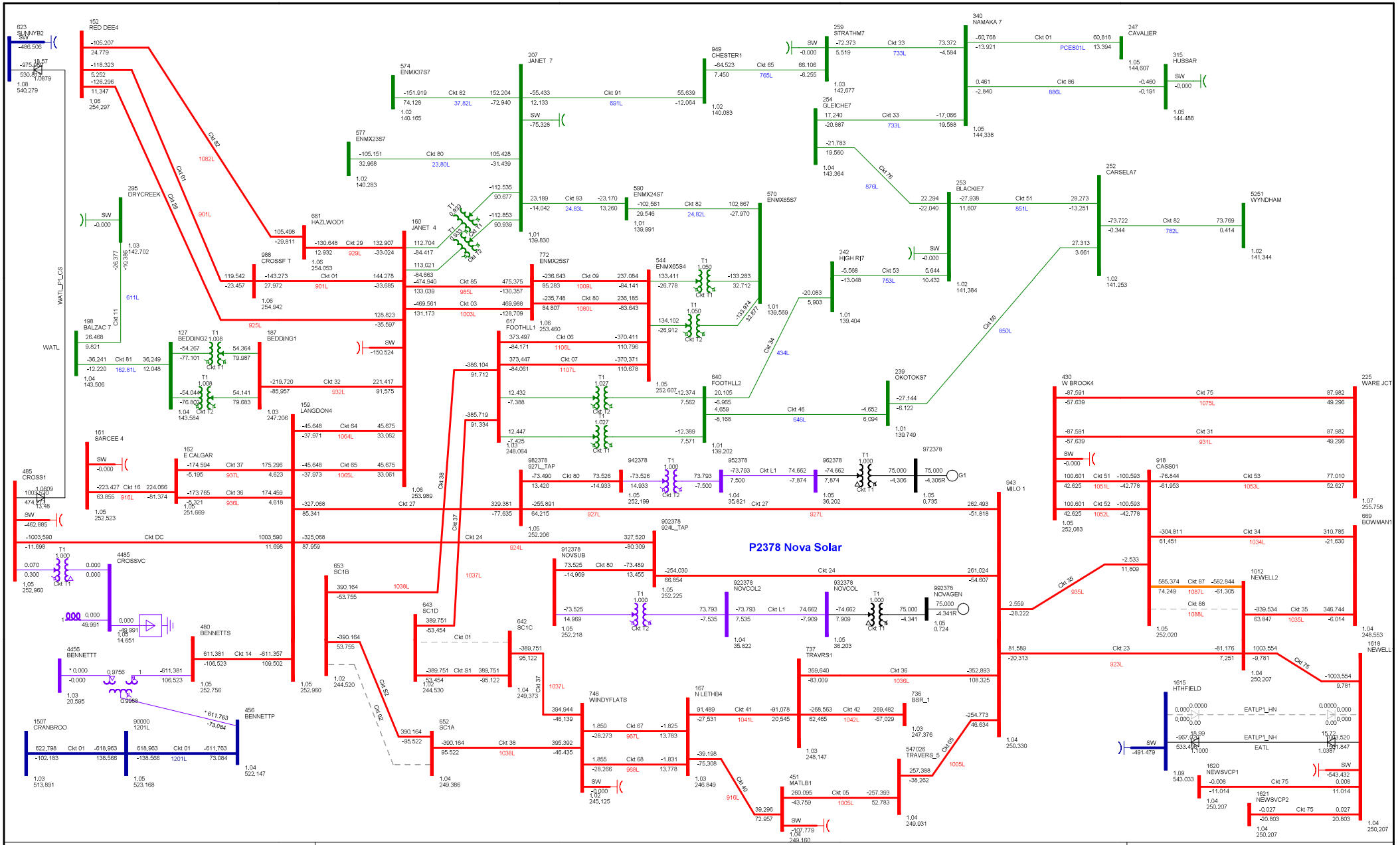
P2378 Nova Solar Project Connection

FIGURE A3.5-6 N-1: EATL
2023 SUMMER PEAK (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



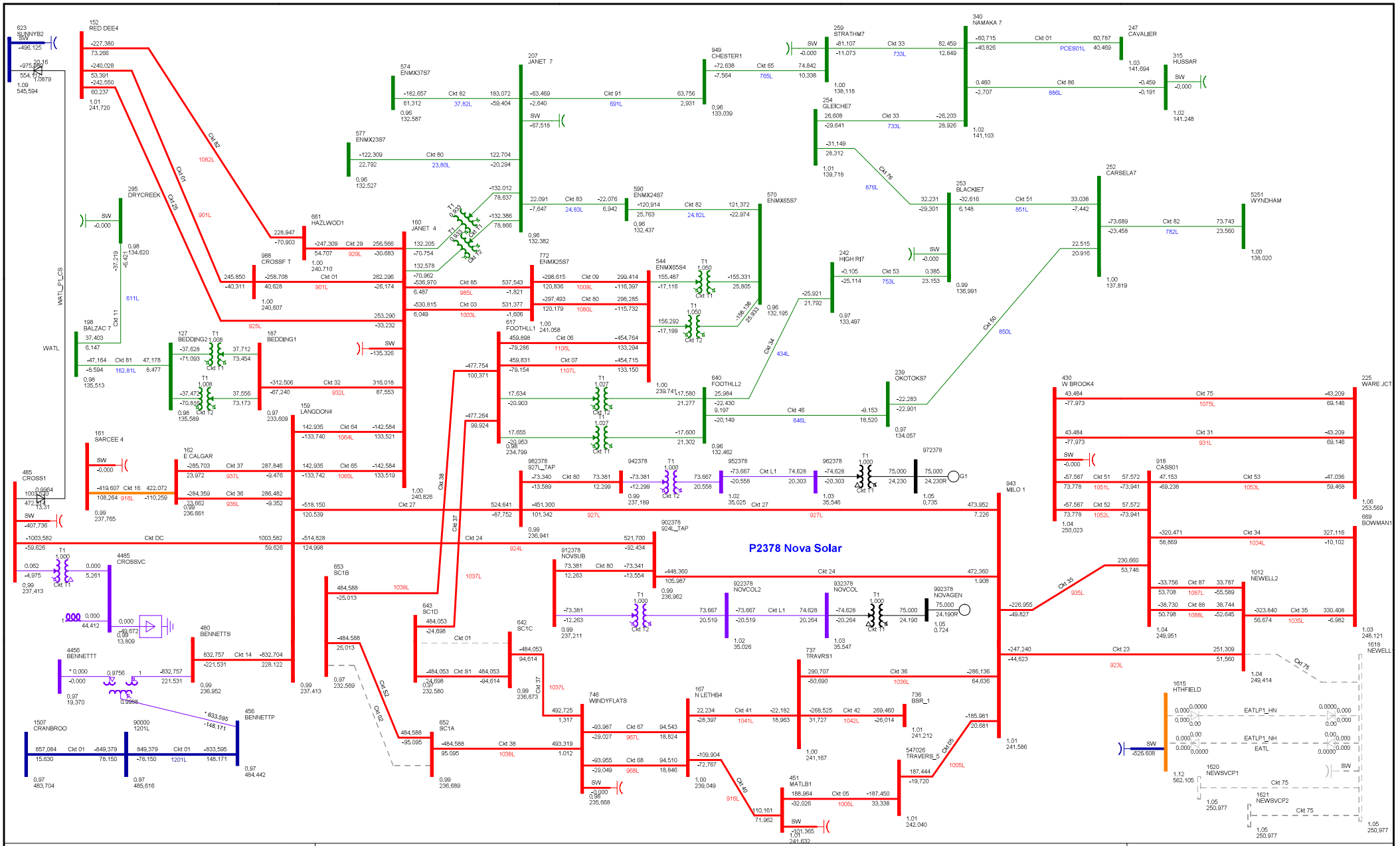
P2378 Nova Solar Project Connection

FIGURE A3.6-1-N-0: NORMAL OPERATION
2023 SUMMER LIGHT (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



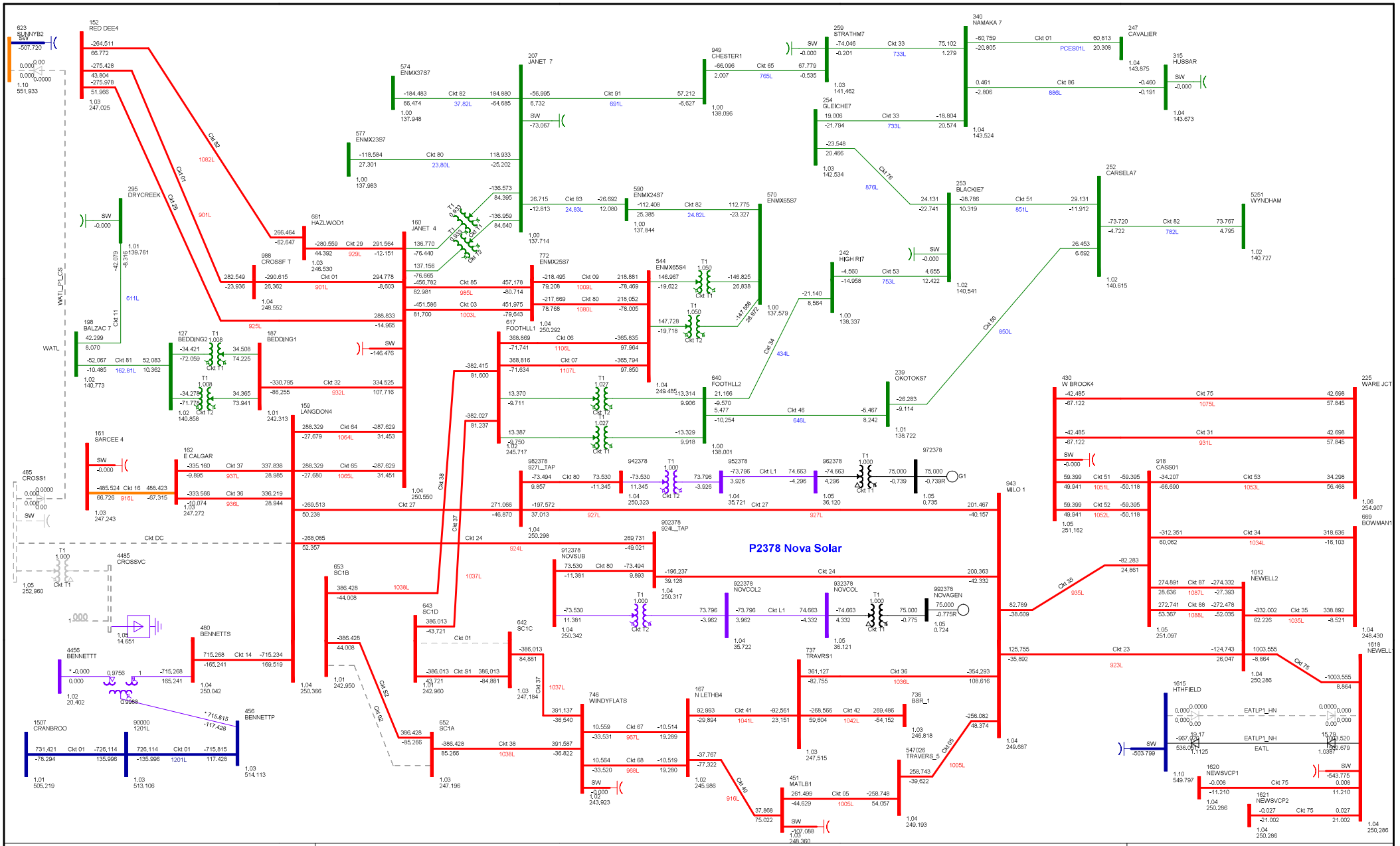
P2378 Nova Solar Project Connection

FIGURE A3.6-2 N-1: 1088L (CASSILS 324S TO NEWELL 2075S)
2023 SUMMER LIGHT (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



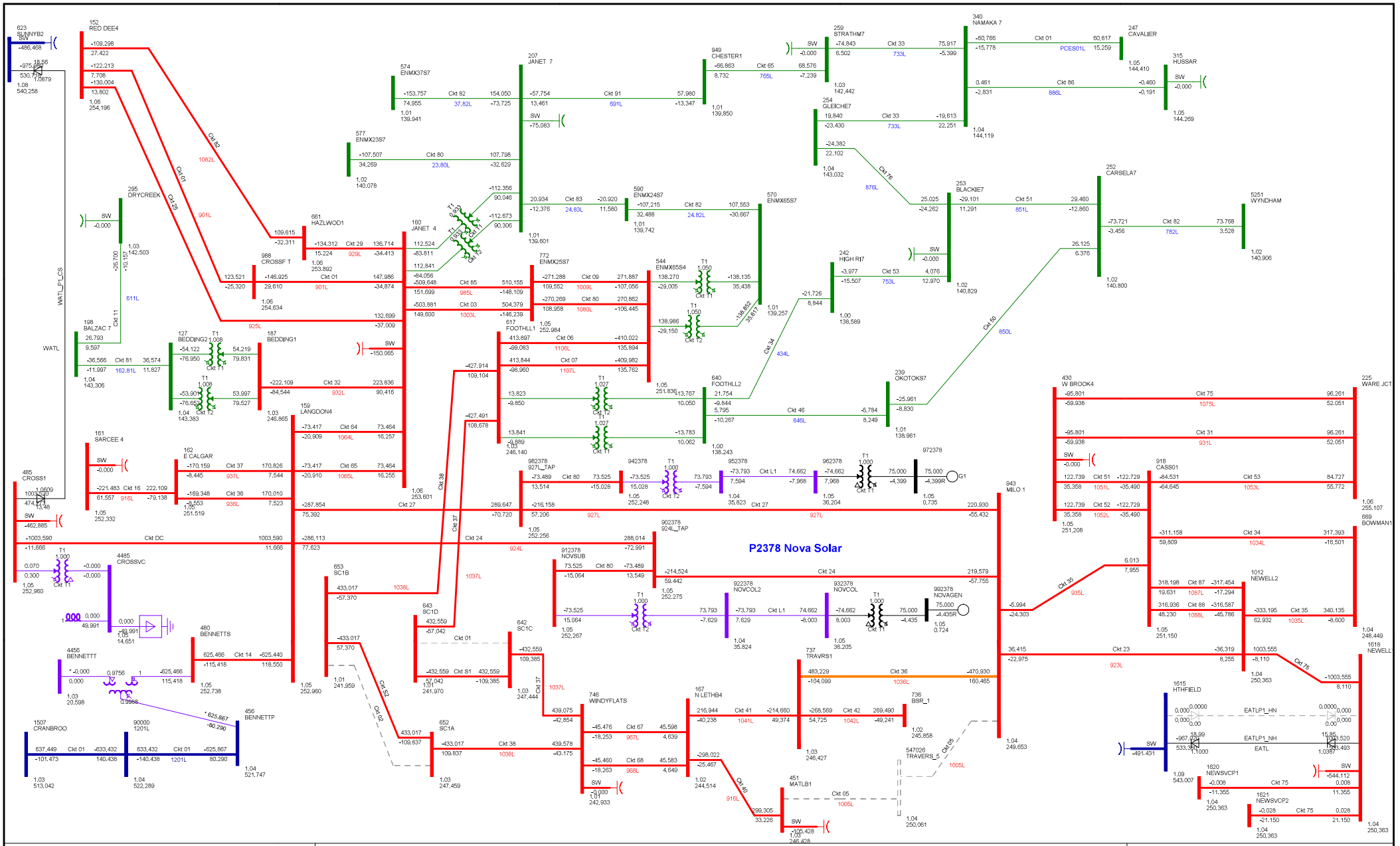
P2378 Nova Solar Project Connection

FIGURE A3.6-3 N-1: EATL
2023 SUMMER LIGHT (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



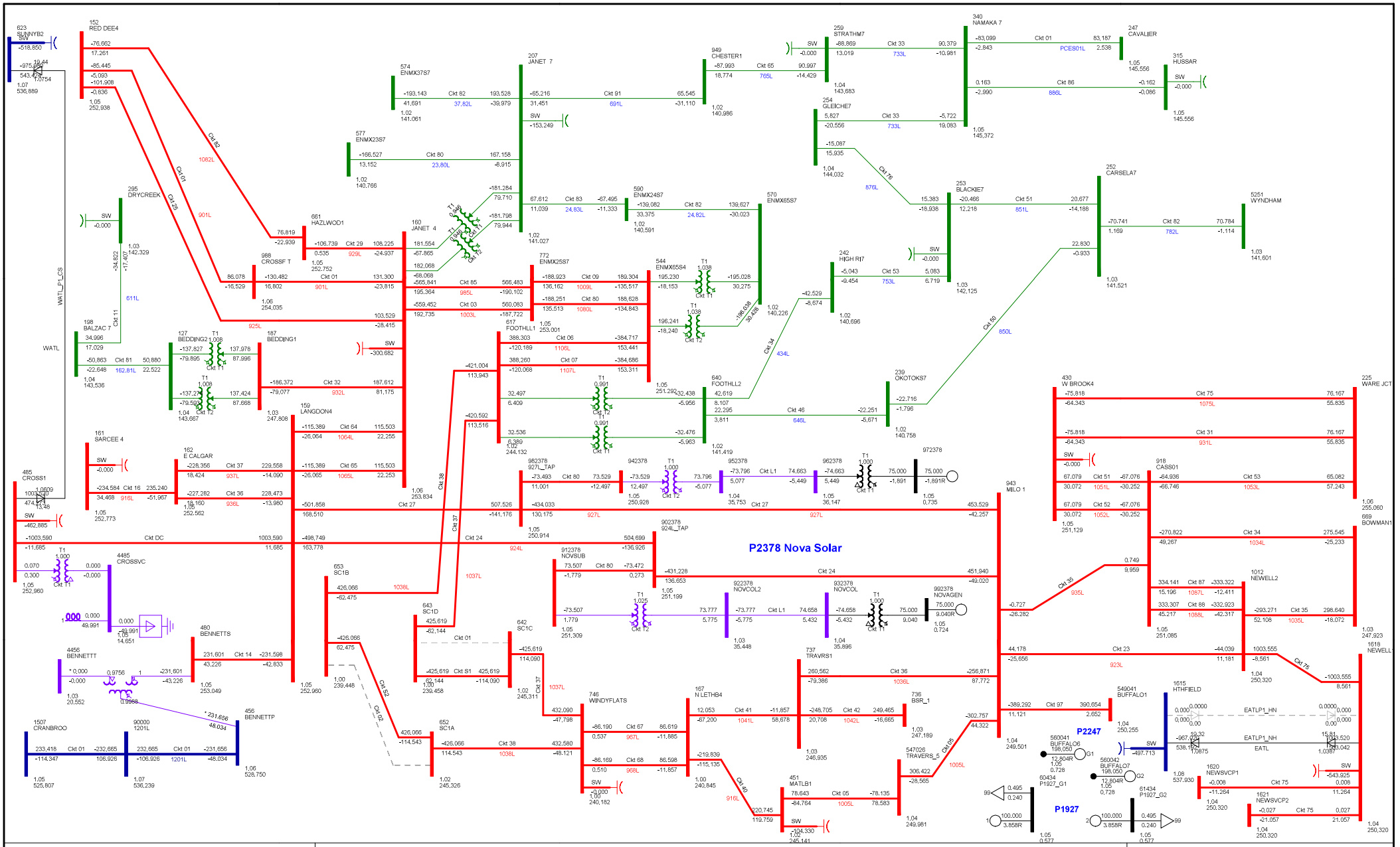
P2378 Nova Solar Project Connection

FIGURE A3.6-4 N-1: WATL
2023 SUMMER LIGHT (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



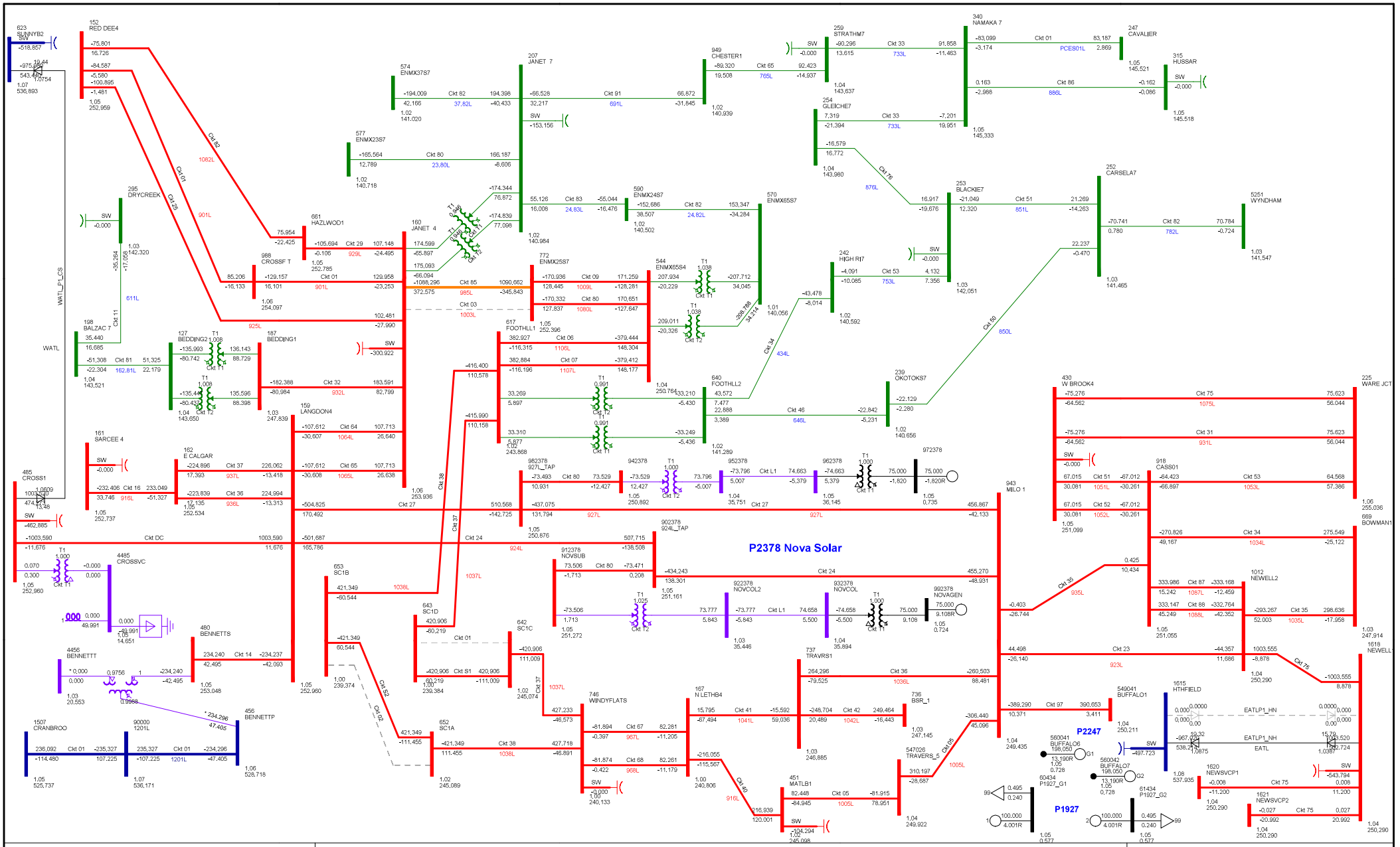
P2378 Nova Solar Project Connection

FIGURE A3.6-5 N-1: 1005L (MILO 356S TO PICTURE BUTTE 120S)
2023 SUMMER LIGHT (POST-CONNECTION) - A2
PRINTED ON SATURDAY 21. MAY 2022



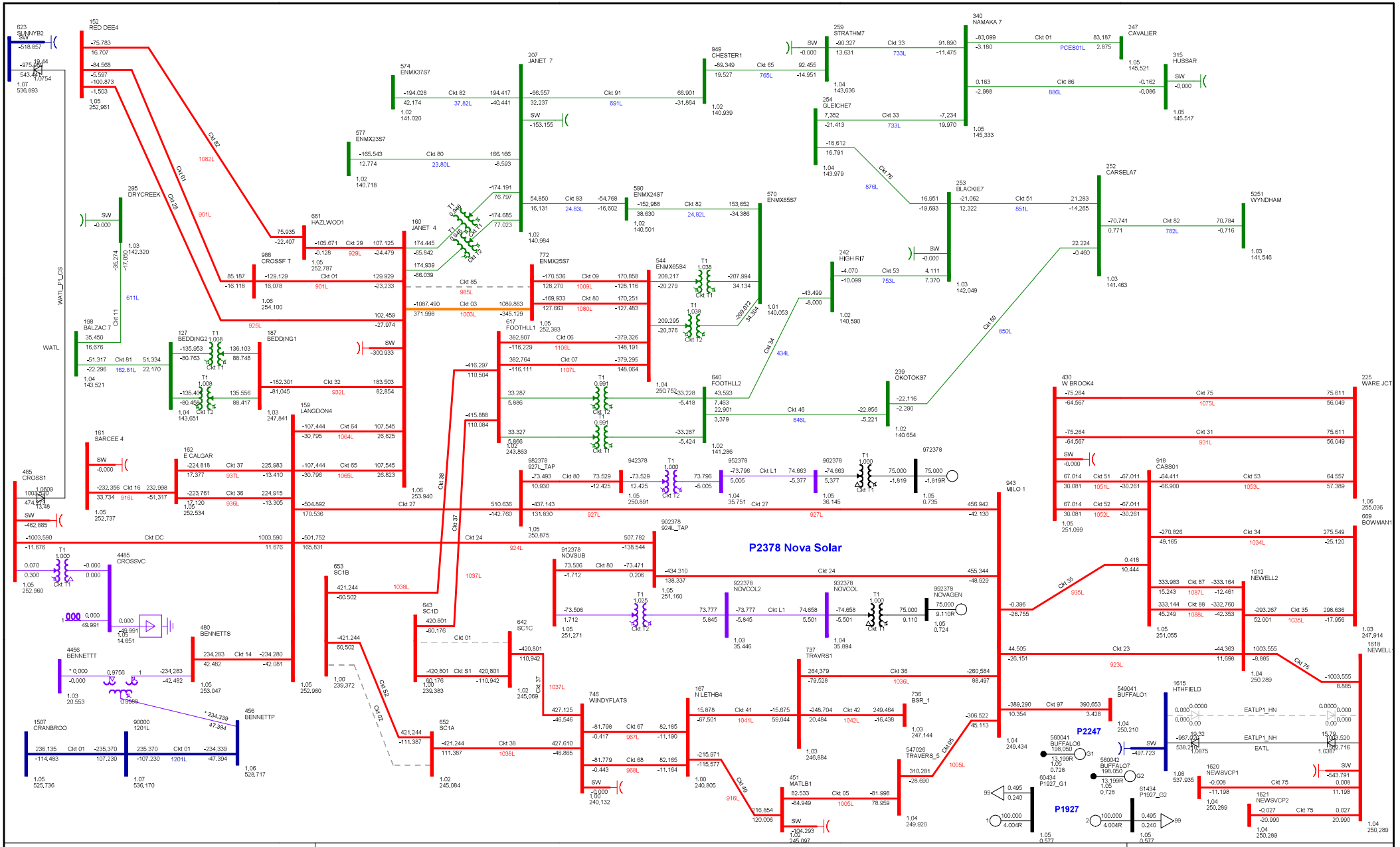
P2378 Nova Solar Project Connection

FIGURE A3.7-1-N-0: NORMAL OPERATION
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



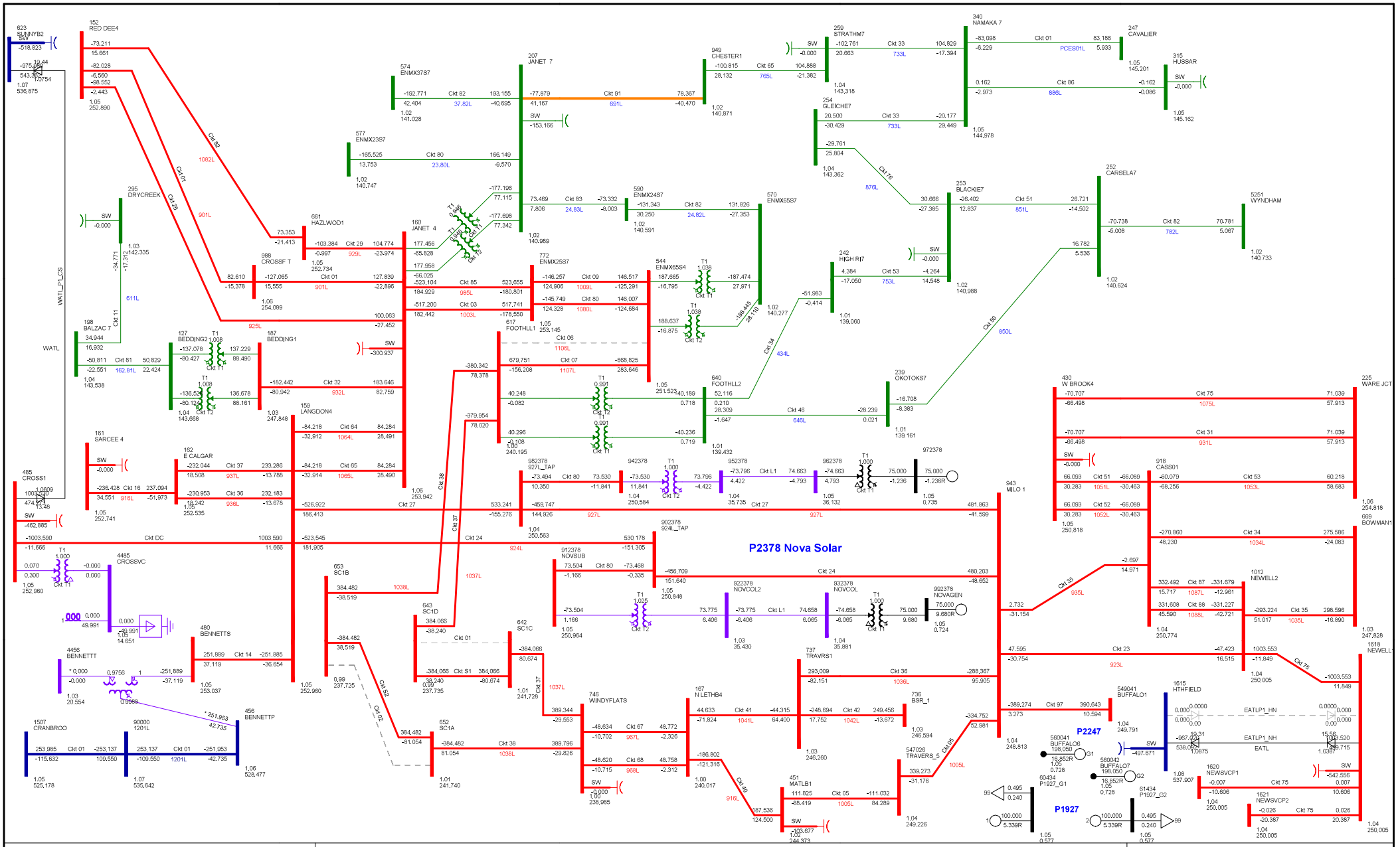
P2378 Nova Solar Project Connection

FIGURE A3.7-2 N-1: 1003L (JANET 74S TO ENMAX 25)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



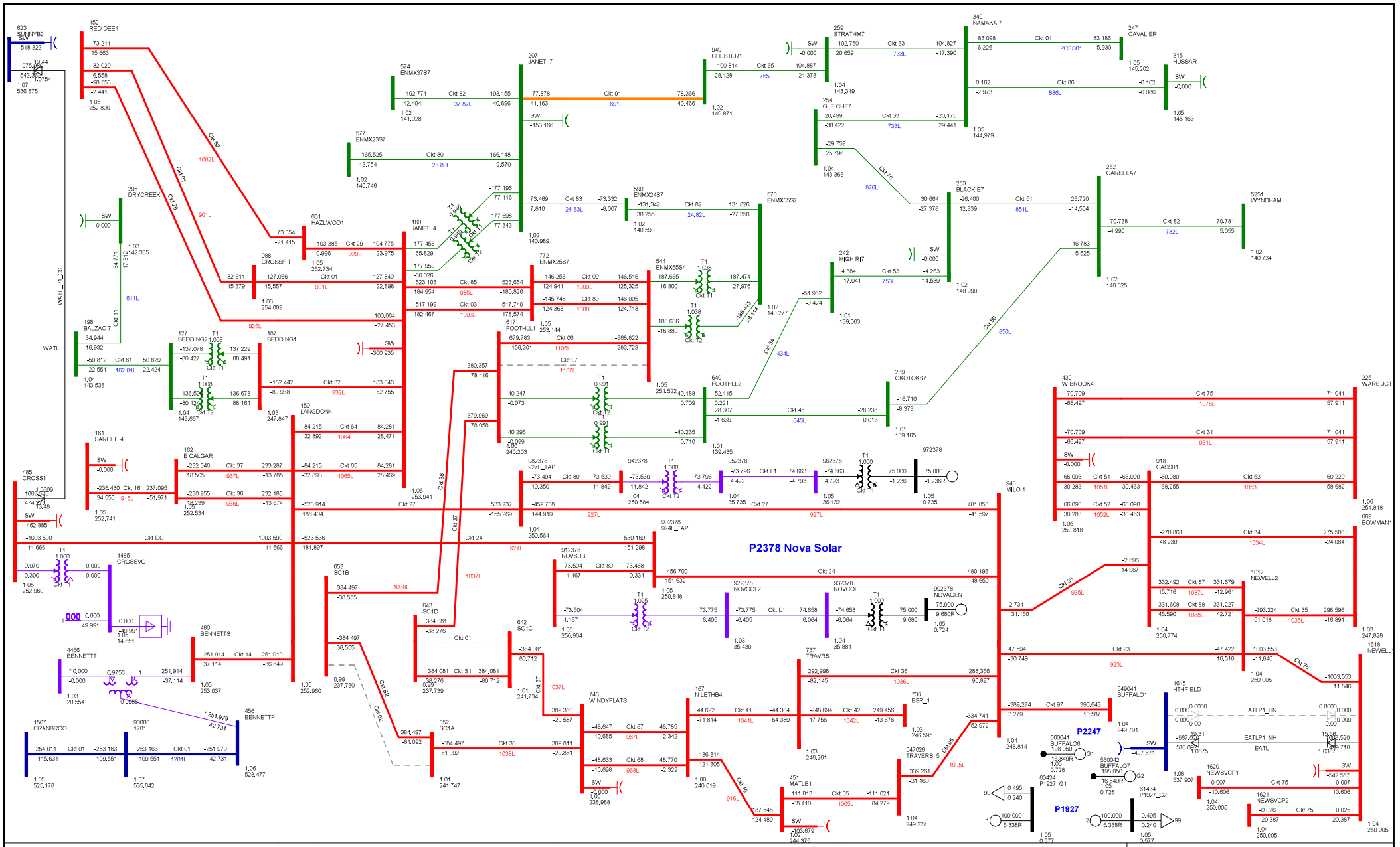
P2378 Nova Solar Project Connection

FIGURE A3.7-3 N-1: 985L (JANET 7S TO ENMAX 25)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



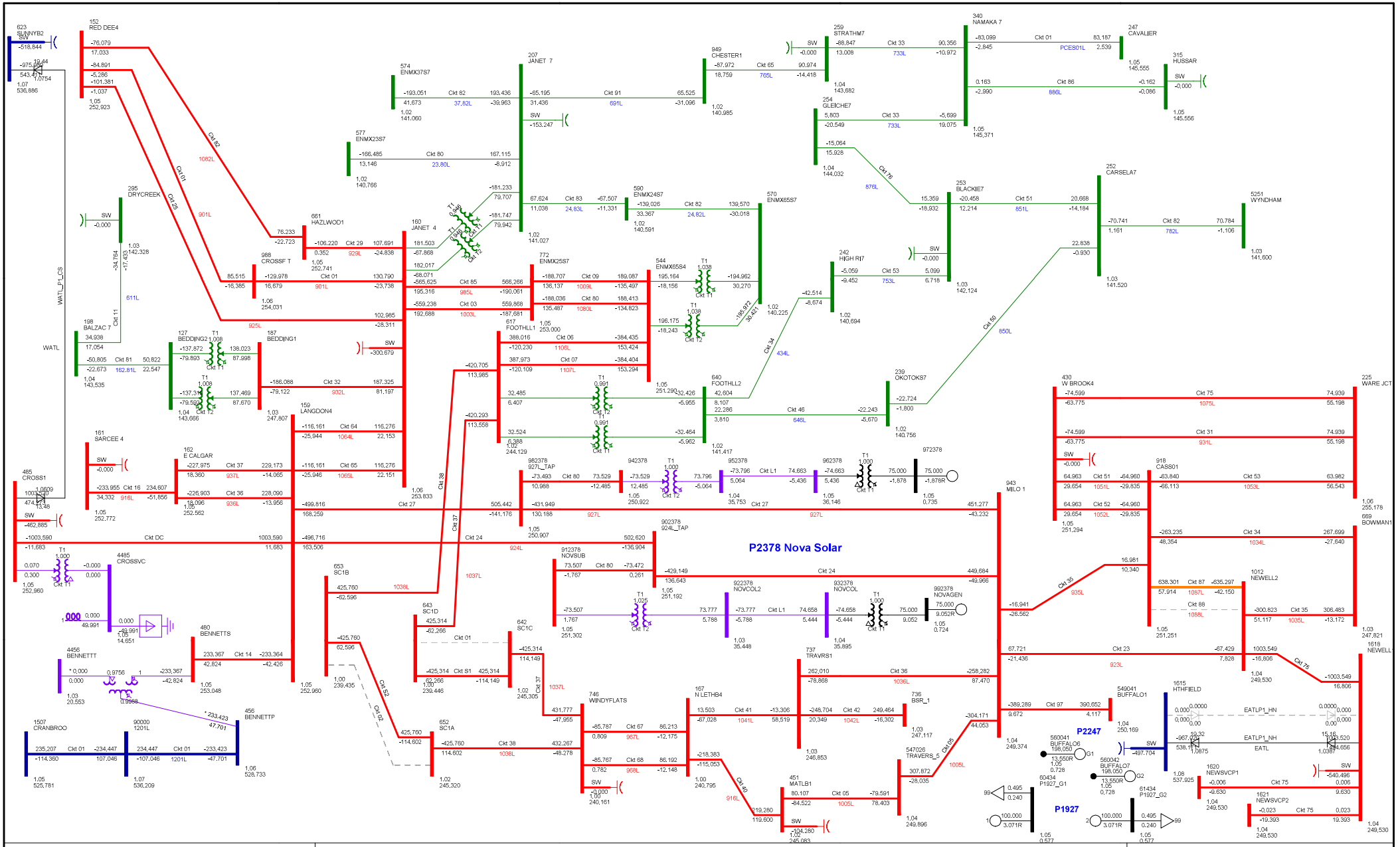
P2378 Nova Solar Project Connection

FIGURE A3.7-4 N-1: 1106L (ENMAX 65 TO FOOTHILLS 237S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



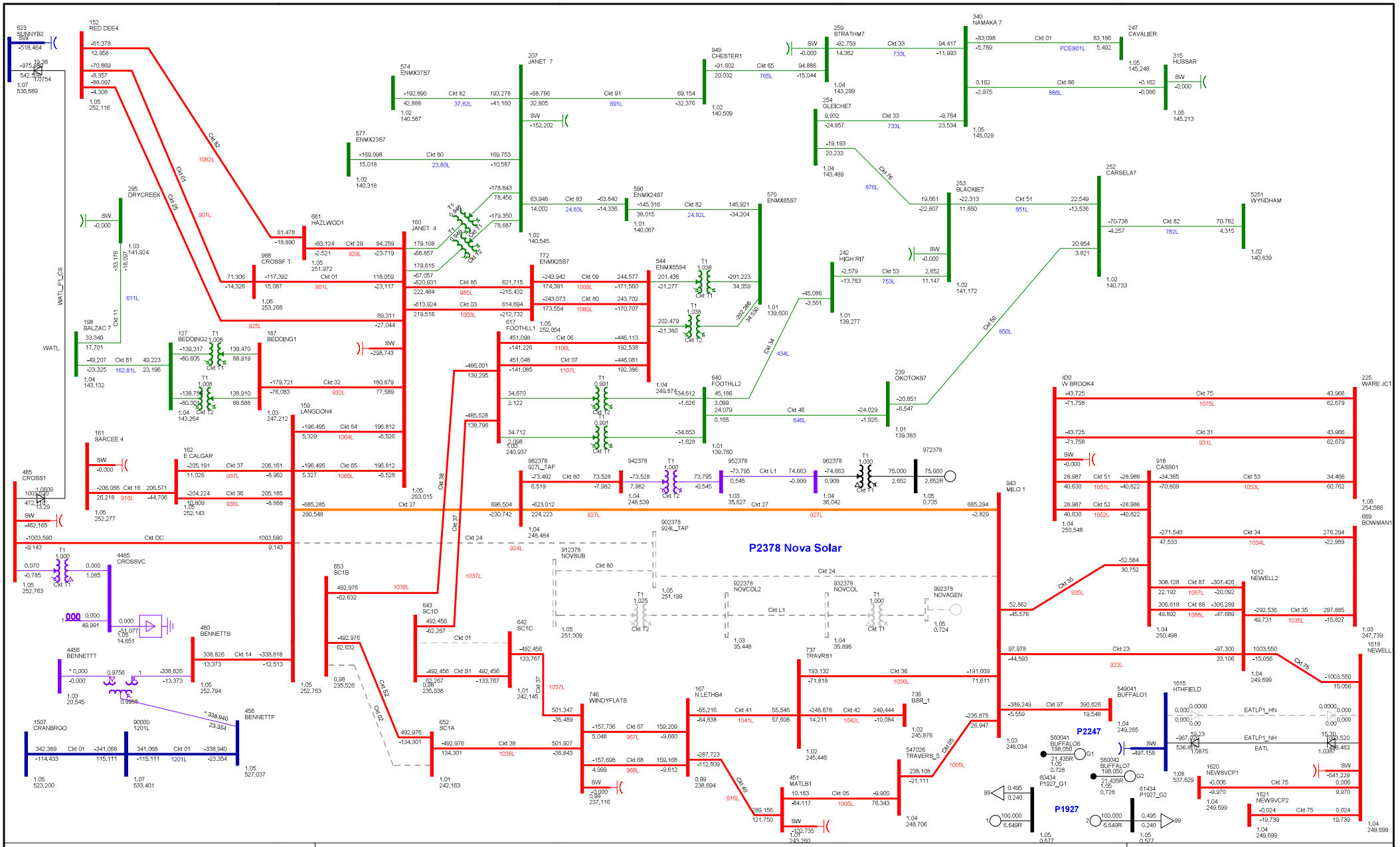
P2378 Nova Solar Project Connection

FIGURE A3.7-5 N-1: 1107L (ENMAX 65 TO FOOTHILLS 237S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



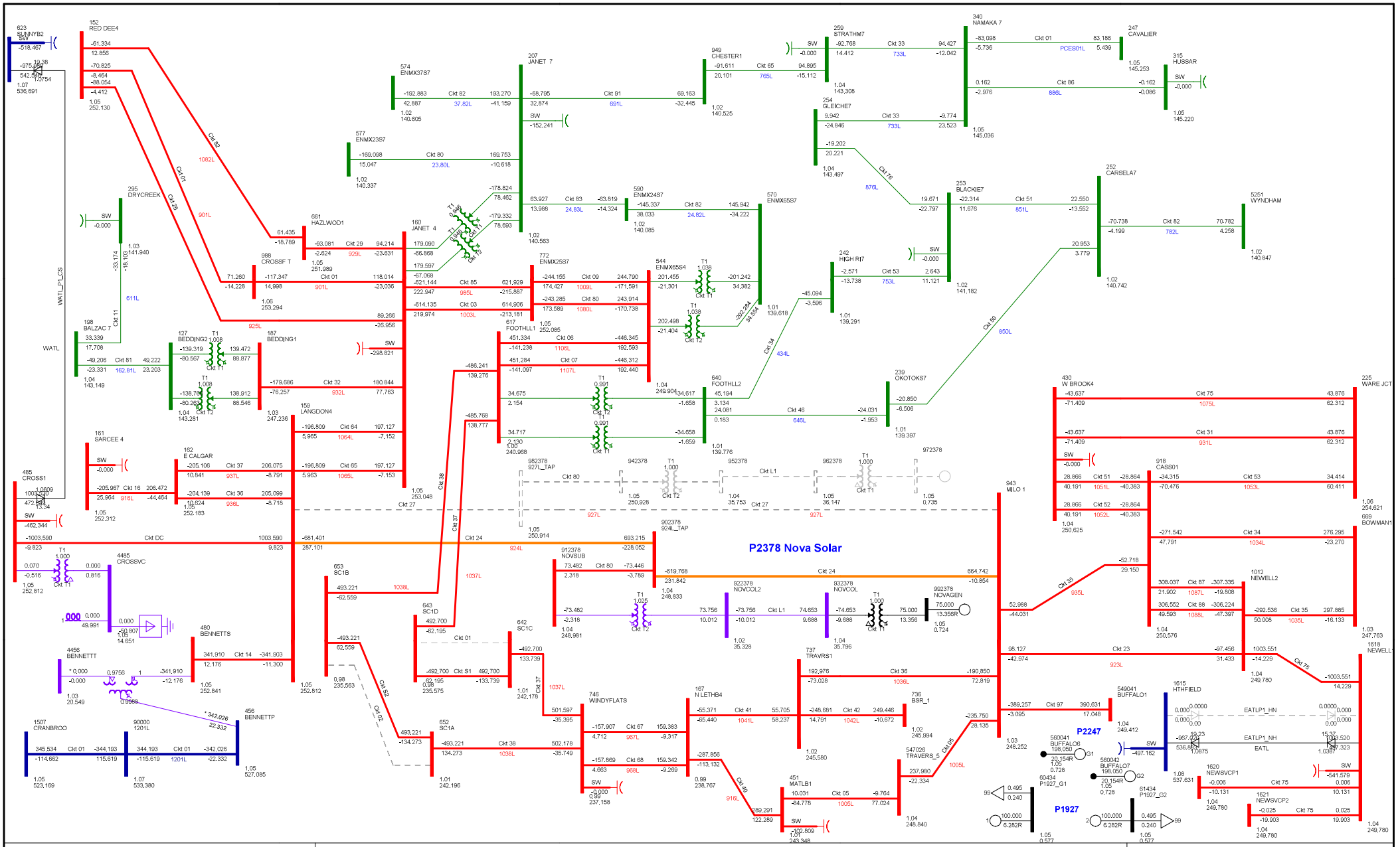
P2378 Nova Solar Project Connection

FIGURE A3.7-6 N-1: 1088L (CASSILS 324S TO NEWELL 2075S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



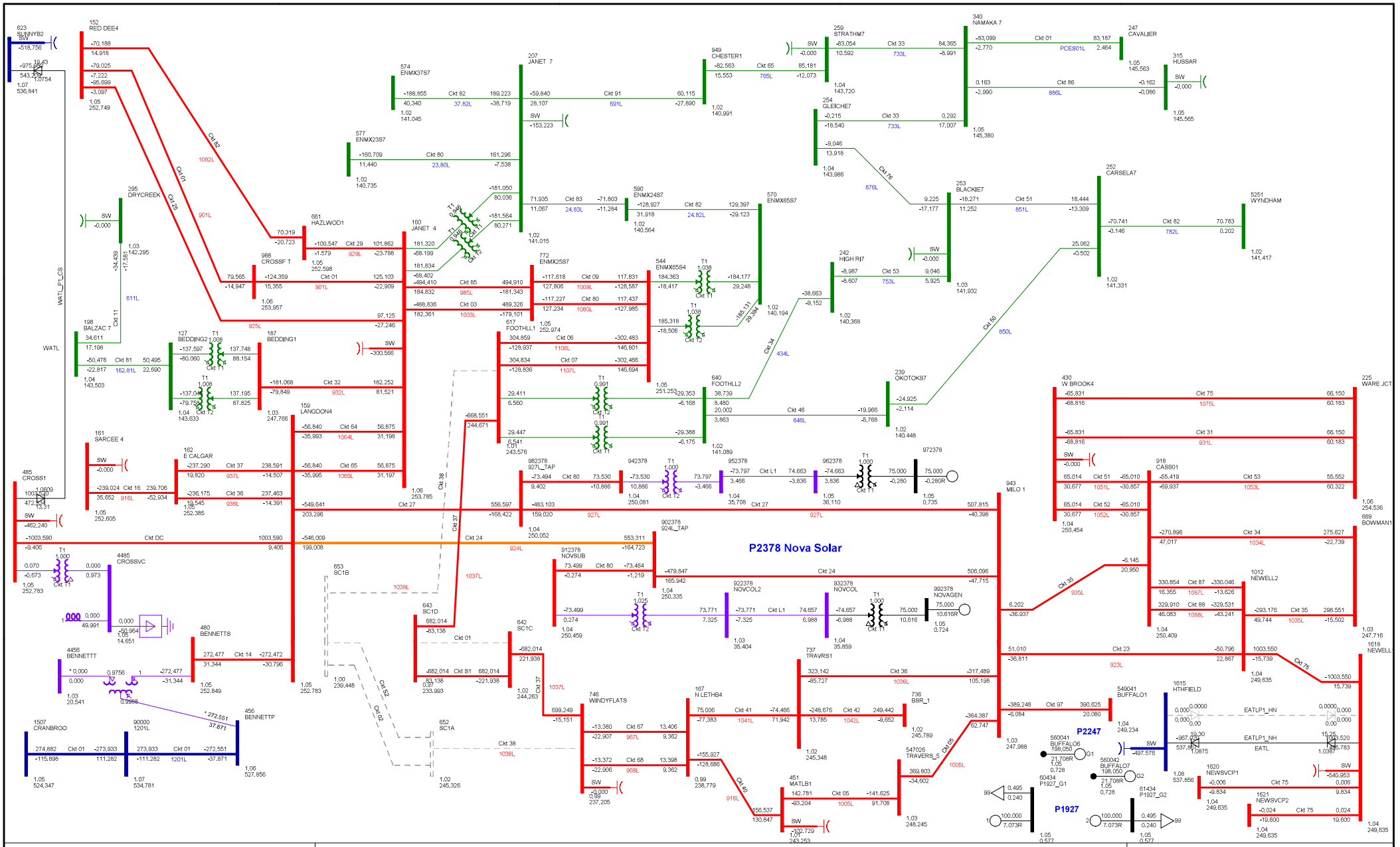
P2378 Nova Solar Project Connection

FIGURE A3.7-7 N-1: 924L (LANGDON 102S TO MILO 356S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



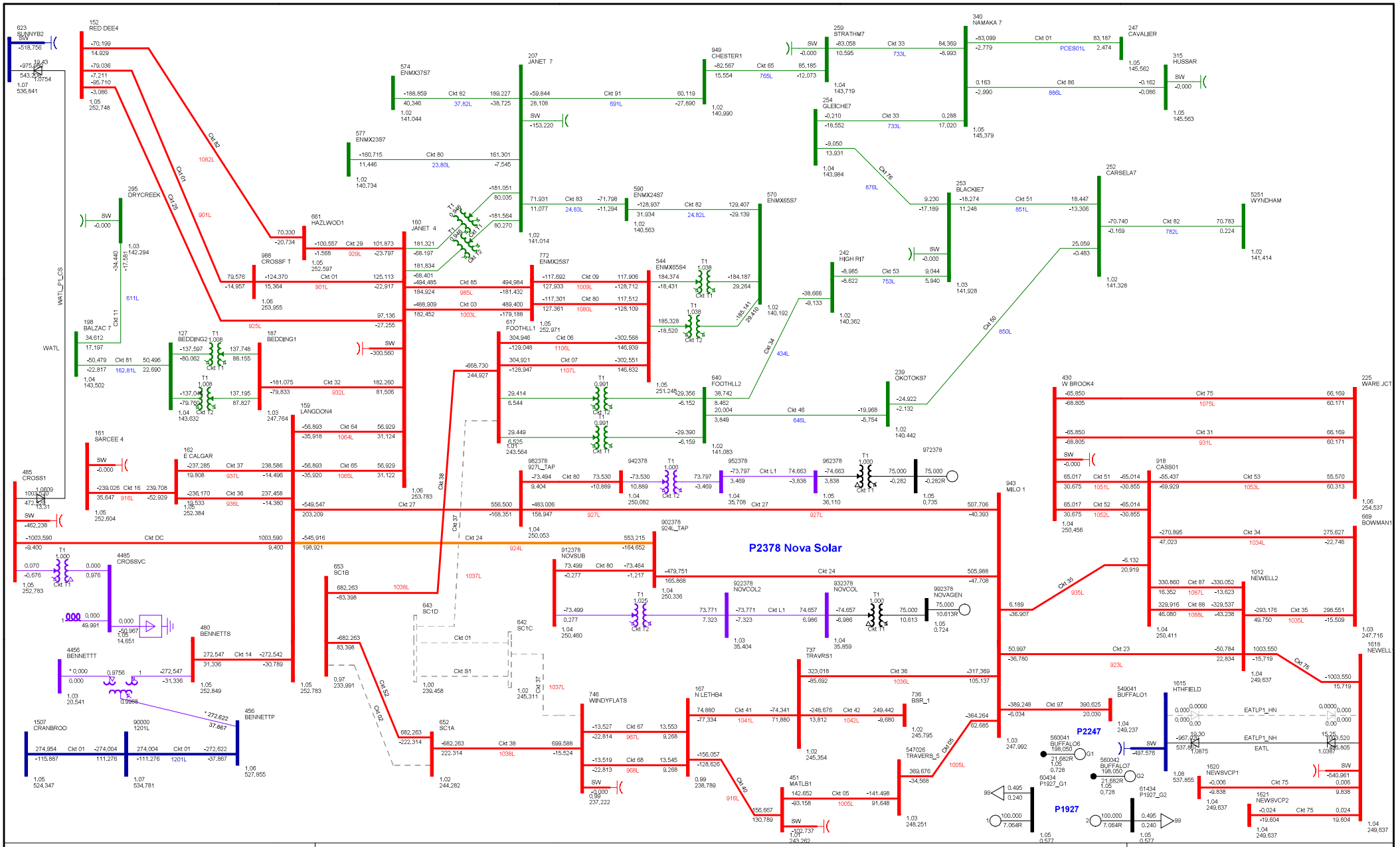
P2378 Nova Solar Project Connection

FIGURE A3.7-8 N-1: 927L (LANGDON 102S TO MILO 356S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



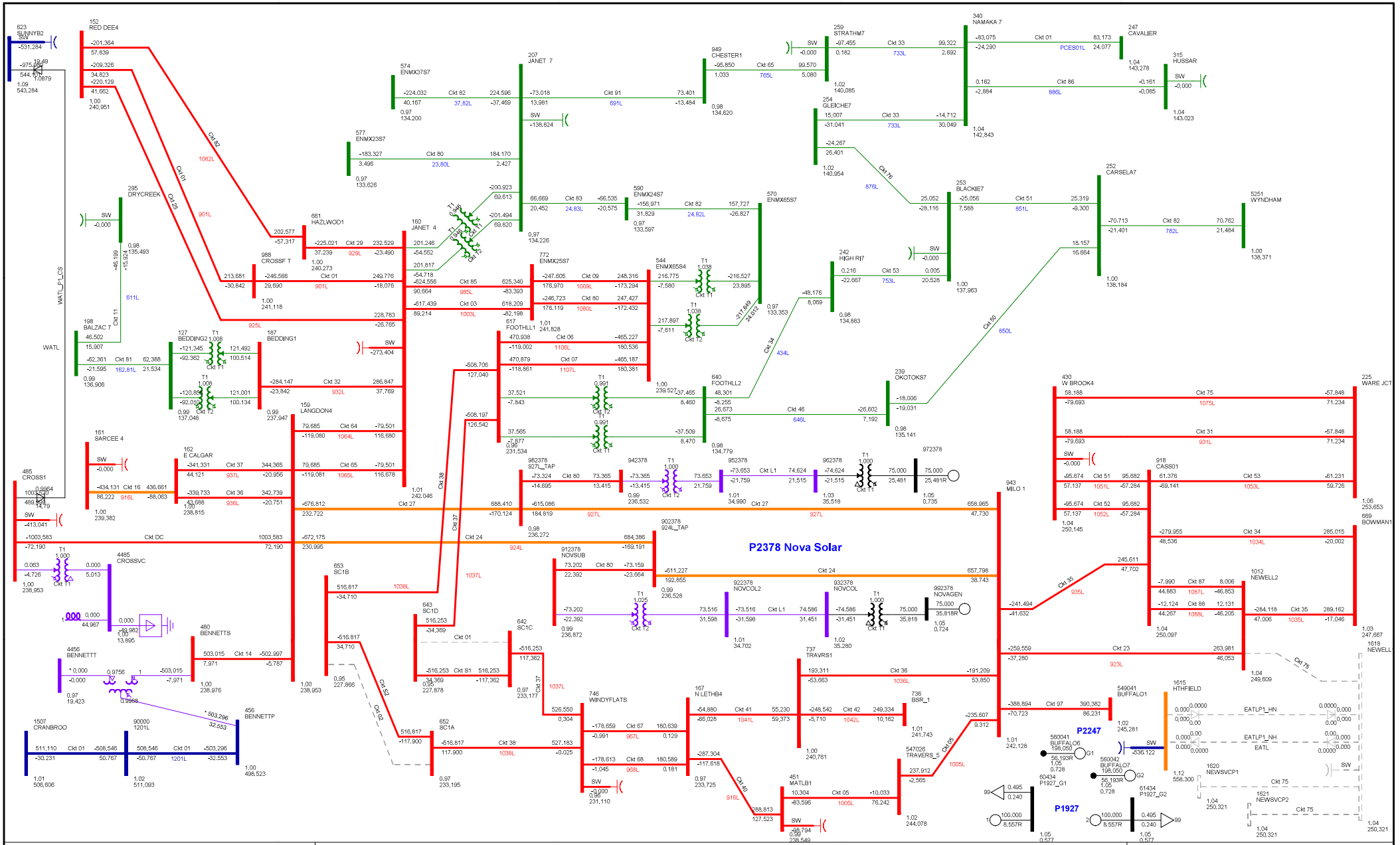
P2378 Nova Solar Project Connection

FIGURE A3.7-9 N-1: 1038L (FOOTHILLS 237S TO WINDY FLATS 138S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



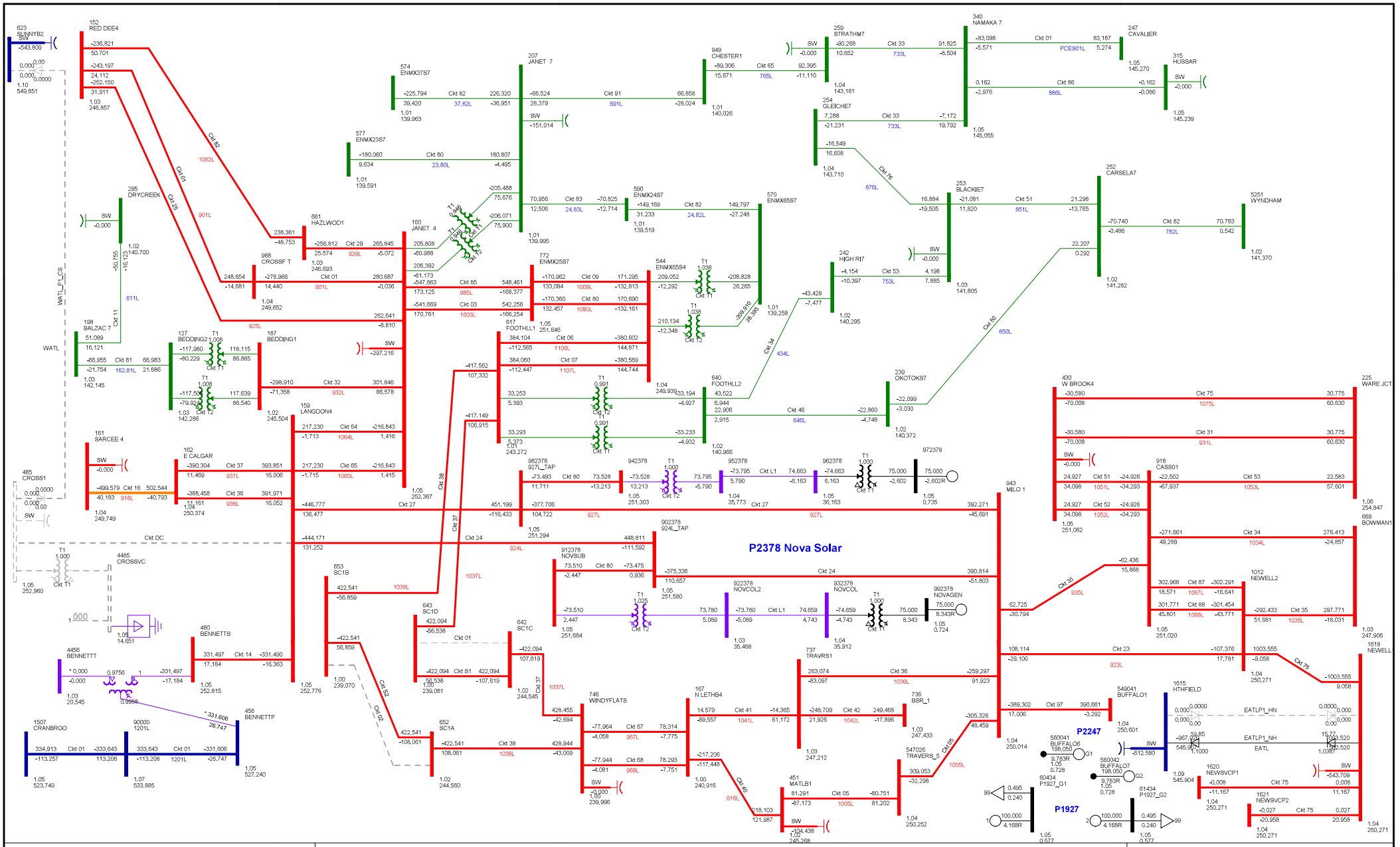
P2378 Nova Solar Project Connection

FIGURE A3.7-10 N-1: 1037L (FOOTHILLS 237S TO WINDY FLATS 138S)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



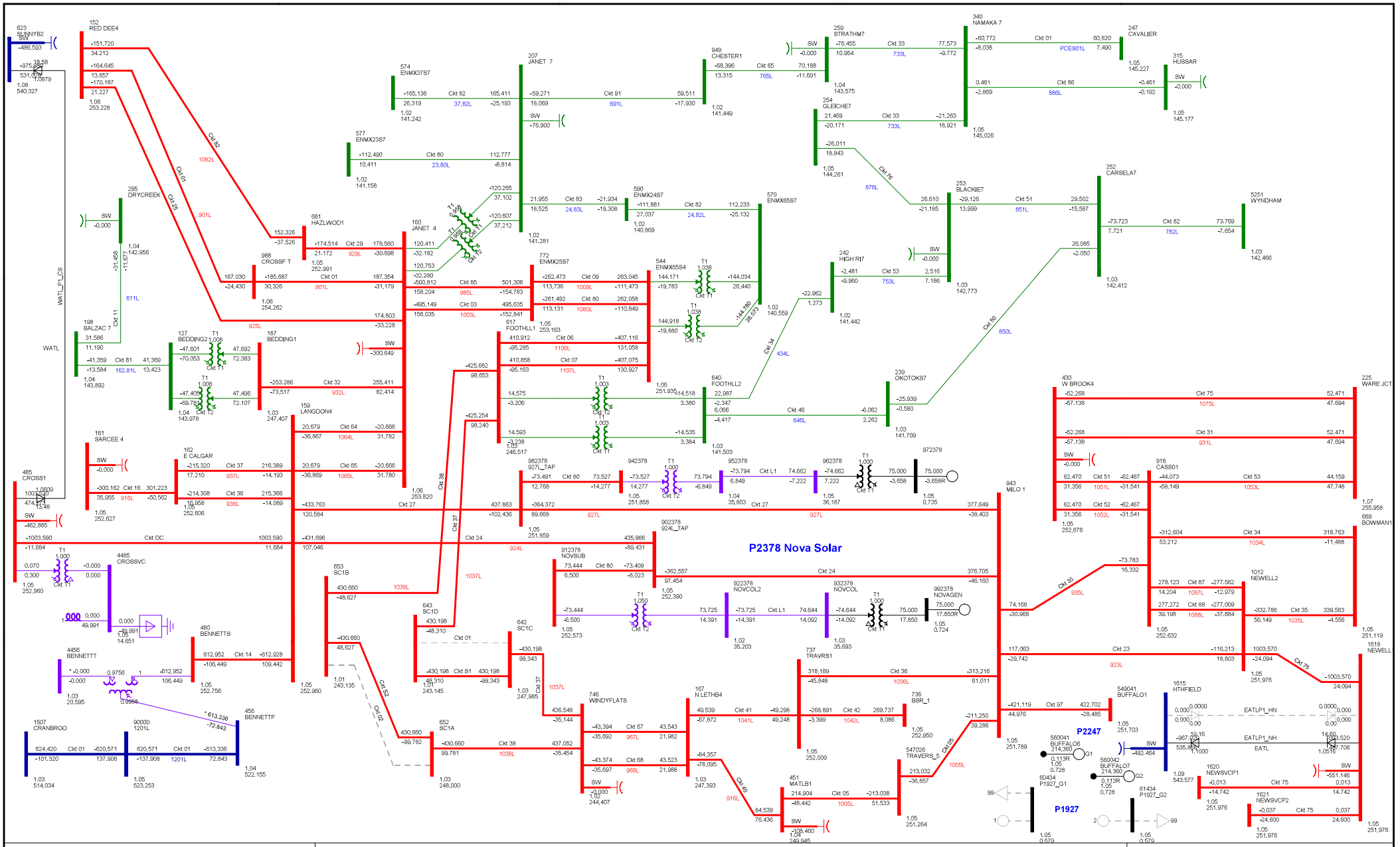
P2378 Nova Solar Project Connection

FIGURE A3.7-11 N-1: EATL
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



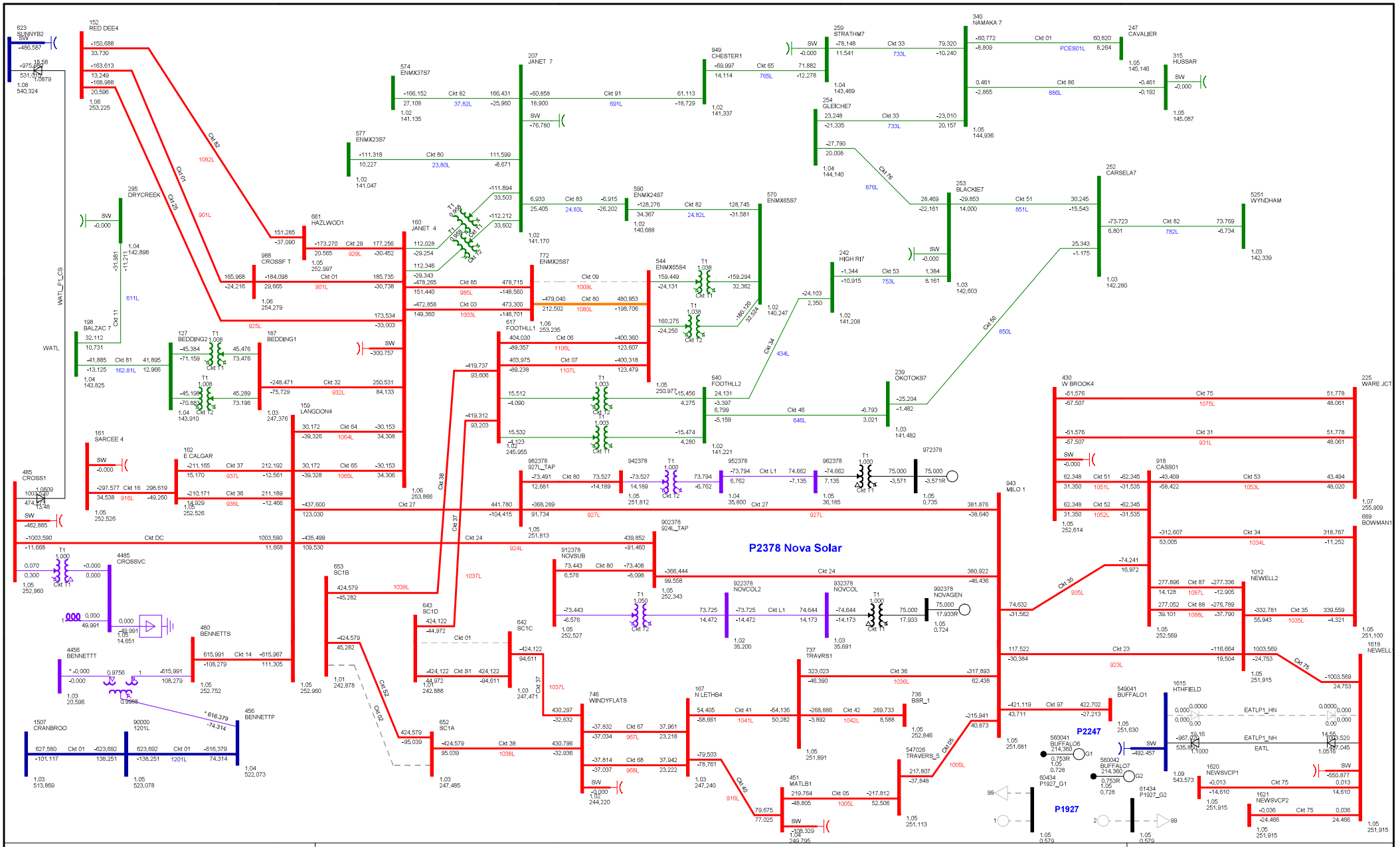
P2378 Nova Solar Project Connection

FIGURE A3.7-12 N-1: WATL
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



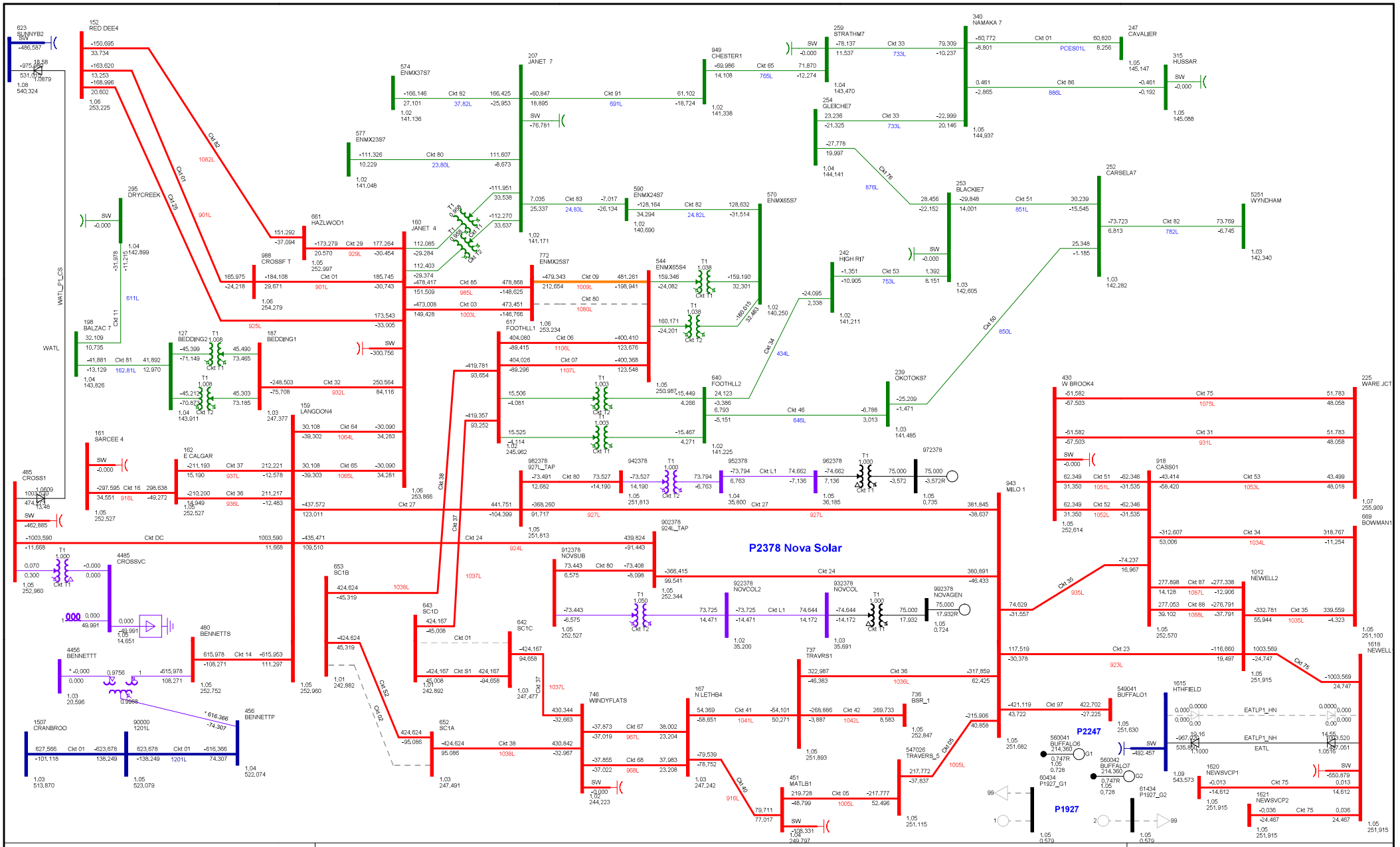
P2378 Nova Solar Project Connection

FIGURE A3.8-1-N-0: NORMAL OPERATION
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



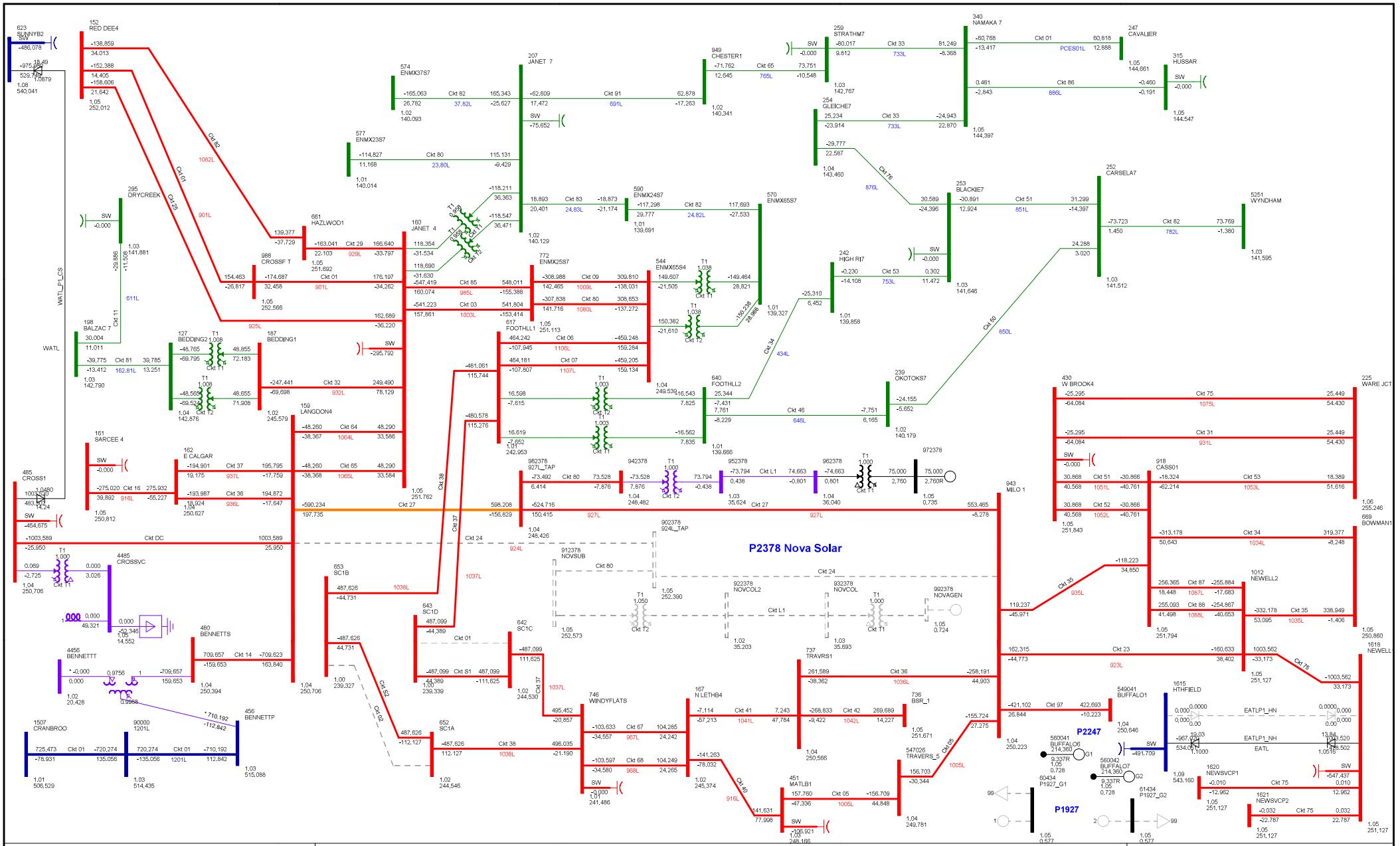
P2378 Nova Solar Project Connection

FIGURE A3.8-2 N-1: 1109L (ENMAX 65 TO ENMAX 25)
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



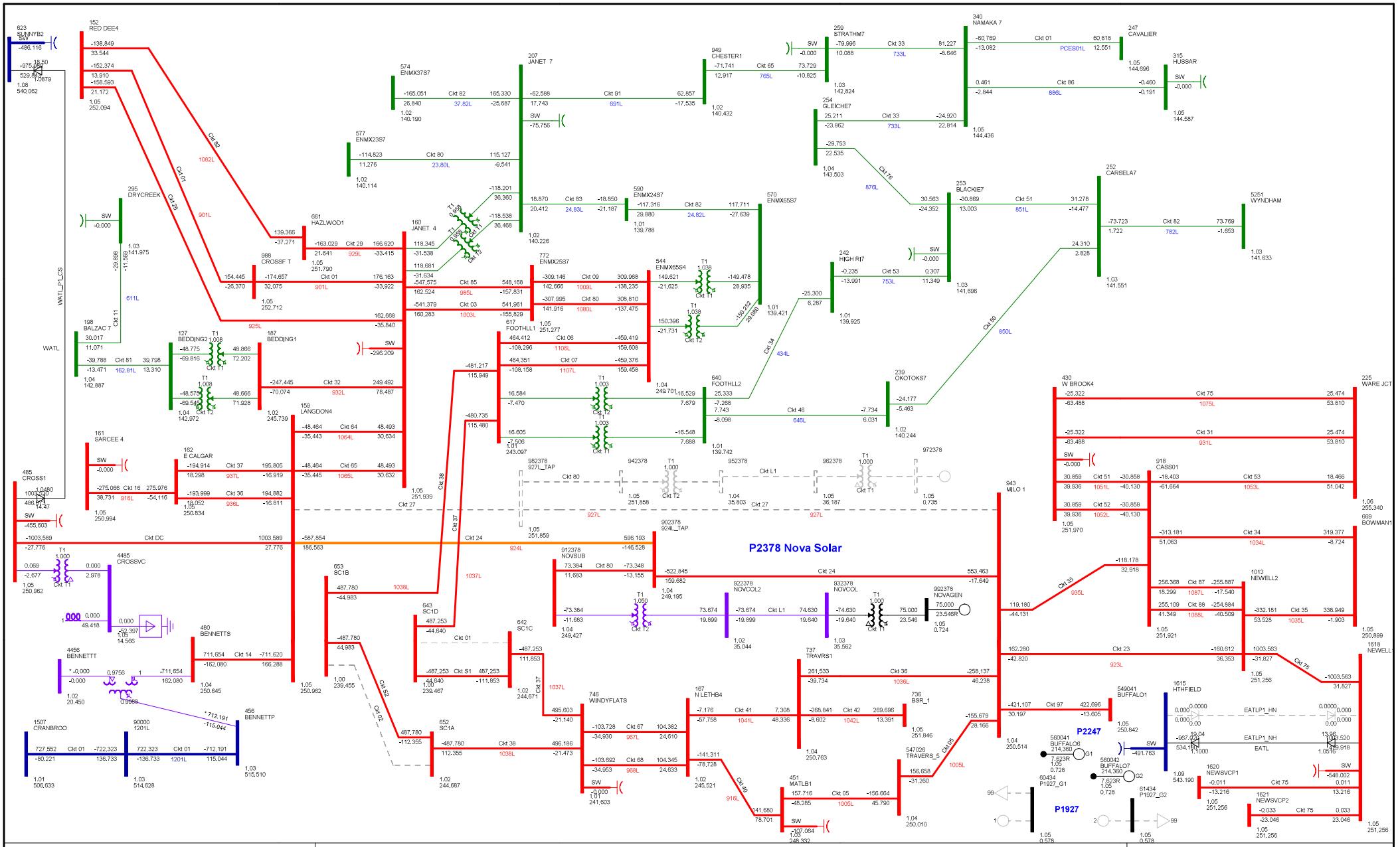
P2378 Nova Solar Project Connection

FIGURE A3.8-3 N-1: 1080L (ENMAX 65 TO ENMAX 25)
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



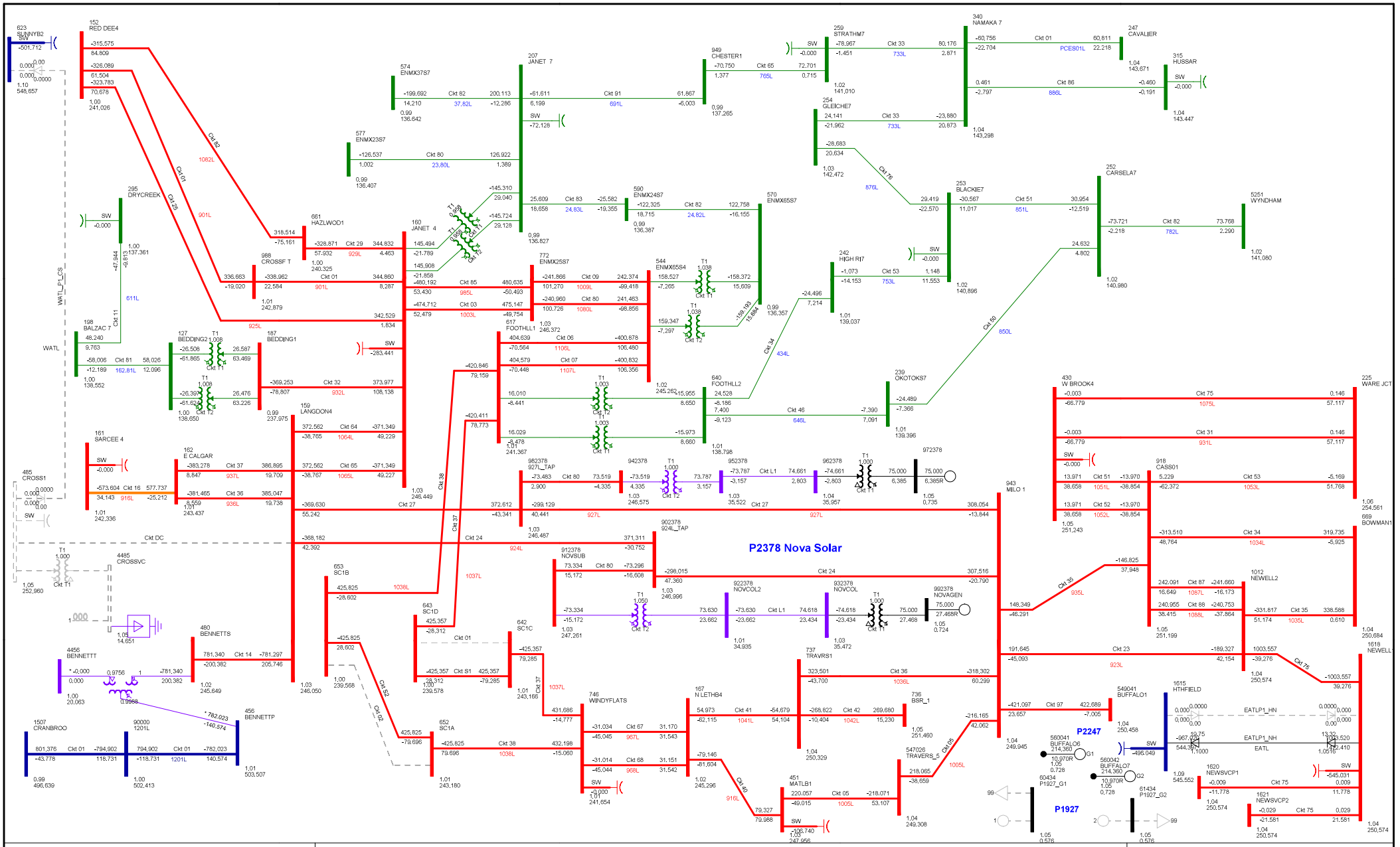
P2378 Nova Solar Project Connection

FIGURE A3.8-4 N-1: 924L (LANGDON 102S TO MILO 356S)
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

FIGURE A3.8-5 N-1: 927L (LANGDON 102S TO MILO 356S)
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



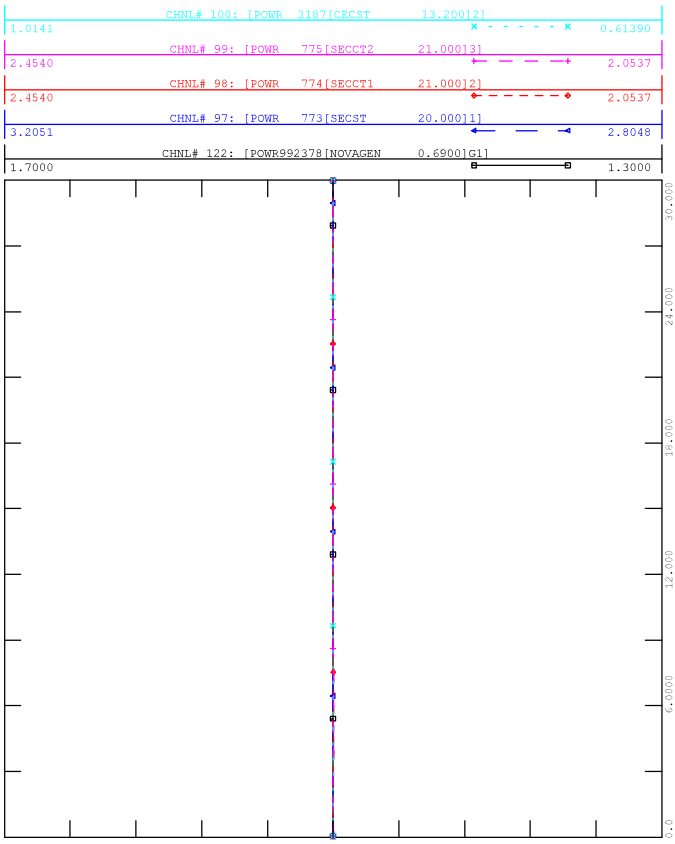
P2378 Nova Solar Project Connection

FIGURE A3.8-6 N-1: WATL
2023 SUMMER LIGHT (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022

Attachment A4
Post-Project Transient Stability Diagrams

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

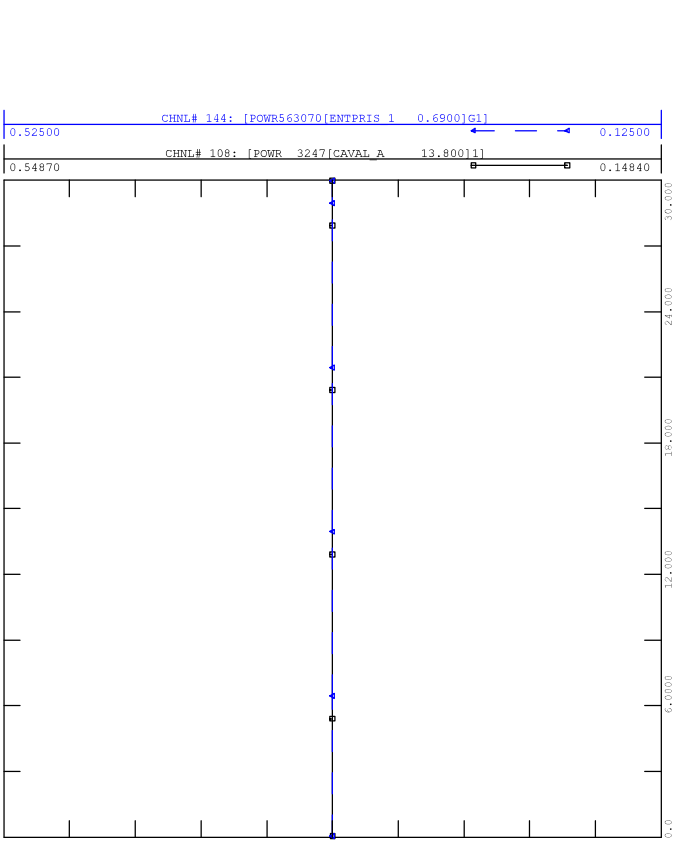
FILE: scn3_SP_A1_nofault.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

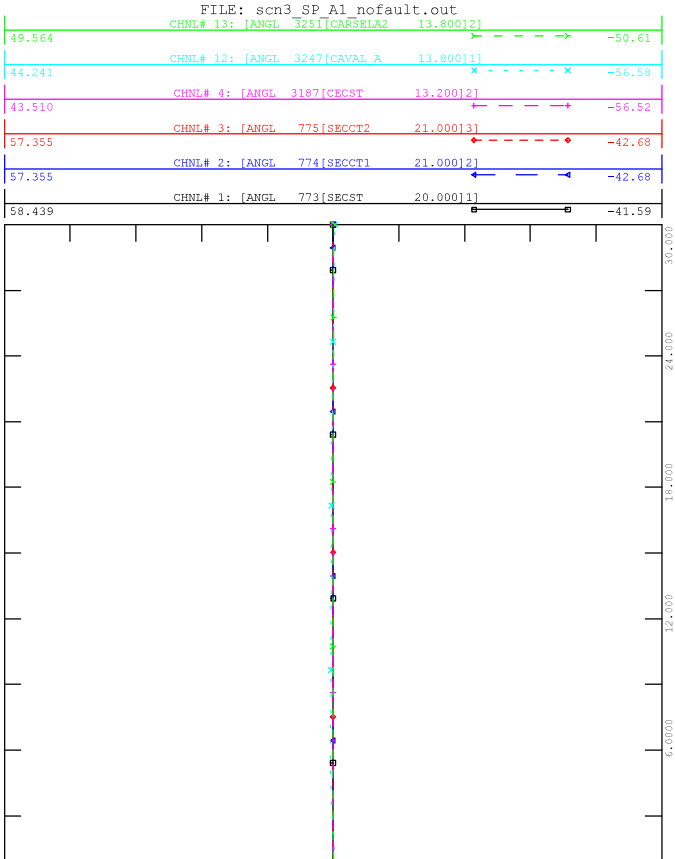
FILE: scn3_SP_A1_nofault.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

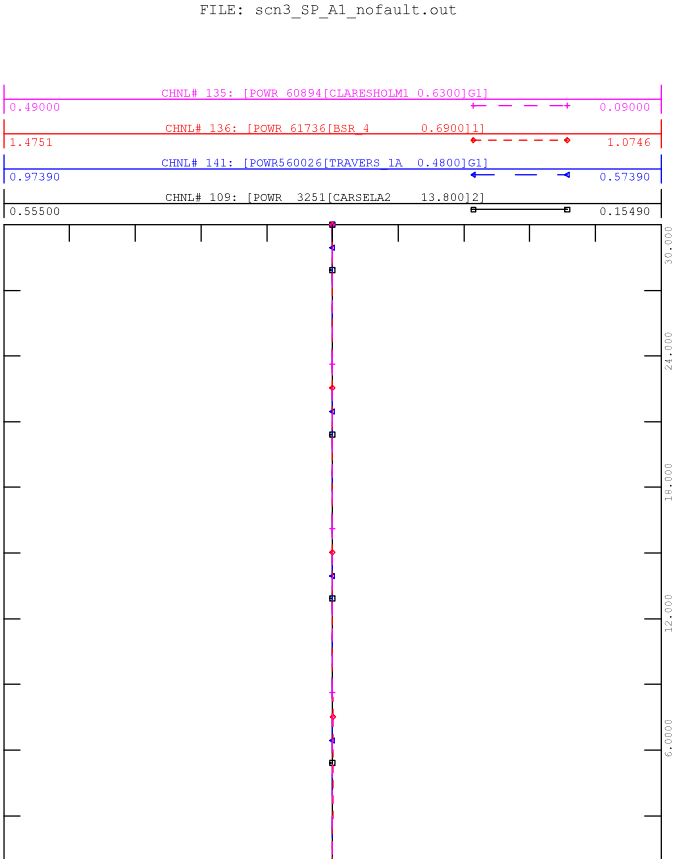
FILE: scn3_SP_A1_nofault.out



SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

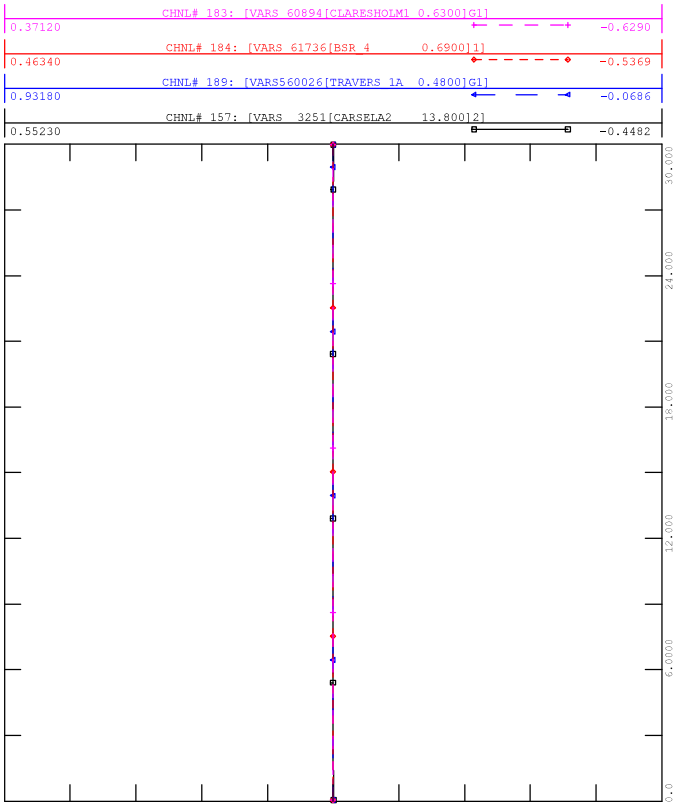
FILE: scn3_SP_A1_nofault.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

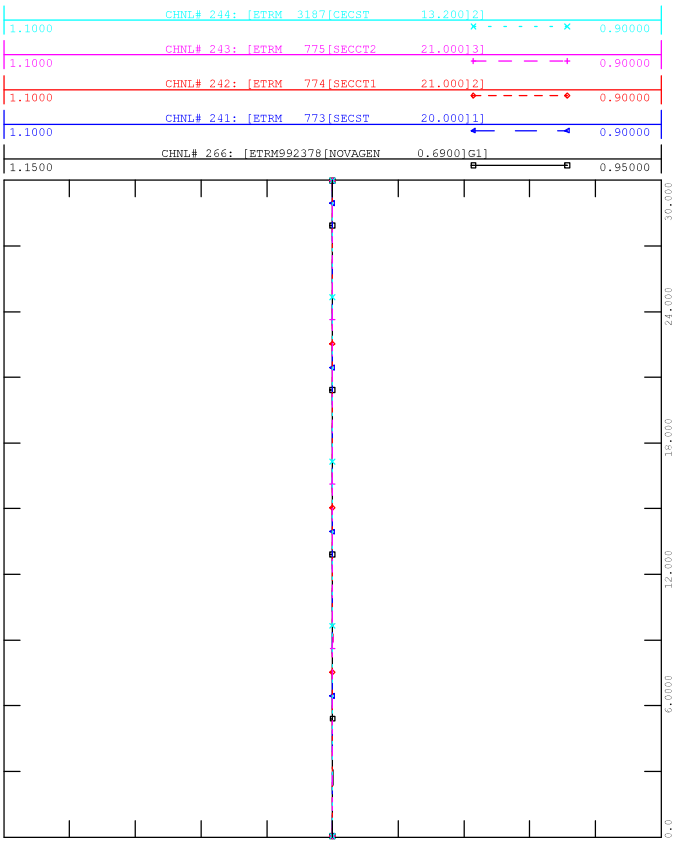
FILE: scn3_SP_A1_nofault.out



SAT, MAY 21 2022 1:15
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

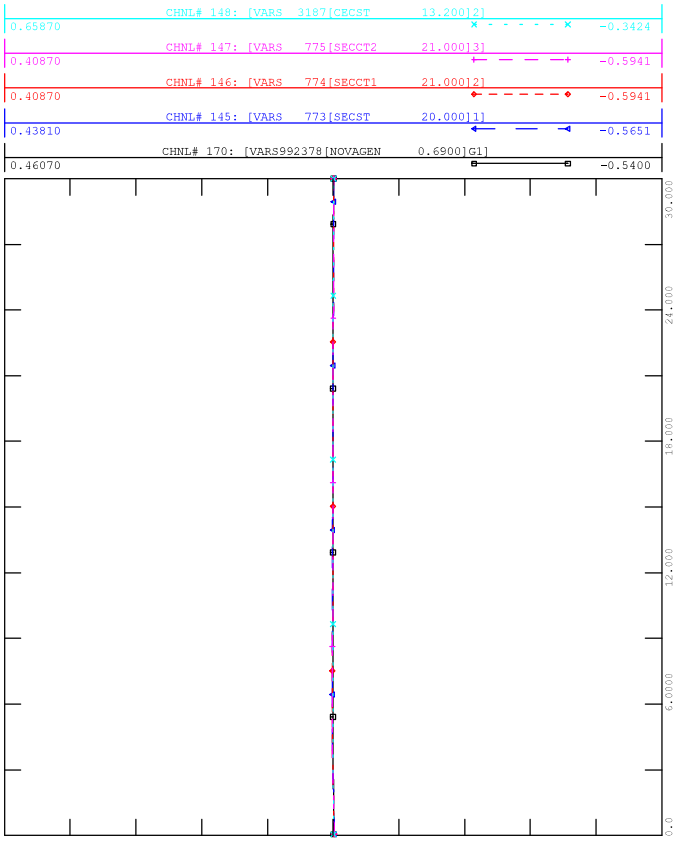
FILE: scn3_SP_A1_nofault.out



SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

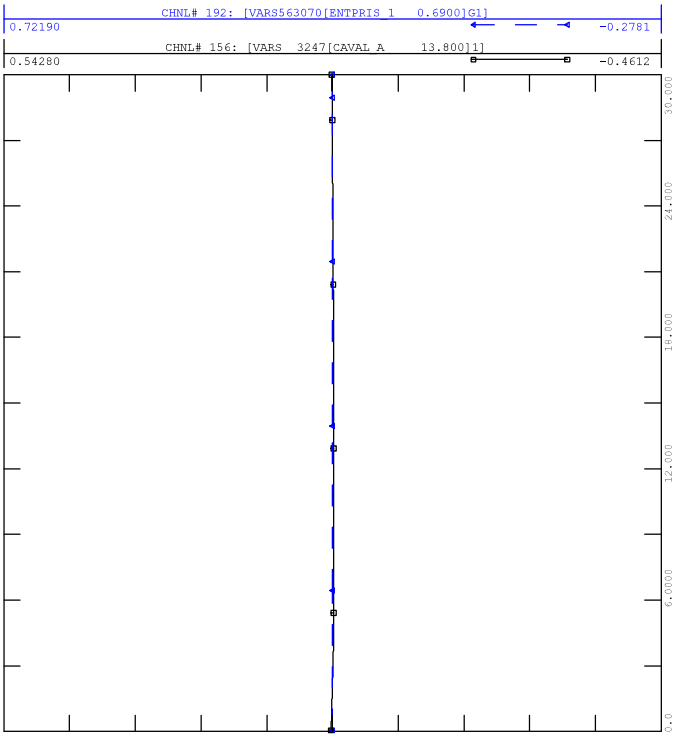
FILE: scn3_SP_A1_nofault.out



SAT, MAY 21 2022 1:15
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

FILE: scn3_SP_A1_nofault.out



SAT, MAY 21 2022 1:15
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

FILE: scn3_SP_A1_nofault.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.1000 0.90000

CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1403 0.94000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

FILE: scn3_SP_A1_nofault.out

SAT, MAY 21 2022 1:15
BRANCH P

CHNL# 333: [1107L P]
-290.3 -371.3

CHNL# 311: [1106L P]
-290.3 -371.3

CHNL# 323: [1005L P]
-314.5 -394.8

CHNL# 335: [1036L P]
-265.7 -345.9

CHNL# 327: [935L P]
47.448 -32.72

CHNL# 315: [923L P]
92.527 12.355

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

FILE: scn3_SP_A1_nofault.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.1000 0.90000

CHNL# 280: [ETRM 61736[BSR_4 0.6900]1]
1.1250 0.92490

CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2000 1.0000

CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1300 0.92990

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

FILE: scn3_SP_A1_nofault.out

SAT, MAY 21 2022 1:15
BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1293 0.92920

CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.1425 0.94240

CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1572 0.95710

CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1484 0.94830

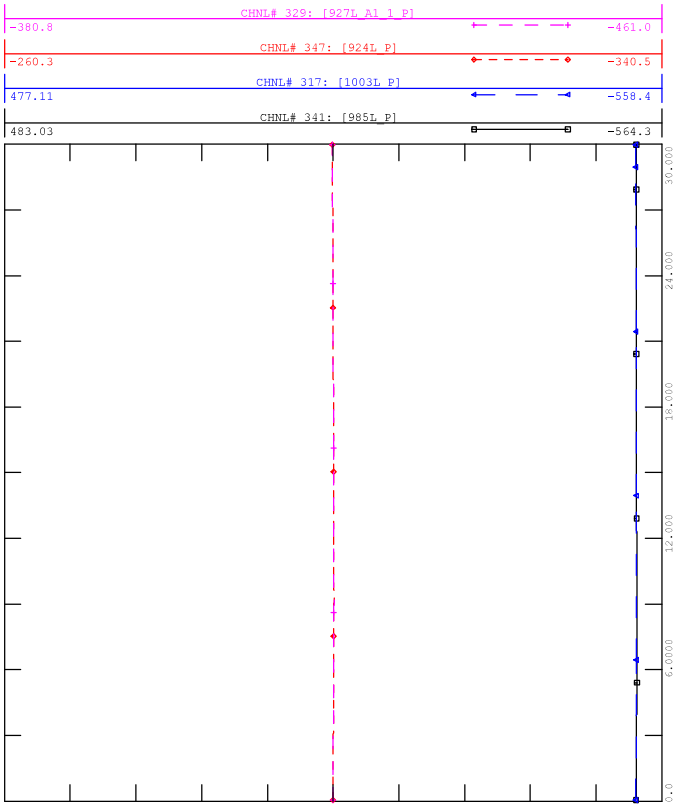
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.1410 0.94090

CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1540 0.95390

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

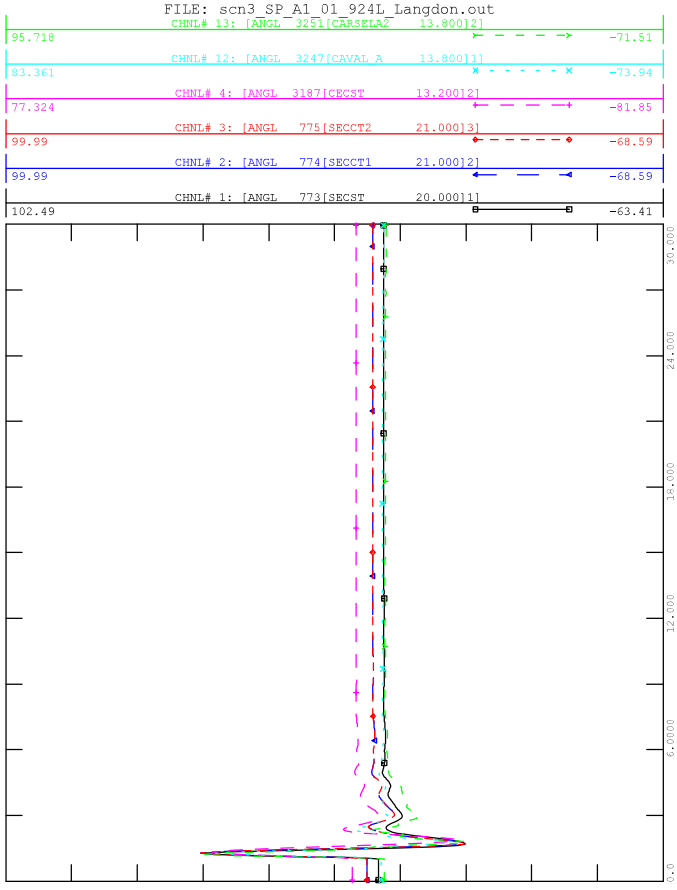
FILE: scn3_SP_A1_nofault.out



SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

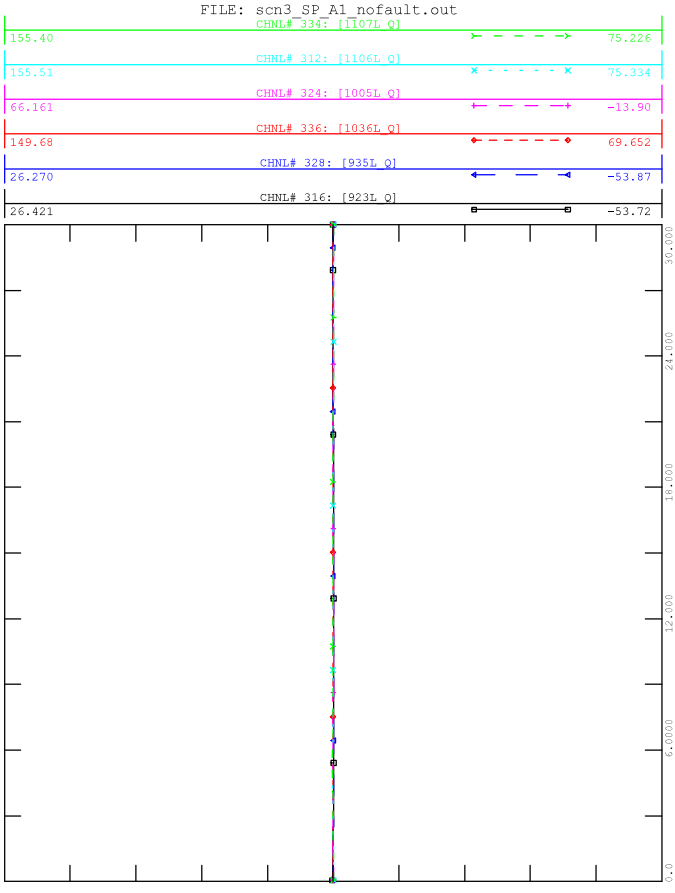
FILE: scn3_SP_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

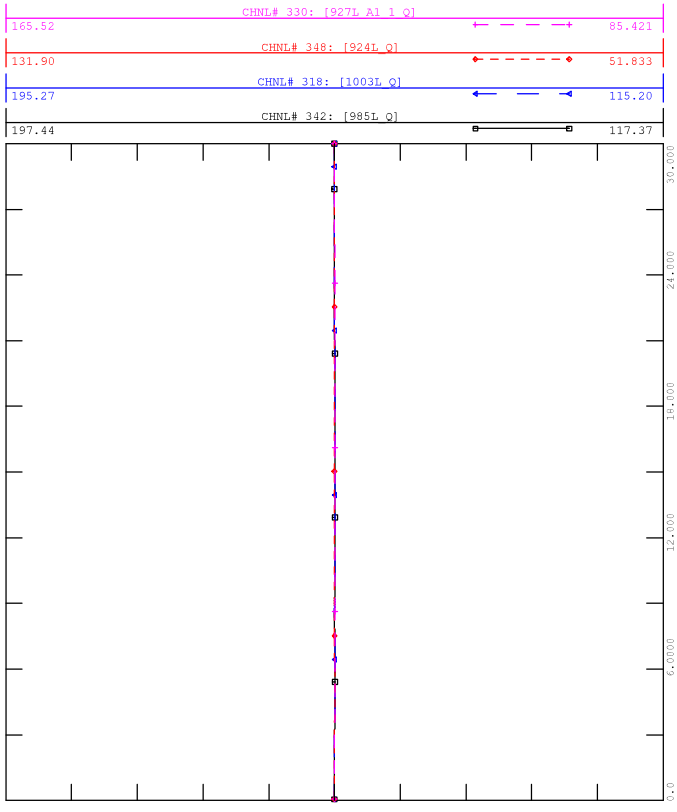
FILE: scn3_SP_A1_nofault.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_NOFAULT

FILE: scn3_SP_A1_nofault.out



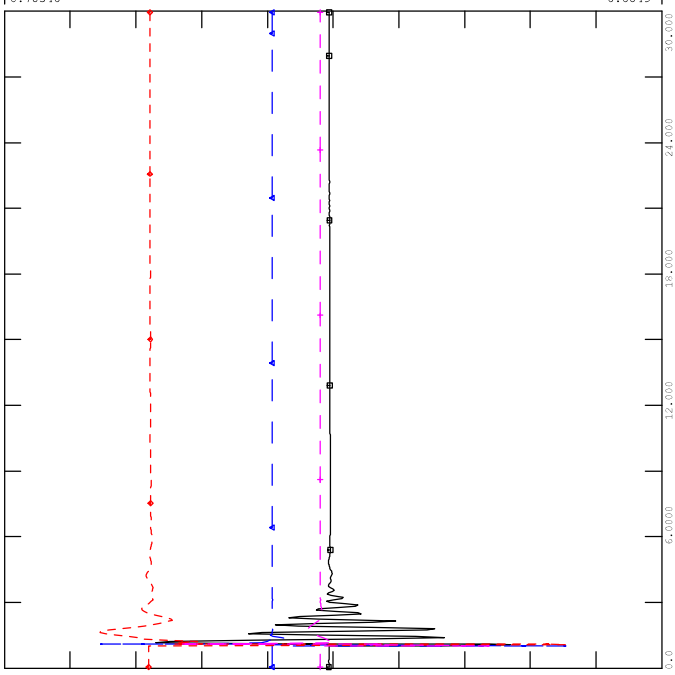
SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.65540 -0.1049
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.5759 0.20170
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3309 -0.0368
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.78340 -0.0849

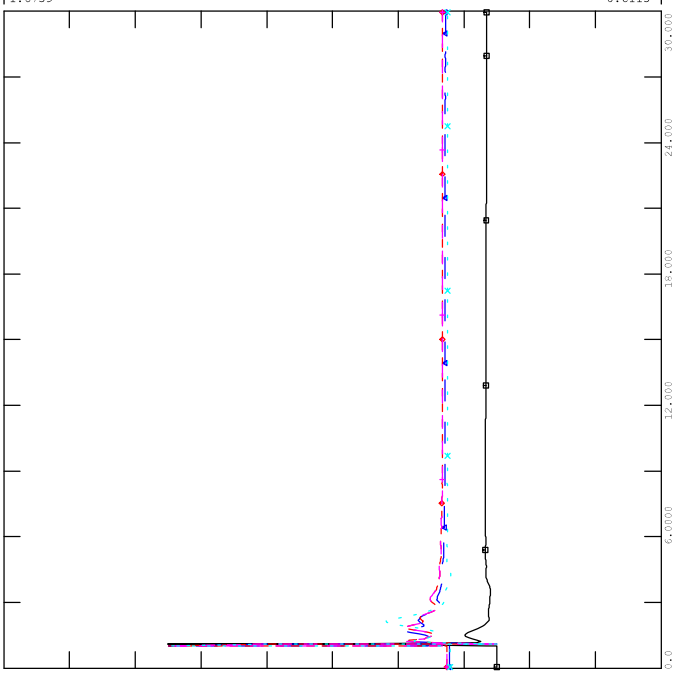


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

CHNL# 148: [VARS 3187[CECST 13.200]2]
3.1251 -1.247
CHNL# 147: [VARS 775[SECCT2 21.000]3]
5.9039 -2.995
CHNL# 146: [VARS 774[SECCT1 21.000]2]
5.9039 -2.995
CHNL# 145: [VARS 773[SECST 20.000]1]
7.3854 -3.609
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1]
1.6739 -0.6113

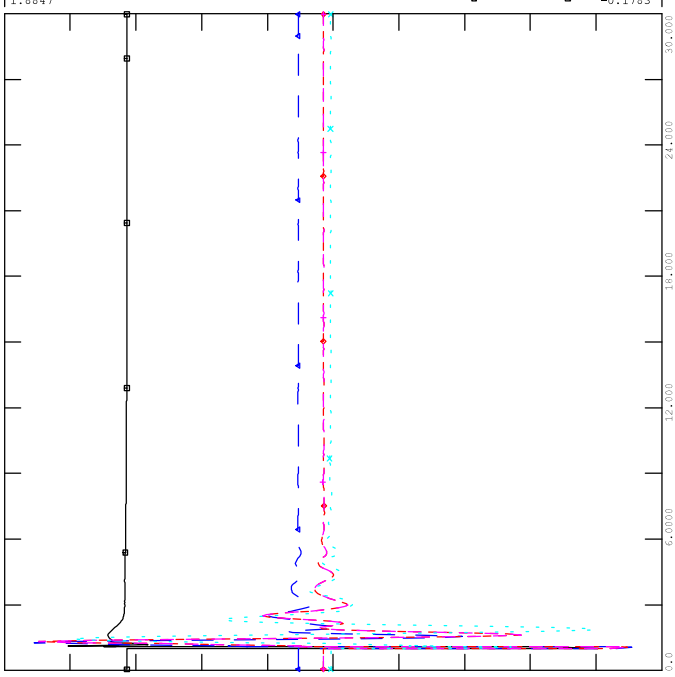


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2]
1.7719 -0.1582
CHNL# 99: [POWR 775[SECCT2 21.000]3]
4.1128 0.28400
CHNL# 98: [POWR 774[SECCT1 21.000]2]
4.1128 0.28400
CHNL# 97: [POWR 773[SECST 20.000]1]
5.0507 0.47160
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
1.8847 -0.1783

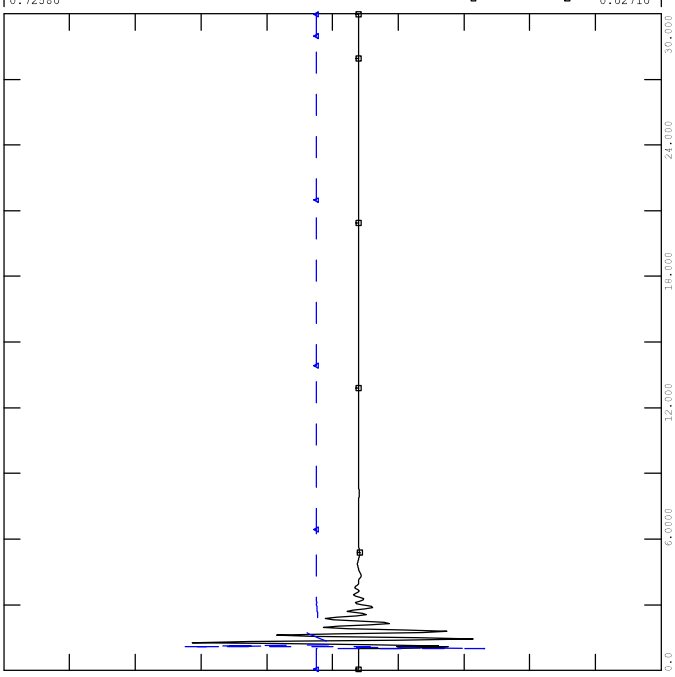


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 144: [POWR563070[ENTPRIS 1 0.6900]G1]
0.67900 -0.0658
CHNL# 108: [POWR 3247[CAVAL A 13.800]1]
0.72580 0.02710

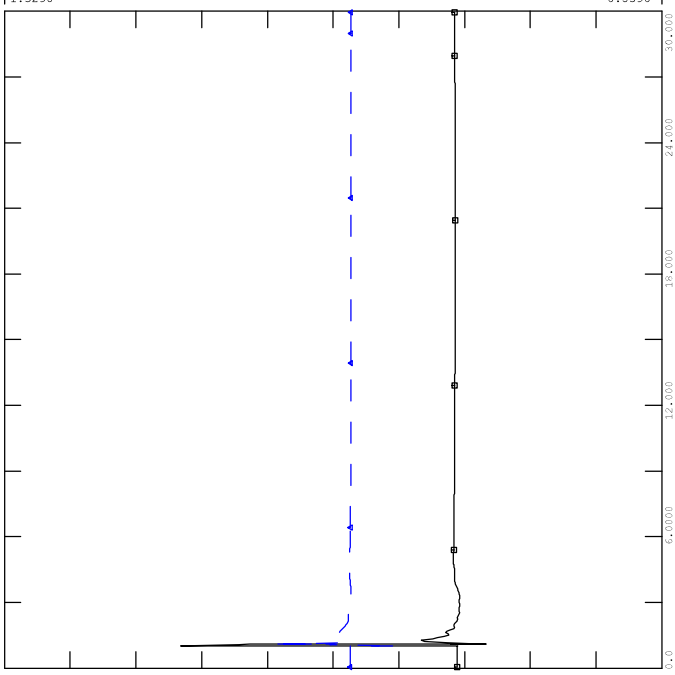


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1]
0.87220 -0.3647
CHNL# 156: [VARS 3247[CAVAL A 13.800]1]
1.3298 -0.5390

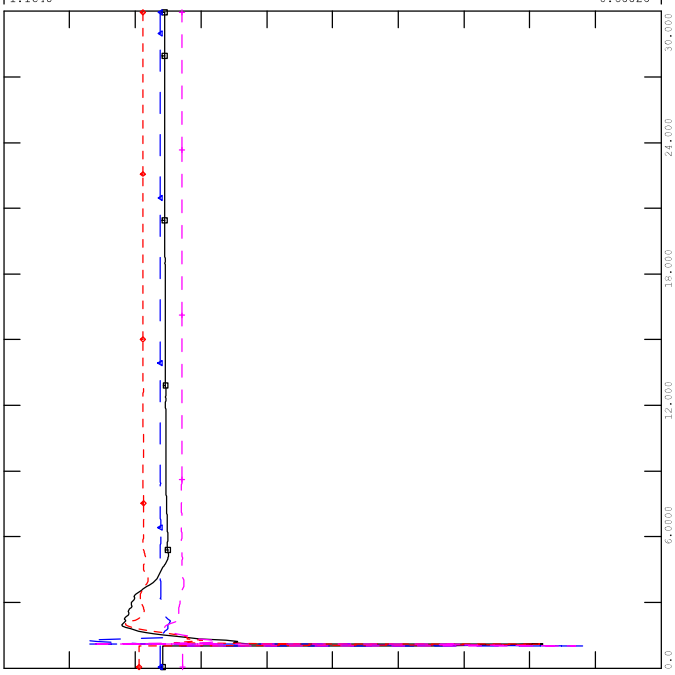


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2082 0.44330
CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1361 0.59680
CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2988 0.46440
CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1648 0.60820

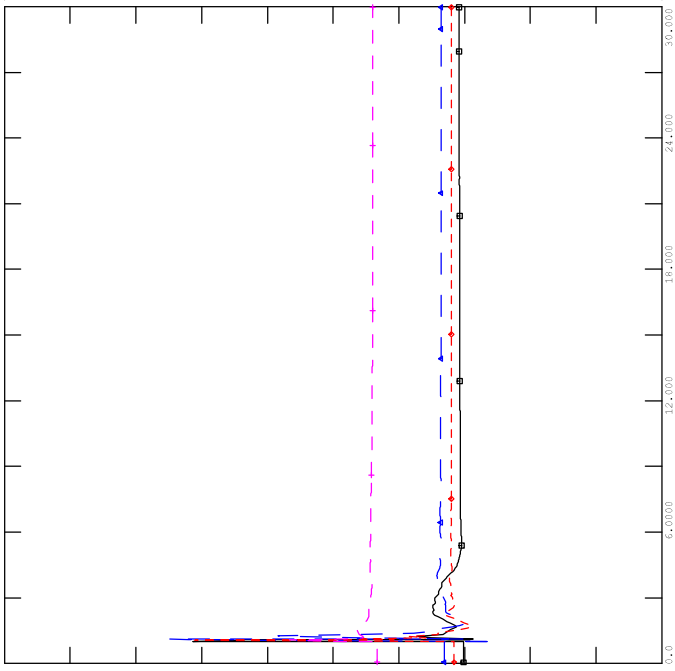


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.52450 -0.6289
CHNL# 184: [VARS 61736[BSR 4 0.6900]1]
1.1433 -0.5817
CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1]
2.1652 -0.4266
CHNL# 157: [VARS 3251[CARSELA2 13.800]2]
1.2691 -0.4751

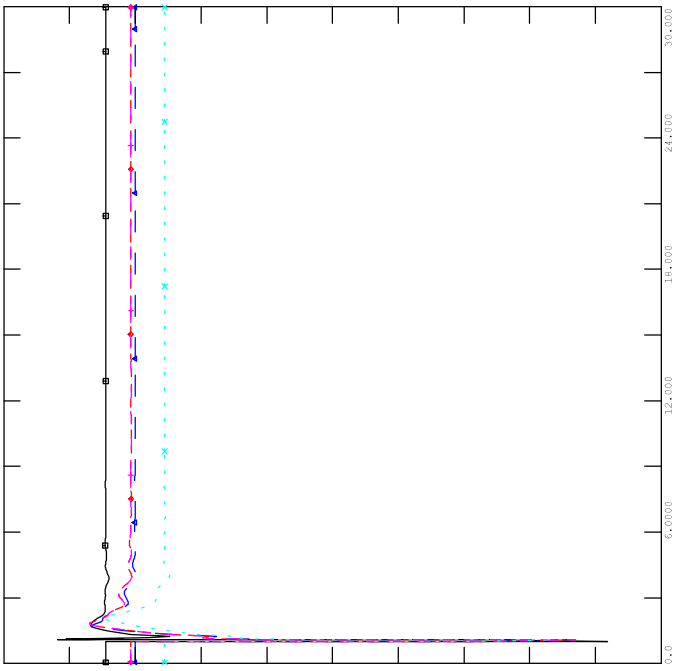


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

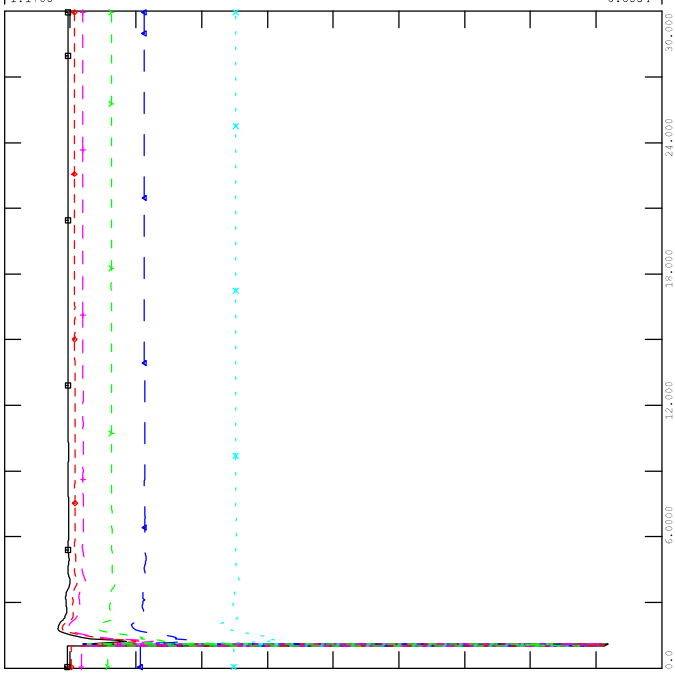
CHNL# 244: [ETRM 3187[CECST 13.200]2]
1.1618 0.50010
CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1483 0.38110
CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1483 0.38110
CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1504 0.39660
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.2394 0.01700



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1544 0.35960
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.2926 0.57620
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1786 0.13850
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1642 0.02310
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2146 0.37490
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1708 -0.0554



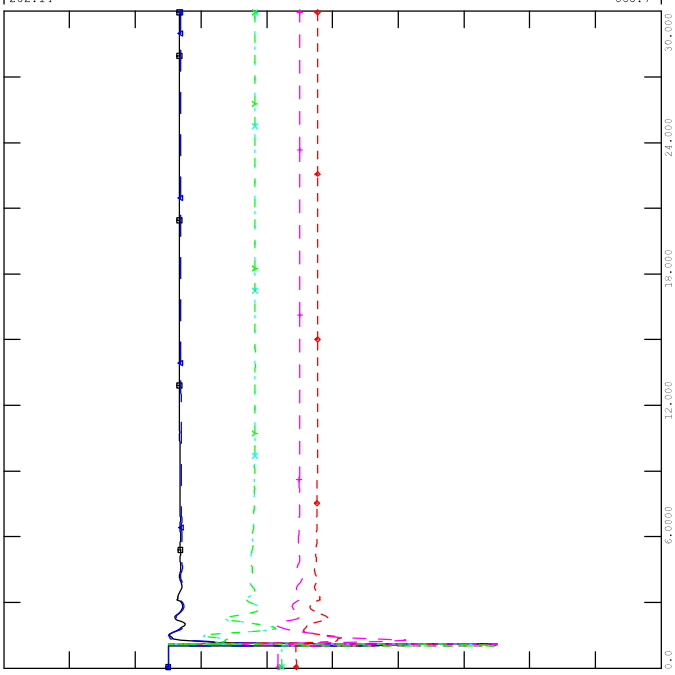
TIME (SECONDS)

SAT, MAY 21 2022 1:15
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

CHNL# 334: [1107L Q]
323.43 -168.6
CHNL# 312: [1106L Q]
323.64 -168.6
CHNL# 324: [1005L Q]
252.99 -290.6
CHNL# 336: [1036L Q]
329.26 -164.6
CHNL# 328: [935L Q]
181.63 -599.8
CHNL# 316: [923L Q]
202.14 -660.7



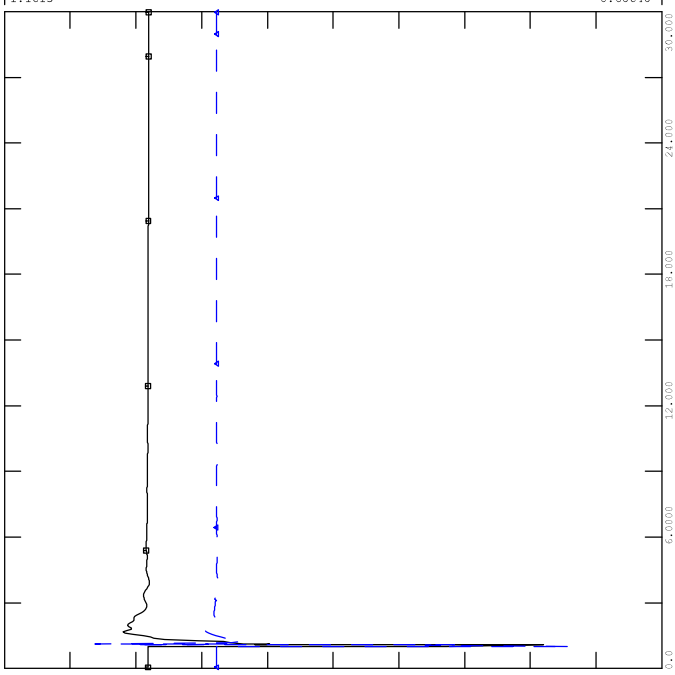
TIME (SECONDS)

SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2352 0.50690
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1613 0.60640



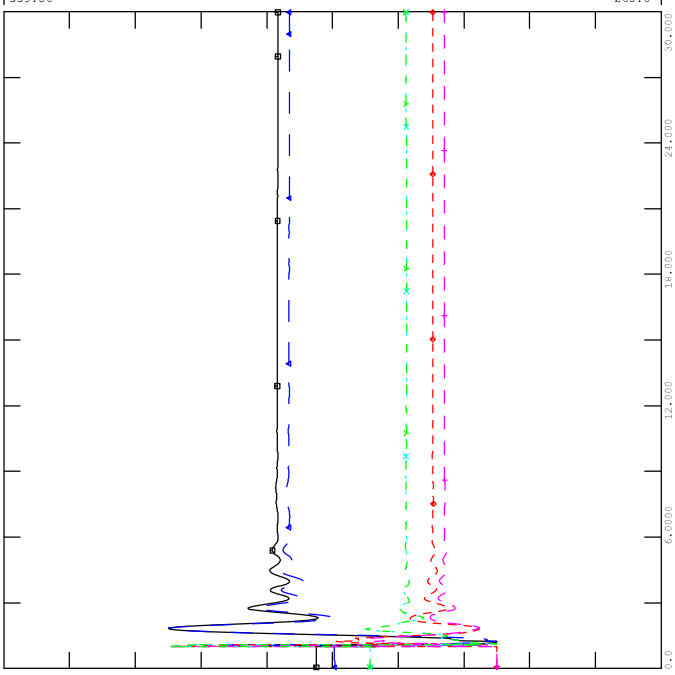
TIME (SECONDS)

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

FILE: scn3_SP_A1_01_924L_Langdon.out

CHNL# 333: [1107L P]
119.65 -687.5
CHNL# 311: [1106L P]
119.63 -687.6
CHNL# 323: [1005L P]
96.891 -505.1
CHNL# 335: [1036L P]
55.421 -426.1
CHNL# 327: [935L P]
264.31 -246.5
CHNL# 315: [923L P]
339.56 -265.0

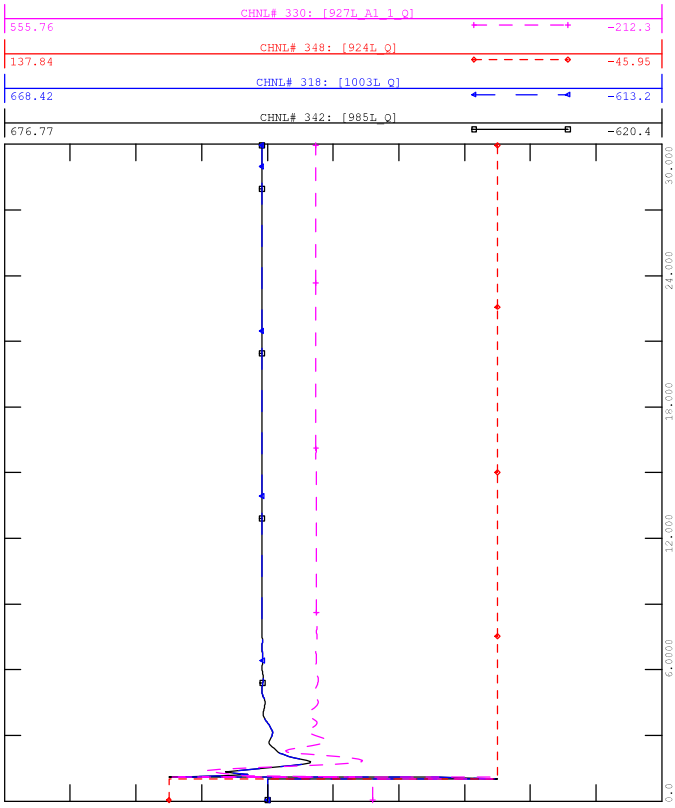


TIME (SECONDS)

SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

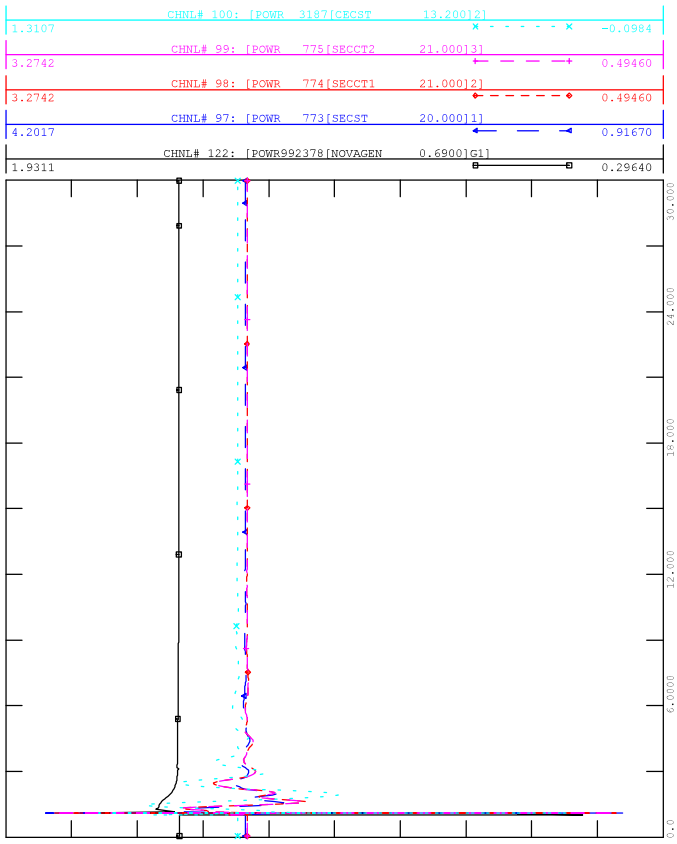
FILE: scn3_SP_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

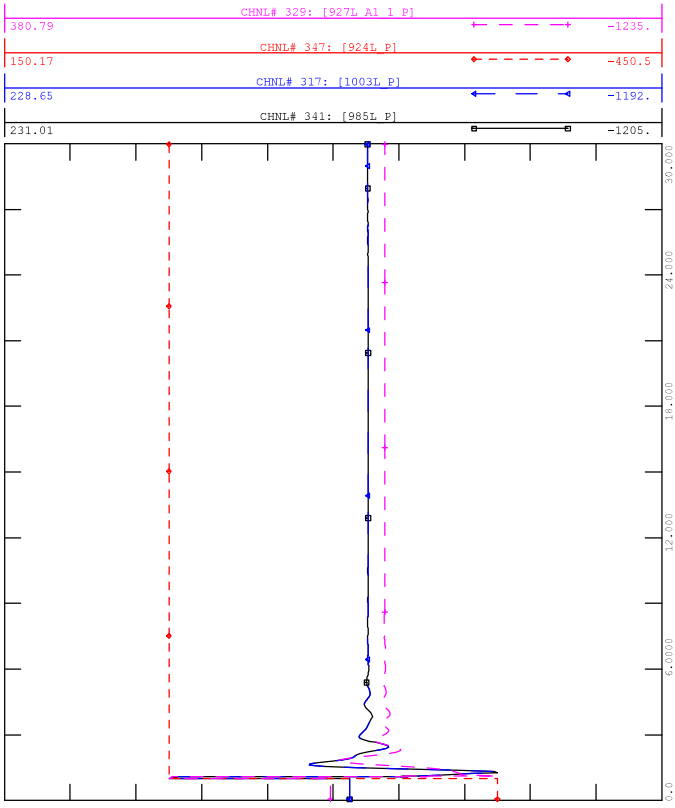
FILE: scn3_SP_A1_02_924L_Milo.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_01_924L_LANGDON

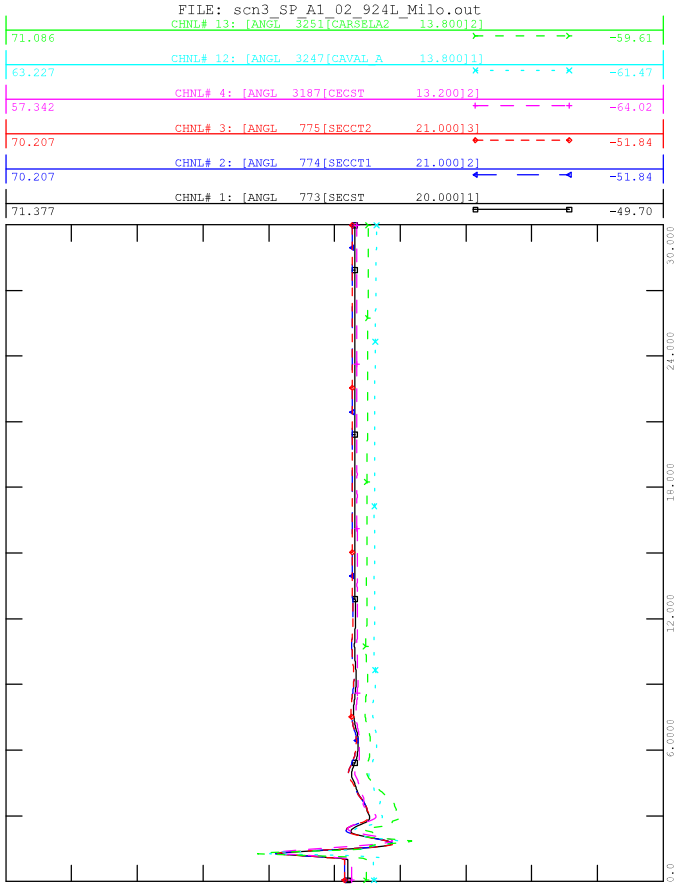
FILE: scn3_SP_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

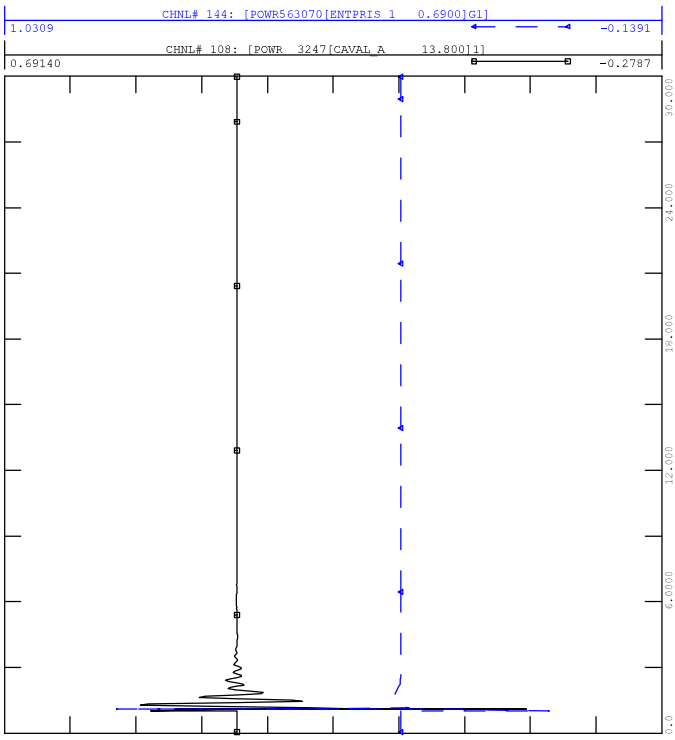


SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

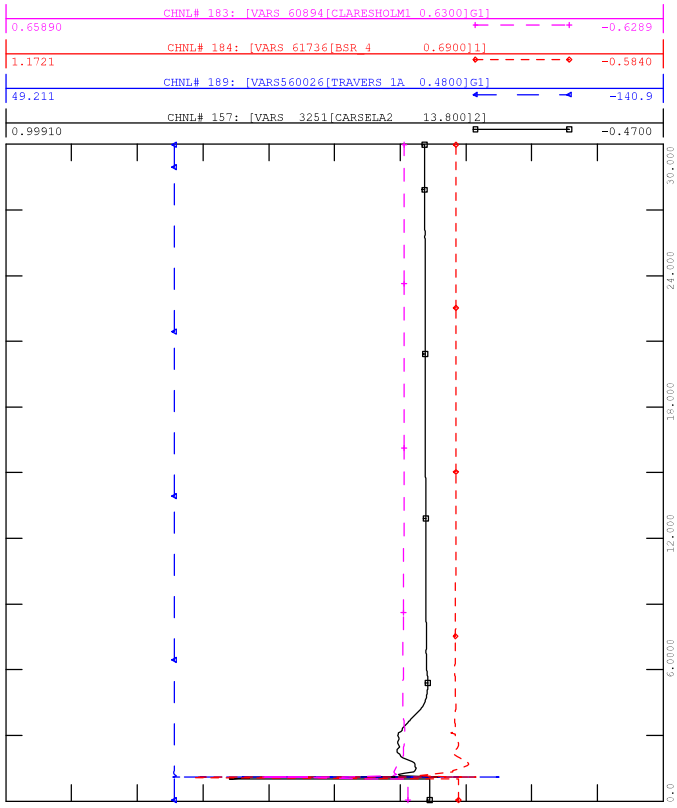
SAT, MAY 21 2022 1:15
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

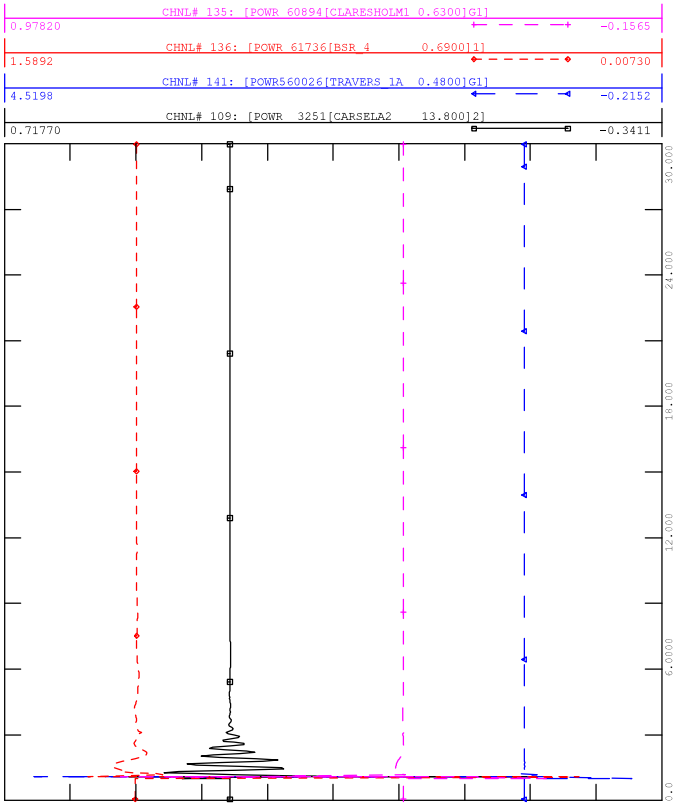
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

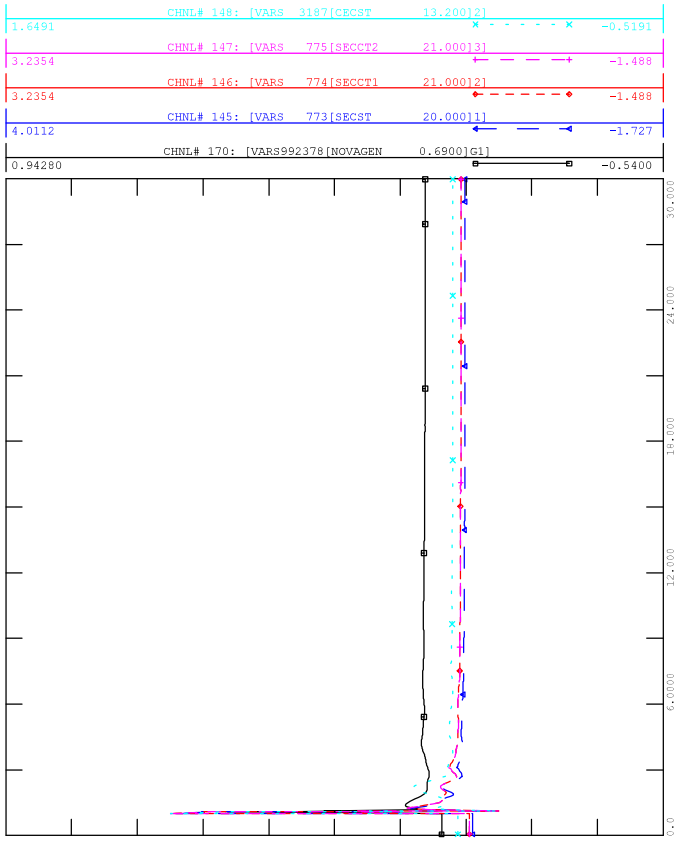
SAT, MAY 21 2022 1:15
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

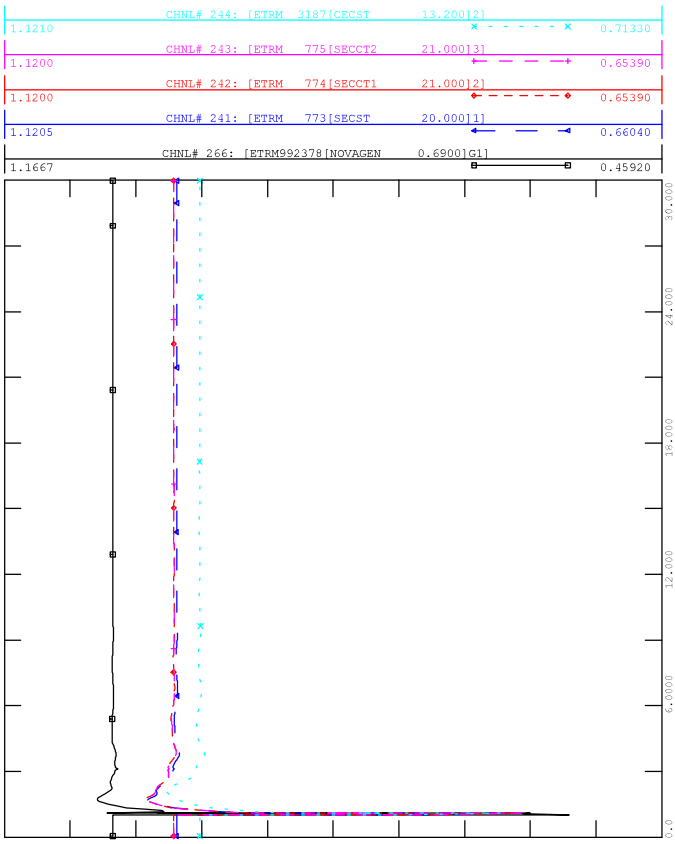


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

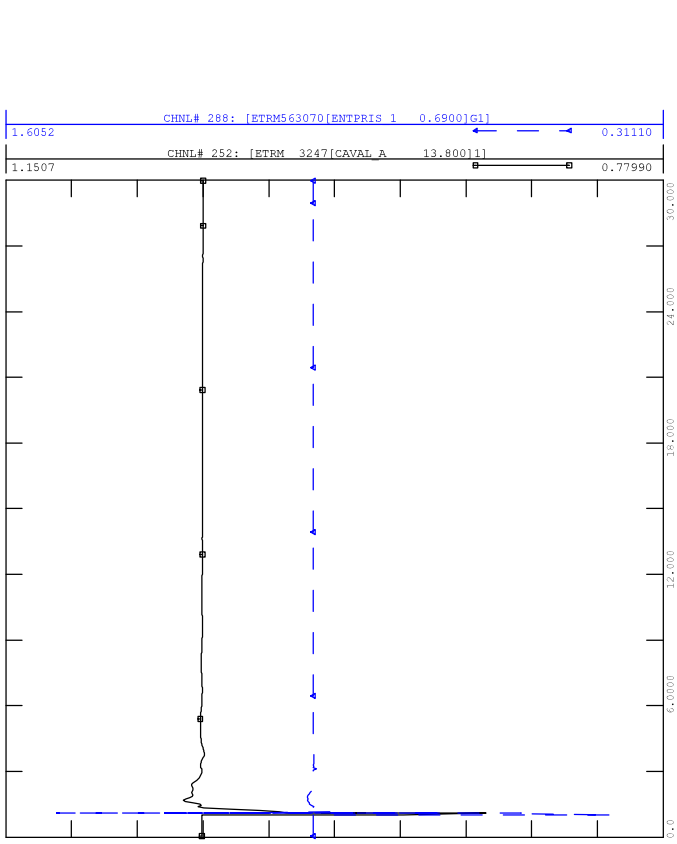


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

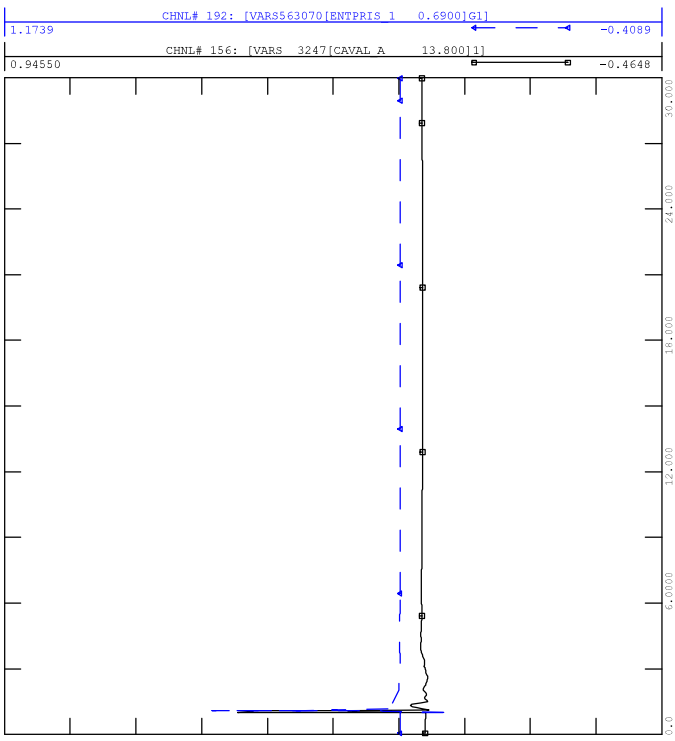


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

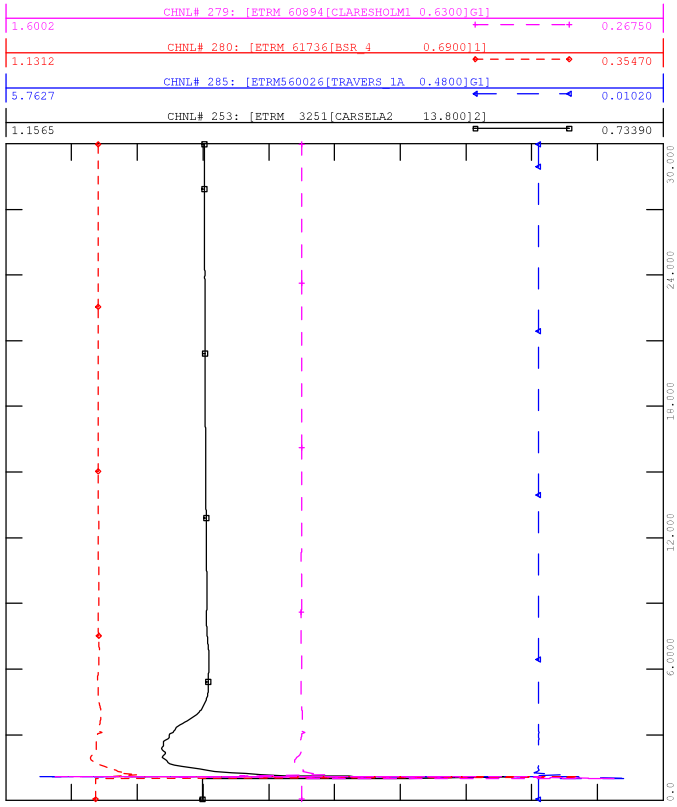


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

CHNL# 333: [1107L P]
205.59 -1065.

CHNL# 311: [1106L P]
205.71 -1065.

CHNL# 323: [1005L P]
2692.2 -4522.

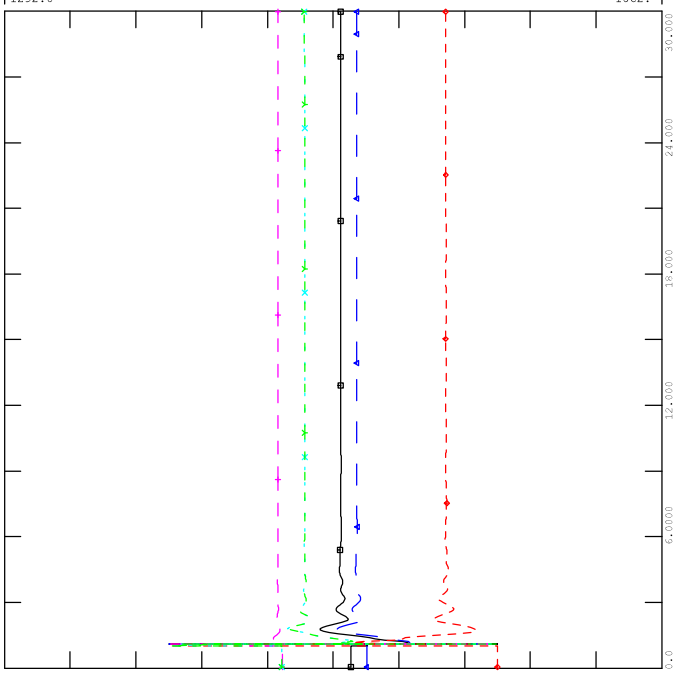
CHNL# 335: [1036L P]
143.75 -455.6

CHNL# 327: [935L P]
1279.3 -1029.

CHNL# 315: [923L P]
1292.0 -1062.

SAT, MAY 21 2022 1:15
BRANCH P

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

CHNL# 329: [927L A1_1 P]
768.02 -2111.

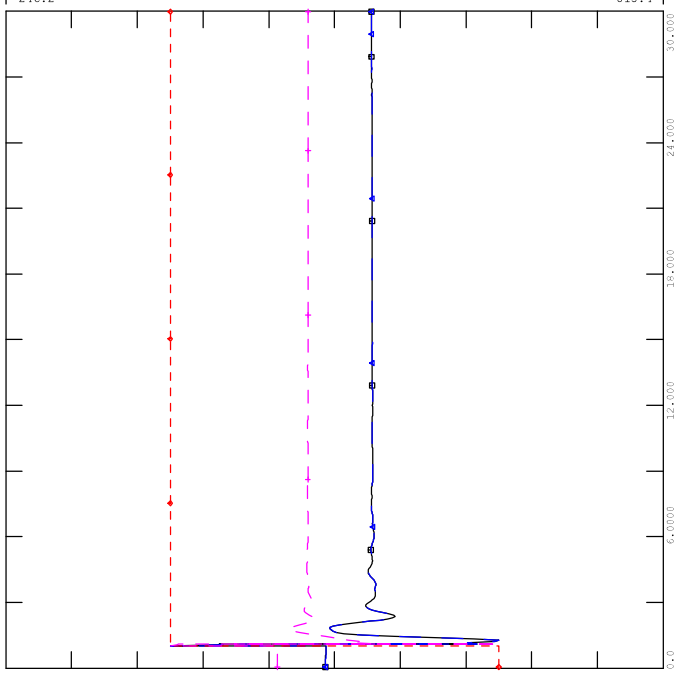
CHNL# 347: [924L P]
150.17 -450.5

CHNL# 317: [1003L P]
-243.3 -806.2

CHNL# 341: [985L P]
-246.2 -815.4

SAT, MAY 21 2022 1:15
BRANCH P

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.6799 0.12770

CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.5136 0.26640

CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1671 0.58480

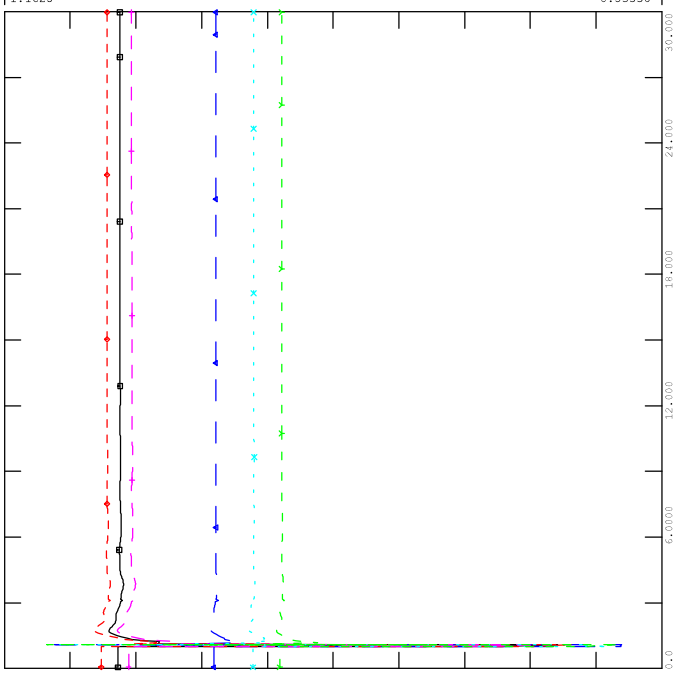
CHNL# 310: [VOLT 902378 [927L_TAP 240.00]]
1.1559 0.42650

CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.5616 -0.0748

CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1625 0.53330

SAT, MAY 21 2022 1:15
BUS VOLTAGE

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

CHNL# 334: [1107L Q]
389.18 -172.7

CHNL# 312: [1106L Q]
389.26 -172.6

CHNL# 324: [1005L Q]
1157.7 -2859.

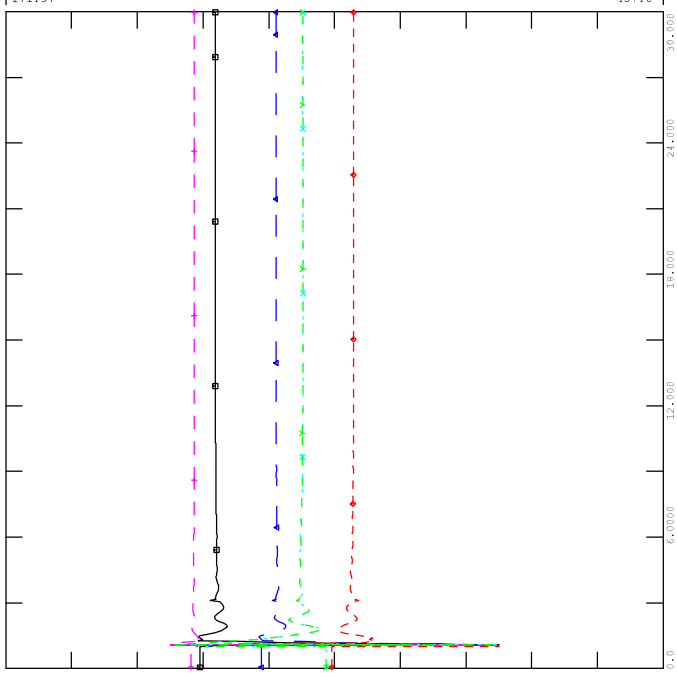
CHNL# 336: [1036L Q]
352.37 -137.1

CHNL# 328: [935L Q]
252.85 -432.6

CHNL# 316: [923L Q]
171.97 -457.0

SAT, MAY 21 2022 1:15
BRANCH Q

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
95.659 -73.03
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
82.282 -75.37
CHNL# 4: [ANGL 3187[CECST 13.200]2]
77.177 -83.74
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
100.14 -70.54
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
100.14 -70.54
CHNL# 1: [ANGL 773[SECST 20.000]1]
102.57 -65.71

SAT, MAY 21 2022 1:15
ROTOR ANGLE
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.64080 -0.1035
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.5864 0.17340
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
1.2787 -0.0349
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.80320 -0.0890

SAT, MAY 21 2022 1:15
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_02_924L_MILO

FILE: scn3_SP_A1_02_924L_Milo.out

CHNL# 330: [927L A1 1 Q]
1008.7 -544.3
CHNL# 348: [924L Q]
137.84 -45.95
CHNL# 318: [1003L Q]
363.16 -160.1
CHNL# 342: [985L Q]
367.83 -161.6

SAT, MAY 21 2022 1:15
BRANCH Q
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

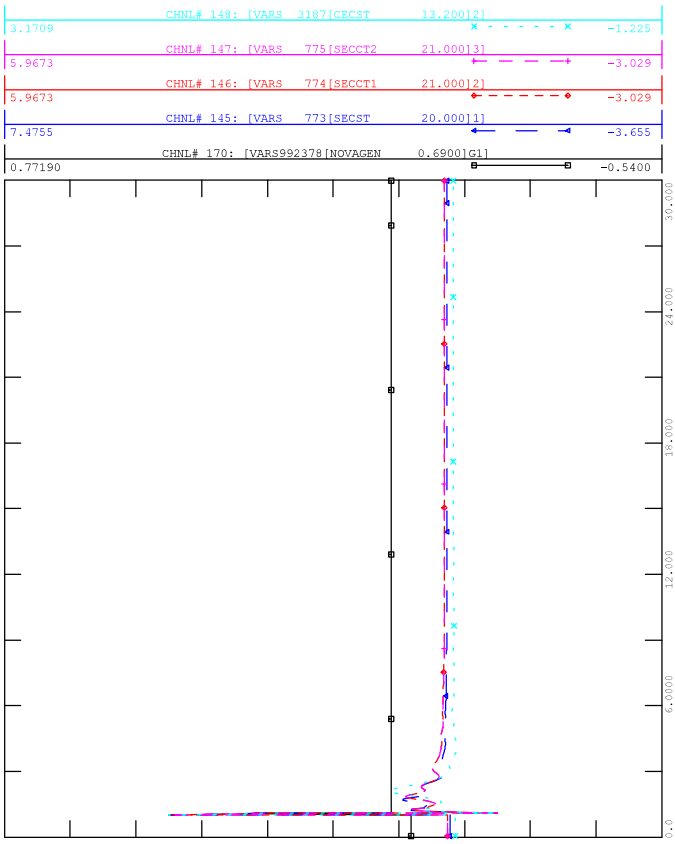
FILE: scn3_SP_A1_03_927L_Langdon.out

CHNL# 100: [POWR 3187[CECST 13.200]2]
1.7965 -0.1919
CHNL# 99: [POWR 775[SECCT2 21.000]3]
4.1720 0.21130
CHNL# 98: [POWR 774[SECCT1 21.000]2]
4.1720 0.21130
CHNL# 97: [POWR 773[SECST 20.000]1]
5.2047 0.36190
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
1.7000 -0.2000

SAT, MAY 21 2022 1:15
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

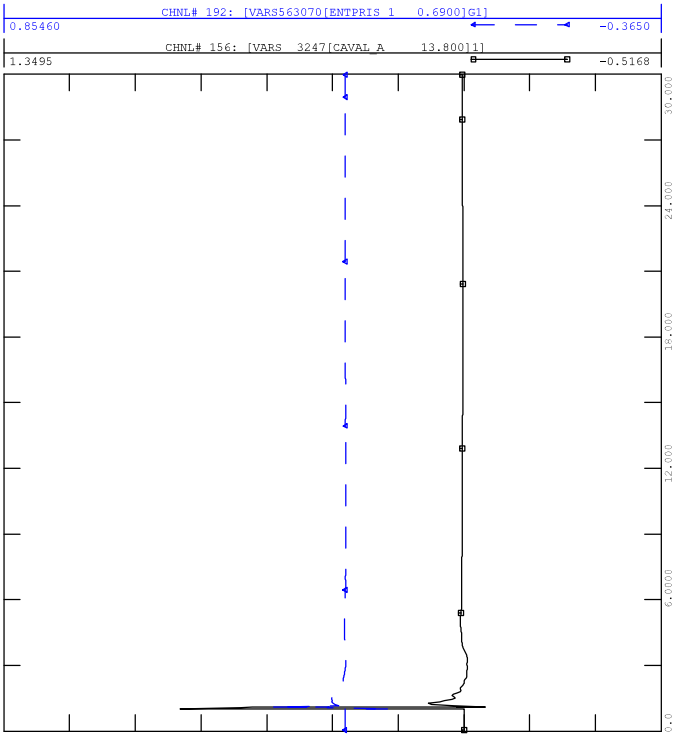
FILE: scn3_SP_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:15
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

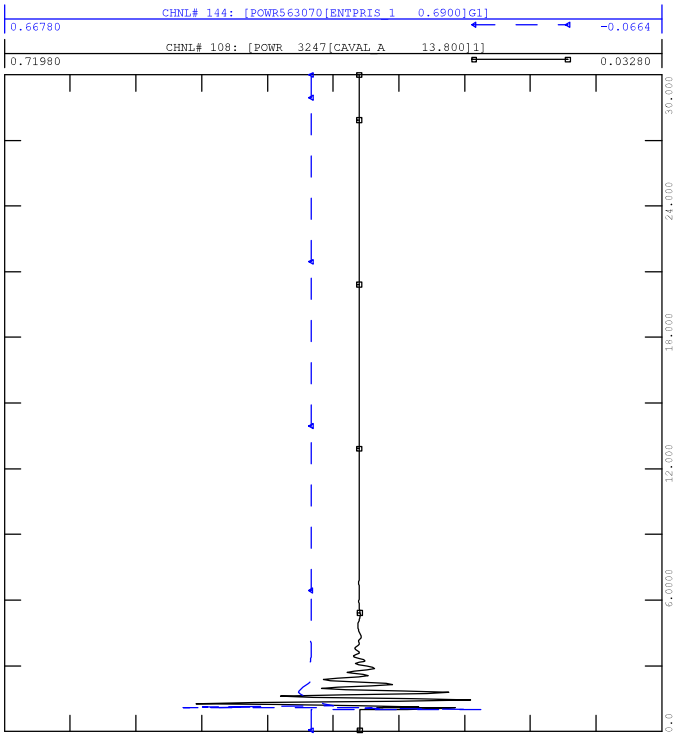
FILE: scn3_SP_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:15
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

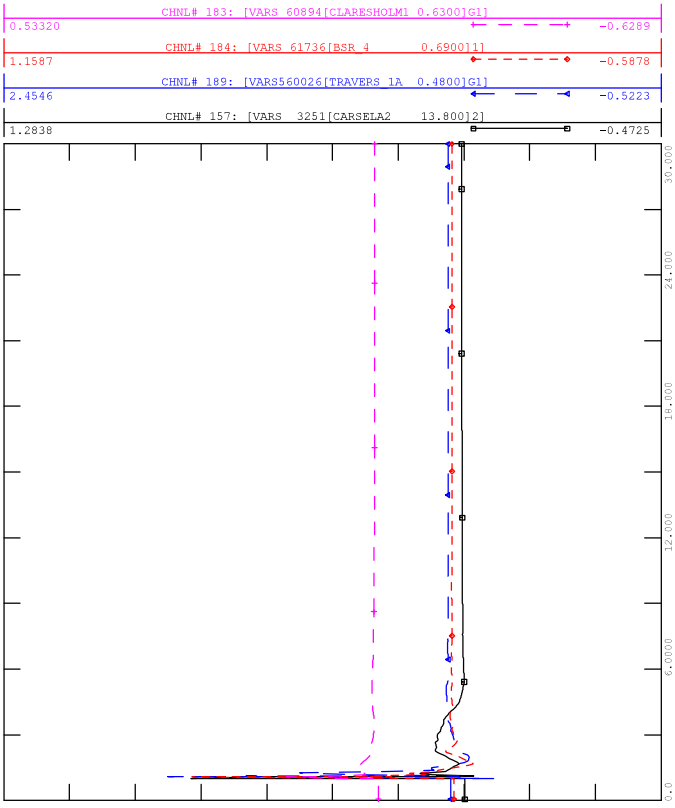
FILE: scn3_SP_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out



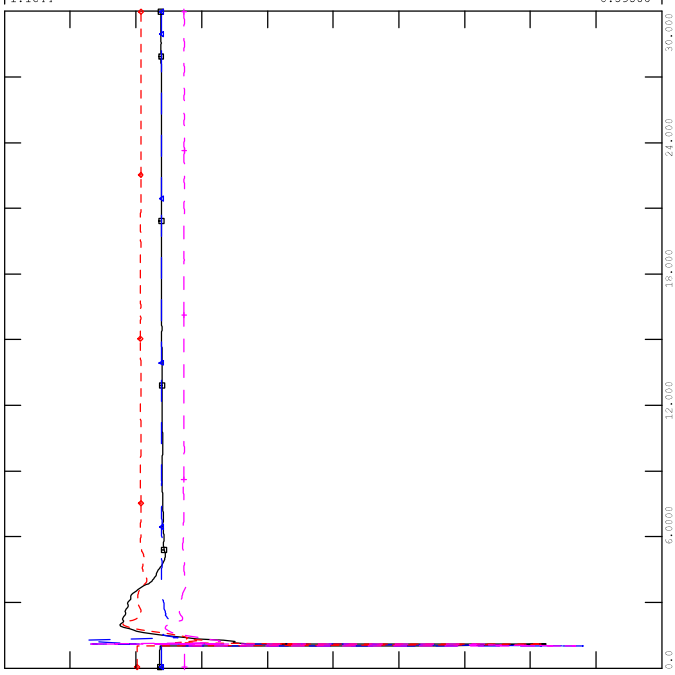
SAT, MAY 21 2022 1:15
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2088 0.44740
CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1368 0.58270
CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2994 0.46590
CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1644 0.59580

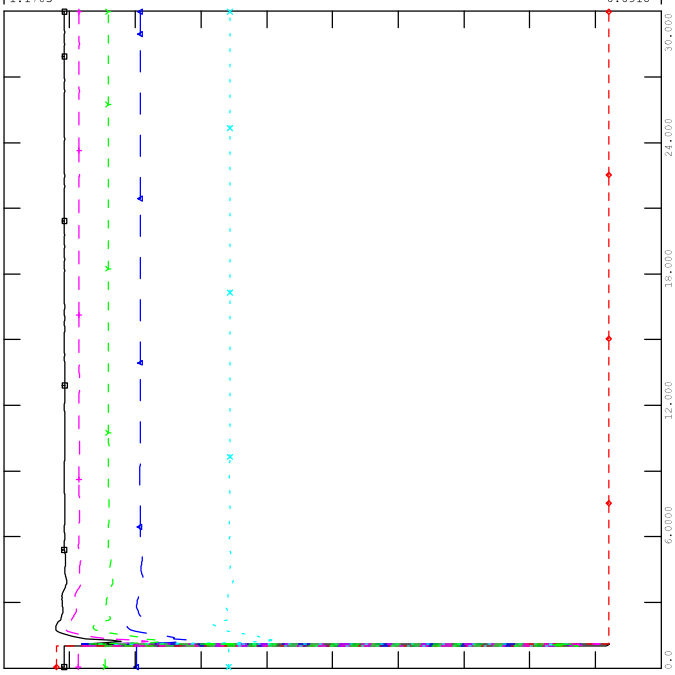


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15
BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1512 0.36220
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.2943 0.55720
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1781 0.10900
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1484 -0.1000
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2126 0.36360
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1703 -0.0918

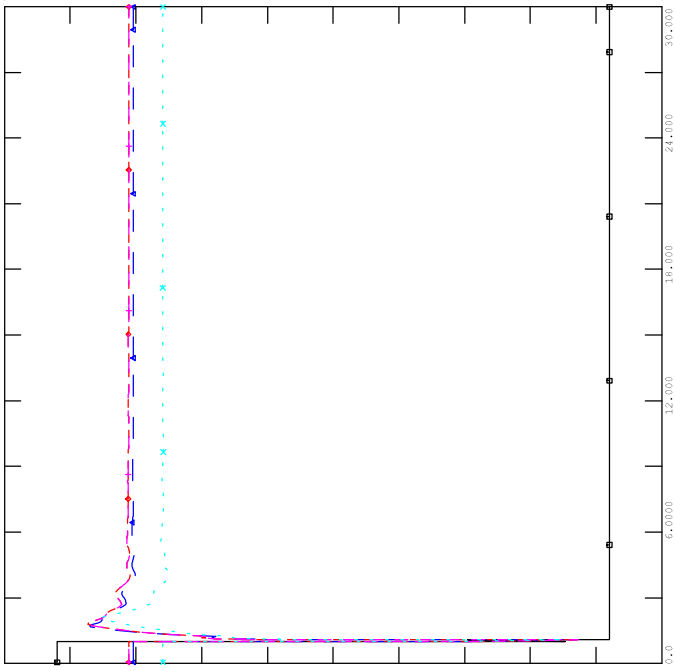


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

CHNL# 244: [ETRM 3187[CECST 13.200]2]
1.1635 0.48570
CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1482 0.36280
CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1482 0.36280
CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1514 0.37900
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 -0.1000

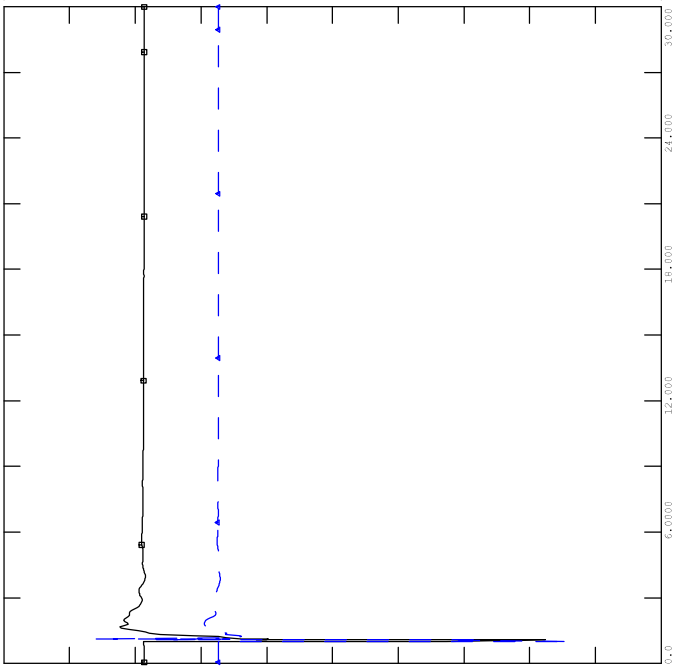


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

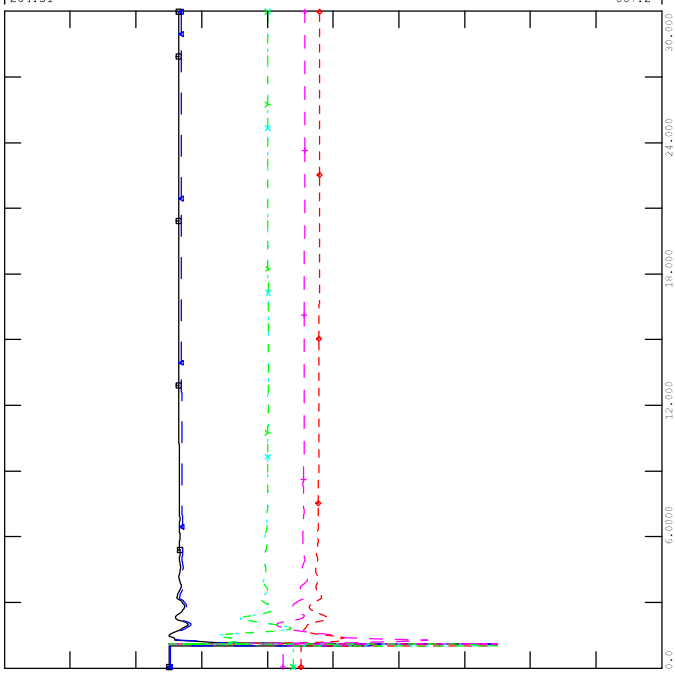
CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2377 0.50850
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1610 0.59350



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out

CHNL# 334: [1107L Q]
349.99 -184.0
CHNL# 312: [1106L Q]
350.21 -184.0
CHNL# 324: [1005L Q]
239.29 -263.8
CHNL# 336: [1036L Q]
343.98 -175.8
CHNL# 328: [935L Q]
188.38 -611.7
CHNL# 316: [923L Q]
204.31 -667.2

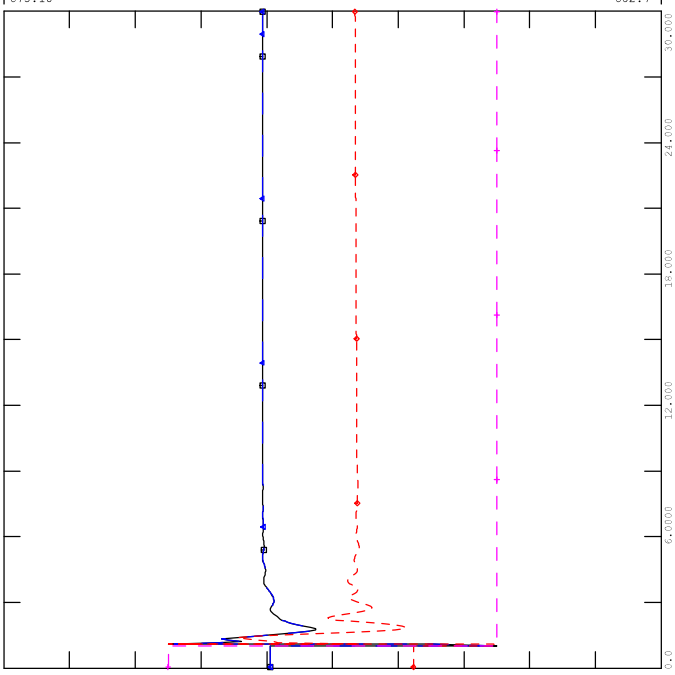


SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out

CHNL# 330: [927L A1 1 Q]
188.28 -62.76
CHNL# 348: [924L Q]
572.06 -198.8
CHNL# 318: [1003L Q]
666.84 -595.7
CHNL# 342: [985L Q]
675.18 -602.7

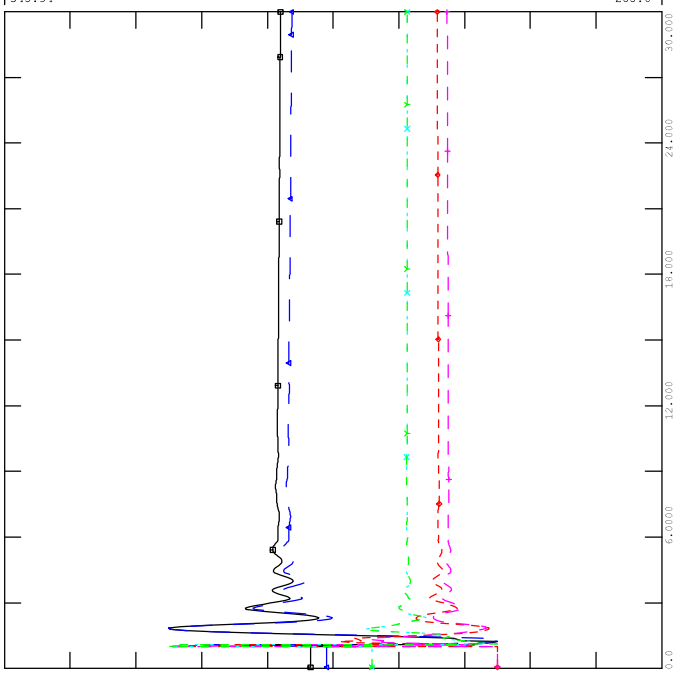


SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out

CHNL# 333: [1107L P]
127.30 -691.2
CHNL# 311: [1106L P]
127.28 -691.3
CHNL# 323: [1005L P]
85.611 -501.3
CHNL# 335: [1036L P]
51.227 -424.7
CHNL# 327: [935L P]
270.16 -265.8
CHNL# 315: [923L P]
345.94 -285.0

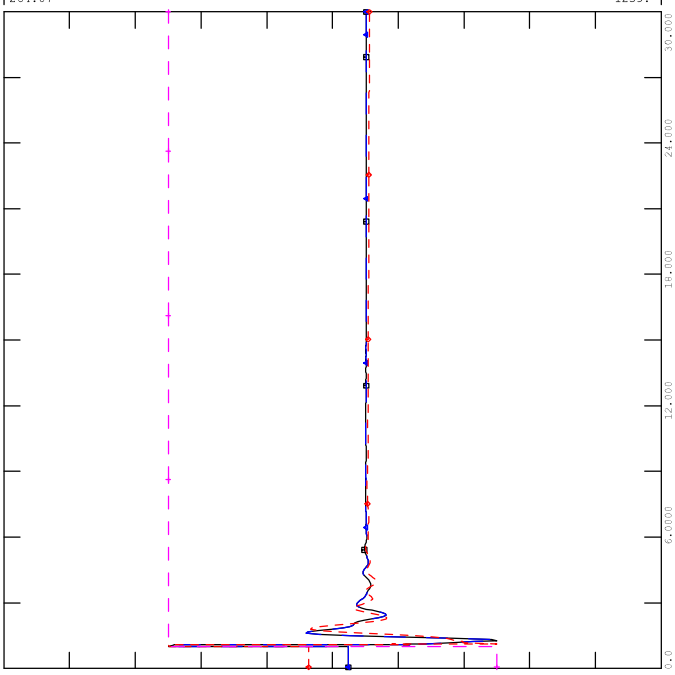


SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_03_927L_LANGDON

FILE: scn3_SP_A1_03_927L_Langdon.out

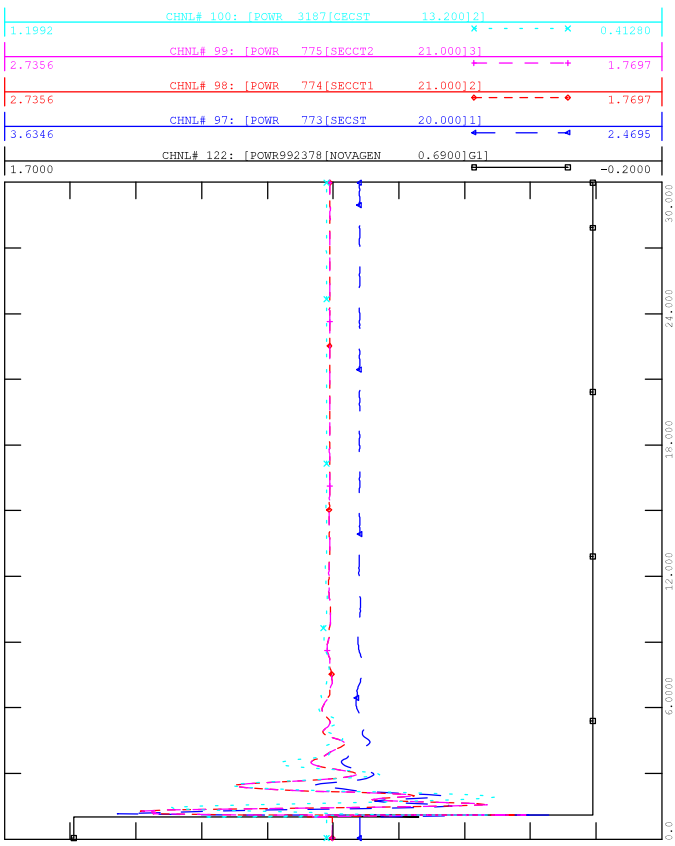
CHNL# 329: [927L A1 1 P]
210.42 -631.3
CHNL# 347: [924L P]
341.99 -1045.
CHNL# 317: [1003L P]
261.32 -1225.
CHNL# 341: [985L P]
264.07 -1239.



SAT, MAY 21 2022 1:15
BRANCH P

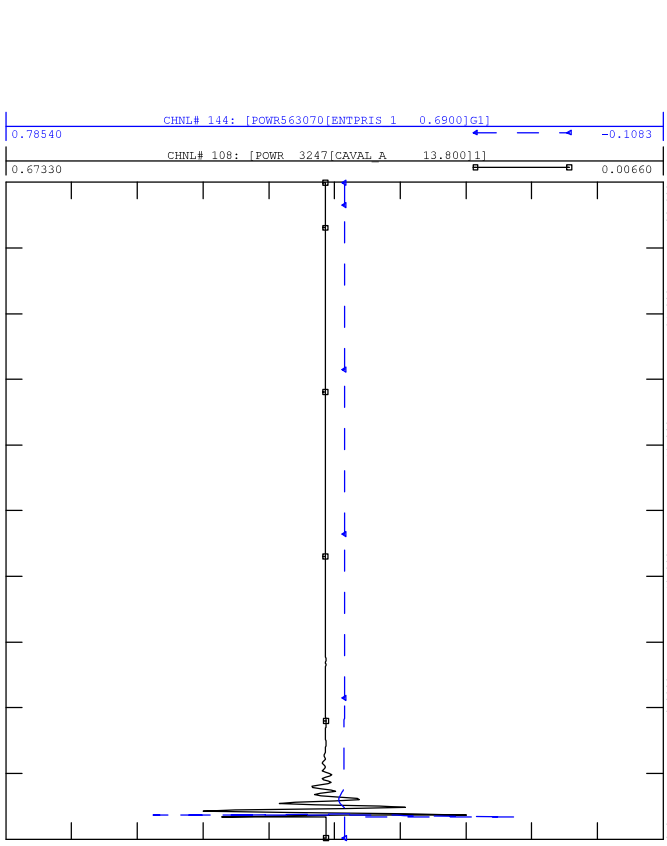
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out



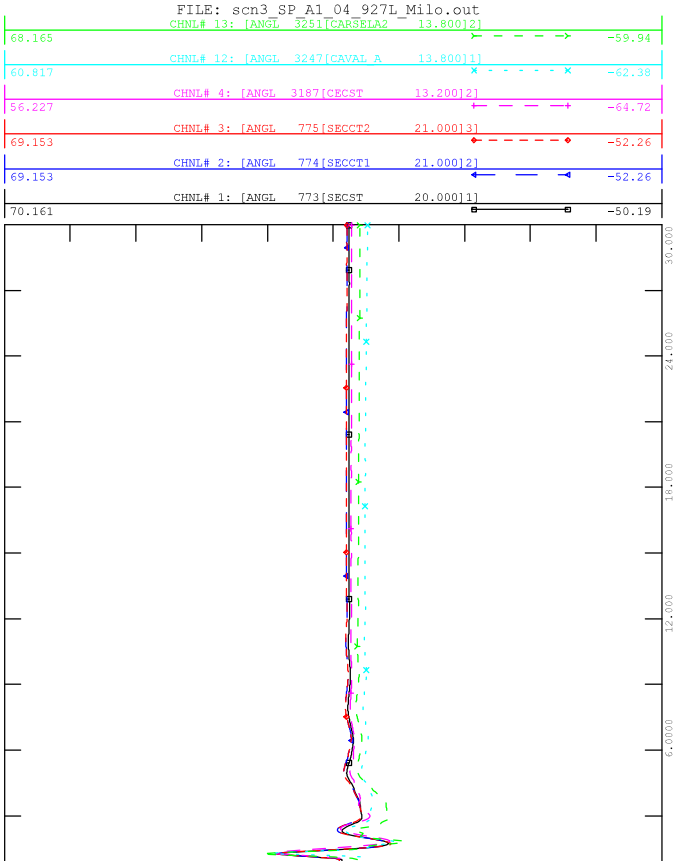
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out



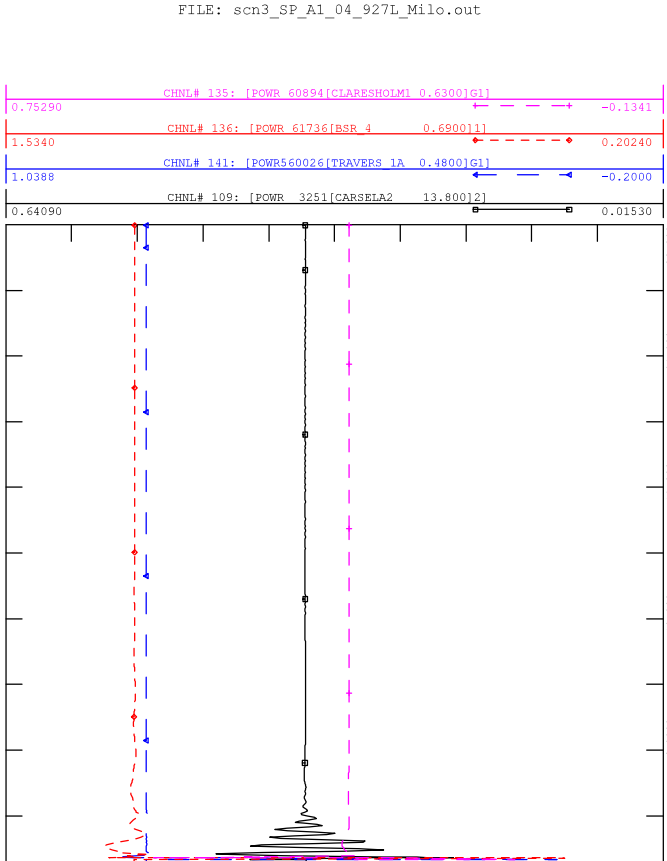
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

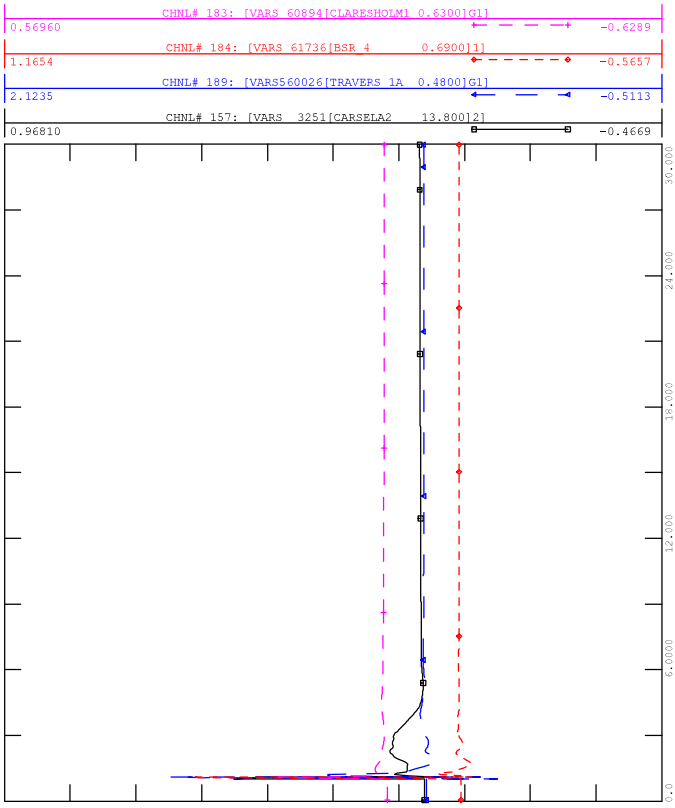
FILE: scn3_SP_A1_04_927L_Milo.out



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out

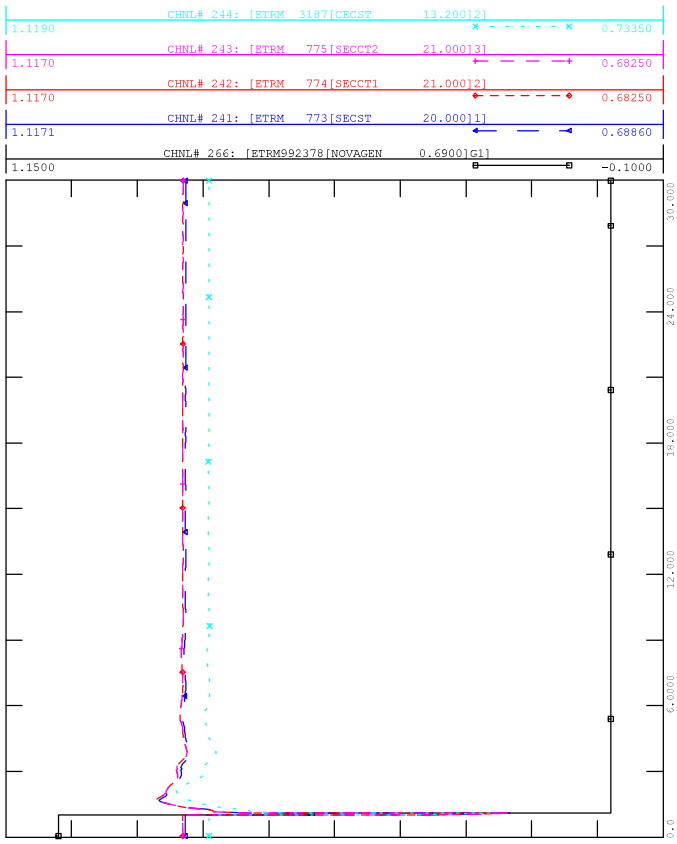
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out

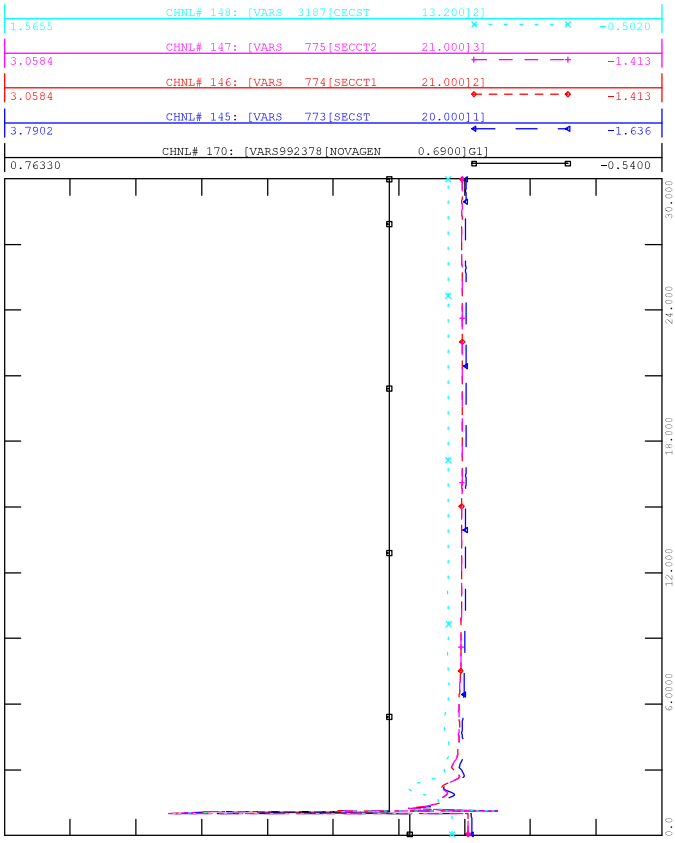
SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out

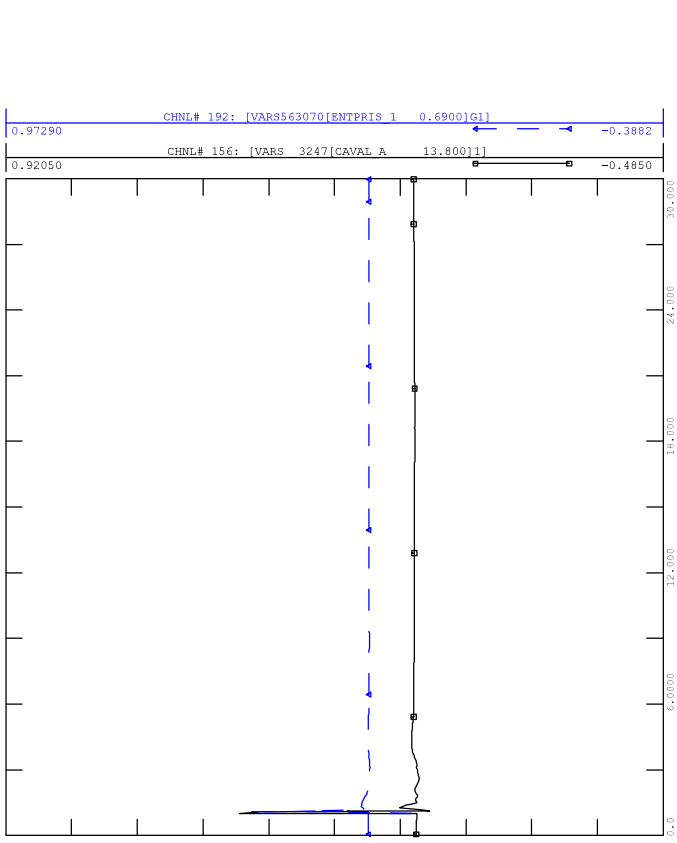
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

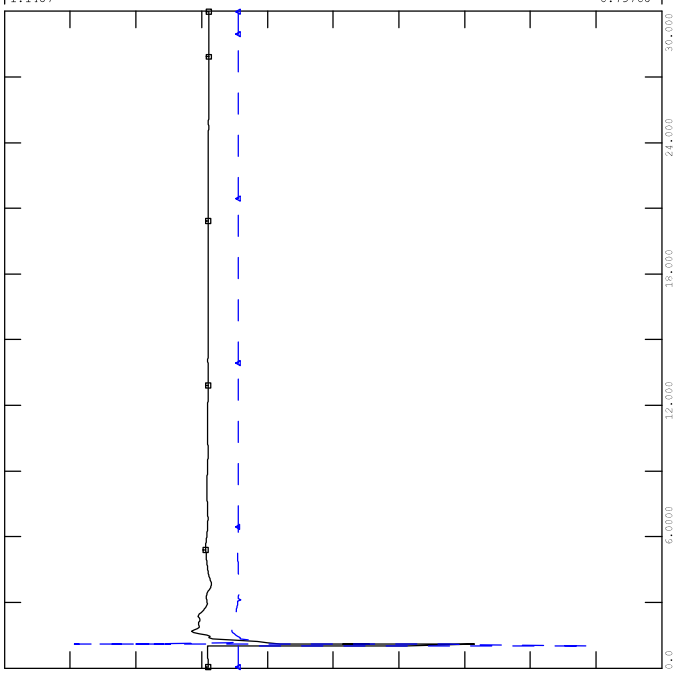
FILE: scn3_SP_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1] 1.3328 0.39680

CHNL# 252: [ETRM 3247[CAVAL A 13.800]1] 1.1487 0.79760

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 333: [1107L P] 23.716 -664.2

CHNL# 311: [1106L P] 23.783 -664.3

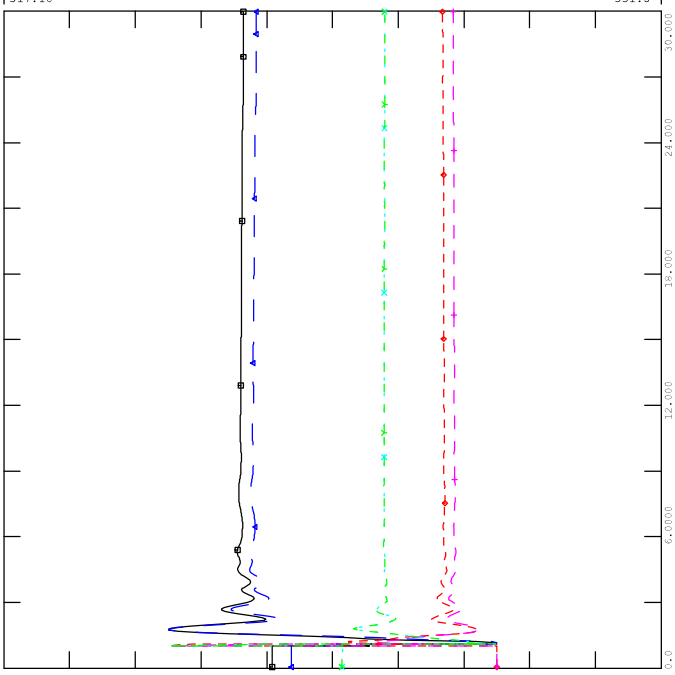
CHNL# 323: [1005L P] 154.99 -524.4

CHNL# 335: [1036L P] 93.384 -438.8

CHNL# 327: [935L P] 238.10 -289.3

CHNL# 315: [923L P] 317.10 -331.5

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

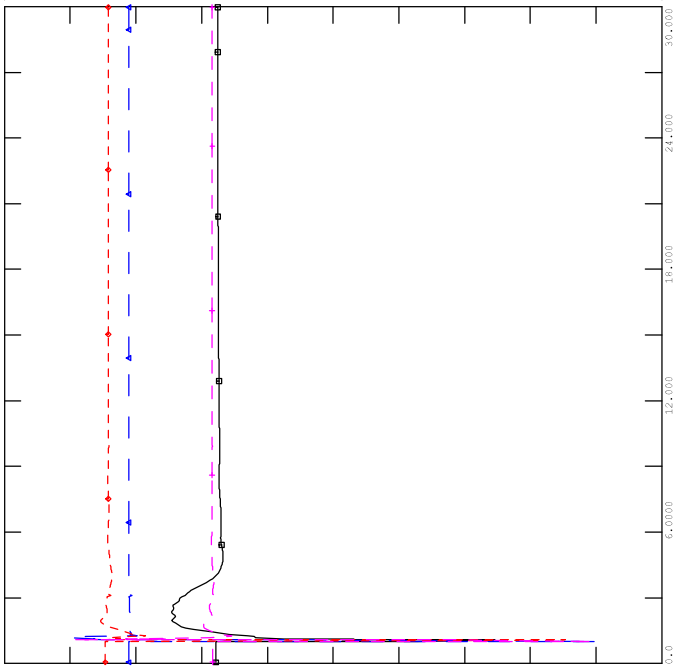
CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1] 1.3004 0.35230

CHNL# 280: [ETRM 61736[BSR 4 0.6900]1] 1.1299 0.44690

CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1] 1.2924 0.27580

CHNL# 253: [ETRM 3251[CARSELA2 13.800]2] 1.1564 0.76330

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:15 BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]] 1.1687 0.25940

CHNL# 307: [VOLT 918 [CASS01 240.00]] 1.3253 0.37980

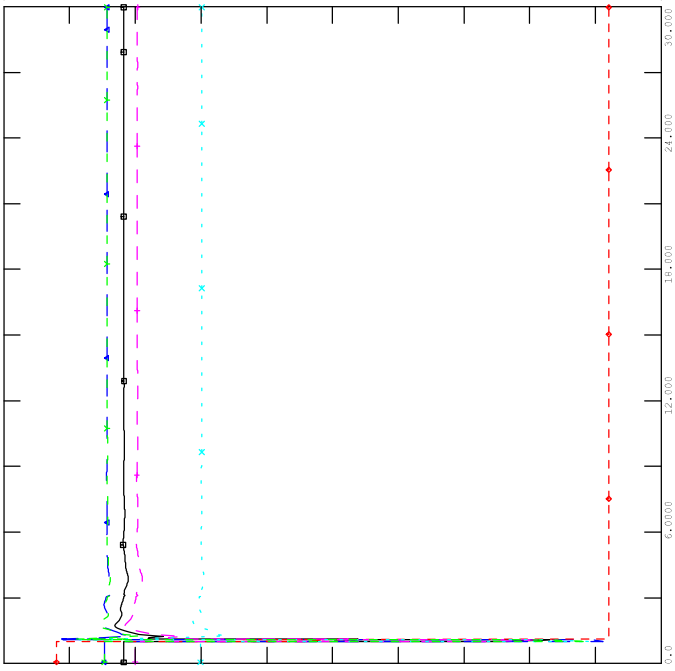
CHNL# 303: [VOLT 160 [JANET 4 240.00]] 1.1656 0.62360

CHNL# 310: [VOLT 902378 [927L TAP 240.00]] 1.1484 -0.1000

CHNL# 308: [VOLT 943 [MILO 1 240.00]] 1.2139 0.08190

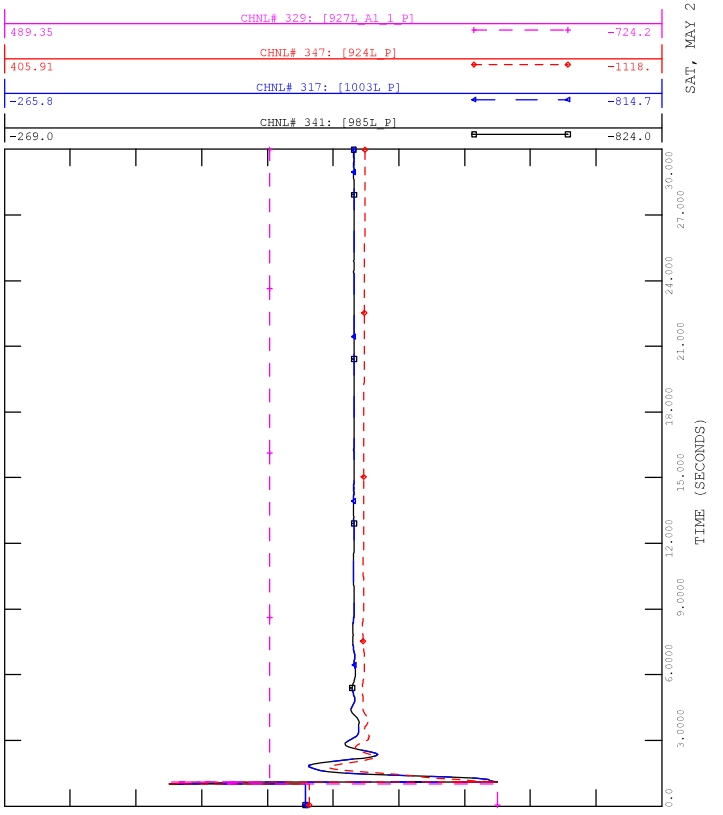
CHNL# 302: [VOLT 159 [LANGDON4 240.00]] 1.1617 0.57020

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

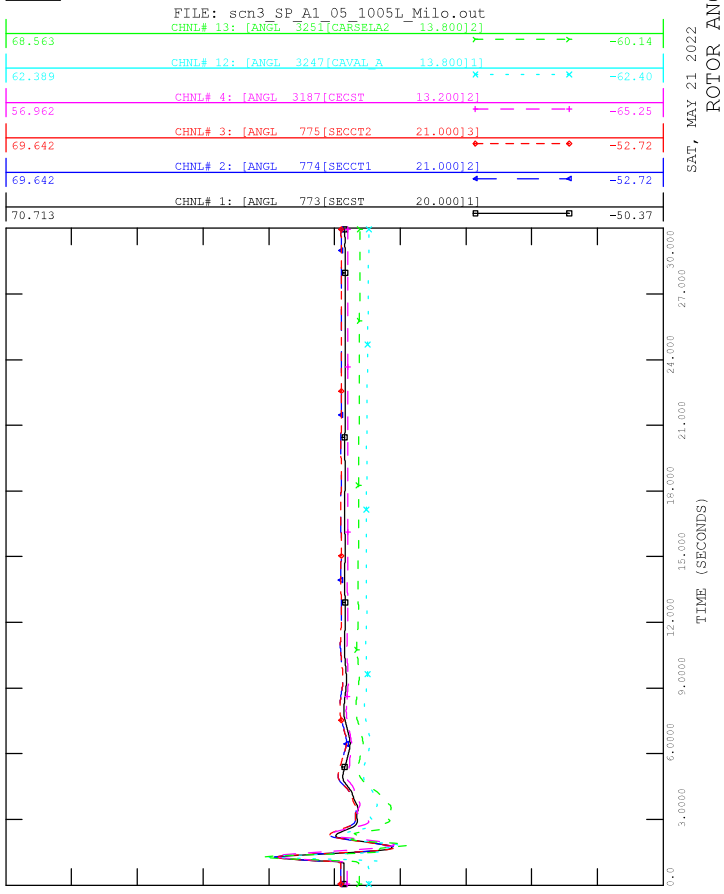
FILE: scn3_SP_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

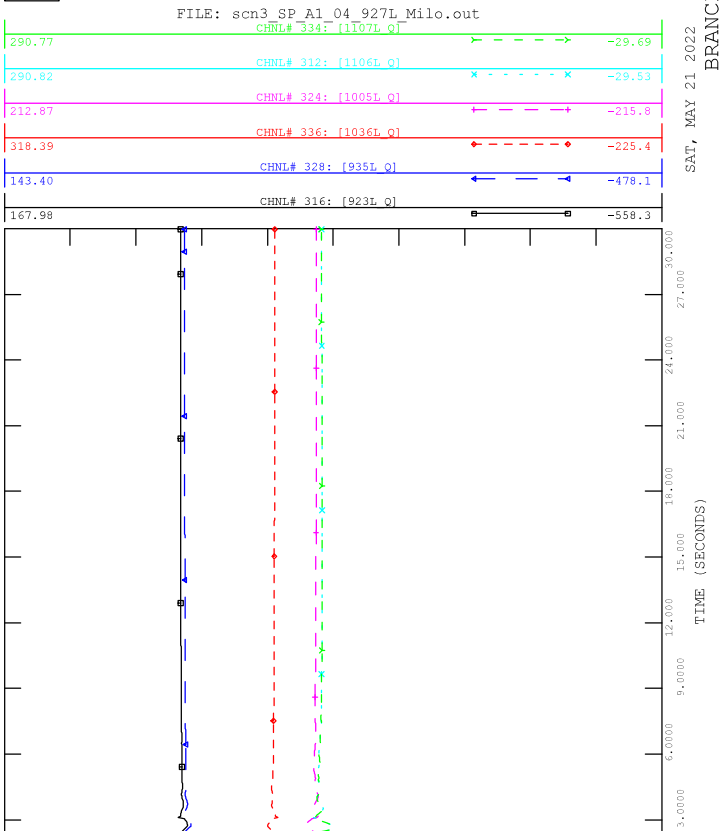
FILE: scn3_SP_A1_05_1005L_Milo.out



SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

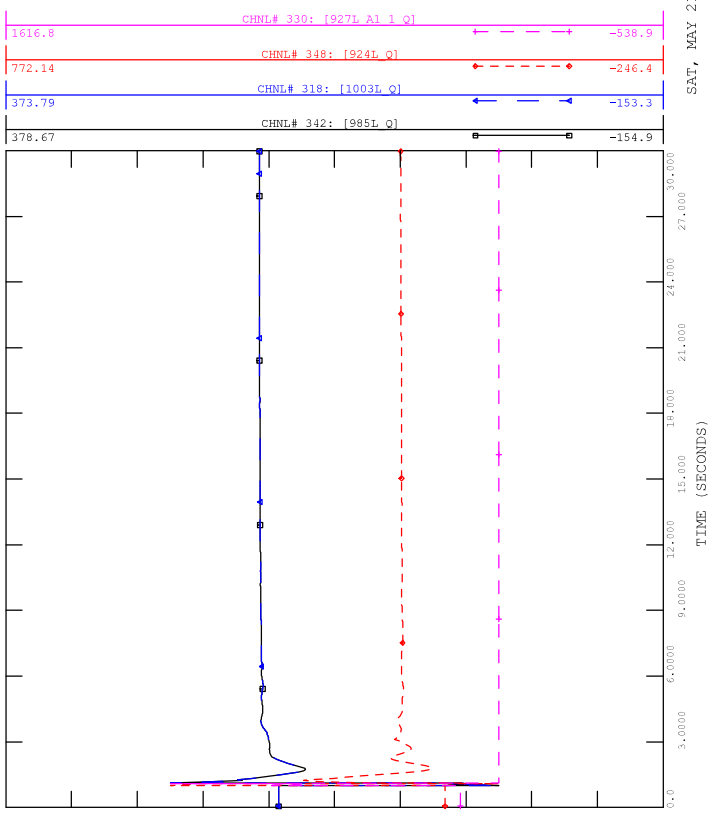
FILE: scn3_SP_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_04_927L_MILO

FILE: scn3_SP_A1_04_927L_Milo.out

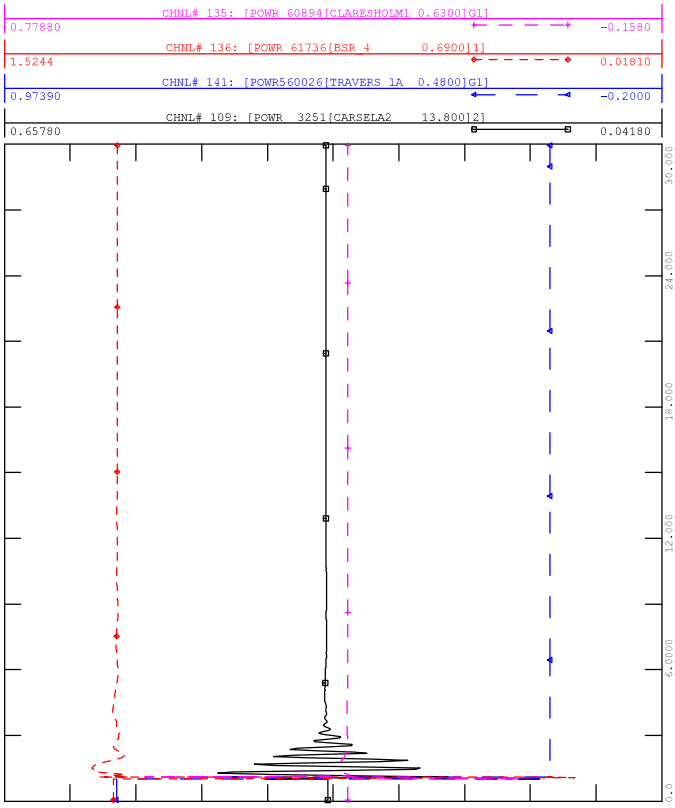


SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

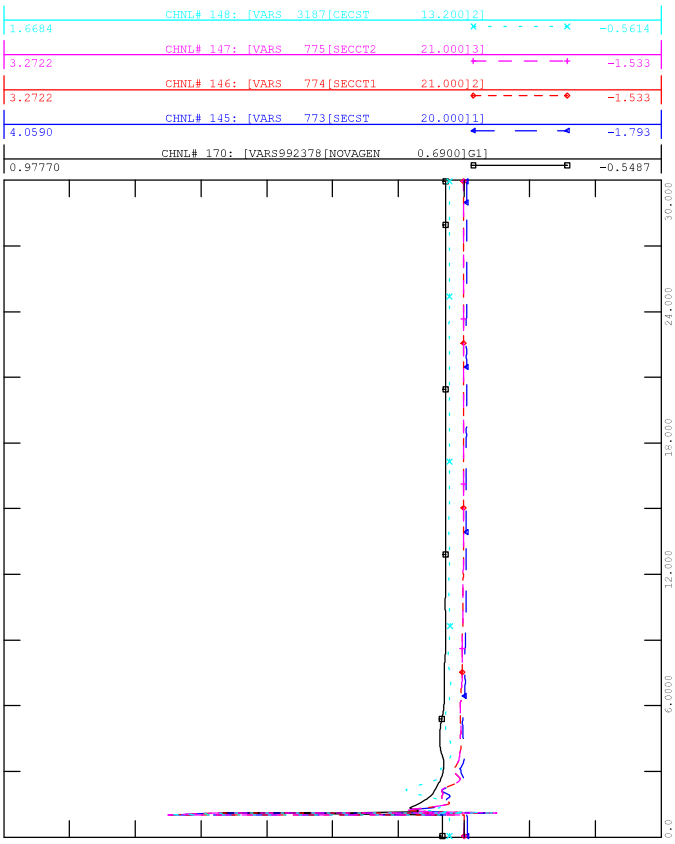
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

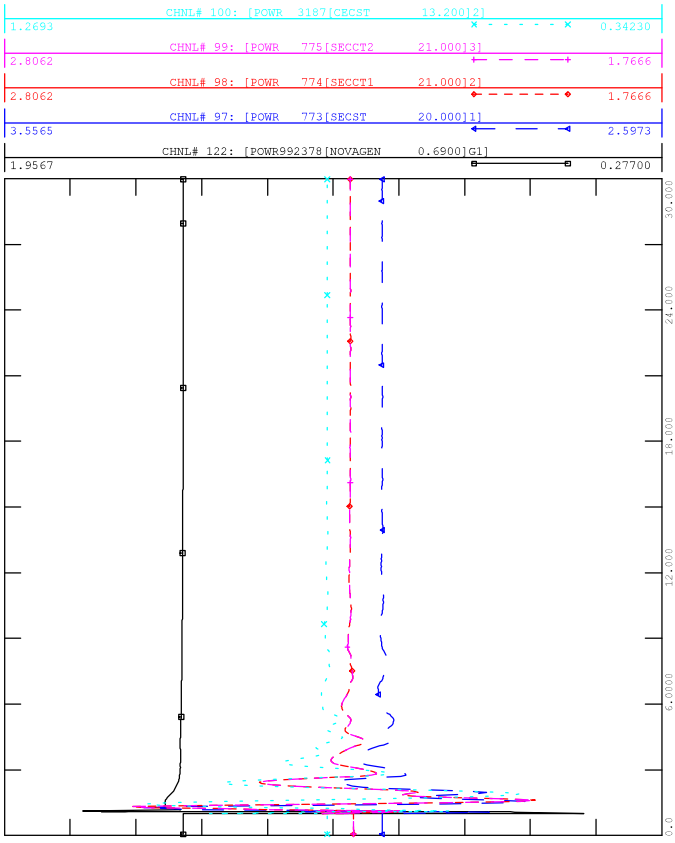
SAT, MAY 21 2022 1:15 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

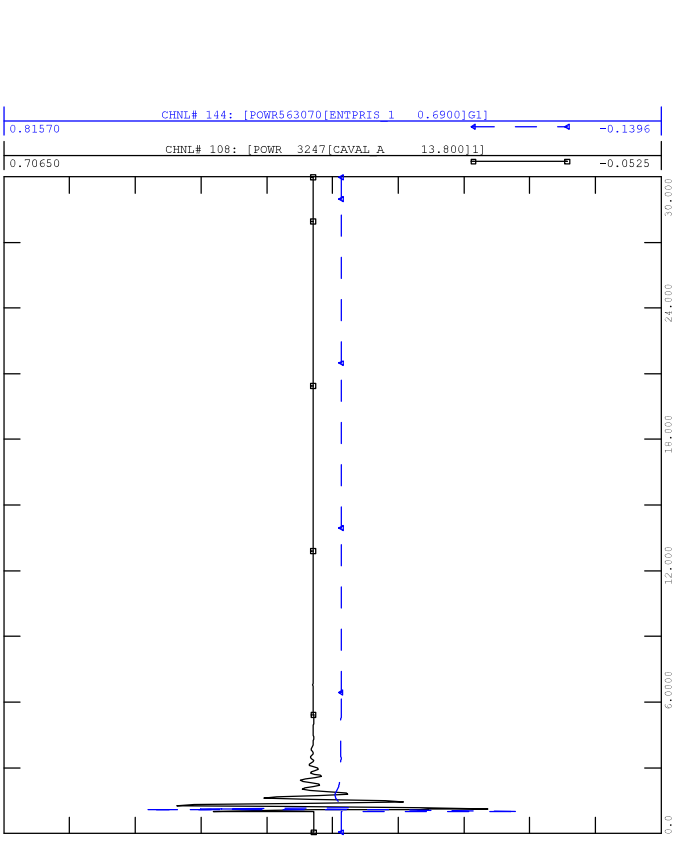
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

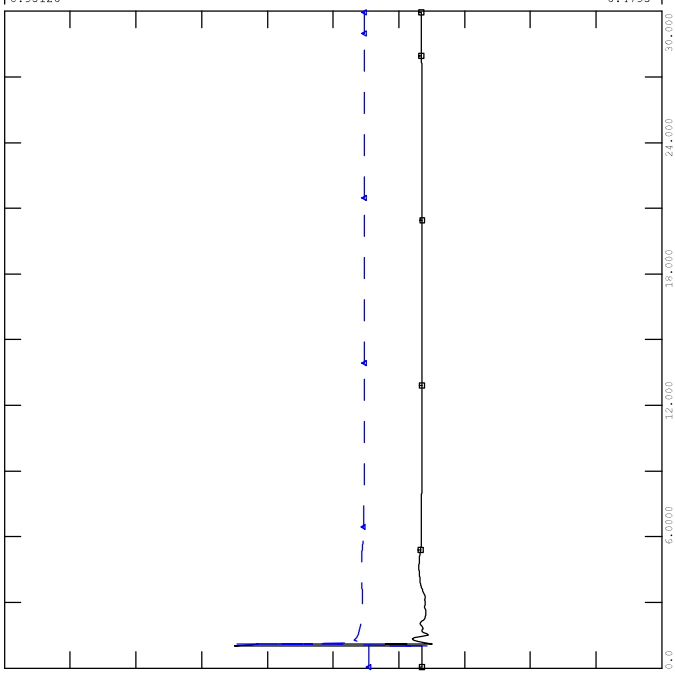
FILE: scn3_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1]
1.0066 -0.4093

CHNL# 156: [VARS 3247[CAVAL A 13.800]1]
0.95120 -0.4795



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15

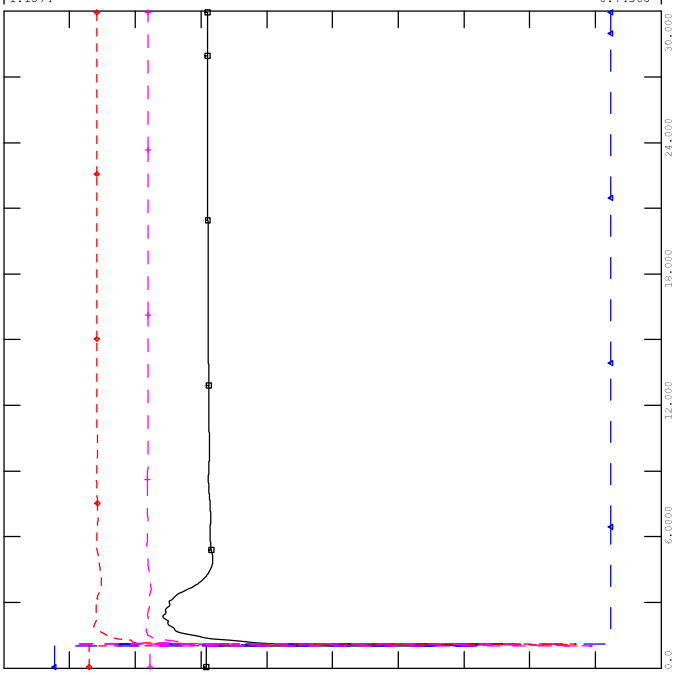
TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2116 0.26110

CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1250 0.35300

CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2000 -0.1000

CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1574 0.74360



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15

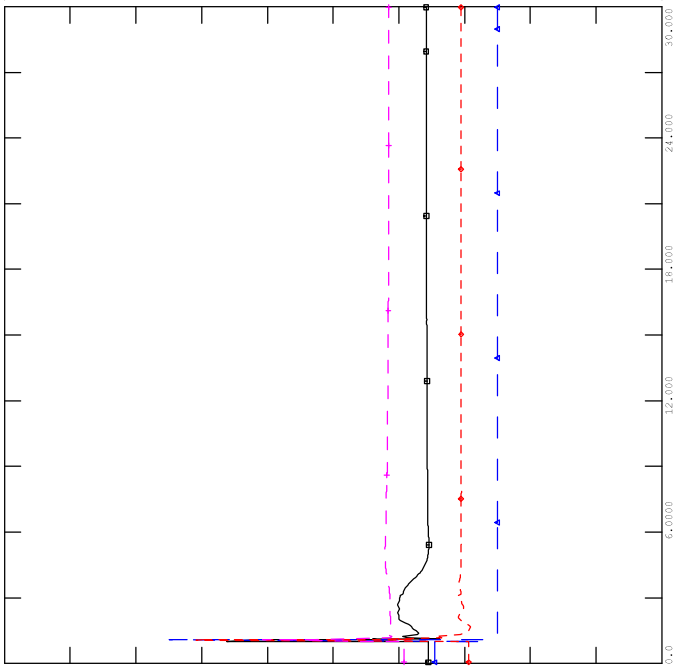
REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.64450 -0.6289

CHNL# 184: [VARS 61736[BSR 4 0.6900]1]
1.1742 -0.5414

CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1]
3.3985 -1.133

CHNL# 157: [VARS 3251[CARSELA2 13.800]2]
1.0071 -0.4737



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

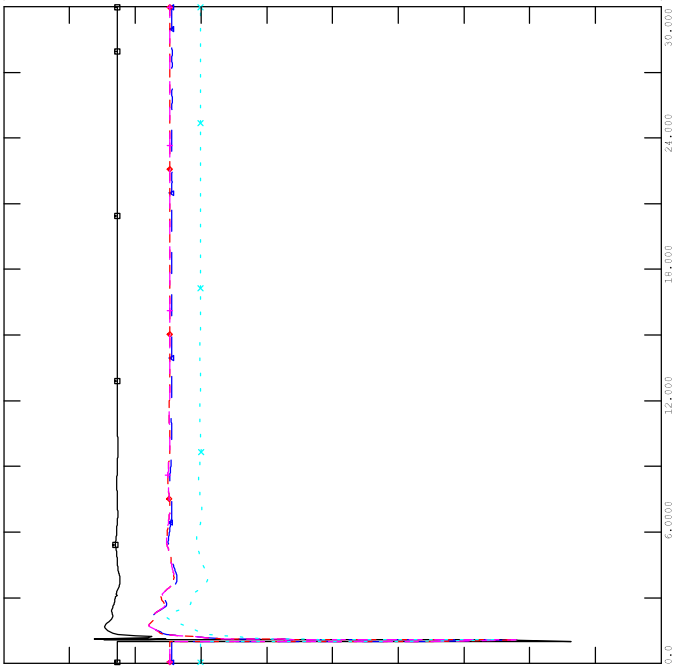
CHNL# 244: [ETRM 3187[CECST 13.200]2]
1.1208 0.71710

CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1146 0.66080

CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1146 0.66080

CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1144 0.66700

CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.1758 0.44820



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1293 0.16530
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.2544 0.26480
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1635 0.59700
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1562 0.43350
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.1816 -0.0885
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1597 0.54380

SAT, MAY 21 2022 1:15
BUS VOLTAGE

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

CHNL# 334: [1107L Q]
382.80 26.033
CHNL# 312: [1106L Q]
382.95 26.131
CHNL# 324: [1005L Q]
66.117 -40.00
CHNL# 336: [1036L Q]
750.69 -261.3
CHNL# 328: [935L Q]
152.94 -382.1
CHNL# 316: [923L Q]
179.12 -446.9

SAT, MAY 21 2022 1:15
BRANCH Q

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2396 0.30650
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1472 0.78570

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

CHNL# 333: [1107L P]
26.344 -592.7
CHNL# 311: [1106L P]
26.420 -592.8
CHNL# 323: [1005L P]
177.28 -531.9
CHNL# 335: [1036L P]
205.91 -635.1
CHNL# 327: [935L P]
238.21 -528.6
CHNL# 315: [923L P]
326.64 -598.1

SAT, MAY 21 2022 1:15
BRANCH P

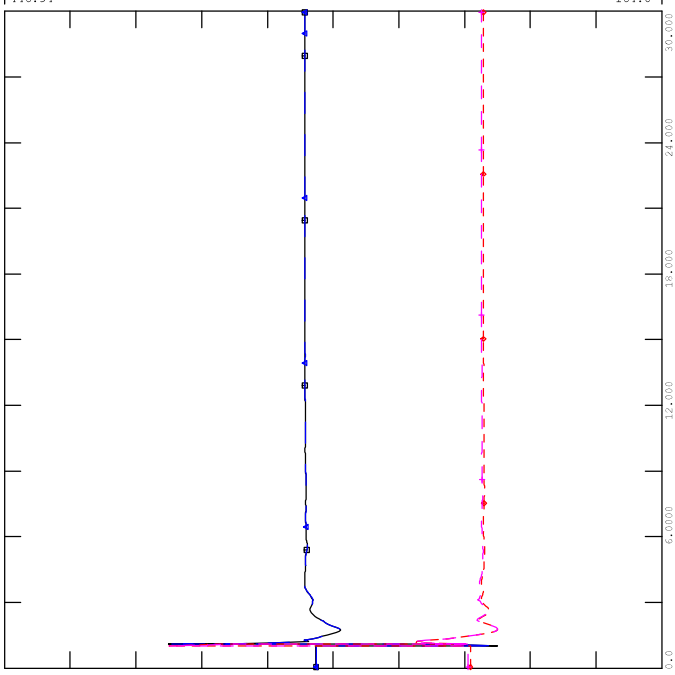
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15 BRANCH Q

CHNL# 330: [927L A1 1 Q] 906.86 -200.6
CHNL# 348: [924L Q] 886.92 -235.2
CHNL# 318: [1003L Q] 441.43 -162.3
CHNL# 342: [985L Q] 446.94 -164.0

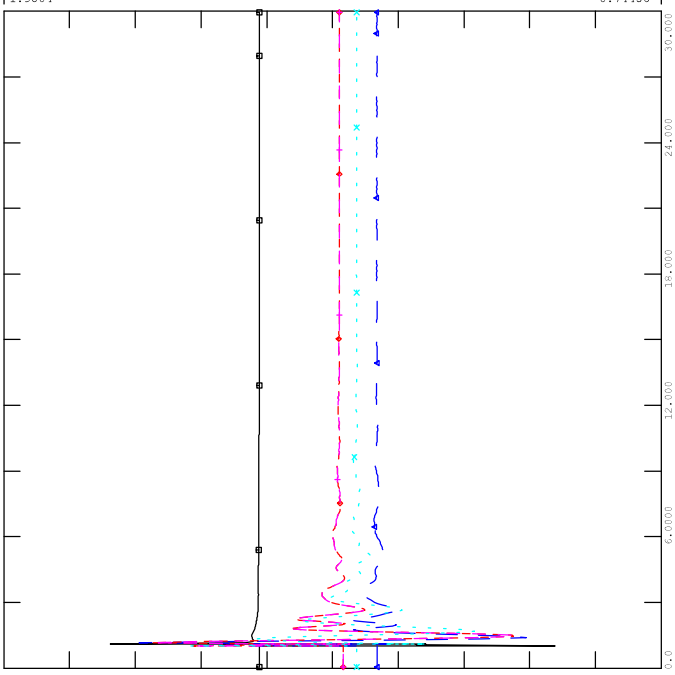


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2] 1.1911 0.48840
CHNL# 99: [POWR 775[SECCT2 21.000]3] 2.7131 1.8240
CHNL# 98: [POWR 774[SECCT1 21.000]2] 2.7131 1.8240
CHNL# 97: [POWR 773[SECST 20.000]1] 3.5577 2.5844
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1] 1.9804 0.74450

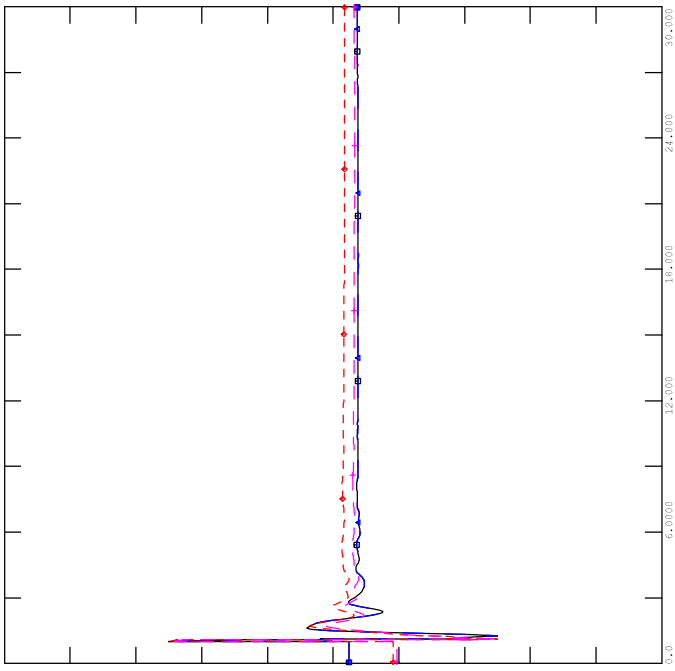


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_05_1005L_MILO

FILE: scn3_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 329: [927L A1 1 P] 397.00 -973.3
CHNL# 347: [924L P] 404.91 -788.8
CHNL# 317: [1003L P] -276.0 -736.2
CHNL# 341: [985L P] -279.2 -744.6

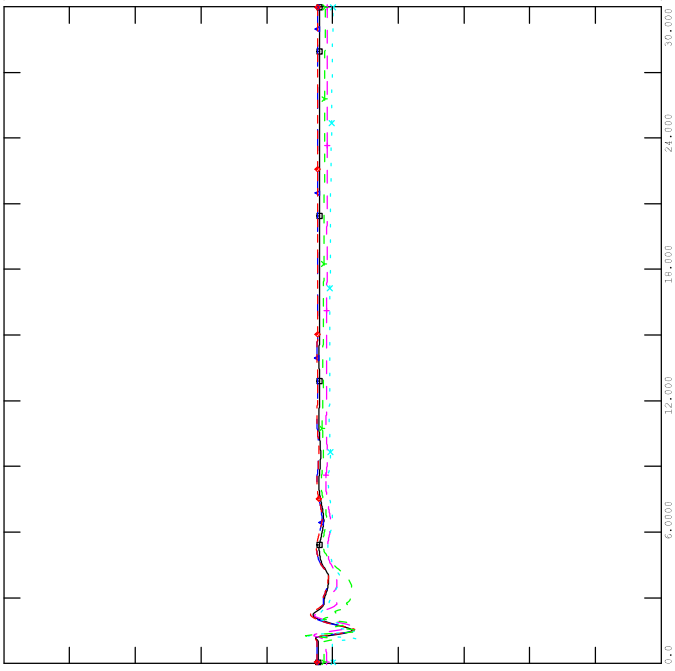


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:15 ROTOR ANGLE

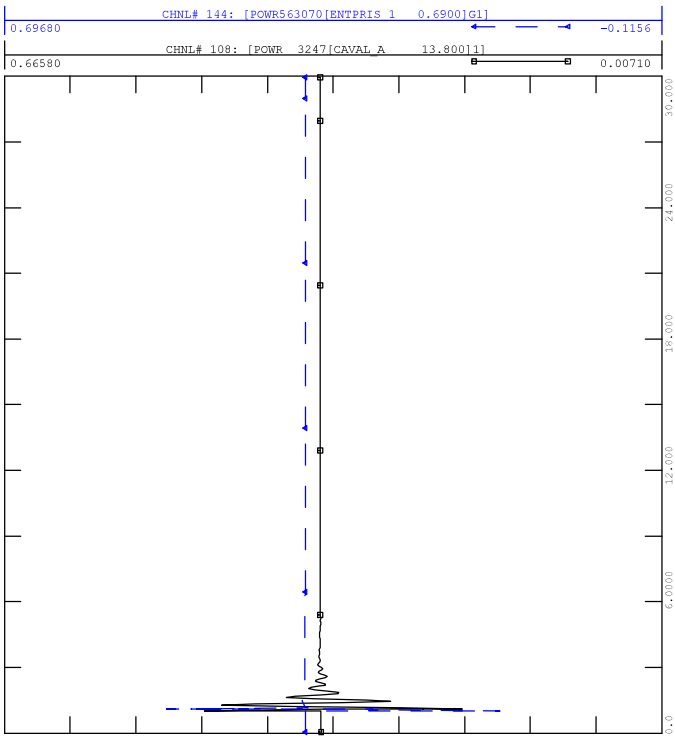
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2] 52.568 -56.52
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 47.562 -60.47
CHNL# 4: [ANGL 3187[CECST 13.200]2] 45.569 -60.59
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 58.400 -48.82
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 58.400 -48.82
CHNL# 1: [ANGL 773[SECST 20.000]1] 59.304 -47.02



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

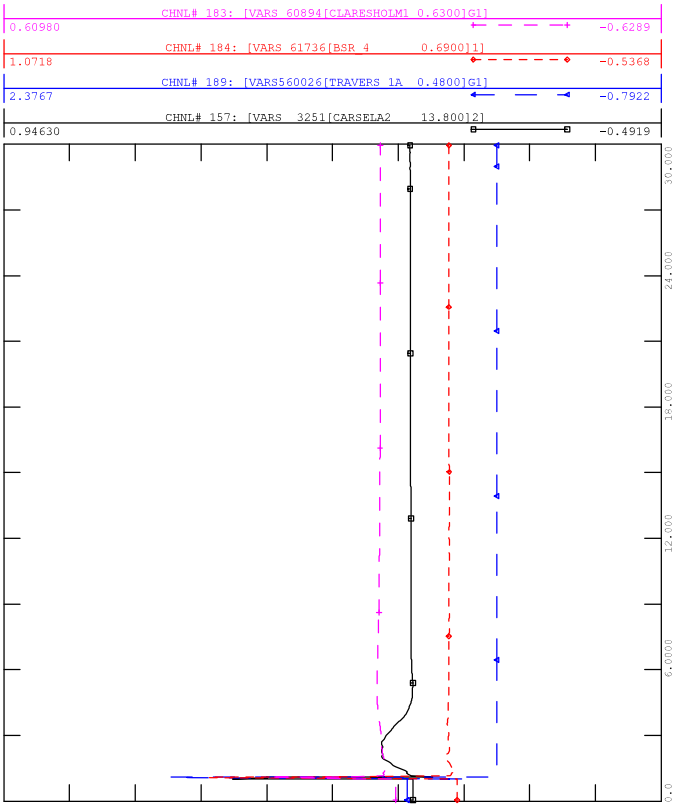
SAT, MAY 21 2022 1:15
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

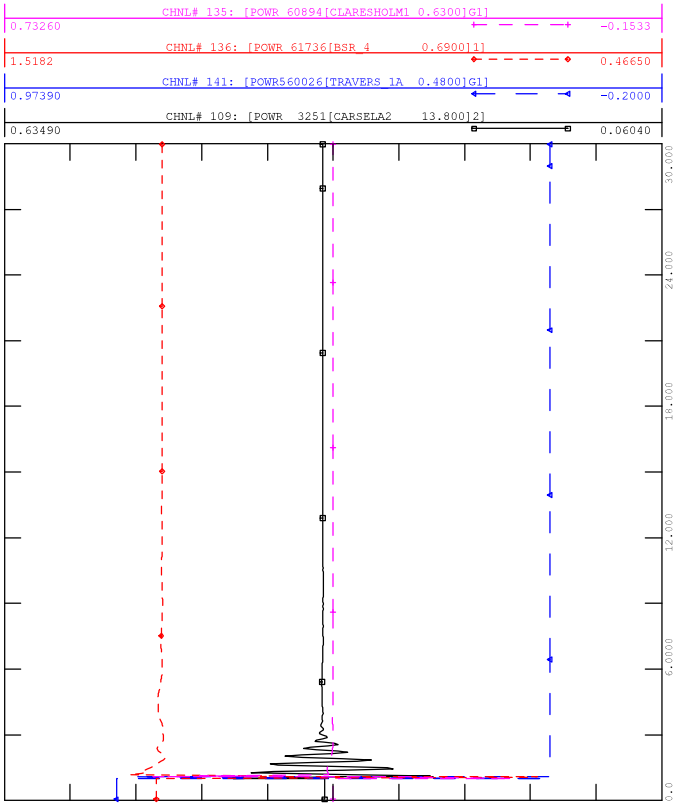
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

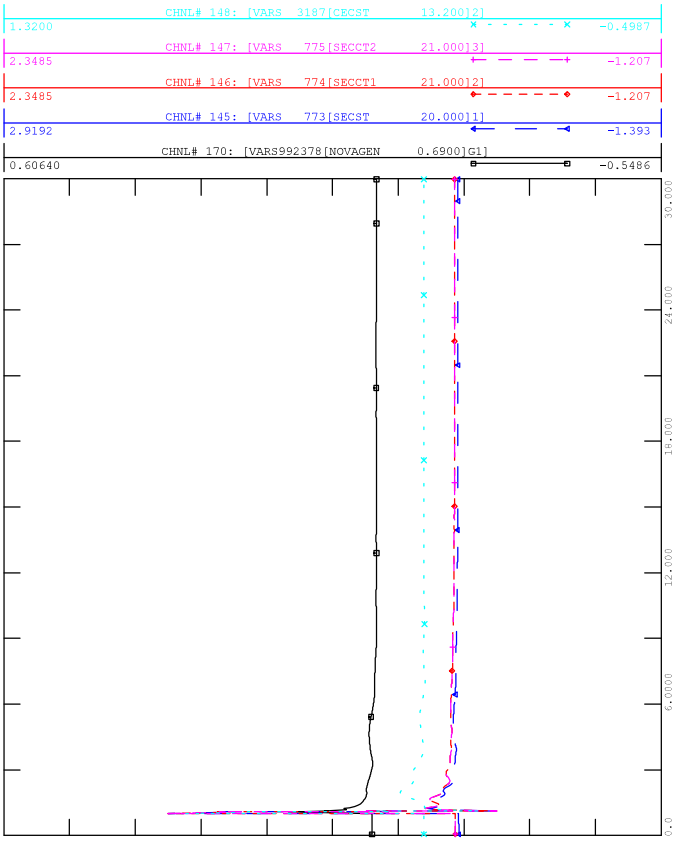
SAT, MAY 21 2022 1:15
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

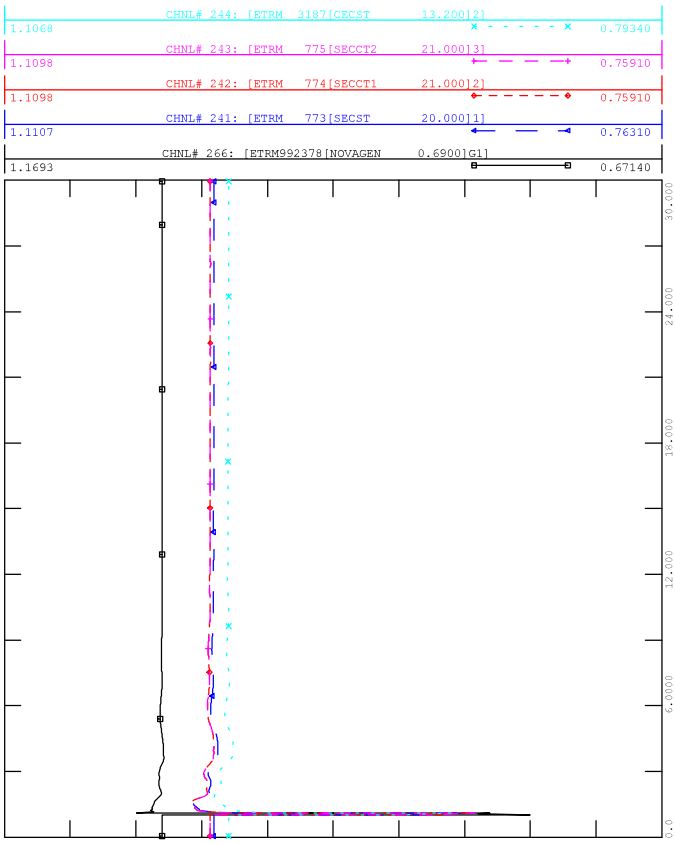
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:15

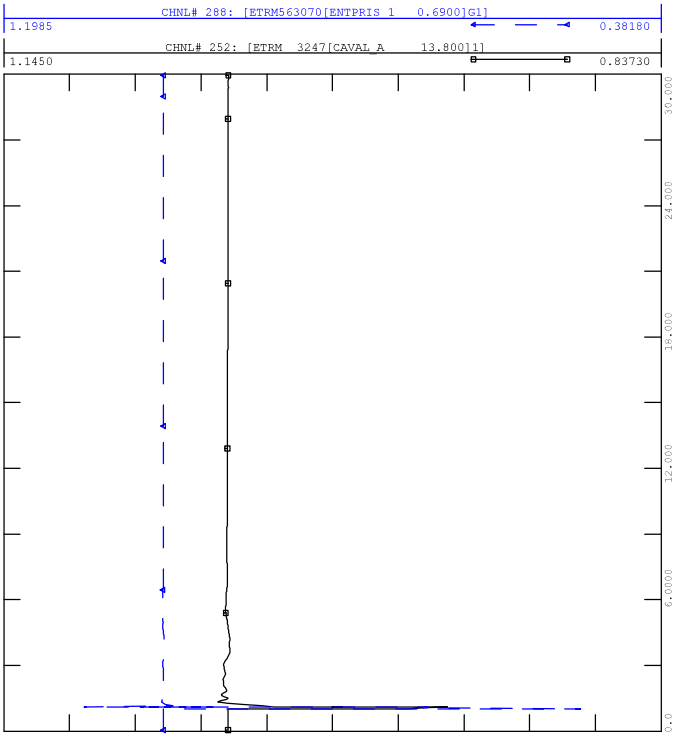


TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:15

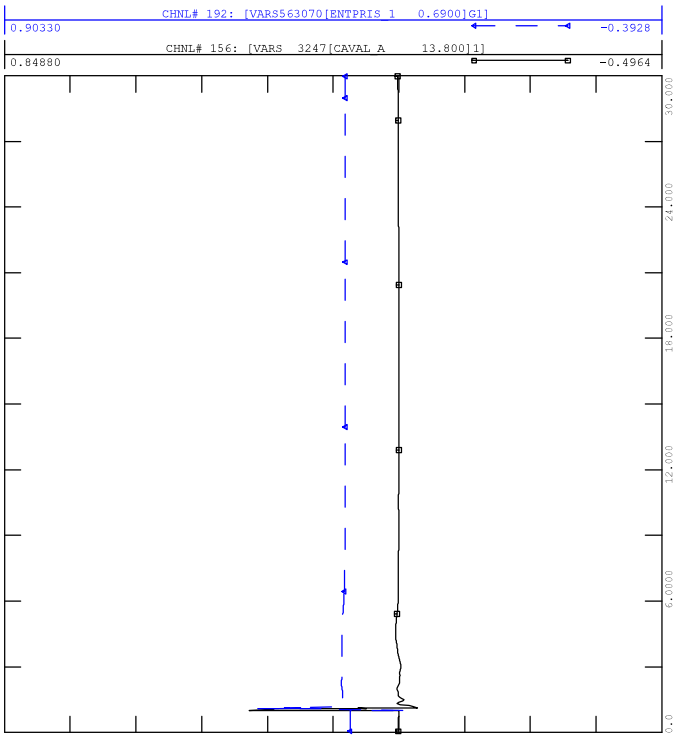


TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:15

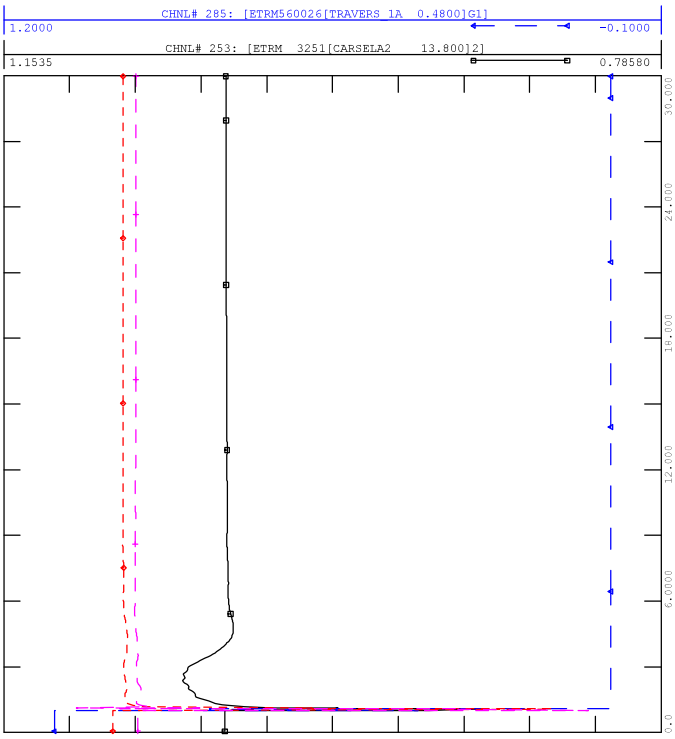


REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

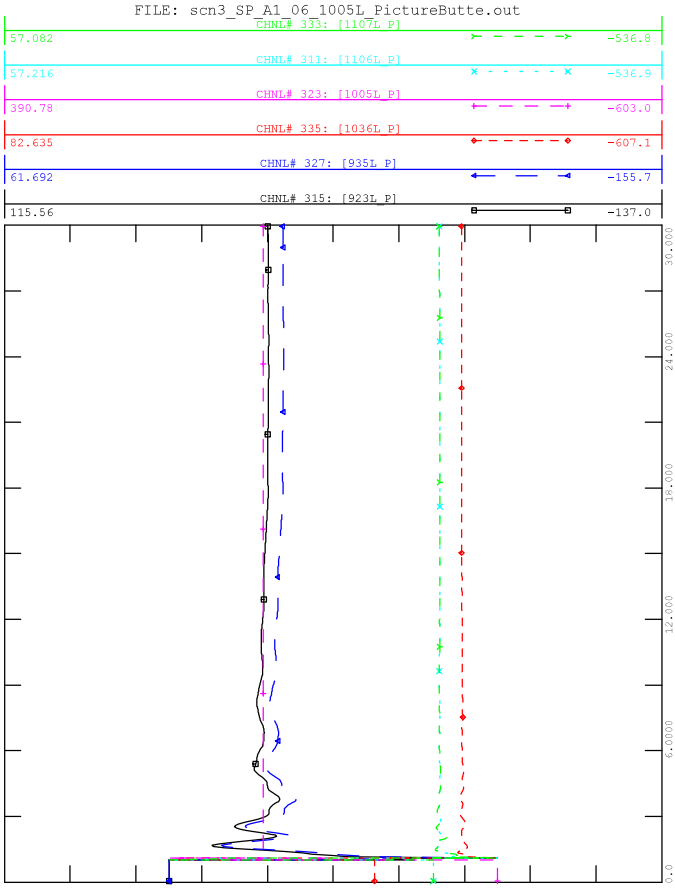
SAT, MAY 21 2022 1:15



TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

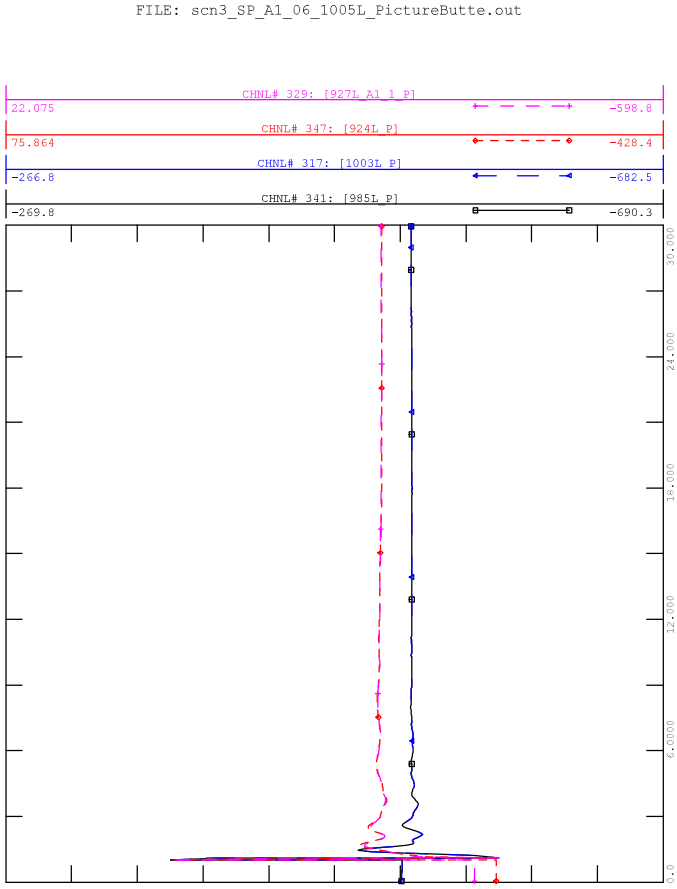
FILE: scn3_SP_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

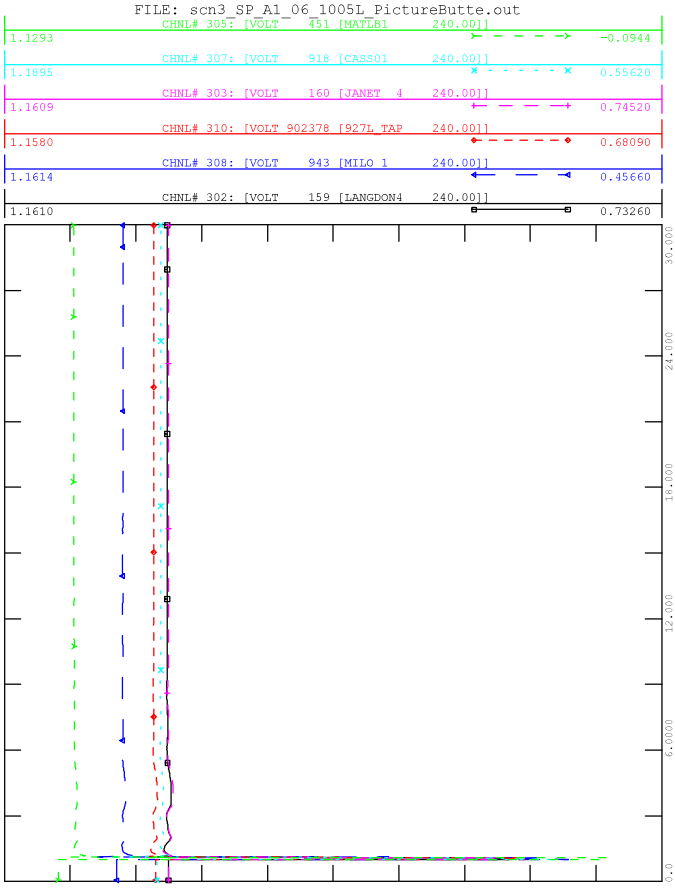
FILE: scn3_SP_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

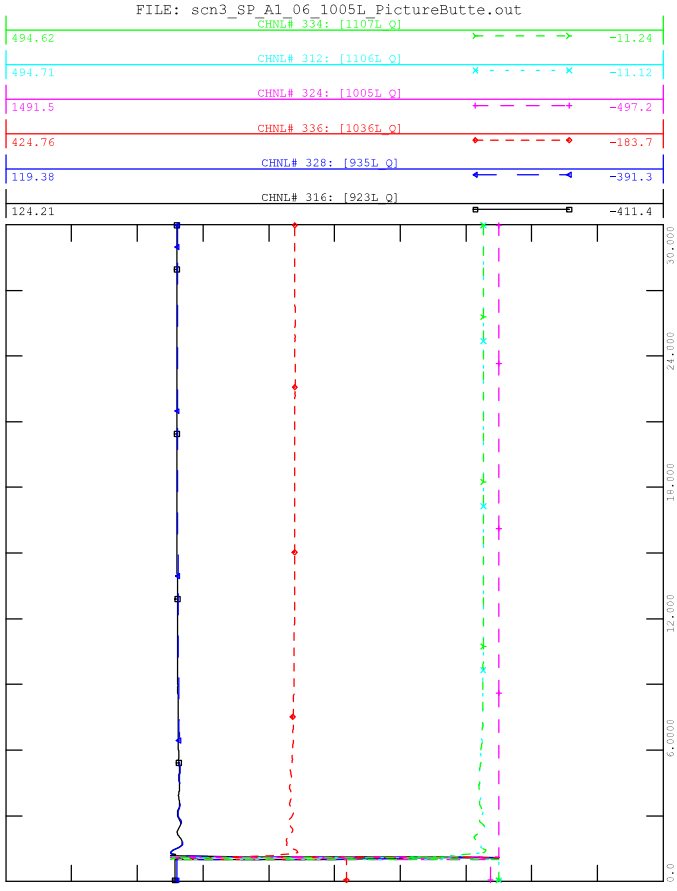
FILE: scn3_SP_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15 BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
71.840 -59.02
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
64.705 -60.78
CHNL# 4: [ANGL 3187[CECST 13.200]2]
57.845 -63.96
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
70.743 -51.52
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
70.743 -51.52
CHNL# 1: [ANGL 773[SECST 20.000]1]
71.953 -49.20

SAT, MAY 21 2022 1:15
ROTOR ANGLE
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.80760 -0.1580
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.4866 -0.0075
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
1.0790 -0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.67300 0.01590

SAT, MAY 21 2022 1:15
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A1_06_1005L_PictureButte.out

CHNL# 330: [927L A1 1 Q]
487.19 -33.92
CHNL# 348: [924L Q]
455.49 -66.34
CHNL# 318: [1003L Q]
267.14 99.337
CHNL# 342: [985L Q]
270.67 100.82

SAT, MAY 21 2022 1:15
BRANCH Q
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

CHNL# 100: [POWR 3187[CECST 13.200]2]
1.2679 0.34040
CHNL# 99: [POWR 775[SECCT2 21.000]3]
2.8196 1.7675
CHNL# 98: [POWR 774[SECCT1 21.000]2]
2.8196 1.7675
CHNL# 97: [POWR 773[SECST 20.000]1]
3.5351 2.5777
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
1.9595 0.27700

SAT, MAY 21 2022 1:15
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

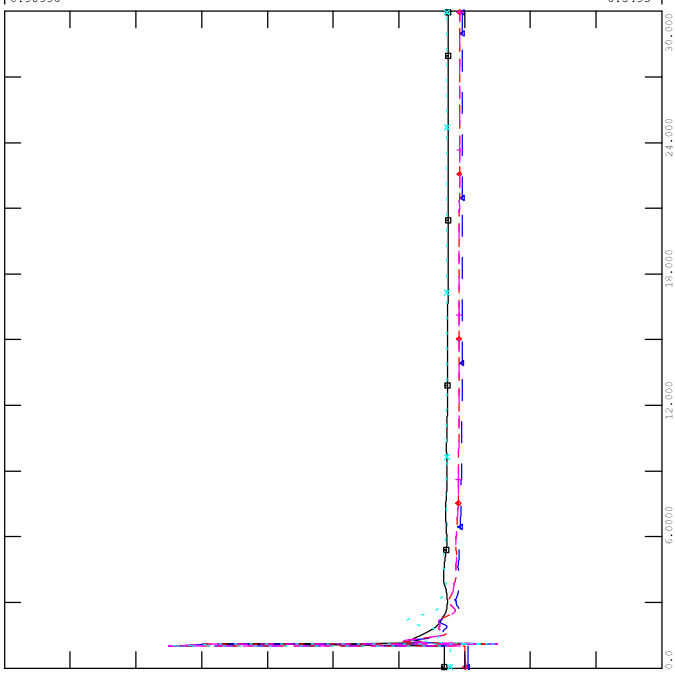
CHNL# 148: [VARS 3187[CECST 13.200]2]
1.6683 -0.5615

CHNL# 147: [VARS 775[SECCT2 21.000]3]
3.2712 -1.531

CHNL# 146: [VARS 774[SECCT1 21.000]2]
3.2712 -1.531

CHNL# 145: [VARS 773[SECST 20.000]1]
4.0581 -1.791

CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1]
0.98990 -0.5493



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

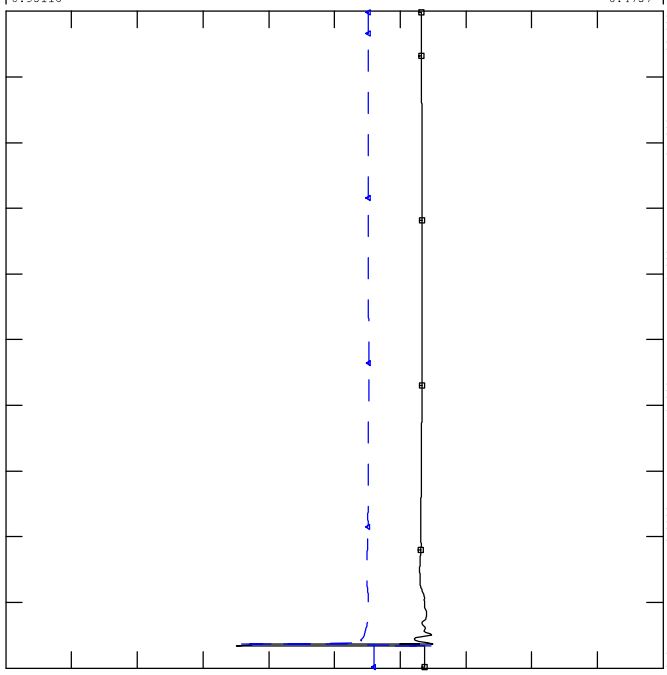
FILE: scn3_SP_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1]
1.0248 -0.4093

CHNL# 156: [VARS 3247[CAVAL A 13.800]1]
0.95110 -0.4757



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

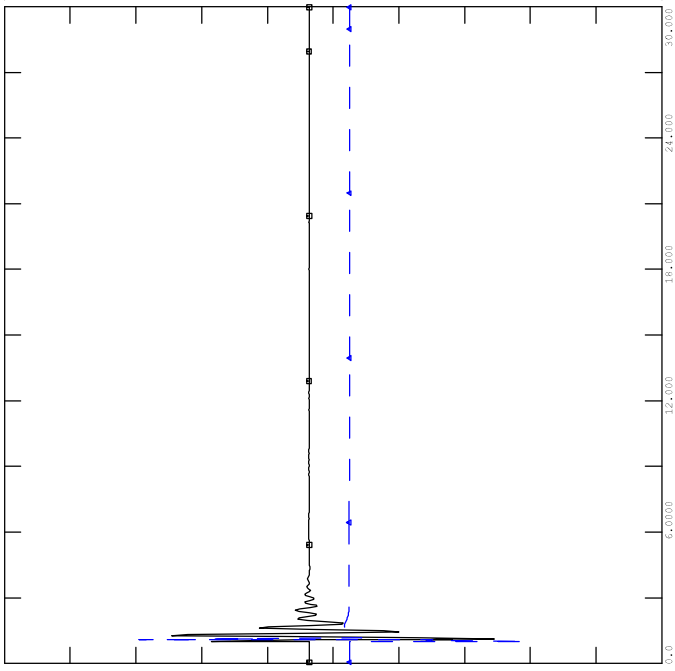
FILE: scn3_SP_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15

ACTIVE POWER

CHNL# 144: [POWR563070[ENTPRIS 1 0.6900]G1]
0.83790 -0.1396

CHNL# 108: [POWR 3247[CAVAL A 13.800]1]
0.71240 -0.0728



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15

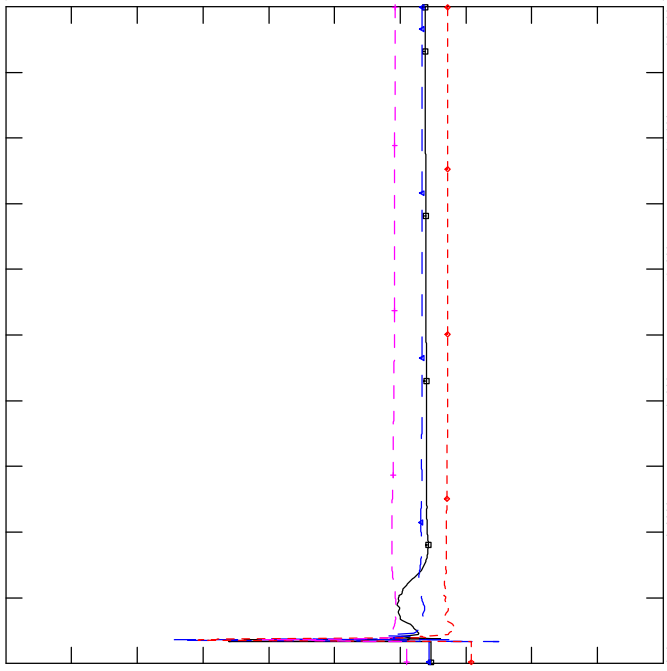
REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.65120 -0.6289

CHNL# 184: [VARS 61736[BSR 4 0.6900]1]
1.1737 -0.5368

CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1]
2.4336 -0.6786

CHNL# 157: [VARS 3251[CARSELA2 13.800]2]
1.0070 -0.4695



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15

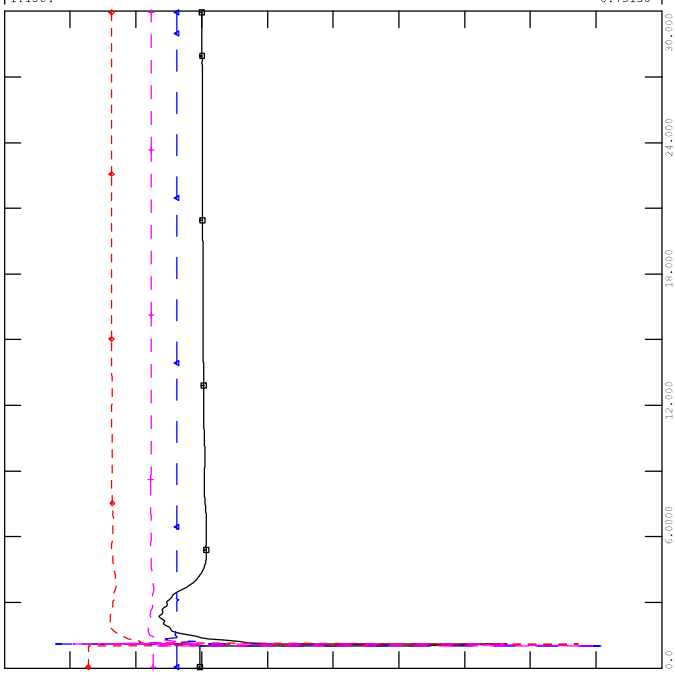
TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2157 0.26110

CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1250 0.33990

CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.4362 0.15350

CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1564 0.73130



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15

BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1405 0.11950

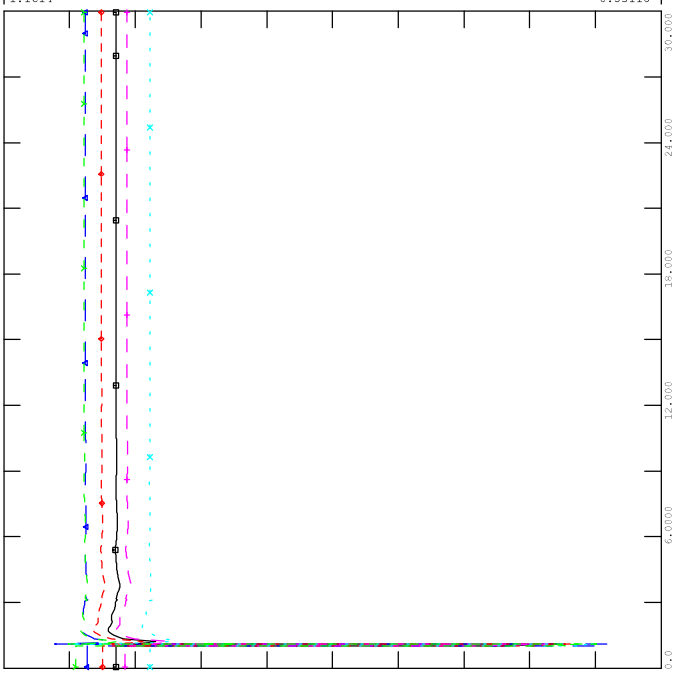
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.2680 0.25150

CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1644 0.58230

CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1592 0.42290

CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2046 -0.0899

CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1614 0.53110



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

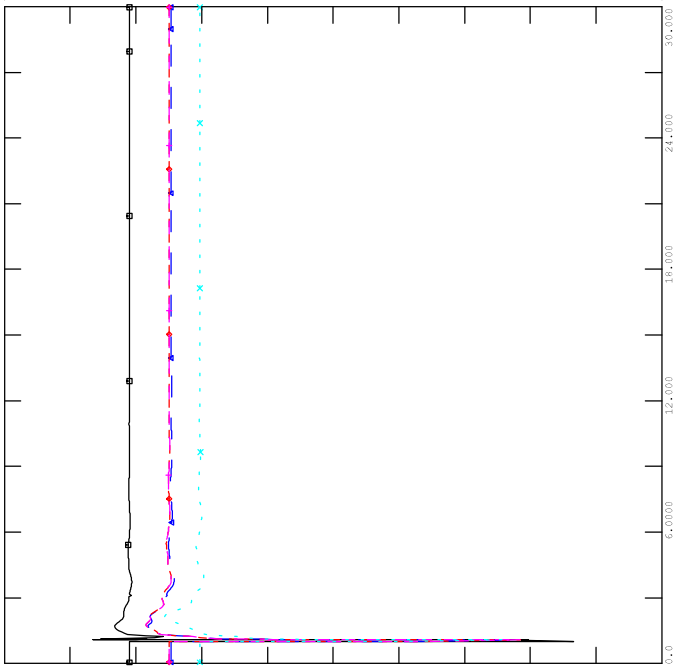
CHNL# 244: [ETRM 3187[CECST 13.200]2]
1.1220 0.71120

CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1163 0.65150

CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1163 0.65150

CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1162 0.65800

CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.1912 0.44820



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

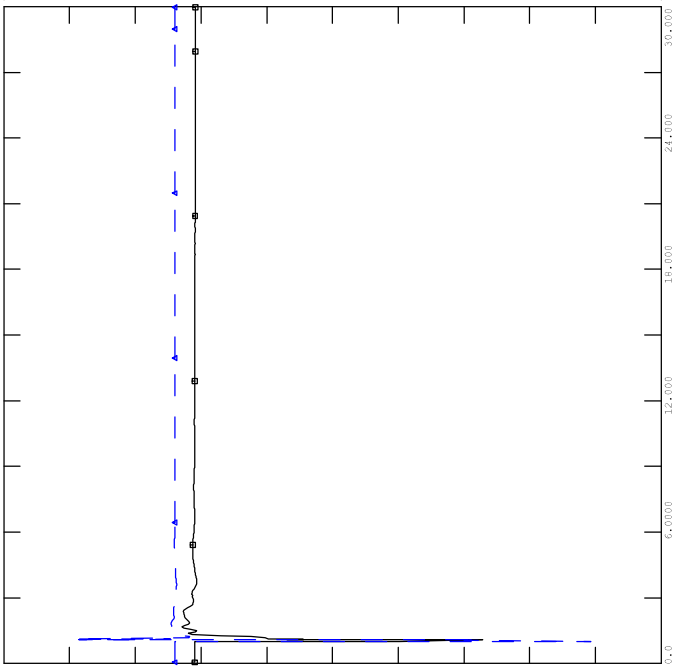
FILE: scn3_SP_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2443 0.30640

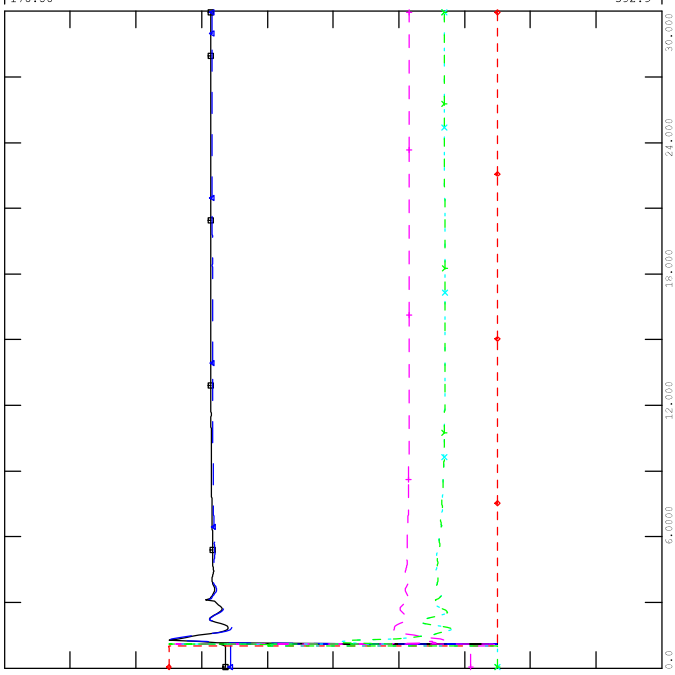
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1471 0.77830



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

CHNL# 334: [1107L Q] 368.33 30.857
CHNL# 312: [1106L Q] 368.49 30.950
CHNL# 324: [1005L Q] 608.25 -212.3
CHNL# 336: [1036L Q] 164.49 -54.83
CHNL# 328: [935L Q] 151.34 -328.5
CHNL# 316: [923L Q] 178.58 -392.9

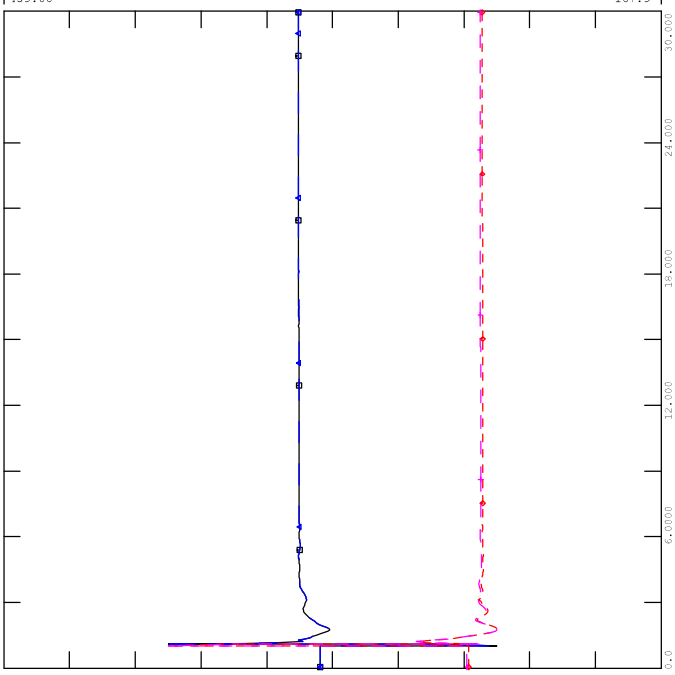


SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

CHNL# 330: [927L A1_1 Q] 907.50 -203.3
CHNL# 348: [924L Q] 887.49 -237.7
CHNL# 318: [1003L Q] 453.32 -166.2
CHNL# 342: [985L Q] 459.00 -167.9

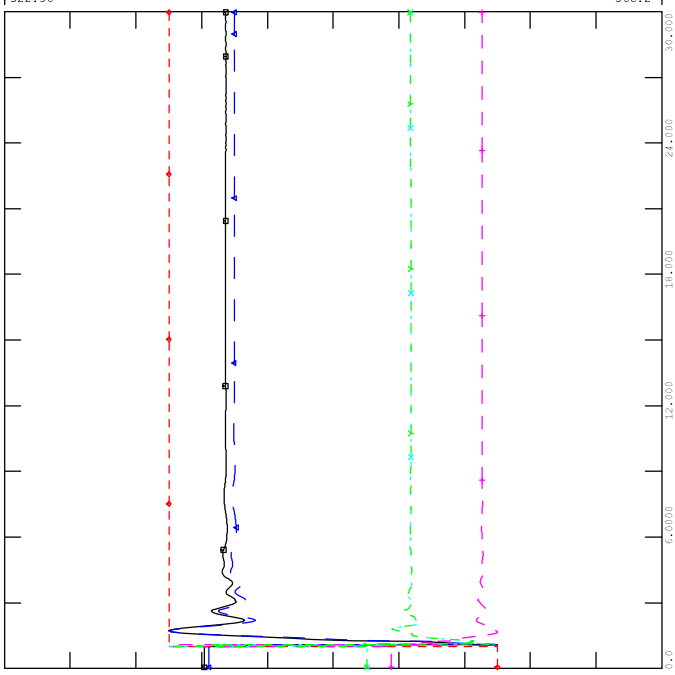


SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

CHNL# 333: [1107L P] 39.348 -631.6
CHNL# 311: [1106L P] 39.424 -631.7
CHNL# 323: [1005L P] 257.11 -782.8
CHNL# 335: [1036L P] 152.87 -458.6
CHNL# 327: [935L P] 234.21 -495.9
CHNL# 315: [923L P] 322.96 -566.2

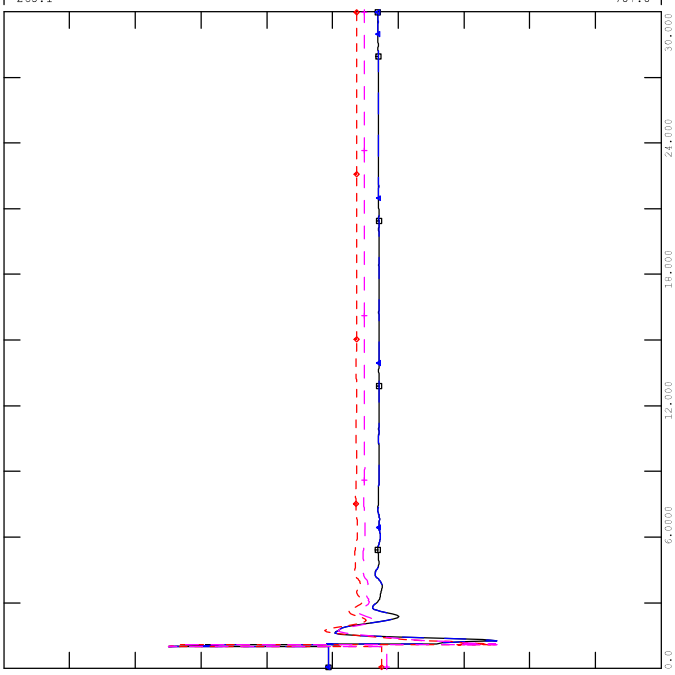


SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_07_1036L_MILO

FILE: scn3_SP_A1_07_1036L_Milo.out

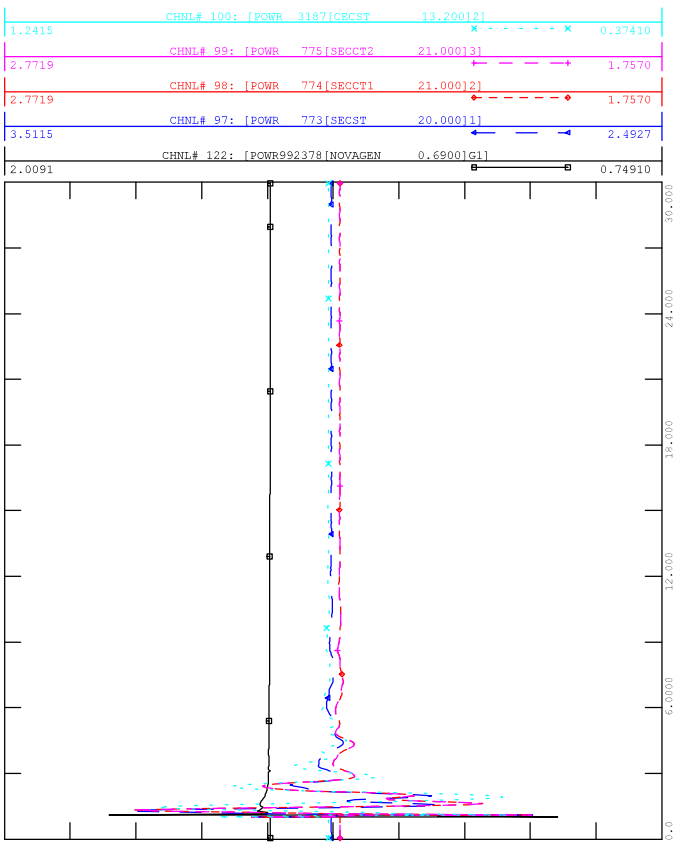
CHNL# 329: [927L A1_1 P] 412.79 -1018.
CHNL# 347: [924L P] 420.60 -833.3
CHNL# 317: [1003L P] -262.0 -778.9
CHNL# 341: [985L P] -265.1 -787.8



SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

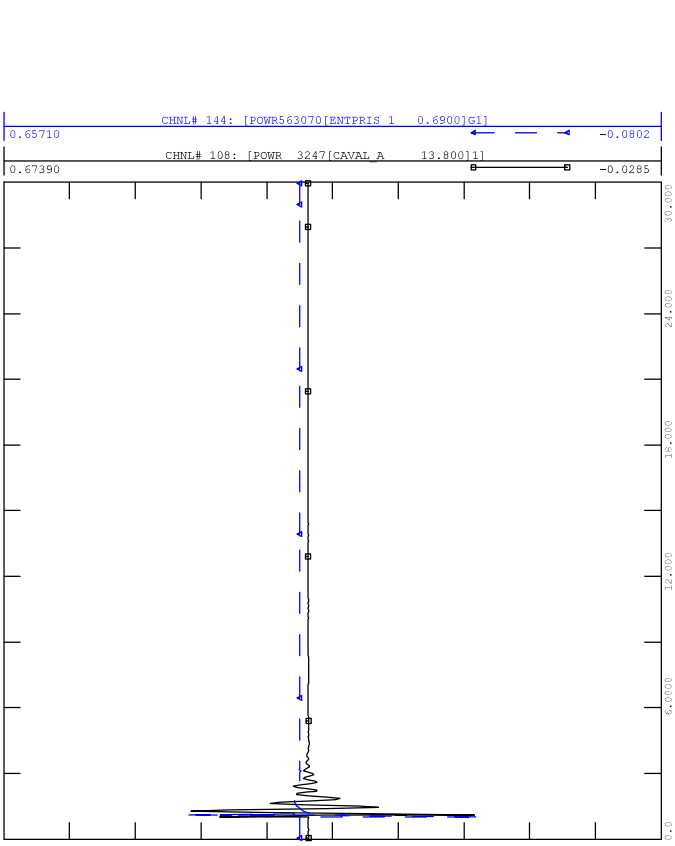
FILE: scn3_SP_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

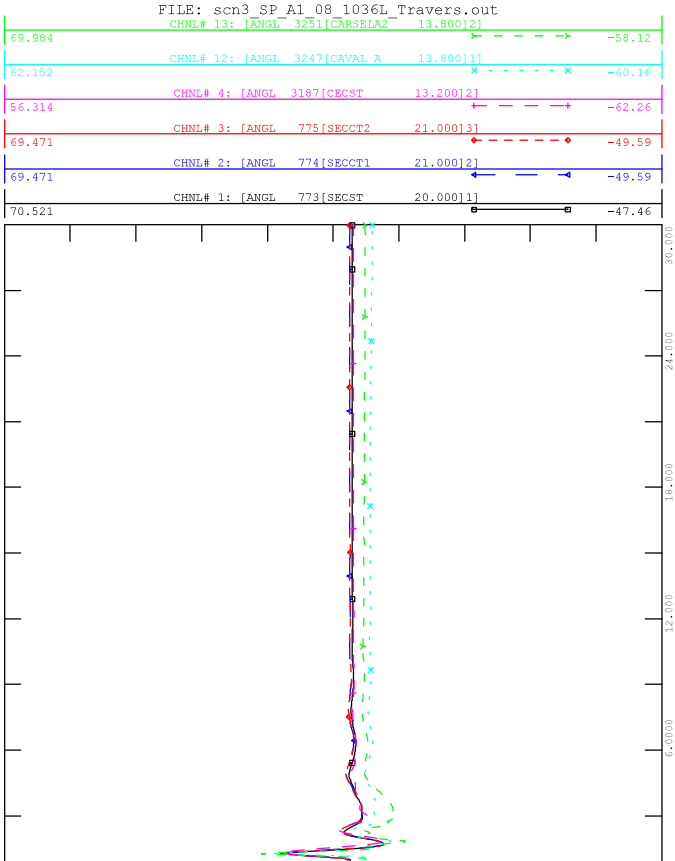
FILE: scn3_SP_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

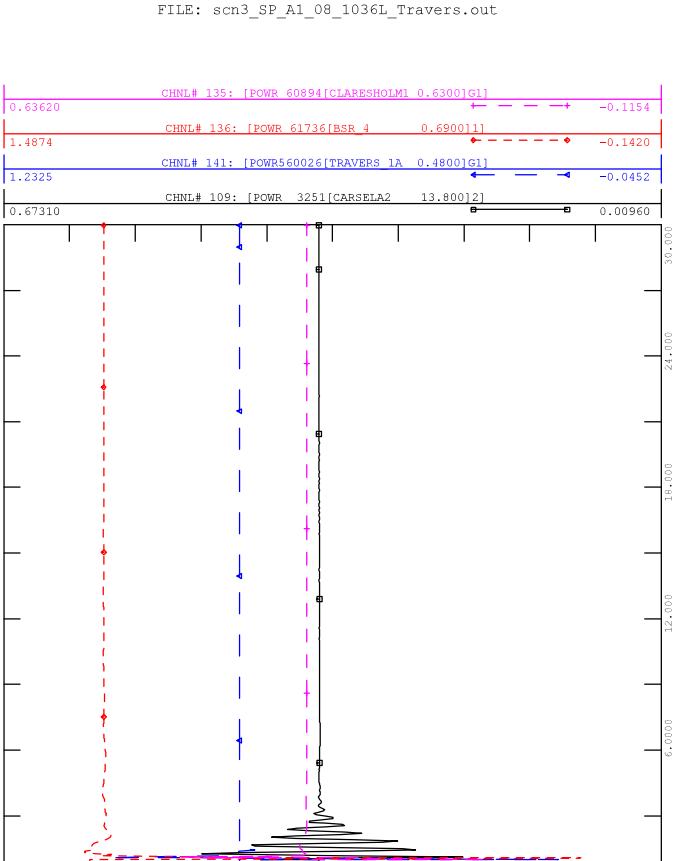
FILE: scn3_SP_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

FILE: scn3_SP_A1_08_1036L_Travers.out

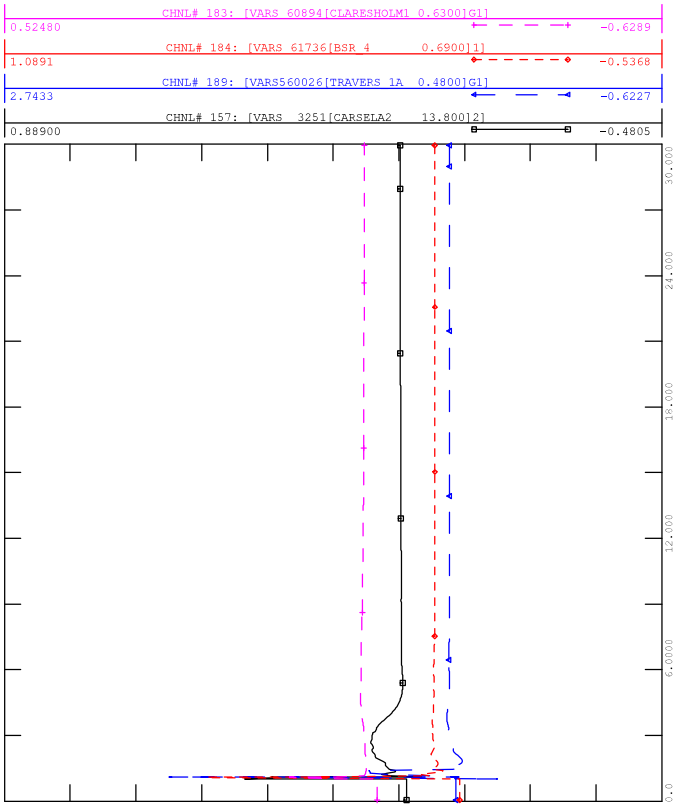


SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

FILE: scn3_SP_A1_08_1036L_Travers.out

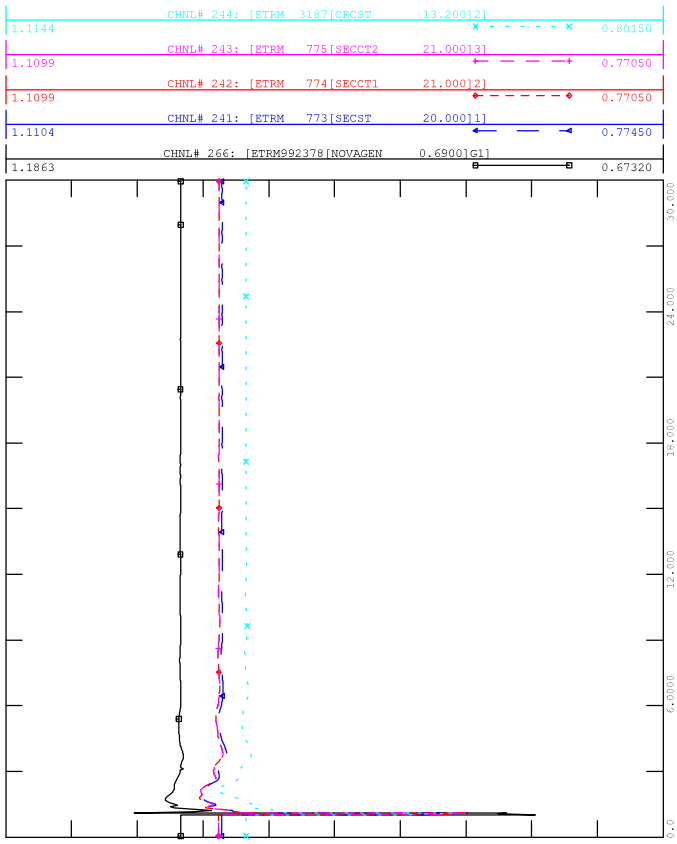
SAT, MAY 21 2022 1:15 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

FILE: scn3_SP_A1_08_1036L_Travers.out

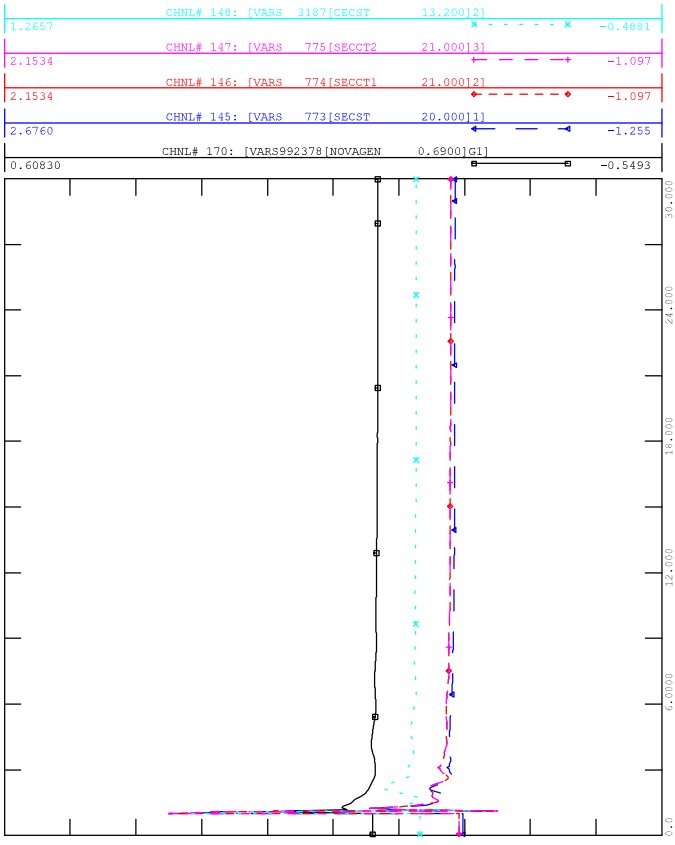
SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

FILE: scn3_SP_A1_08_1036L_Travers.out

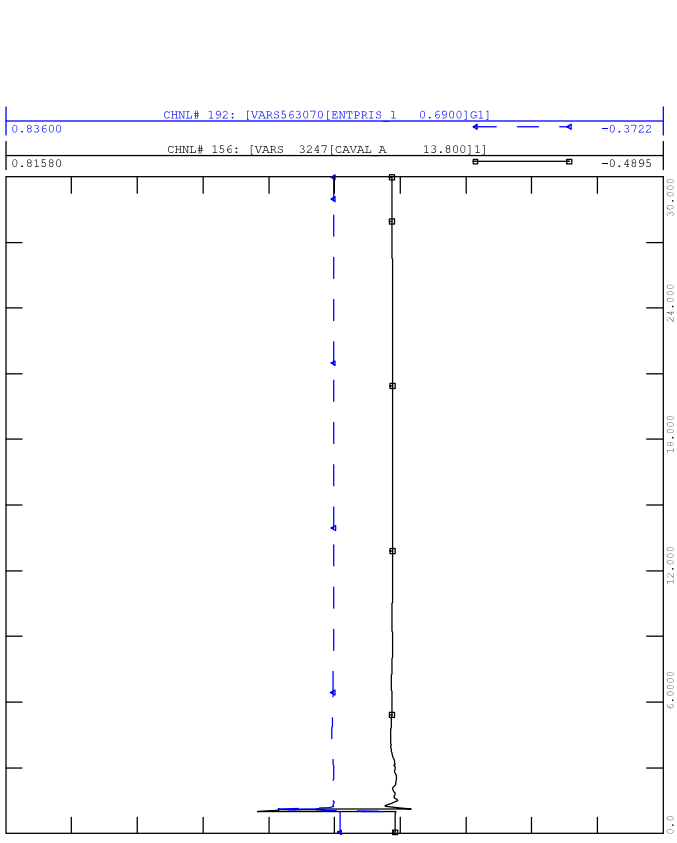
SAT, MAY 21 2022 1:15 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

FILE: scn3_SP_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

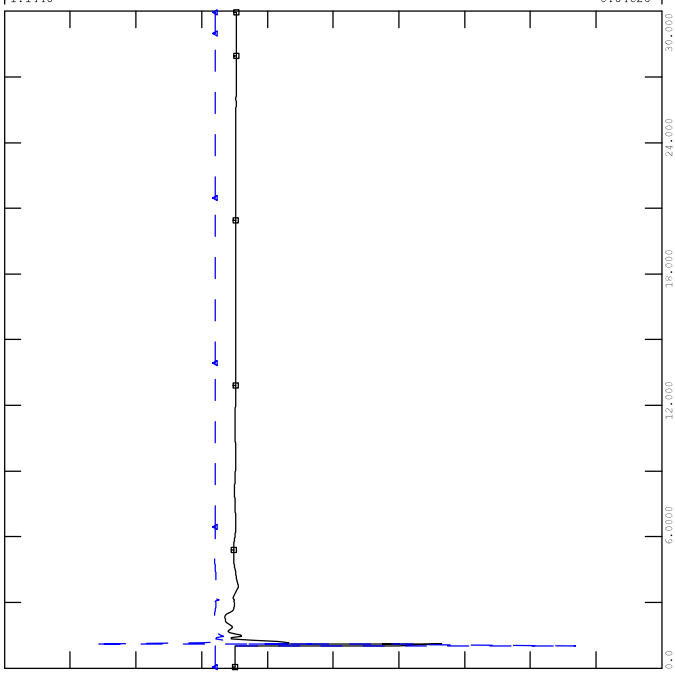


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

FILE: scn3_SP_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1] 1.2444 0.48280
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1] 1.1448 0.84620

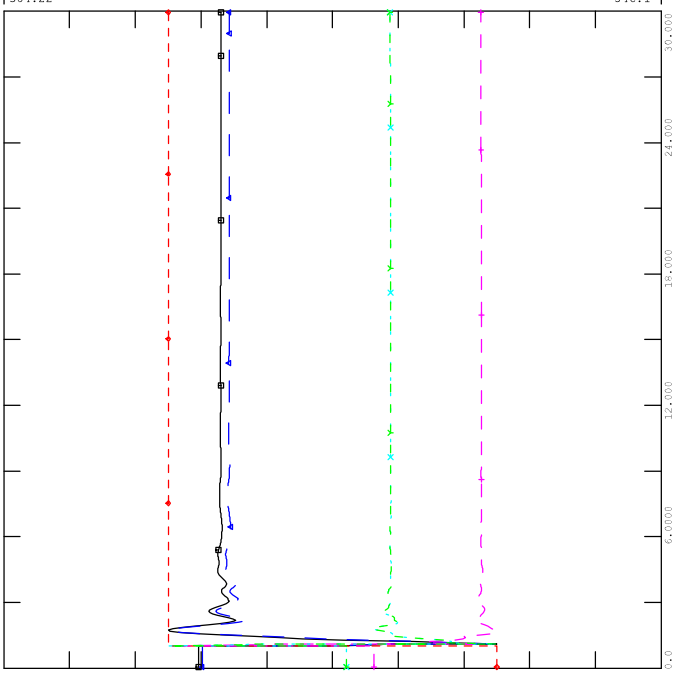


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

FILE: scn3_SP_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 333: [1107L P] 19.284 -651.6
CHNL# 311: [1106L P] 19.381 -651.7
CHNL# 323: [1005L P] 141.70 -739.8
CHNL# 335: [1036L P] 152.87 -458.6
CHNL# 327: [935L P] 217.80 -479.7
CHNL# 315: [923L P] 304.22 -546.1

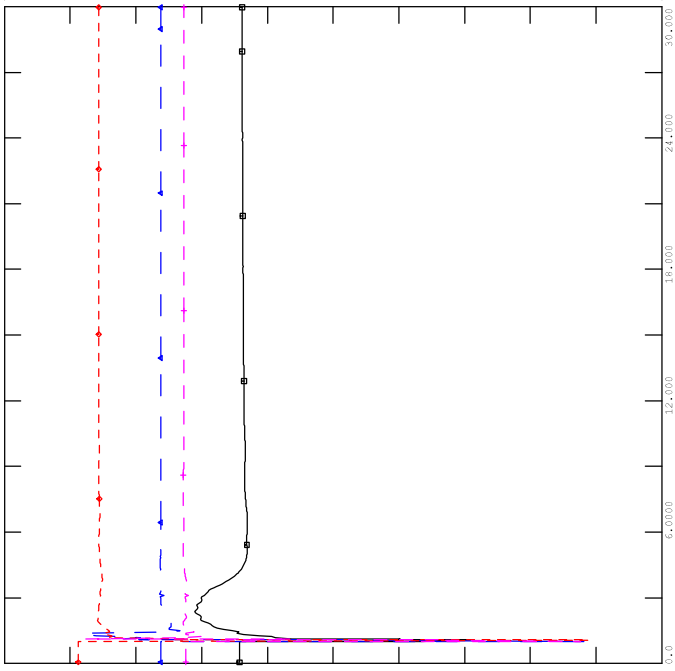


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

FILE: scn3_SP_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1] 1.2241 0.41240
CHNL# 280: [ETRM 61736[BSR 4 0.6900]1] 1.1250 0.23110
CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1] 1.3000 0.45780
CHNL# 253: [ETRM 3251[CARSELA2 13.800]2] 1.1536 0.80800

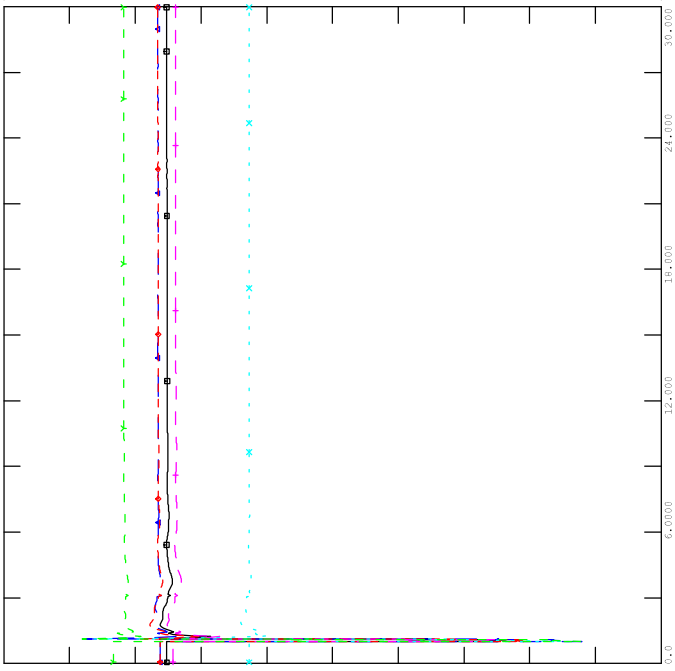


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

FILE: scn3_SP_A1_08_1036L_Travers.out

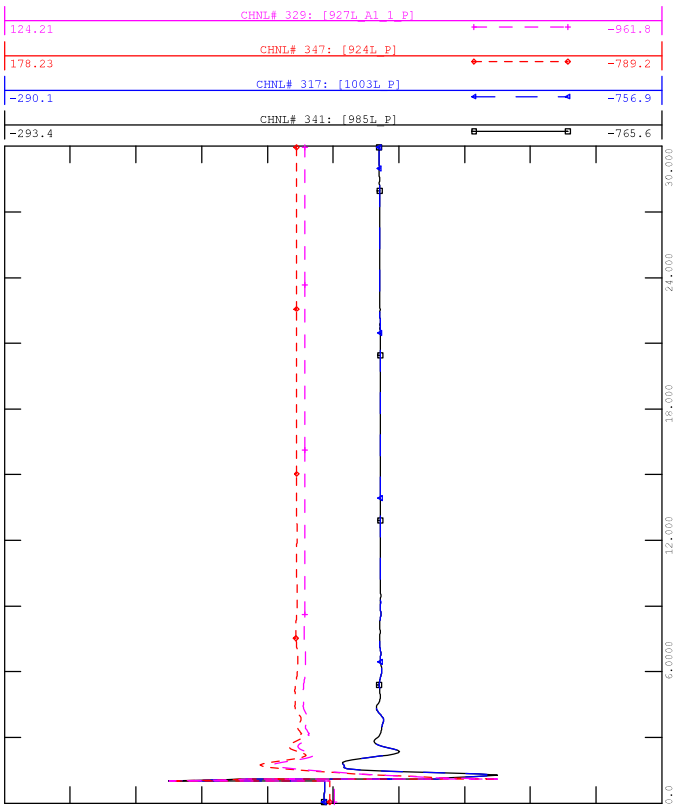
SAT, MAY 21 2022 1:15 BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]] 1.1691 0.33020
CHNL# 307: [VOLT 918 [CASS01 240.00]] 1.3146 0.58520
CHNL# 303: [VOLT 160 [JANET 4 240.00]] 1.1607 0.75800
CHNL# 310: [VOLT 902378 [927L TAP 240.00]] 1.1642 0.67680
CHNL# 308: [VOLT 943 [MILO 1 240.00]] 1.2381 0.40930
CHNL# 302: [VOLT 159 [LANGDON4 240.00]] 1.1588 0.73620



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

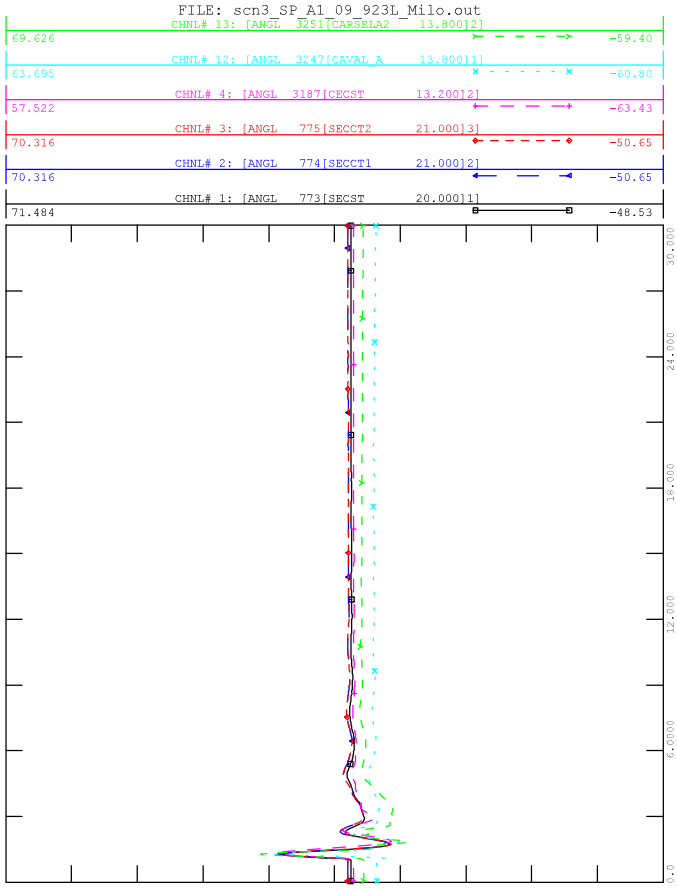
FILE: scn3_SP_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

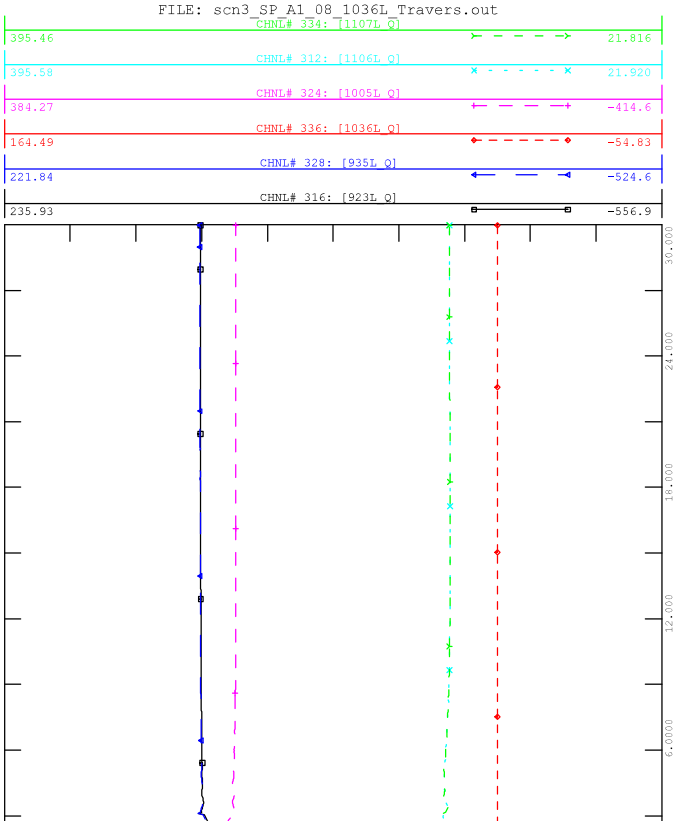
FILE: scn3_SP_A1_09_923L_Milo.out



SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

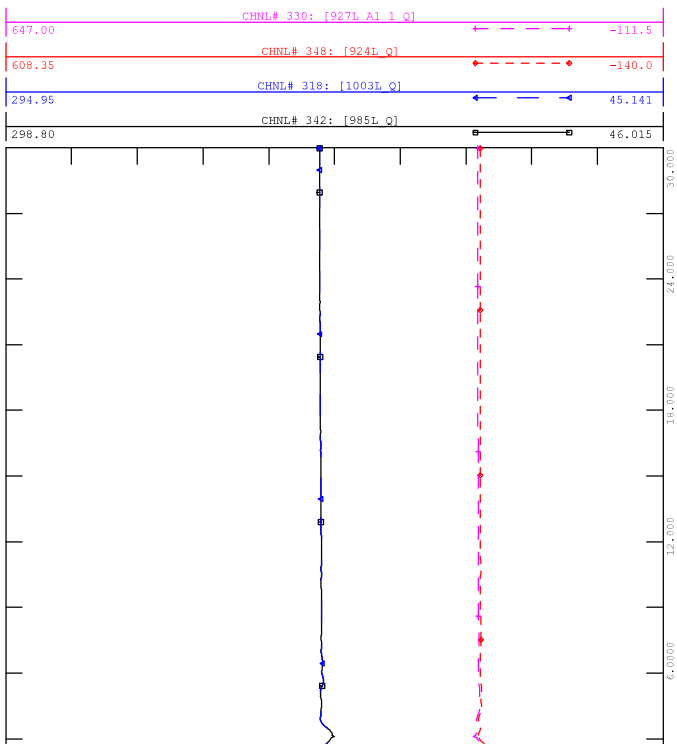
FILE: scn3_SP_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_08_1036L_TRAVERS

FILE: scn3_SP_A1_08_1036L_Travers.out



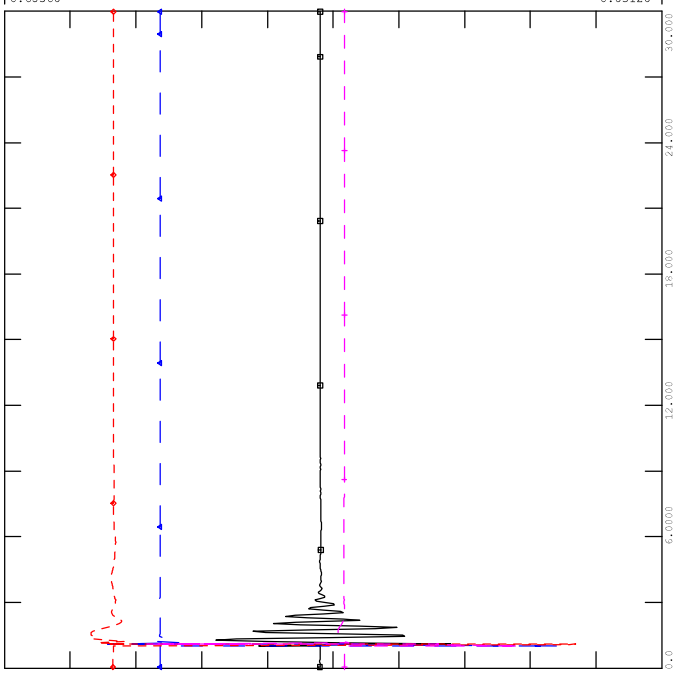
SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.76920 -0.1578
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.5266 0.00430
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
1.0758 -0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.65360 0.03120

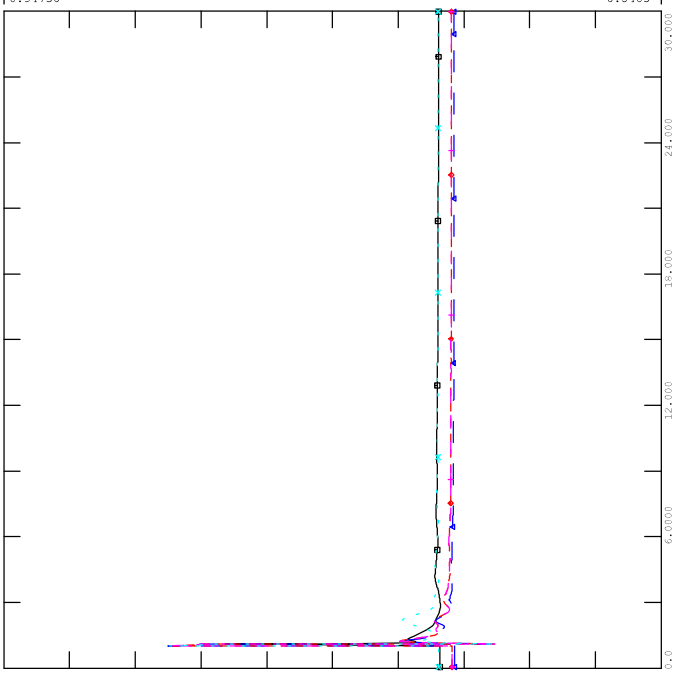


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

CHNL# 148: [VARS 3187[CECST 13.200]2]
1.6882 -0.6273
CHNL# 147: [VARS 775[SECCT2 21.000]3]
3.3178 -1.685
CHNL# 146: [VARS 774[SECCT1 21.000]2]
3.3178 -1.685
CHNL# 145: [VARS 773[SECST 20.000]1]
4.1143 -1.978
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1]
0.94730 -0.5403

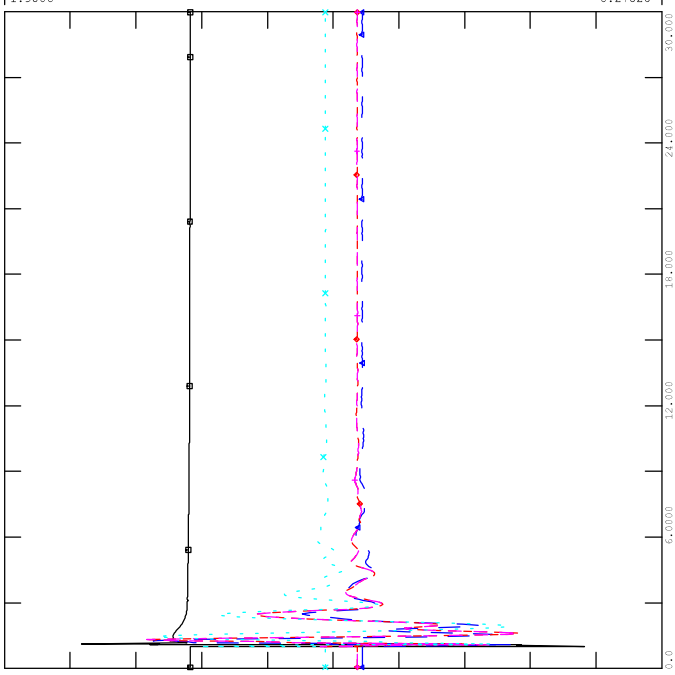


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2]
1.2326 0.37550
CHNL# 99: [POWR 775[SECCT2 21.000]3]
2.7489 1.8261
CHNL# 98: [POWR 774[SECCT1 21.000]2]
2.7489 1.8261
CHNL# 97: [POWR 773[SECST 20.000]1]
3.4864 2.6016
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
1.9806 0.27820

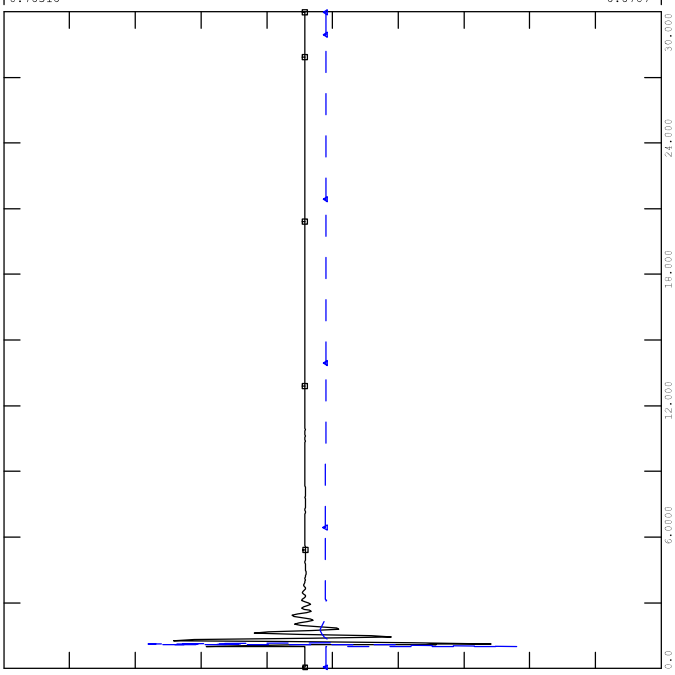


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 144: [POWR563070[ENTPRIS 1 0.6900]G1]
0.77090 -0.1398
CHNL# 108: [POWR 3247[CAVAL A 13.800]1]
0.70310 -0.0707



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

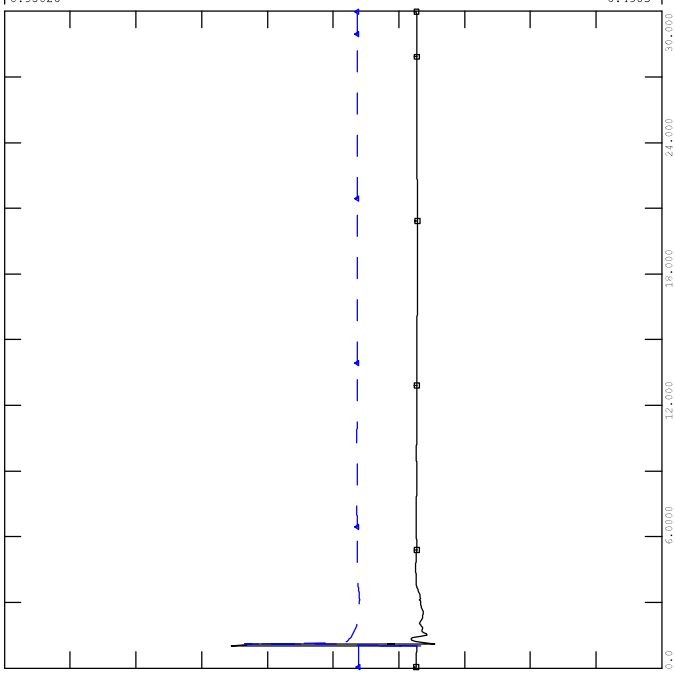
FILE: scn3_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1] 0.95790 -0.4094

CHNL# 156: [VARS 3247[CAVAL A 13.800]1] 0.95020 -0.4983



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15

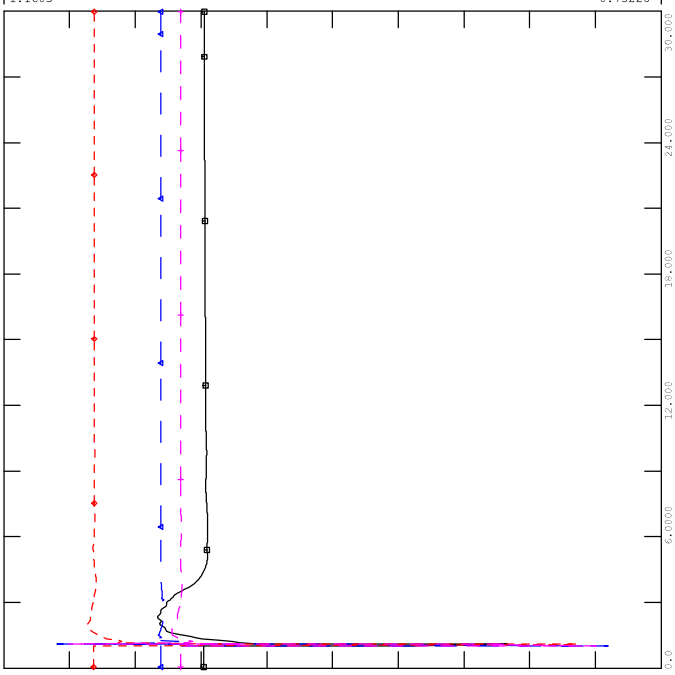
TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1] 1.2721 0.26200

CHNL# 280: [ETRM 61736[BSR 4 0.6900]1] 1.1325 0.34580

CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1] 1.3964 0.15540

CHNL# 253: [ETRM 3251[CARSELA2 13.800]2] 1.1603 0.73220



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15

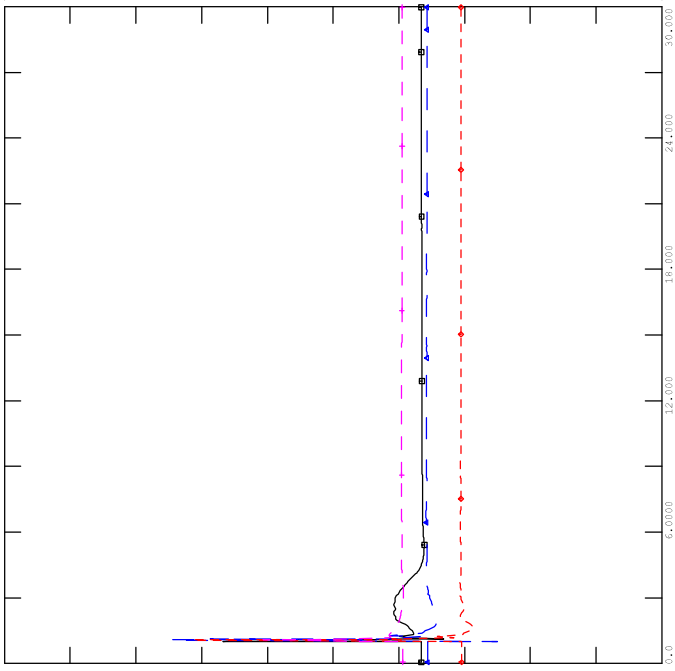
REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.64140 -0.6304

CHNL# 184: [VARS 61736[BSR 4 0.6900]1] 1.1745 -0.5678

CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1] 2.4302 -0.6765

CHNL# 157: [VARS 3251[CARSELA2 13.800]2] 1.0057 -0.4987



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

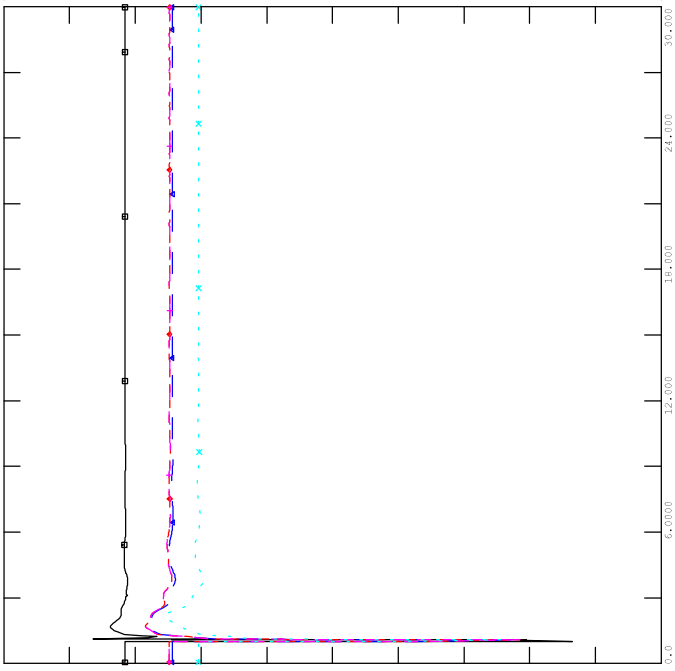
CHNL# 244: [ETRM 3187[CECST 13.200]2] 1.1212 0.71170

CHNL# 243: [ETRM 775[SECCT2 21.000]3] 1.1171 0.65230

CHNL# 242: [ETRM 774[SECCT1 21.000]2] 1.1171 0.65230

CHNL# 241: [ETRM 773[SECST 20.000]1] 1.1175 0.65880

CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1] 1.1861 0.44890



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1759 0.12970
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3566 0.25010
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1679 0.58320
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1588 0.42370
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2025 -0.0895
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1627 0.53190

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

CHNL# 334: [1107L Q]
316.07 31.555
CHNL# 312: [1106L Q]
316.16 31.660
CHNL# 324: [1005L Q]
152.38 -282.2
CHNL# 336: [1036L Q]
272.86 -102.3
CHNL# 328: [935L Q]
751.58 -727.5
CHNL# 316: [923L Q]
40.000 -53.61

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3149 0.30590
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1491 0.77880

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

CHNL# 333: [1107L P]
29.267 -605.1
CHNL# 311: [1106L P]
29.346 -605.2
CHNL# 323: [1005L P]
193.72 -593.6
CHNL# 335: [1036L P]
155.77 -482.4
CHNL# 327: [935L P]
512.13 -764.9
CHNL# 315: [923L P]
92.428 -40.00

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

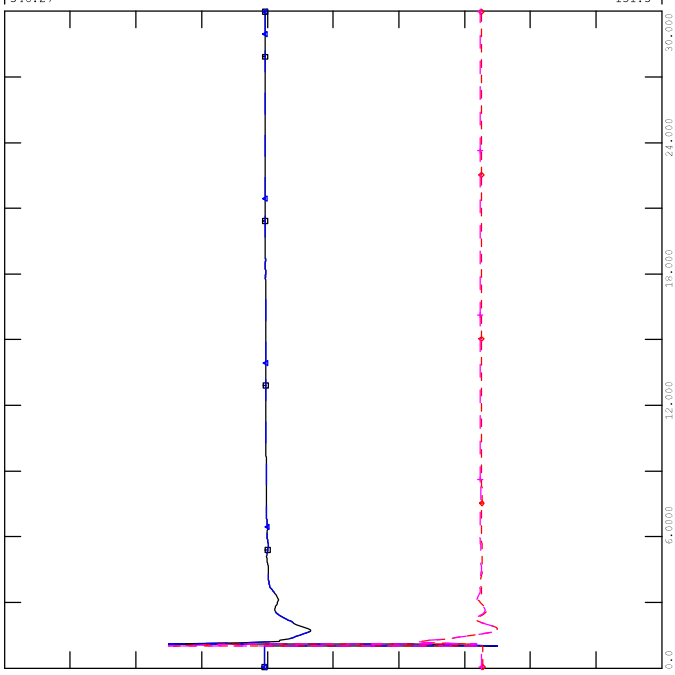
SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15 BRANCH Q

CHNL# 330: [927L A1 1 Q] 895.53 -165.8
CHNL# 348: [924L Q] 875.79 -201.2
CHNL# 318: [1003L Q] 341.82 -130.0
CHNL# 342: [985L Q] 346.27 -131.3

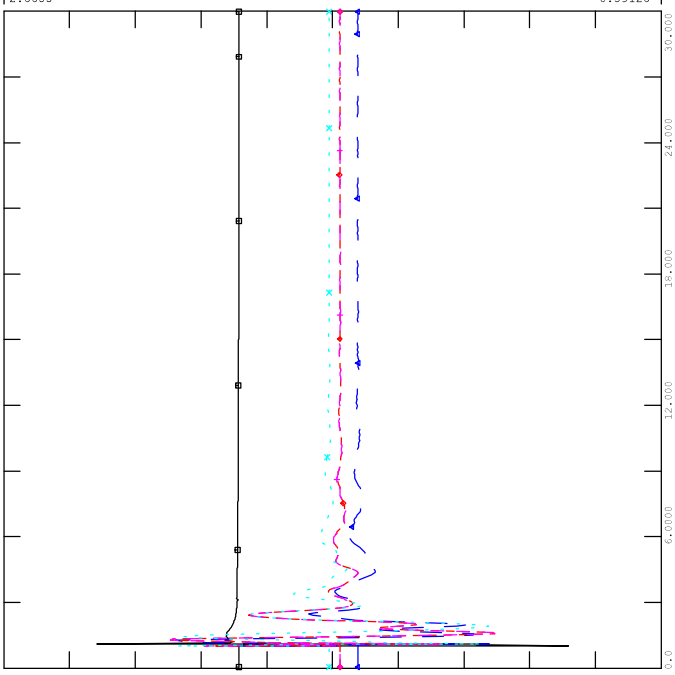


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2] 1.1906 0.42930
CHNL# 99: [POWR 775[SECCT2 21.000]3] 2.6580 1.8675
CHNL# 98: [POWR 774[SECCT1 21.000]2] 2.6580 1.8675
CHNL# 97: [POWR 773[SECST 20.000]1] 3.4168 2.6518
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1] 2.0055 0.59120

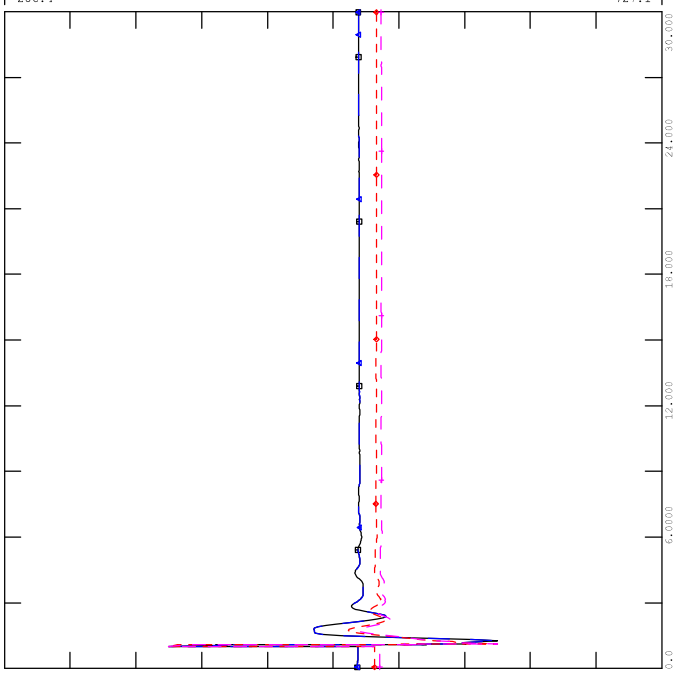


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_09_923L_MILO

FILE: scn3_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 329: [927L A1 1 P] 425.32 -1056.
CHNL# 347: [924L P] 432.31 -868.7
CHNL# 317: [1003L P] -283.1 -718.8
CHNL# 341: [985L P] -286.4 -727.1

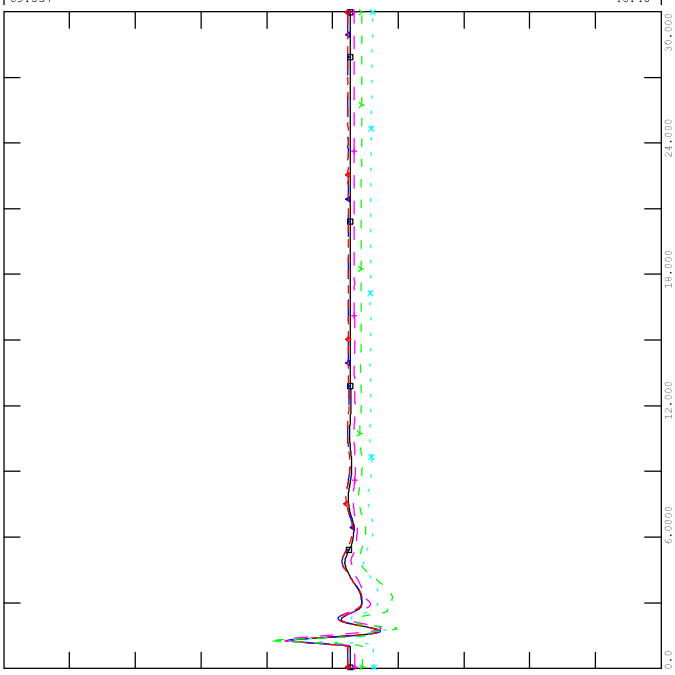


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:15 ROTOR ANGLE

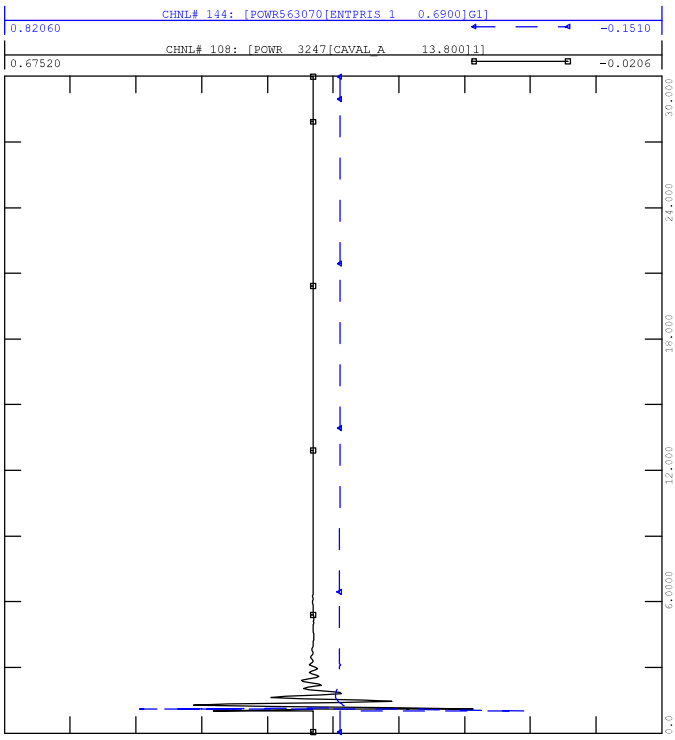
CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2] 67.203 -57.04
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 61.127 -59.13
CHNL# 4: [ANGL 3187[CECST 13.200]2] 56.035 -61.22
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 68.583 -48.39
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 68.583 -48.39
CHNL# 1: [ANGL 773[SECST 20.000]1] 69.537 -46.48



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

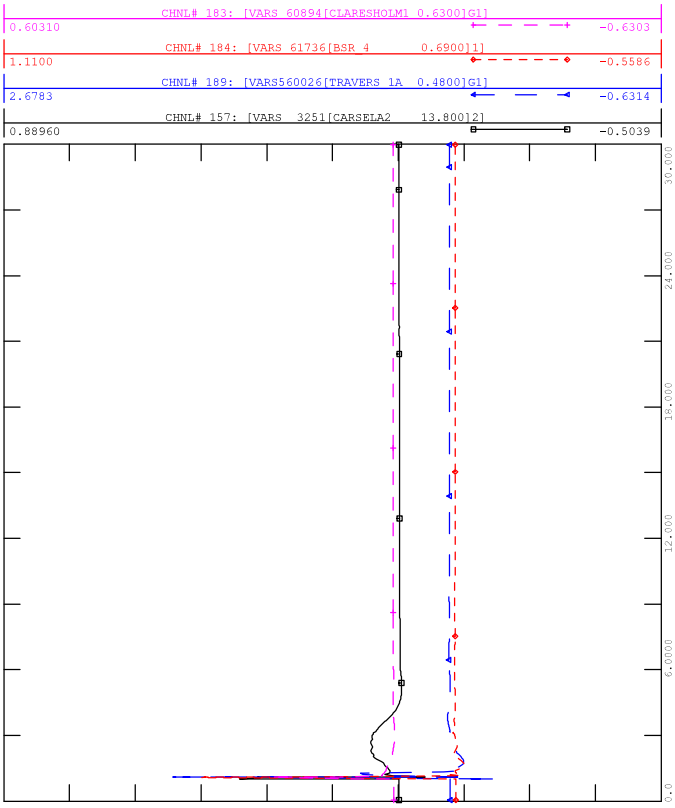
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

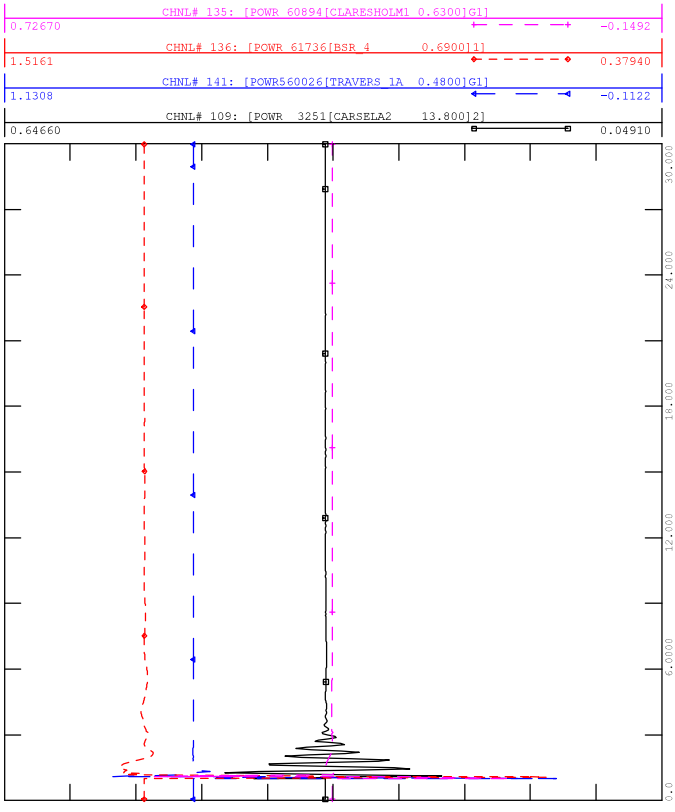
SAT, MAY 21 2022 1:15 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

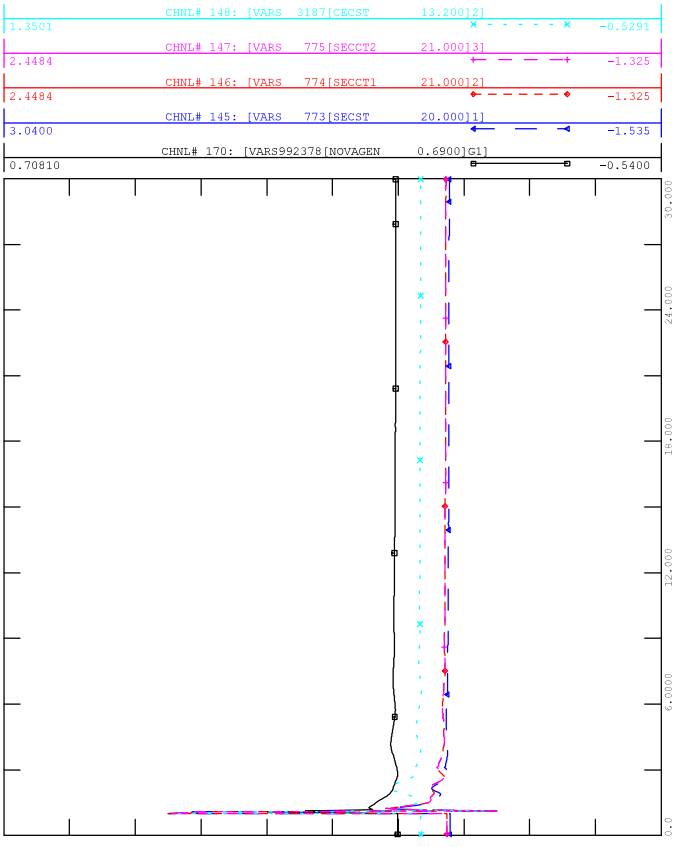
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

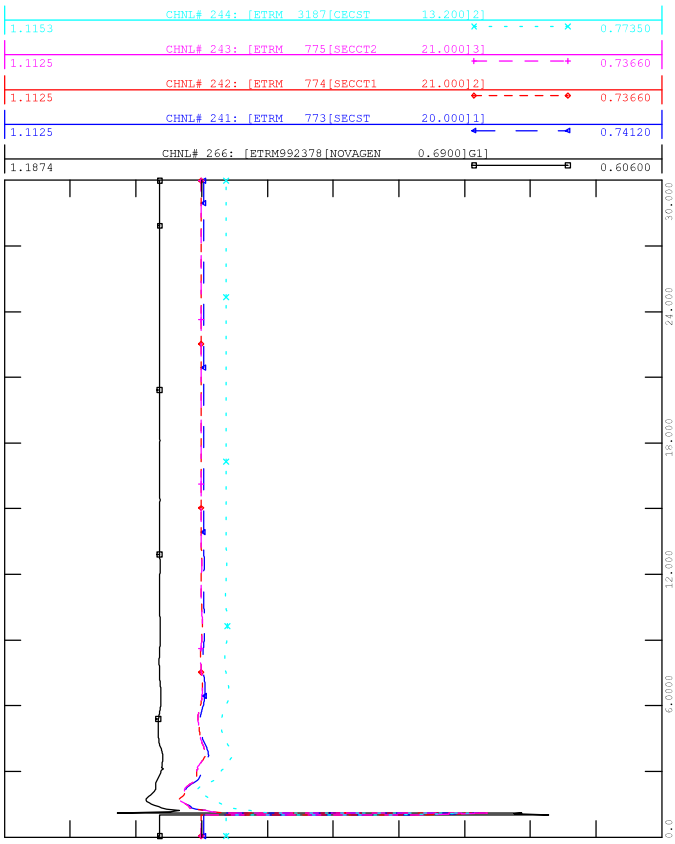


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

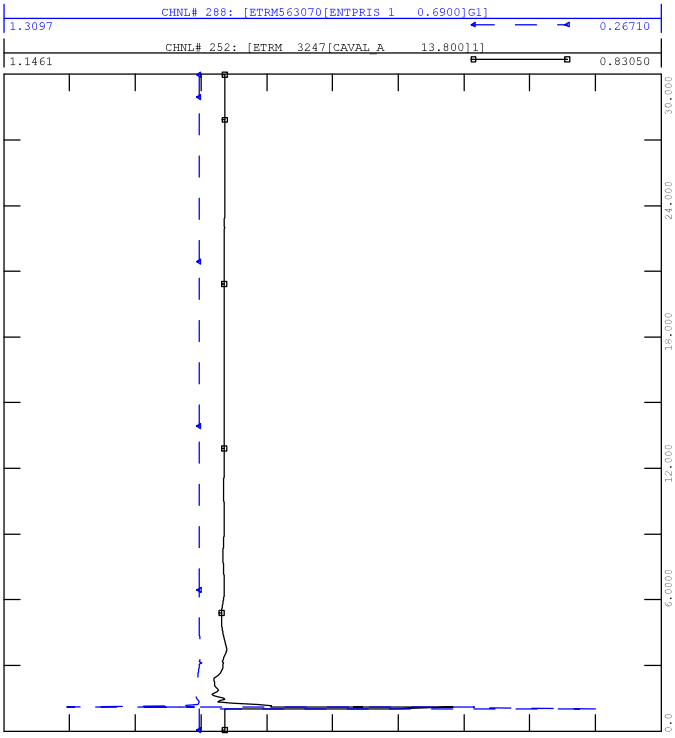


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

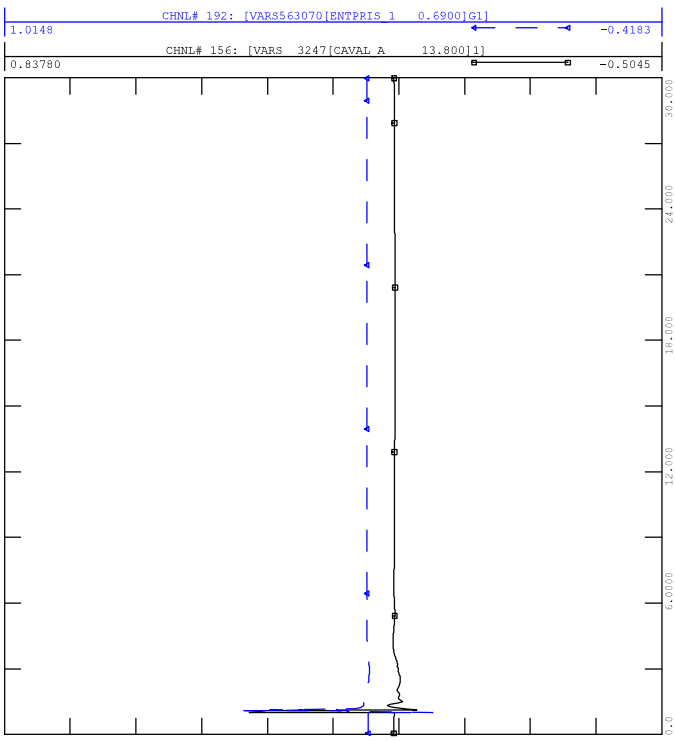


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

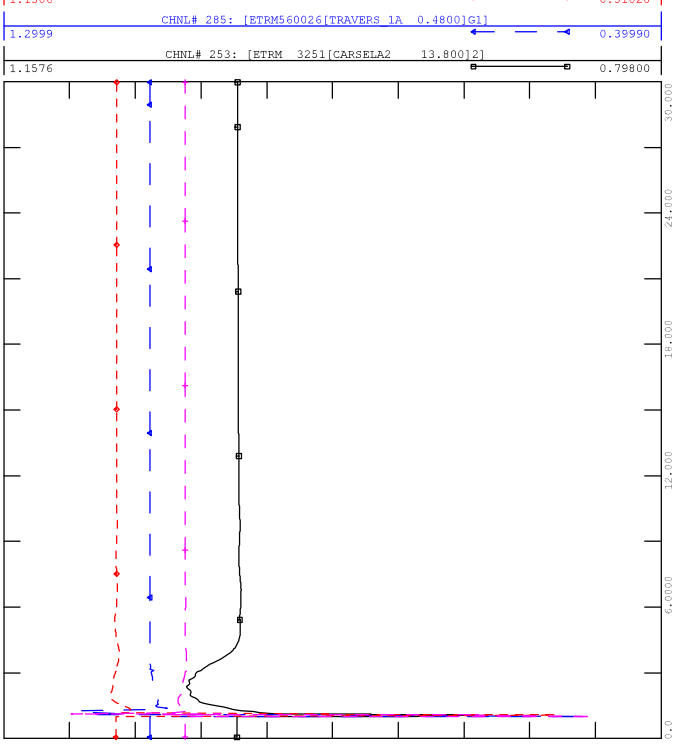


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

CHNL# 333: [1107L P]
-35.06 -575.9
CHNL# 311: [1106L P]
-34.99 -576.0
CHNL# 323: [1005L P]
68.415 -518.2
CHNL# 335: [1036L P]
-0.6955 -427.1
CHNL# 327: [935L P]
423.24 -629.1
CHNL# 315: [923L P]
92.428 -40.00

SAT, MAY 21 2022 1:15 BRANCH P

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

CHNL# 329: [927L A1 1 P]
221.75 -946.0
CHNL# 347: [924L P]
261.70 -767.7
CHNL# 317: [1003L P]
-353.2 -673.1
CHNL# 341: [985L P]
-357.3 -680.8

SAT, MAY 21 2022 1:15 BRANCH P

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

FILE: scn3_SP_A1_10_923L_Newell.out

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1839 0.36800
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3403 -0.0159
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1646 0.70660
CHNL# 310: [VOLT 902378 [927L_TAP 240.00]]
1.1606 0.59270
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2078 0.24740
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1599 0.67190

SAT, MAY 21 2022 1:15 BUS VOLTAGE

TIME (SECONDS)

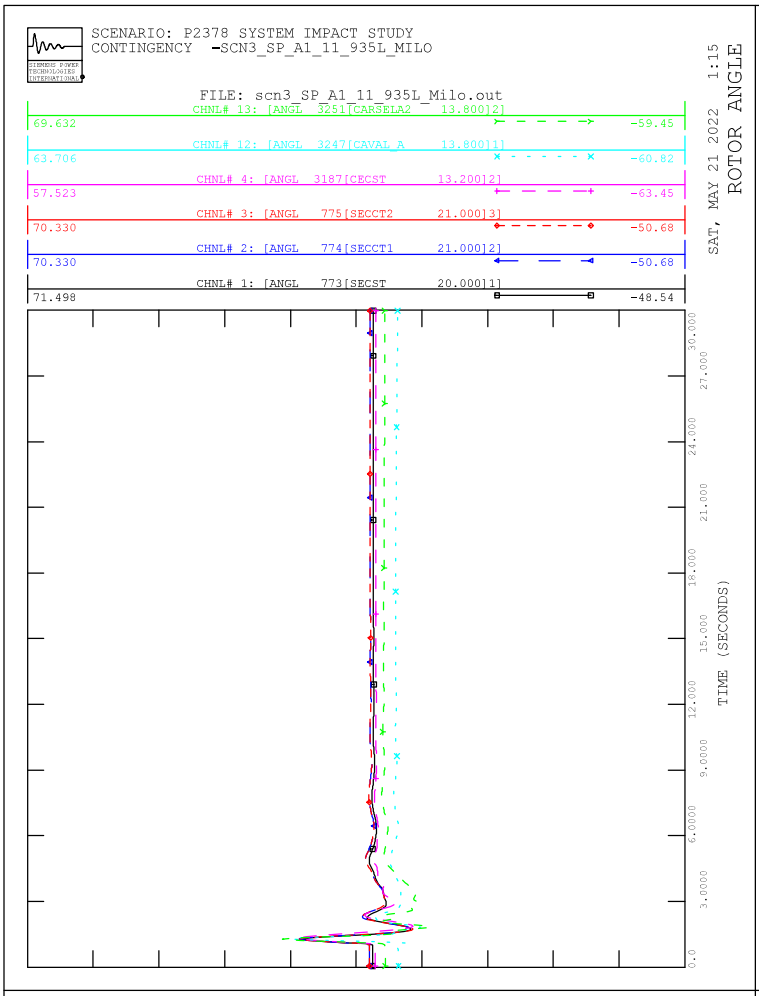
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL

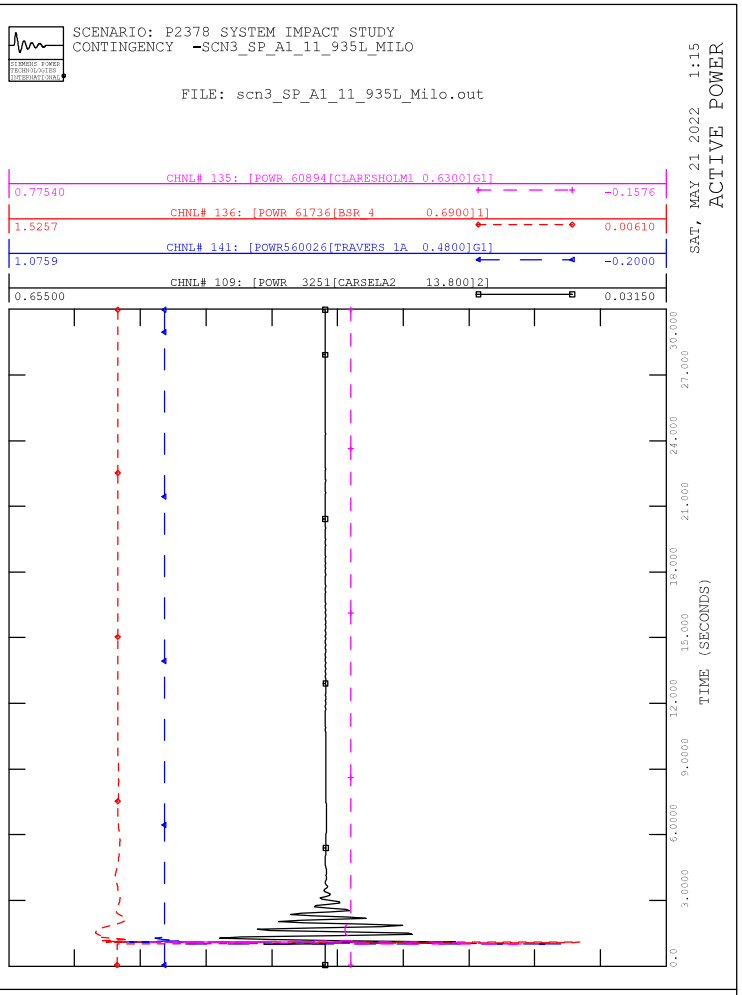
FILE: scn3_SP_A1_10_923L_Newell.out

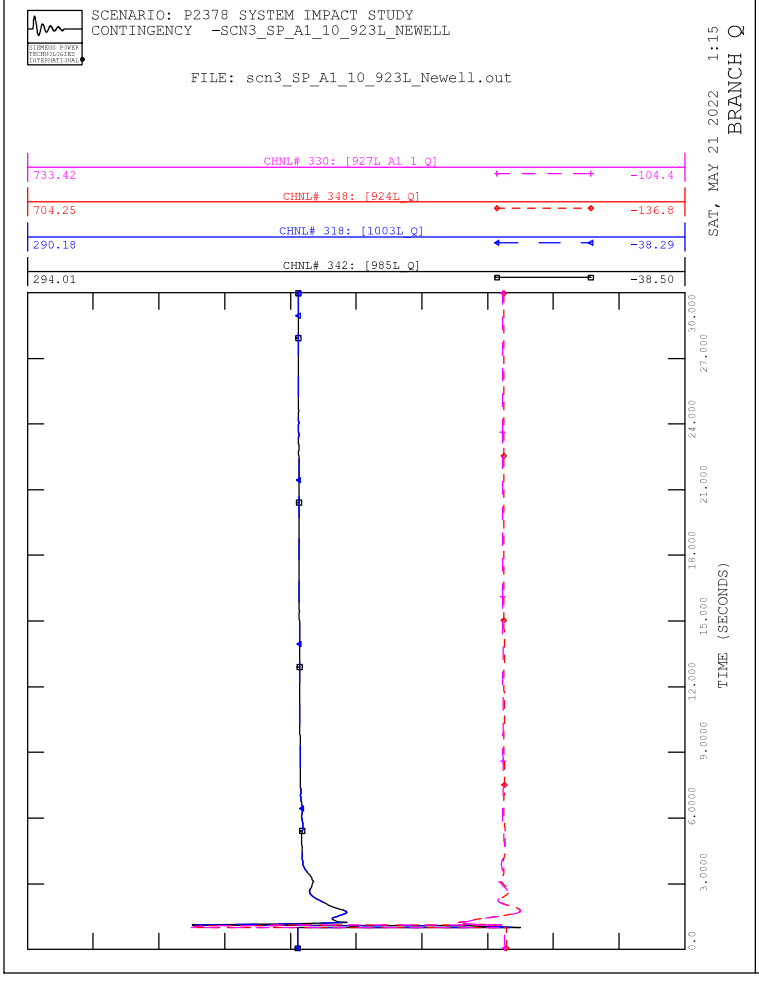
CHNL# 334: [1107L Q]
288.34 44.431
CHNL# 312: [1106L Q]
288.42 44.541
CHNL# 324: [1005L Q]
211.77 -384.4
CHNL# 336: [1036L Q]
292.24 -240.0
CHNL# 328: [935L Q]
659.82 -1005.
CHNL# 316: [923L Q]
40.000 -53.61

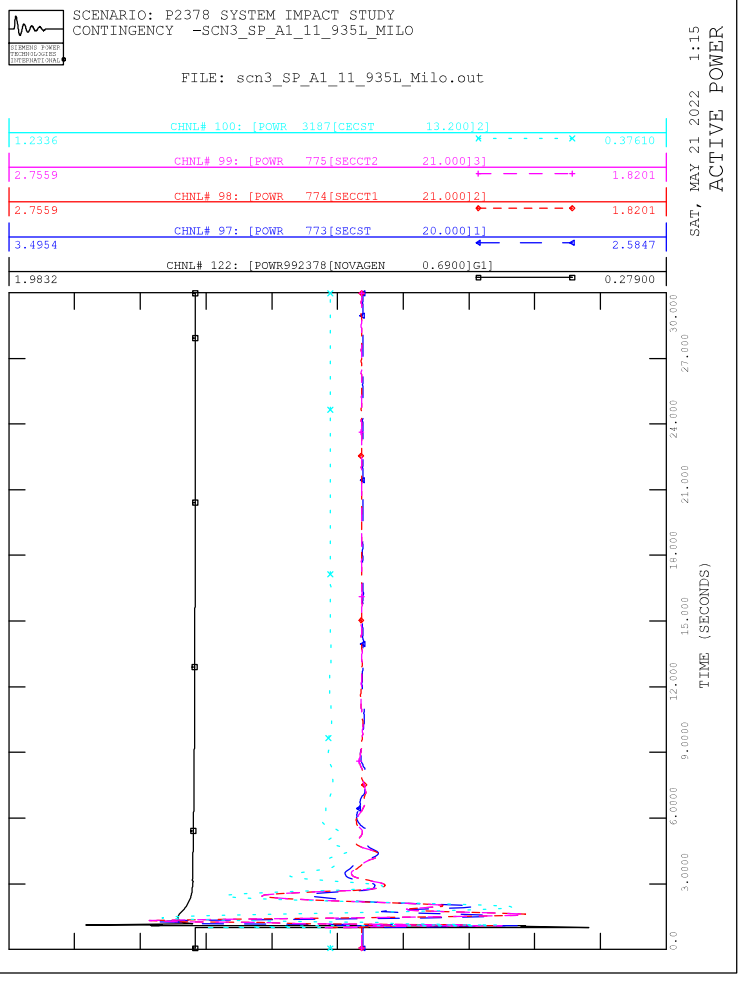
SAT, MAY 21 2022 1:15 BRANCH Q

TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO
FILE: scn3_SP_A1_11_935L_Milo.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
69.632
-59.45
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
63.706
-60.82
CHNL# 4: [ANGL 3187[CECST 13.200]2]
57.523
-63.45
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
70.330
-50.68
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
70.330
-50.68
CHNL# 1: [ANGL 773[SECST 20.000]1]
71.498
-48.54
SAT, MAY 21 2022 1:15
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO
FILE: scn3_SP_A1_11_935L_Milo.out
CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.77540
-0.1576
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.5257
0.00610
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
1.0759
-0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.65500
0.03150
SAT, MAY 21 2022 1:15
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_10_923L_NEWELL
FILE: scn3_SP_A1_10_923L_Newell.out
CHNL# 330: [927L A1 1 Q]
733.42
-104.4
CHNL# 348: [924L Q]
704.25
-136.8
CHNL# 318: [1003L Q]
290.18
-38.29
CHNL# 342: [985L Q]
294.01
-38.50
SAT, MAY 21 2022 1:15
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

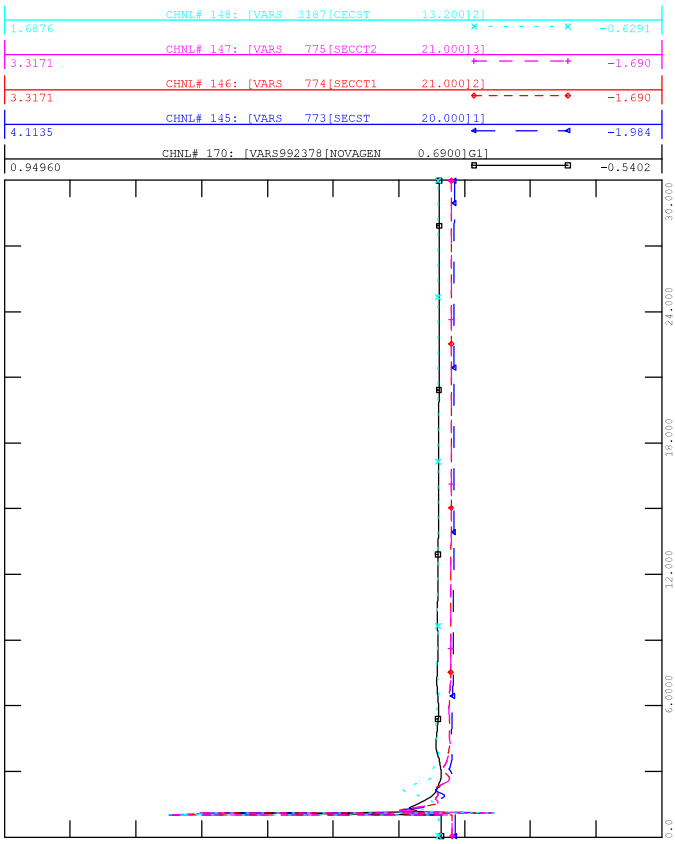

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO
FILE: scn3_SP_A1_11_935L_Milo.out
CHNL# 100: [POWR 3187[CECST 13.200]2]
1.2336
0.37610
CHNL# 99: [POWR 775[SECCT2 21.000]3]
2.7559
1.8201
CHNL# 98: [POWR 774[SECCT1 21.000]2]
2.7559
1.8201
CHNL# 97: [POWR 773[SECST 20.000]1]
3.4954
2.5847
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
1.9832
0.27900
SAT, MAY 21 2022 1:15
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO

FILE: scn3_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

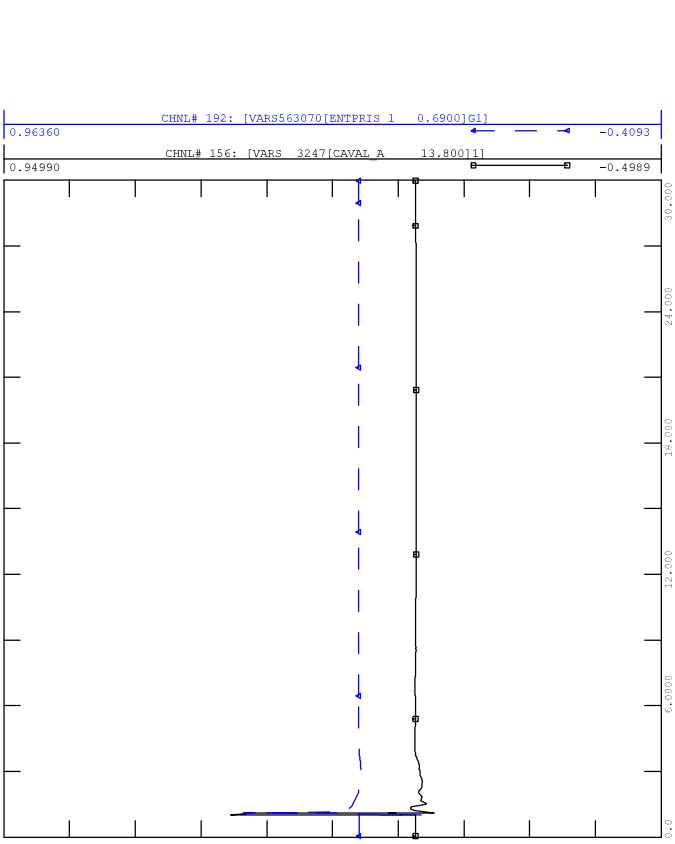


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO

FILE: scn3_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

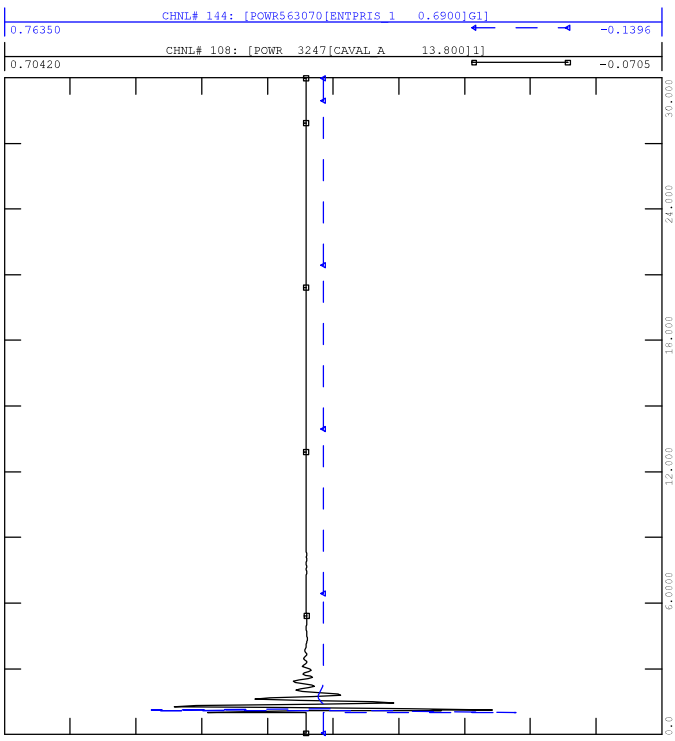


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO

FILE: scn3_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:15

ACTIVE POWER

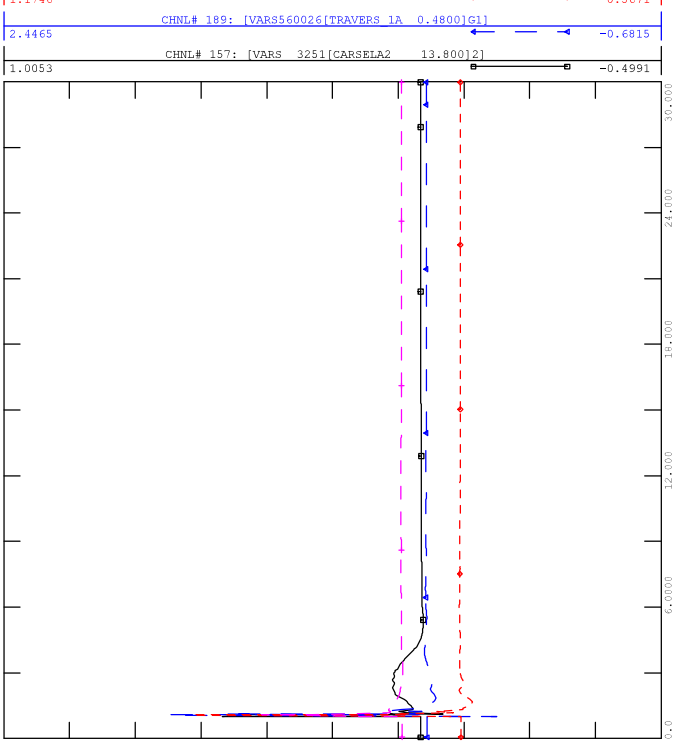


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO

FILE: scn3_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

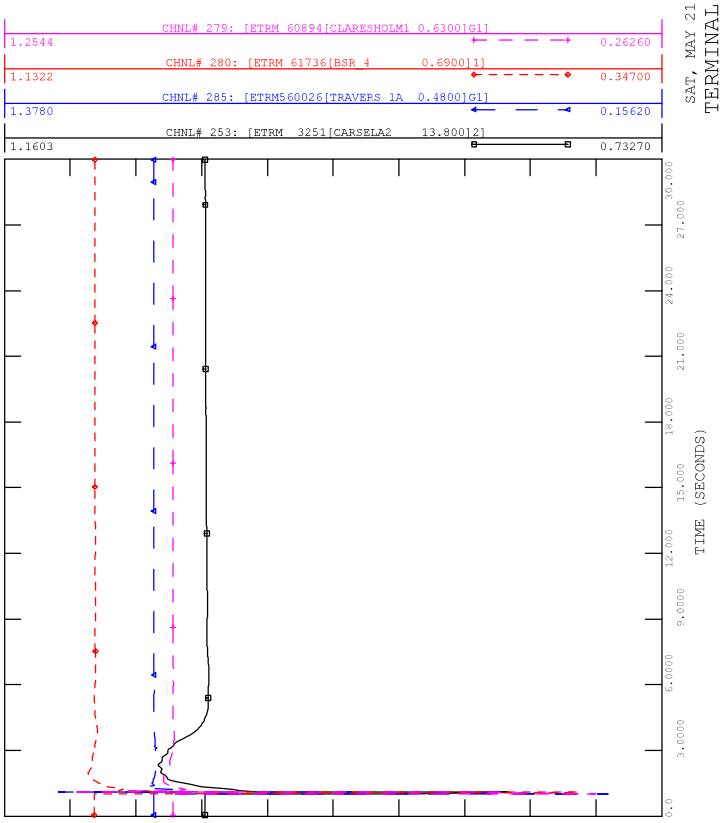


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO

FILE: scn3_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

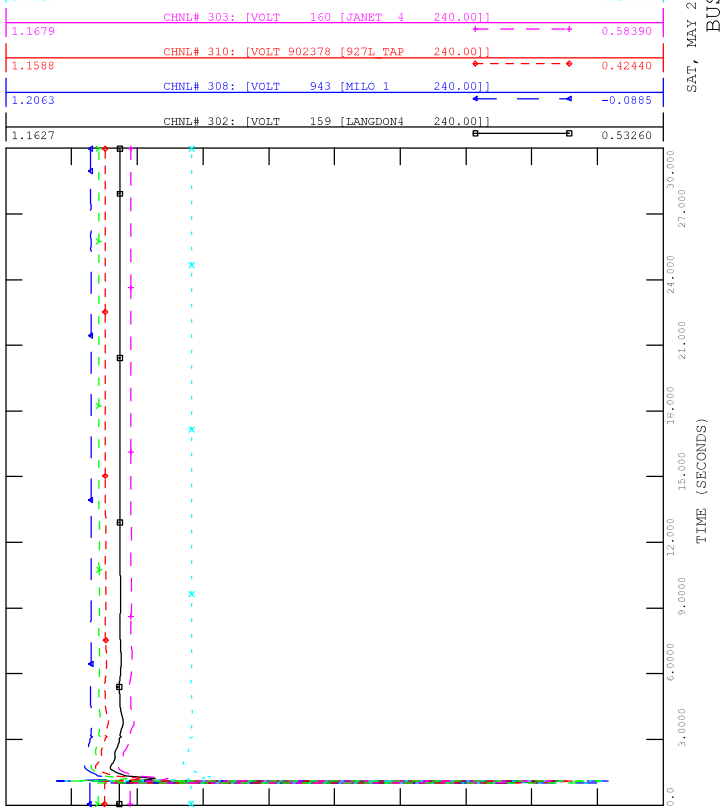


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO

FILE: scn3_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:15

BUS VOLTAGE

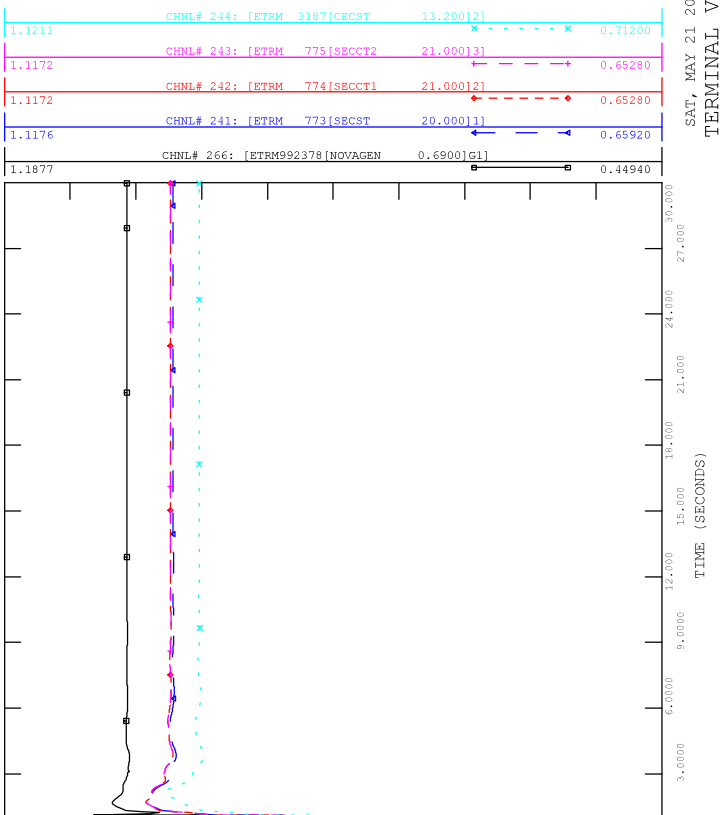


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO

FILE: scn3_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

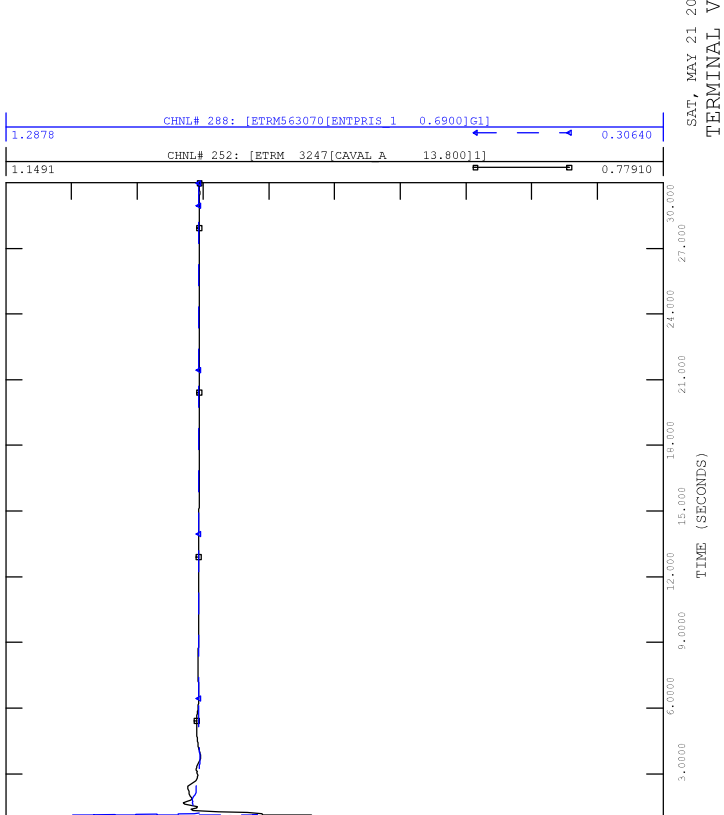


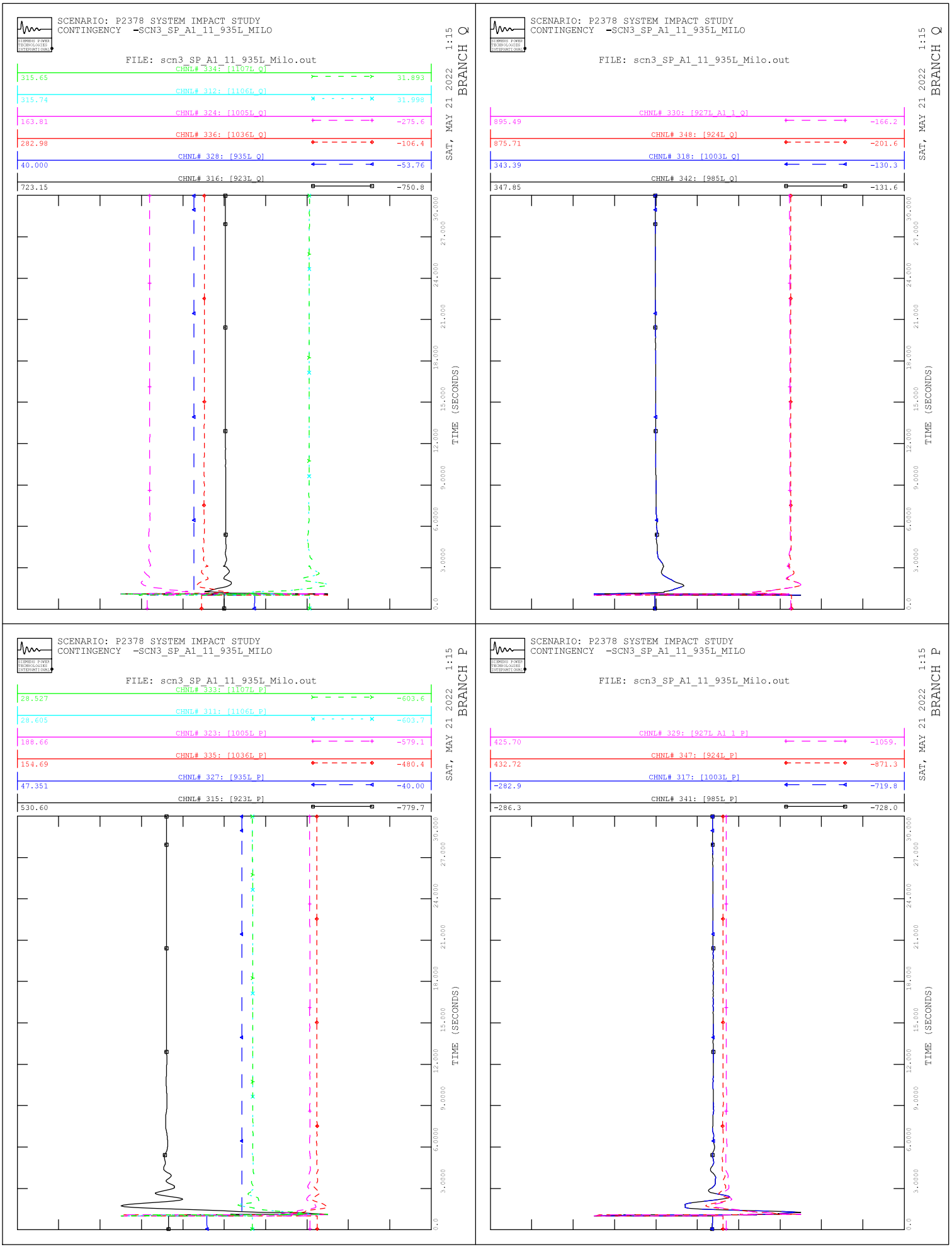
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO

FILE: scn3_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:15

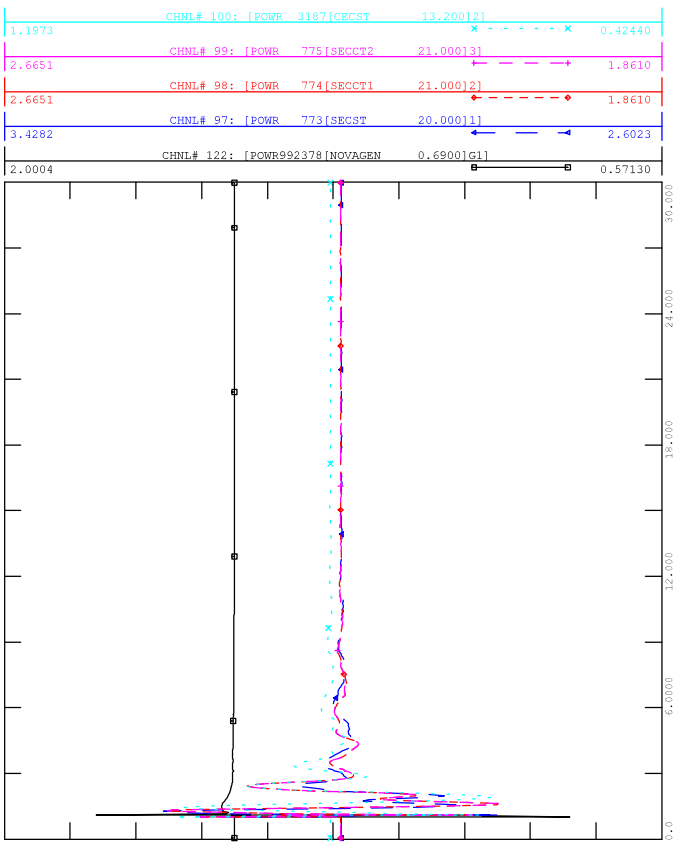
TERMINAL VOLTAGE




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO
FILE: scn3_SP_A1_11_935L_Milo.out
CHNL# 334: [1107L Q]
315.65
31.893
CHNL# 312: [1106L Q]
315.74
31.998
CHNL# 324: [1005L Q]
163.81
-275.6
CHNL# 336: [1036L Q]
282.98
-106.4
CHNL# 328: [935L Q]
40.000
-53.76
CHNL# 316: [923L Q]
723.15
-750.8
BRANCH Q
SAT, MAY 21 2022 1:15
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO
FILE: scn3_SP_A1_11_935L_Milo.out
CHNL# 330: [927L A1 1 Q]
895.49
-166.2
CHNL# 348: [924L Q]
875.71
-201.6
CHNL# 318: [1003L Q]
343.39
-130.3
CHNL# 342: [985L Q]
347.85
-131.6
BRANCH Q
SAT, MAY 21 2022 1:15
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO
FILE: scn3_SP_A1_11_935L_Milo.out
CHNL# 333: [1107L P]
28.527
-603.6
CHNL# 311: [1106L P]
28.605
-603.7
CHNL# 323: [1005L P]
188.66
-579.1
CHNL# 335: [1036L P]
154.69
-480.4
CHNL# 327: [935L P]
47.351
-40.00
CHNL# 315: [923L P]
530.60
-779.7
BRANCH P
SAT, MAY 21 2022 1:15
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_11_935L_MILO
FILE: scn3_SP_A1_11_935L_Milo.out
CHNL# 329: [927L A1 1 P]
425.70
-1059.
CHNL# 347: [924L P]
432.72
-871.3
CHNL# 317: [1003L P]
-282.9
-719.8
CHNL# 341: [985L P]
-286.3
-728.0
BRANCH P
SAT, MAY 21 2022 1:15
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

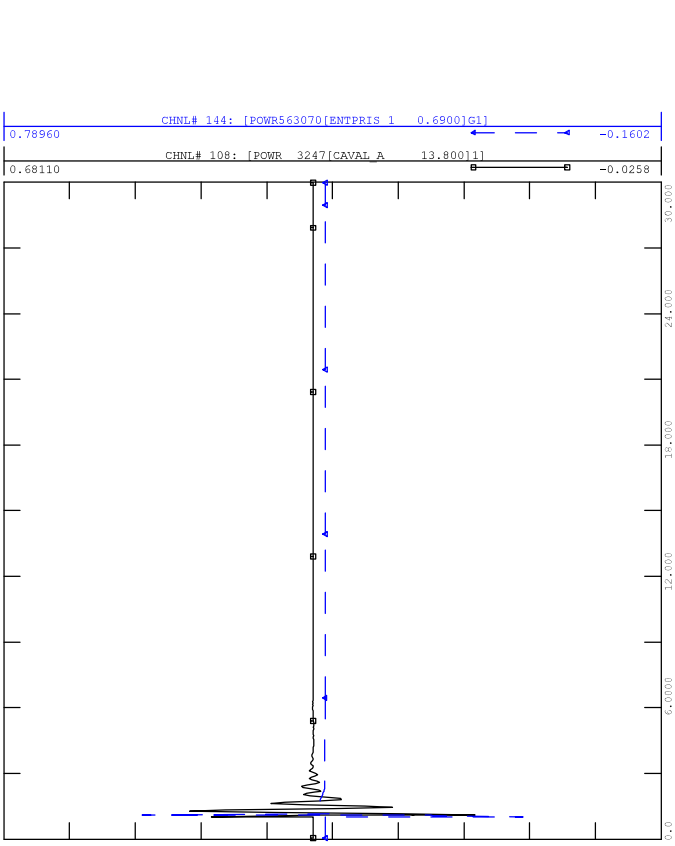
FILE: scn3_SP_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

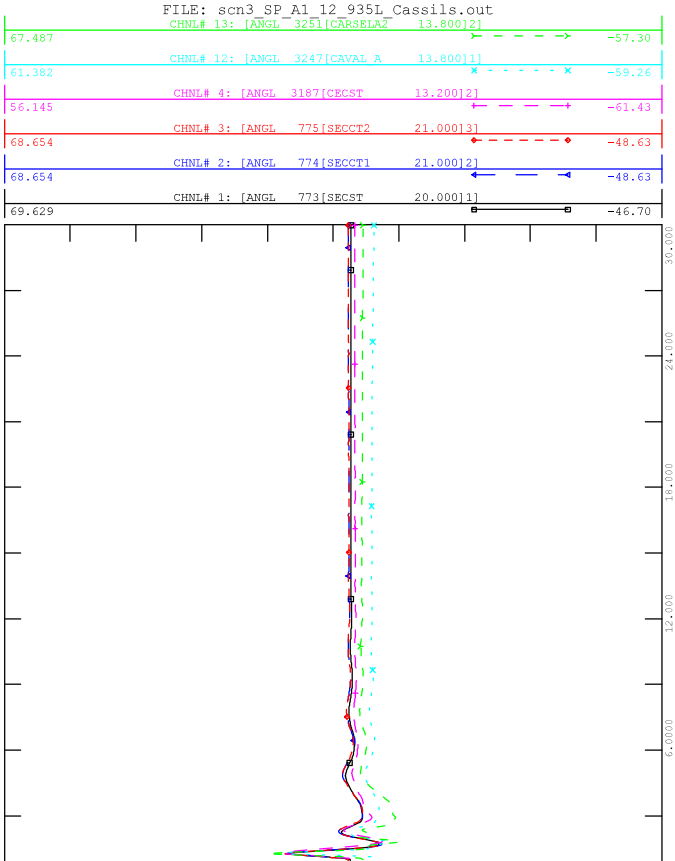
FILE: scn3_SP_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

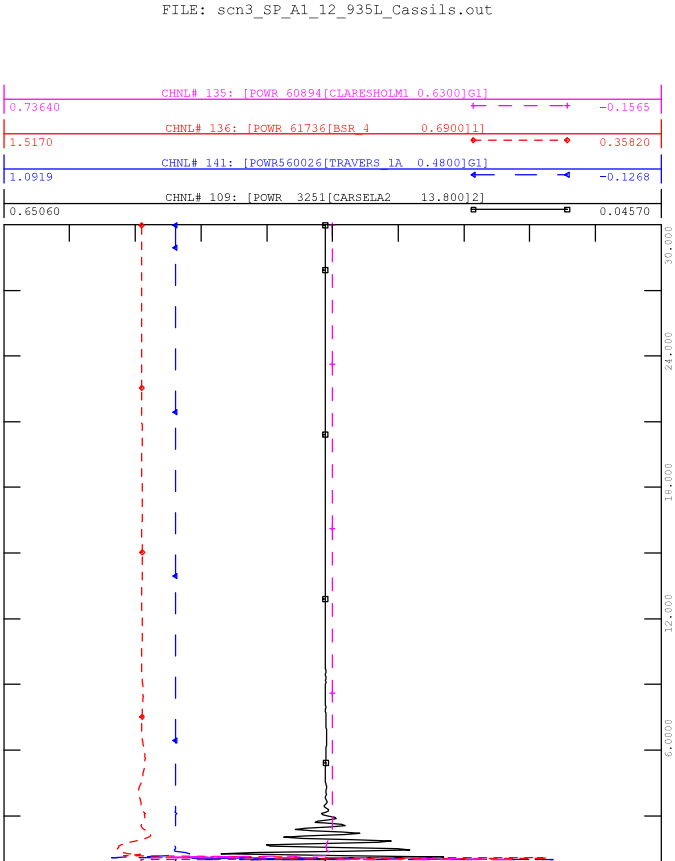
FILE: scn3_SP_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

FILE: scn3_SP_A1_12_935L_Cassils.out



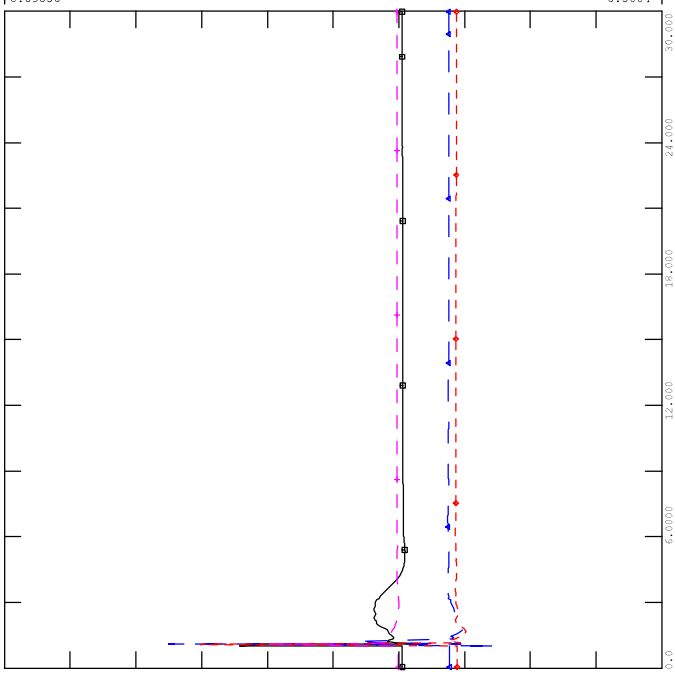
SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

FILE: scn3_SP_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.61900 -0.6303
CHNL# 184: [VARS 61736[BSR 4 0.6900]1]
1.1181 -0.5592
CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1]
2.6716 -0.6365
CHNL# 157: [VARS 3251[CARSELA2 13.800]2]
0.89850 -0.5004

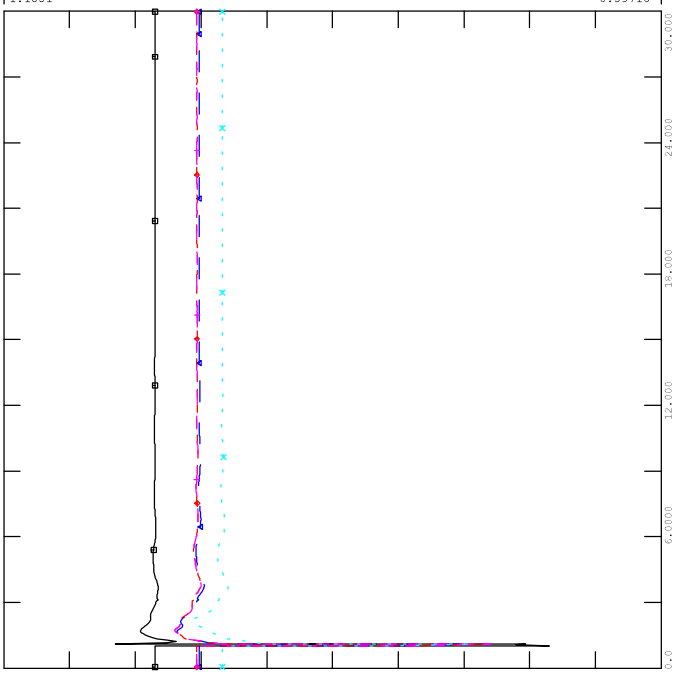


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

FILE: scn3_SP_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

CHNL# 244: [ETRM 3187[CECST 13.200]2]
1.1159 0.76730
CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1130 0.72830
CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1130 0.72830
CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1130 0.73310
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.1851 0.59710

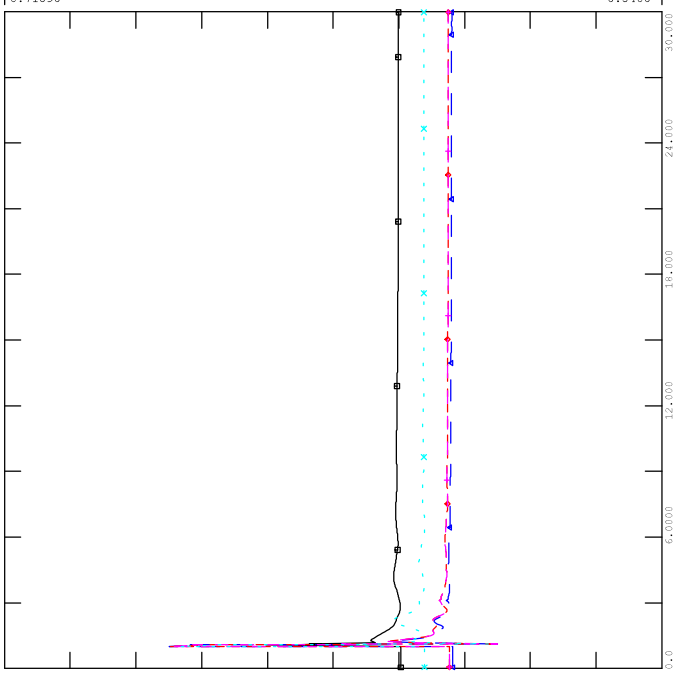


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

FILE: scn3_SP_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 148: [VARS 3187[CECST 13.200]2]
1.3696 -0.5264
CHNL# 147: [VARS 775[SECCT2 21.000]3]
2.5052 -1.335
CHNL# 146: [VARS 774[SECCT1 21.000]2]
2.5052 -1.335
CHNL# 145: [VARS 773[SECST 20.000]1]
3.1106 -1.548
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1]
0.71890 -0.5400

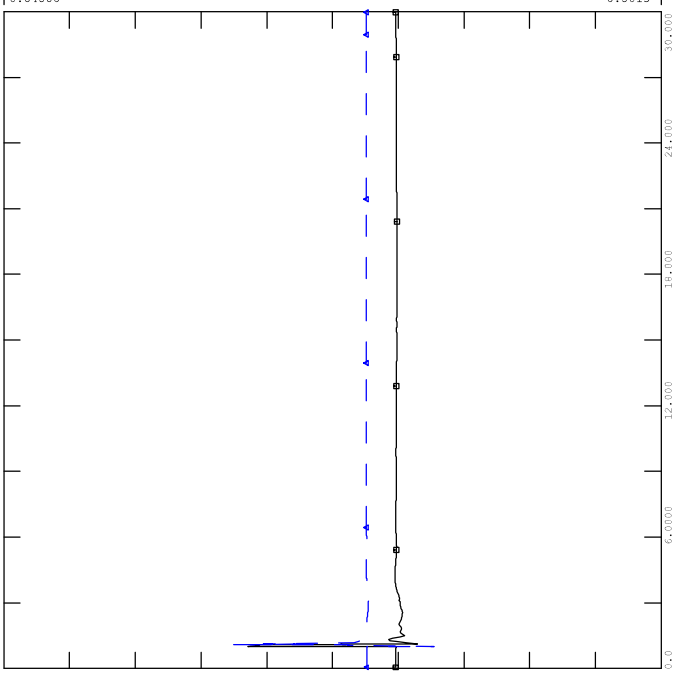


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

FILE: scn3_SP_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1]
1.0210 -0.4264
CHNL# 156: [VARS 3247[CAVAL A 13.800]1]
0.84580 -0.5013



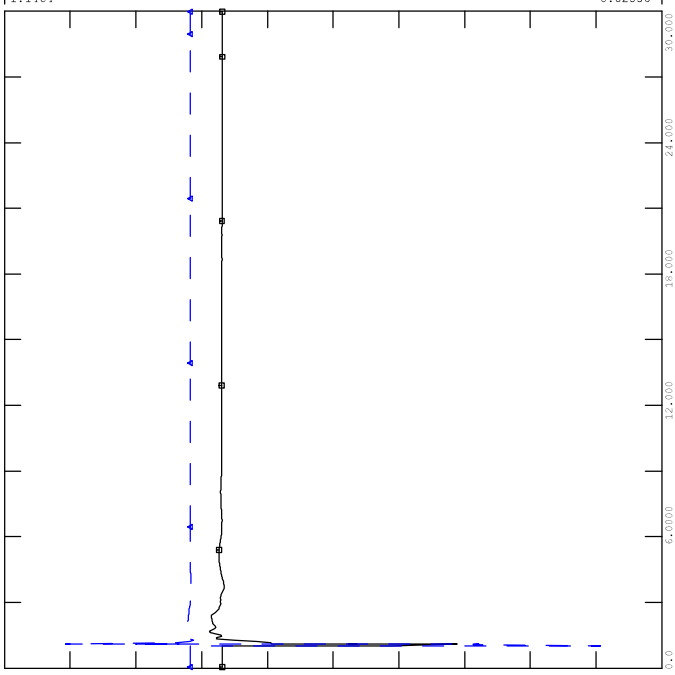
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

FILE: scn3_SP_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3029 0.23090

CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1464 0.82550



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

FILE: scn3_SP_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 333: [1107L P]
-27.88 -574.6

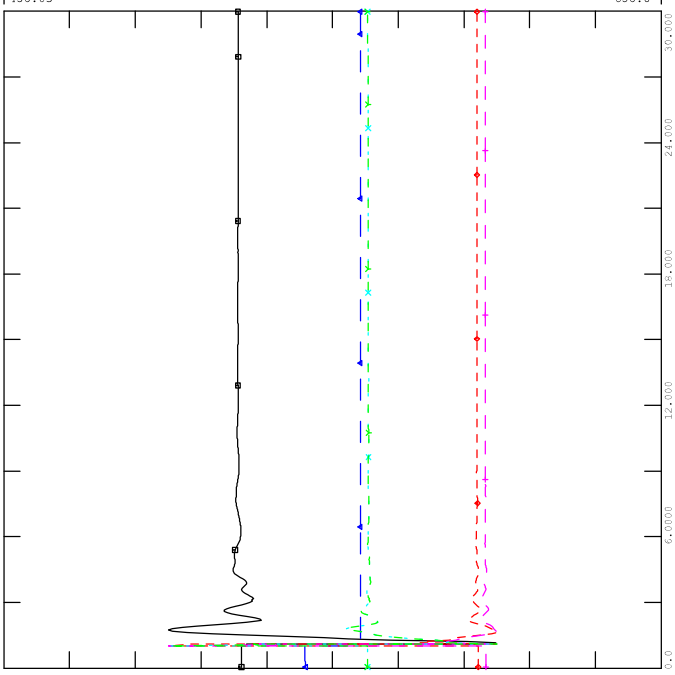
CHNL# 311: [1106L P]
-27.81 -574.7

CHNL# 323: [1005L P]
71.427 -509.1

CHNL# 335: [1036L P]
3.5722 -425.1

CHNL# 327: [935L P]
47.351 -40.00

CHNL# 315: [923L P]
450.03 -650.8



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

FILE: scn3_SP_A1_12_935L_Cassils.out

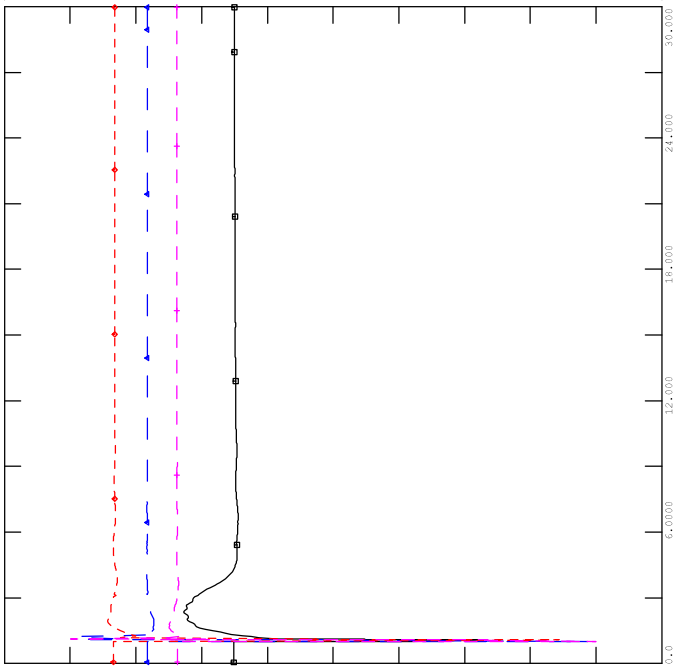
SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2610 0.26730

CHNL# 280: [ETRM 61736[BSR_4 0.6900]1]
1.1305 0.49390

CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2979 0.38570

CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1579 0.79150



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

FILE: scn3_SP_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:15 BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1785 0.35340

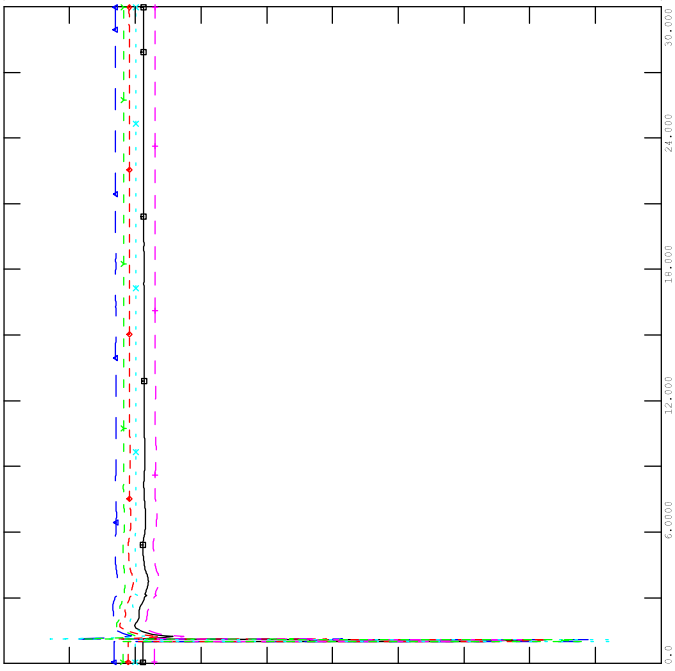
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3250 -0.0876

CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1650 0.69440

CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1583 0.57840

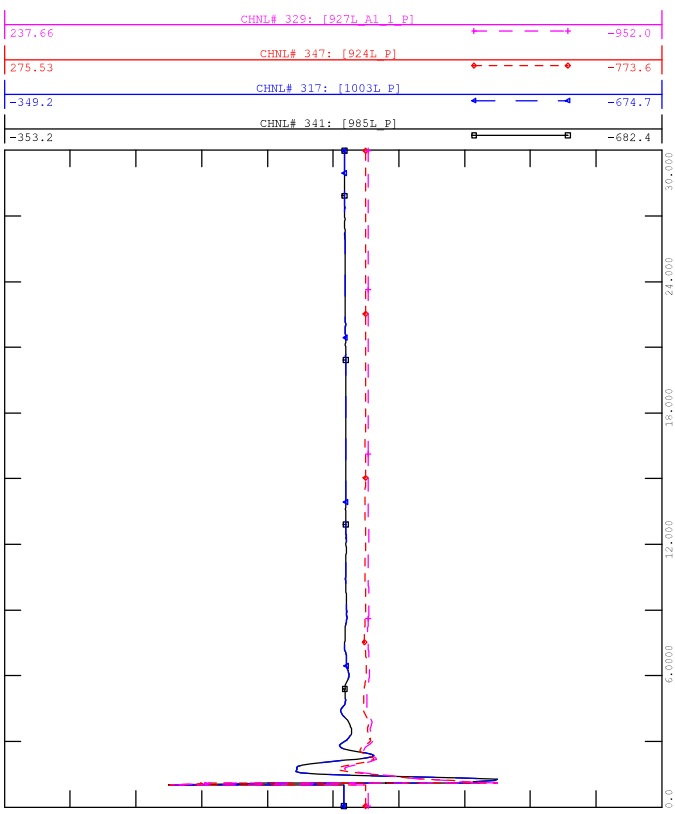
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2057 0.22500

CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1602 0.65880



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

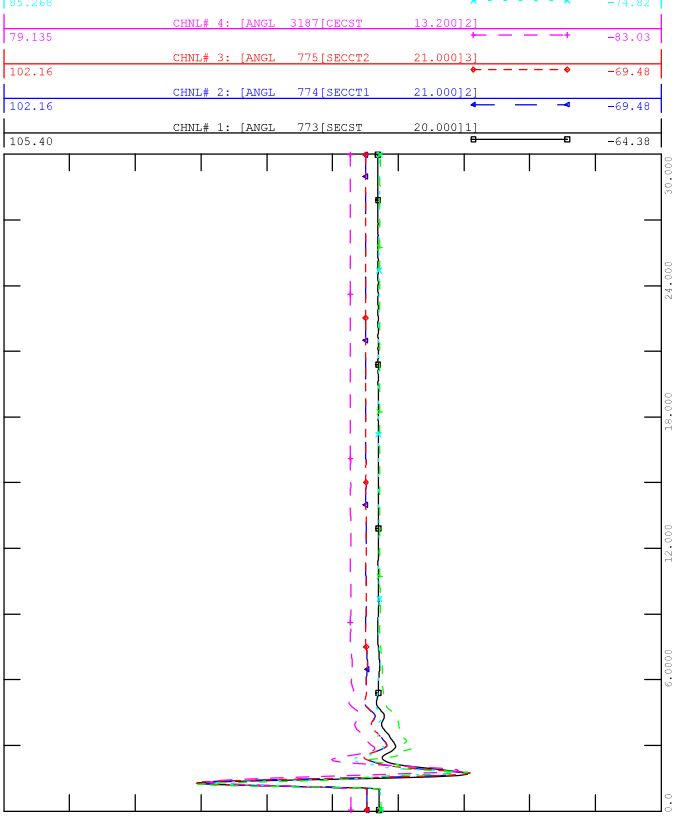
FILE: scn3_SP_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

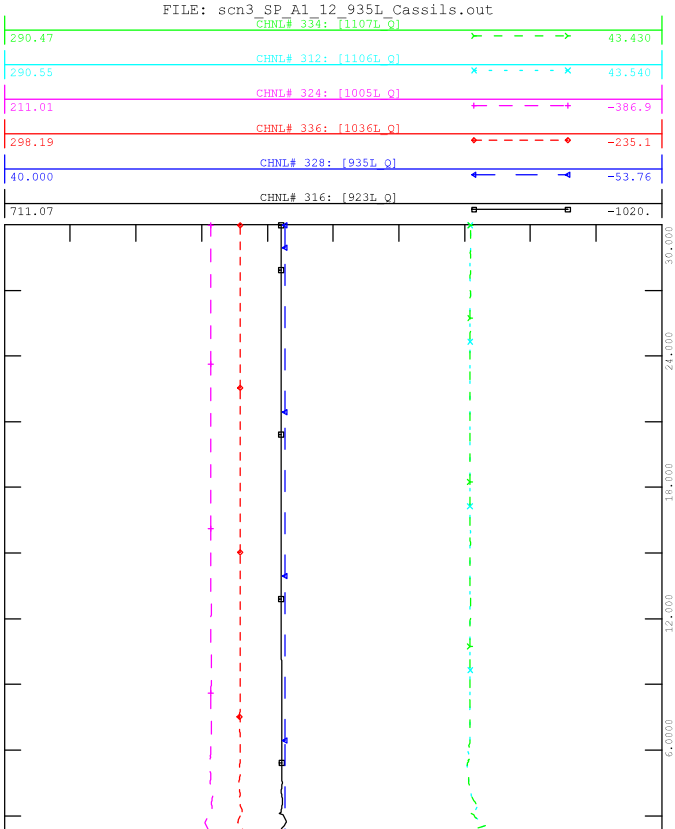
FILE: scn3_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

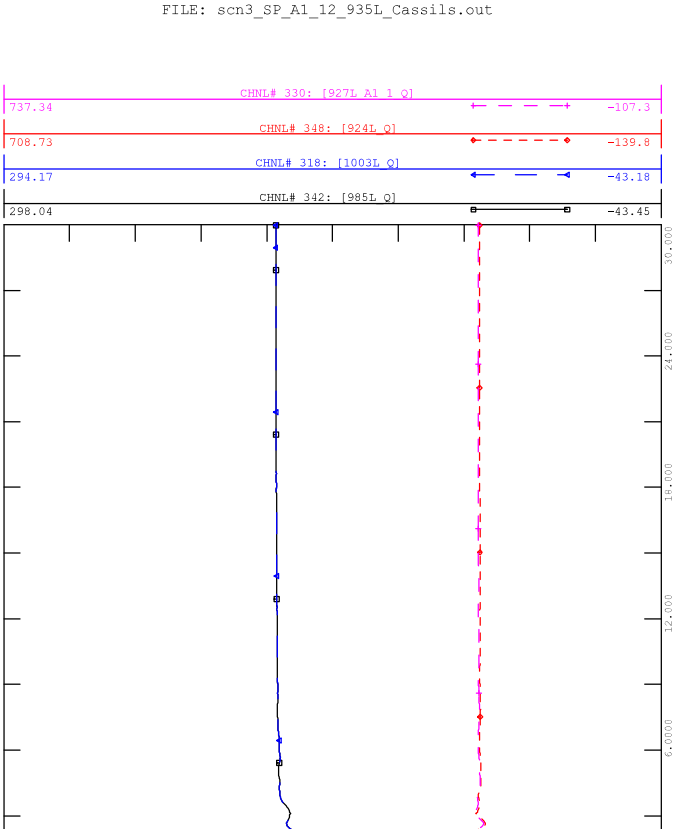
FILE: scn3_SP_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_12_935L_CASSILS

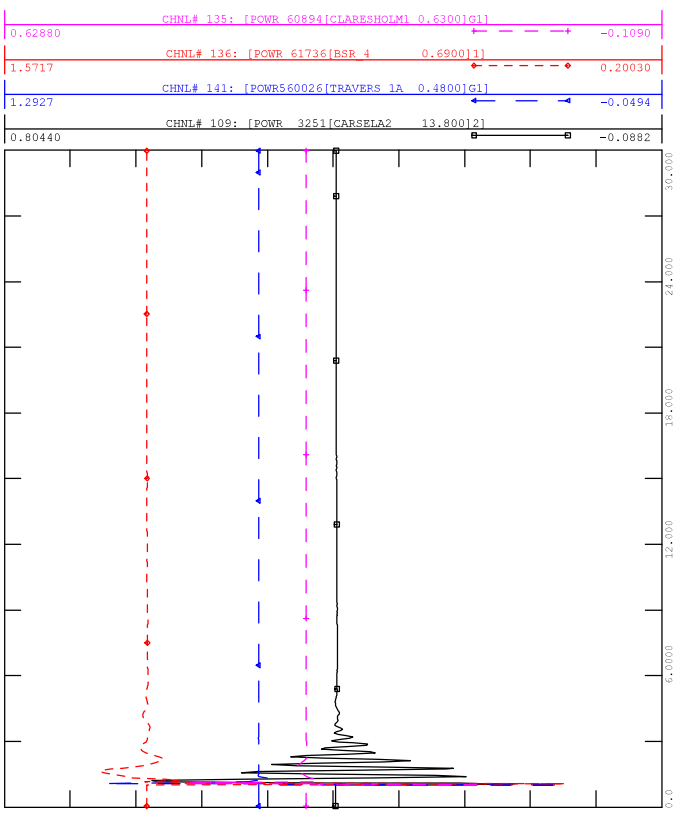
FILE: scn3_SP_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

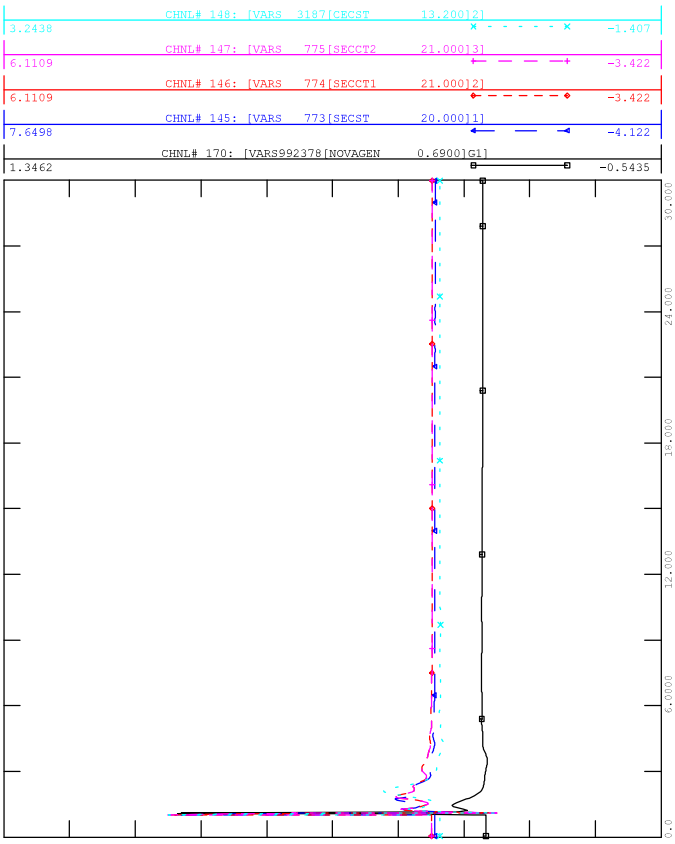
FILE: scn3_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

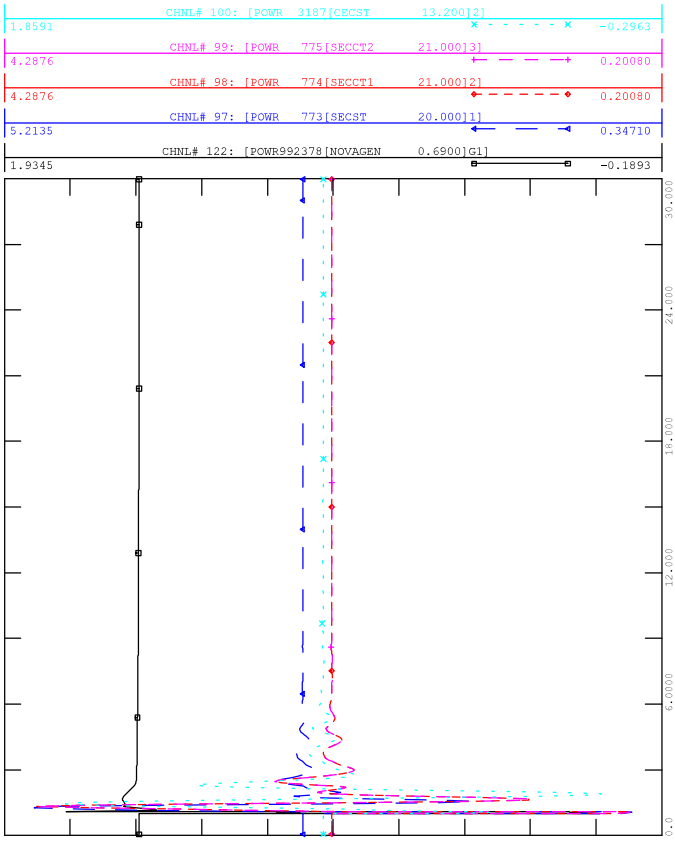
FILE: scn3_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:15
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

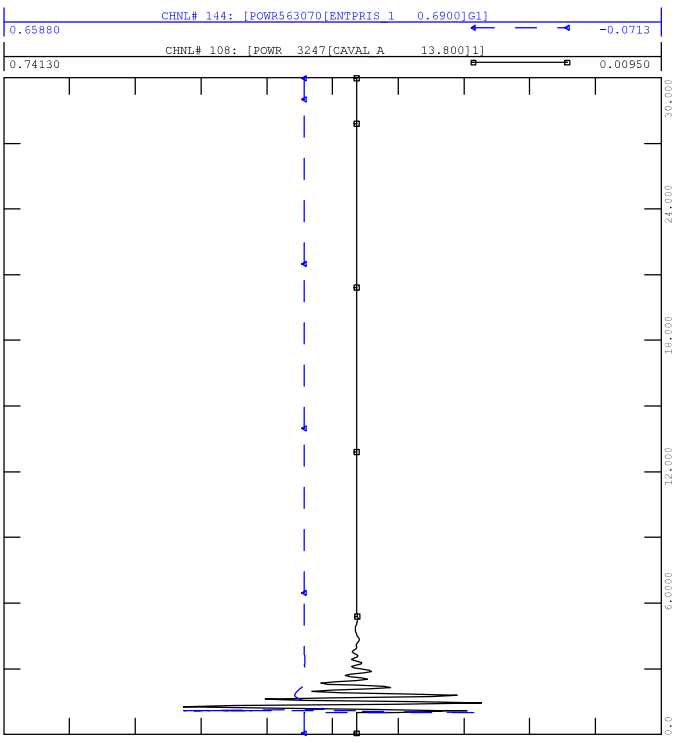
FILE: scn3_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

FILE: scn3_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

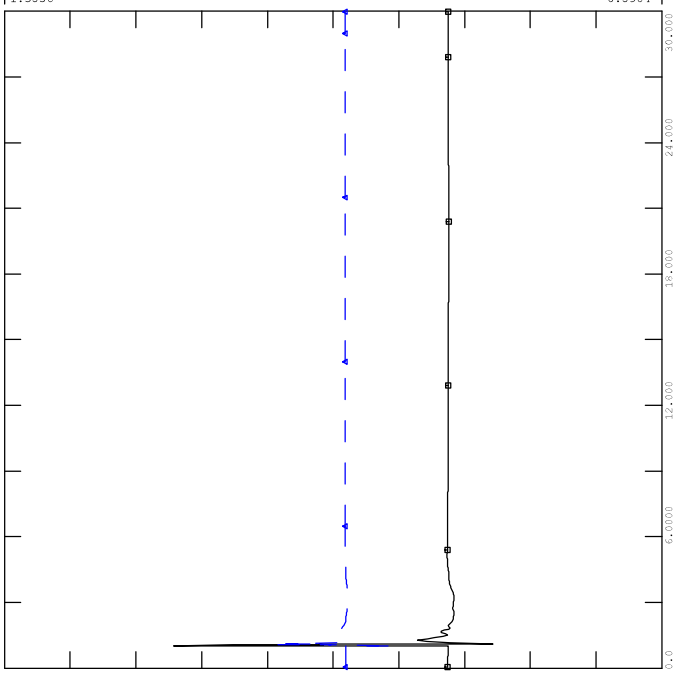
FILE: scn3_SP_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1]
0.85770 -0.3675

CHNL# 156: [VARS 3247[CAVAL A 13.800]1]
1.3536 -0.5904



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

FILE: scn3_SP_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:15

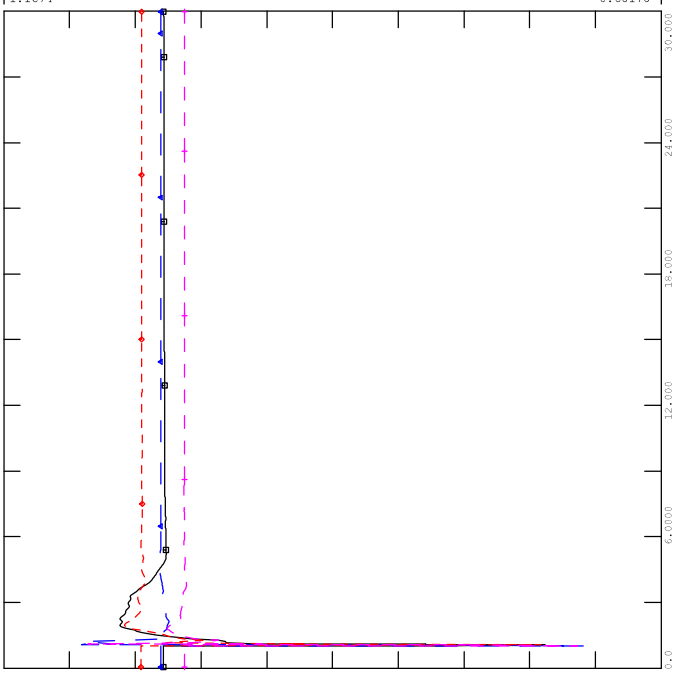
TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2153 0.43150

CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1389 0.59370

CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3023 0.45440

CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1674 0.60170



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

FILE: scn3_SP_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:15

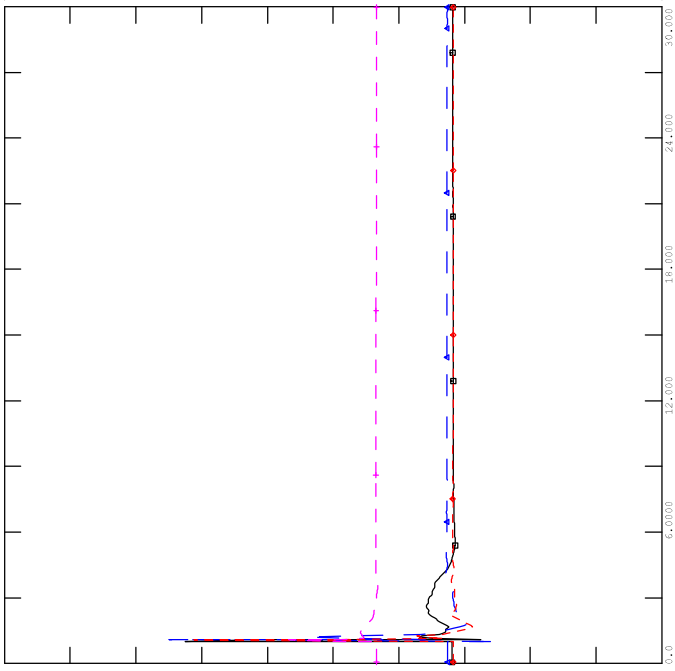
REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.52580 -0.6308

CHNL# 184: [VARS 61736[BSR 4 0.6900]1]
1.1479 -0.5864

CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1]
2.3387 -0.4896

CHNL# 157: [VARS 3251[CARSELA2 13.800]2]
1.2894 -0.5275



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

FILE: scn3_SP_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

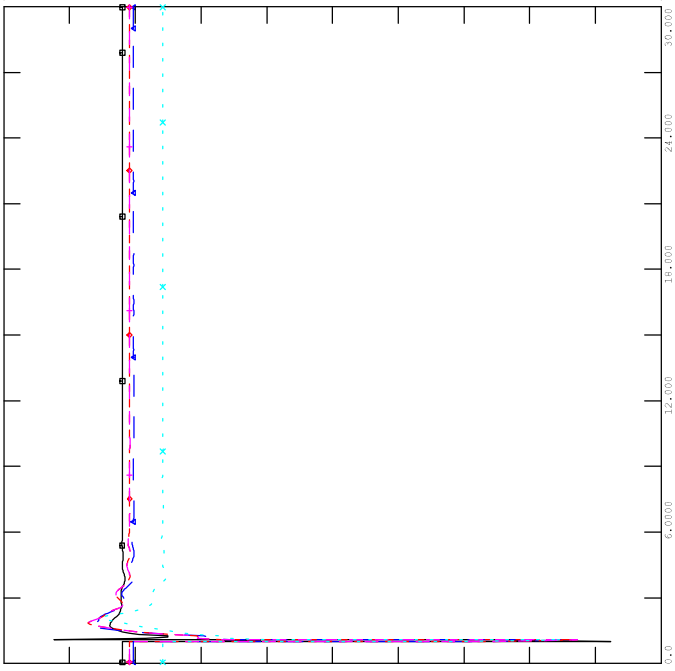
CHNL# 244: [ETRM 3187[CECST 13.200]2]
1.1626 0.48990

CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1497 0.36680

CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1497 0.36680

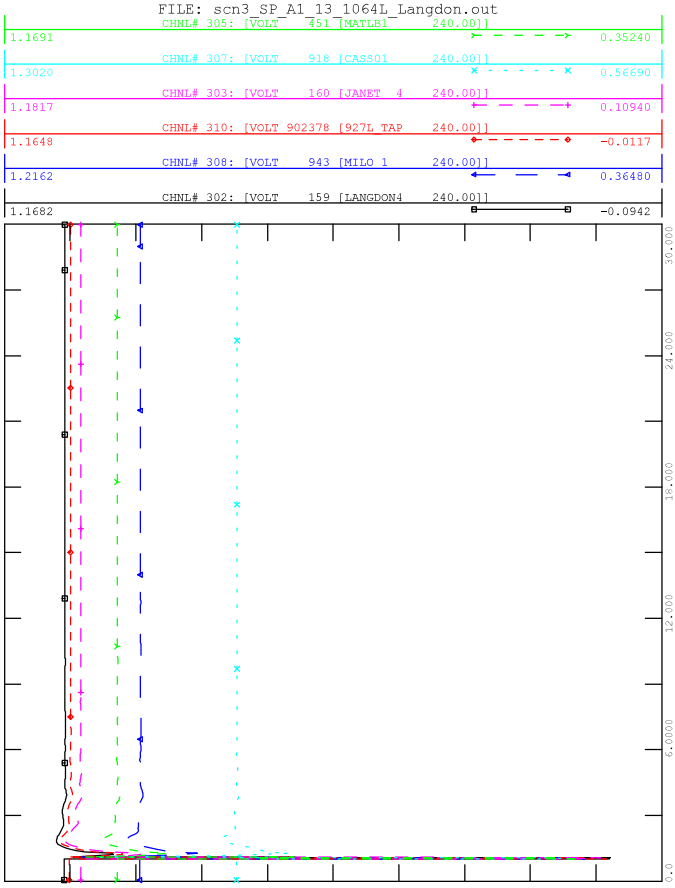
CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1517 0.38320

CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.2850 -0.0180



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

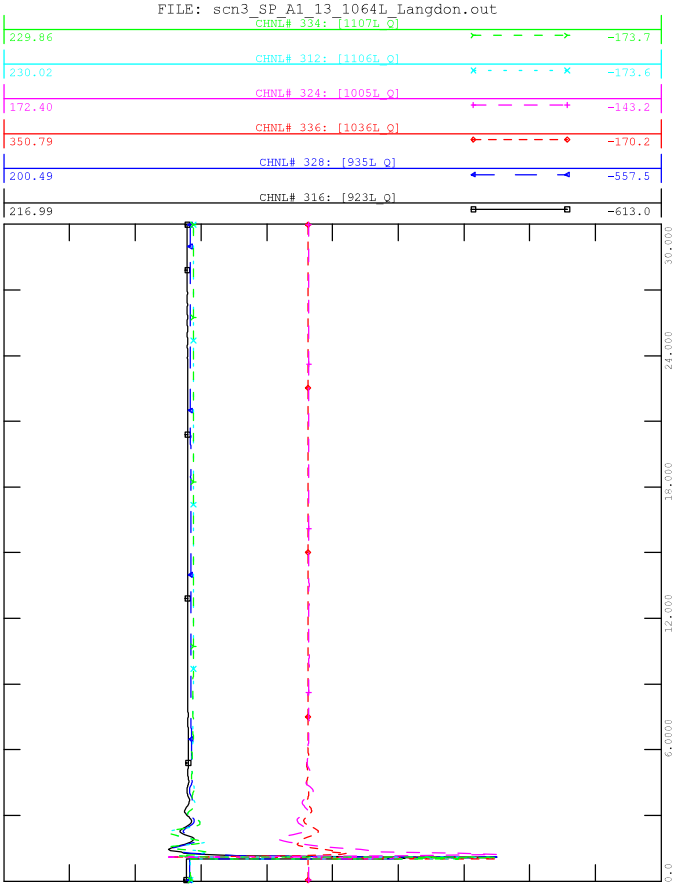
FILE: scn3_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:15
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

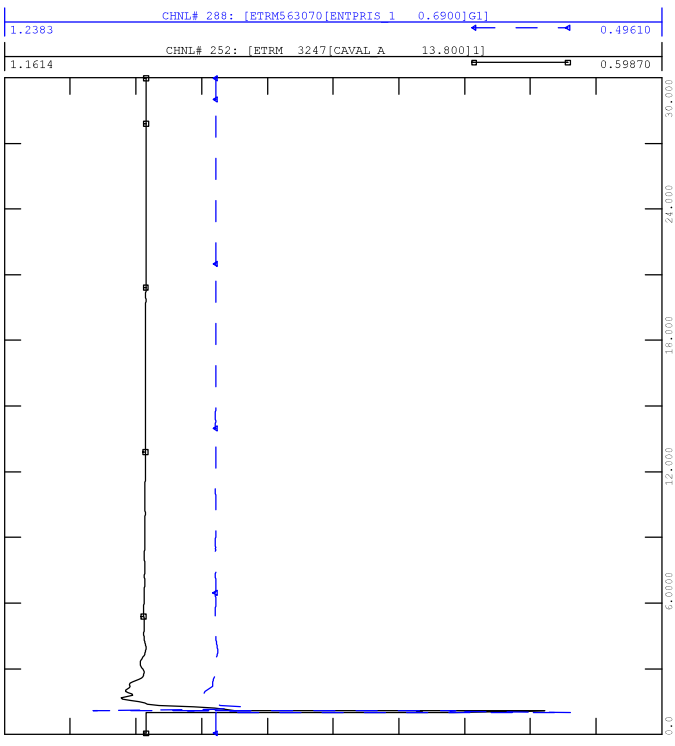
FILE: scn3_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

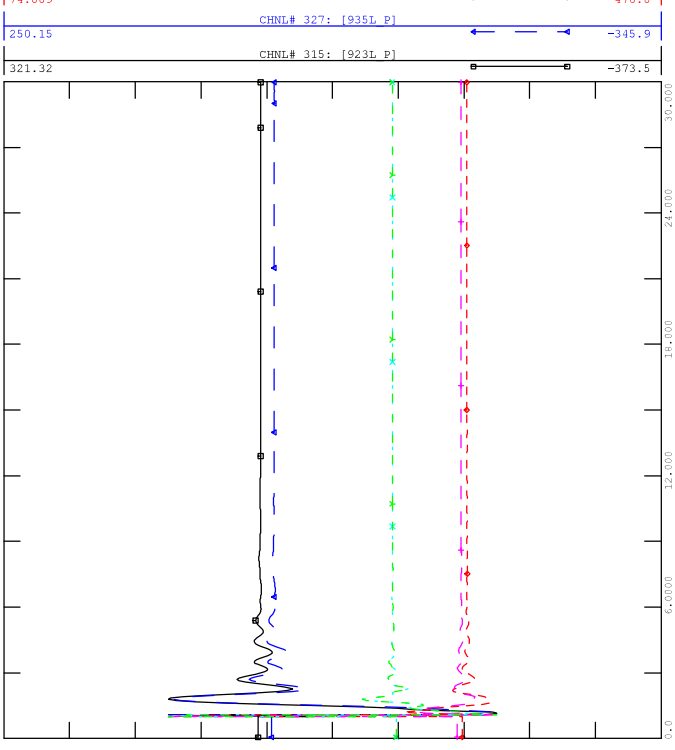
FILE: scn3_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

FILE: scn3_SP_A1_13_1064L_Langdon.out



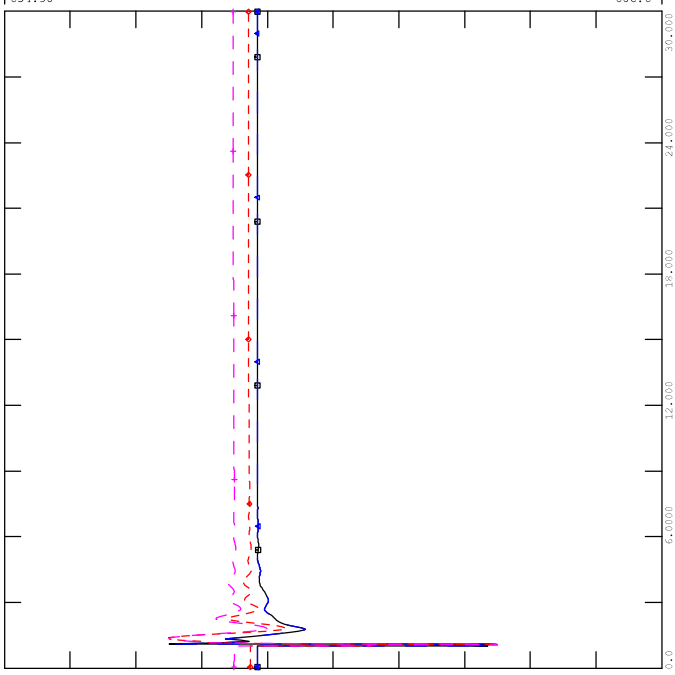
SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

FILE: scn3_SP_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:15 BRANCH Q

CHNL# 330: [927L A1 1 Q] 342.94 -279.5
CHNL# 348: [924L Q] 282.59 -227.2
CHNL# 318: [1003L Q] 627.17 -599.7
CHNL# 342: [985L Q] 634.98 -606.6

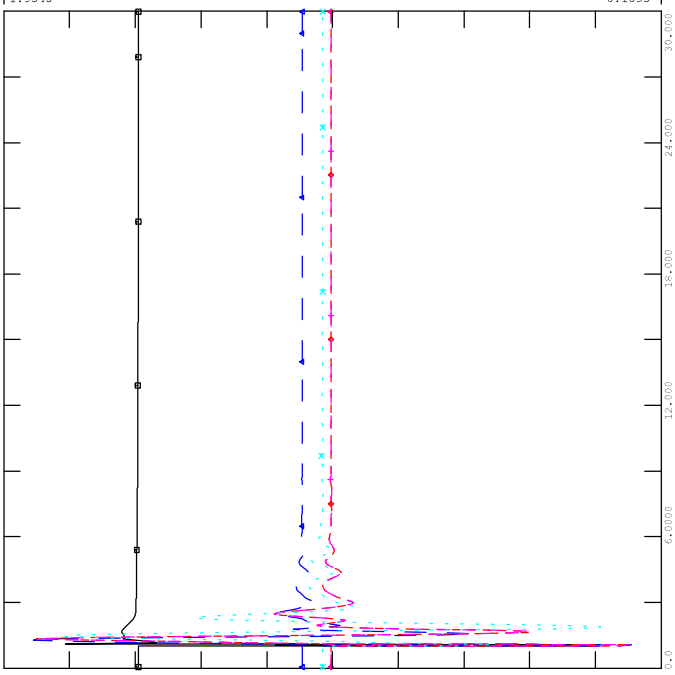


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2] 1.8591 -0.2963
CHNL# 99: [POWR 775[SECCT2 21.000]3] 4.2876 0.20080
CHNL# 98: [POWR 774[SECCT1 21.000]2] 4.2876 0.20080
CHNL# 97: [POWR 773[SECST 20.000]1] 5.2135 0.34710
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1] 1.9345 -0.1893

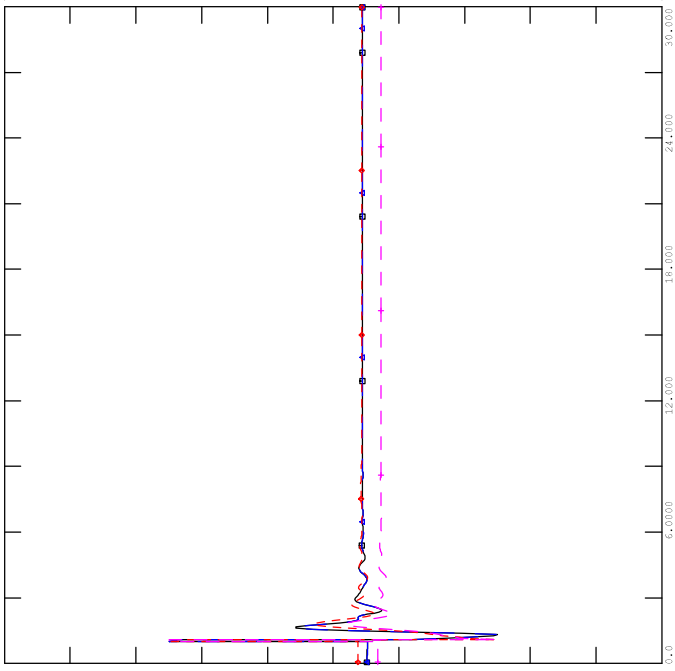


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_13_1064L_LANGDON

FILE: scn3_SP_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 329: [927L A1 1 P] 326.20 -988.5
CHNL# 347: [924L P] 256.26 -778.6
CHNL# 317: [1003L P] 239.93 -1132.
CHNL# 341: [985L P] 242.44 -1145.

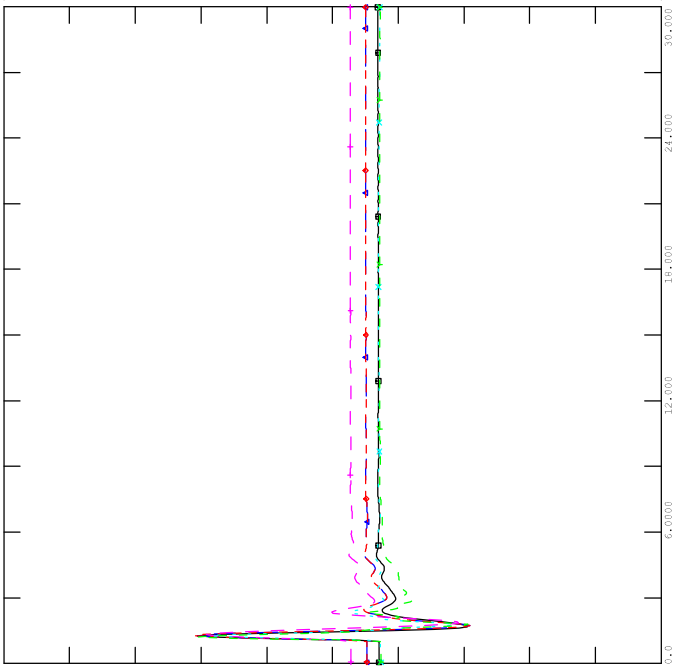


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:15 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2] 96.902 -73.15
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 85.268 -74.82
CHNL# 4: [ANGL 3187[CECST 13.200]2] 79.135 -83.03
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 102.16 -69.48
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 102.16 -69.48
CHNL# 1: [ANGL 773[SECST 20.000]1] 105.40 -64.38

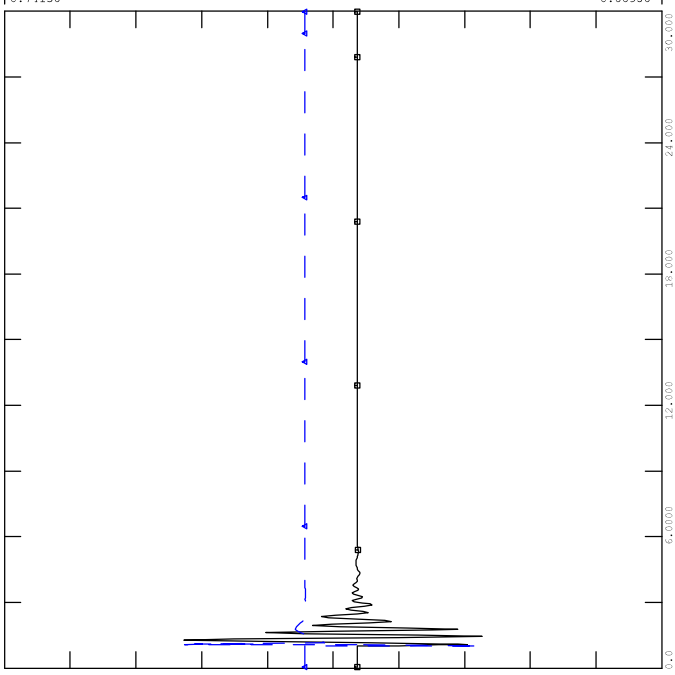


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 144: [POWR563070[ENTPRIS 1 0.6900]G1] 0.65880 -0.0713
CHNL# 108: [POWR 3247[CAVAL A 13.800]1] 0.74130 0.00950

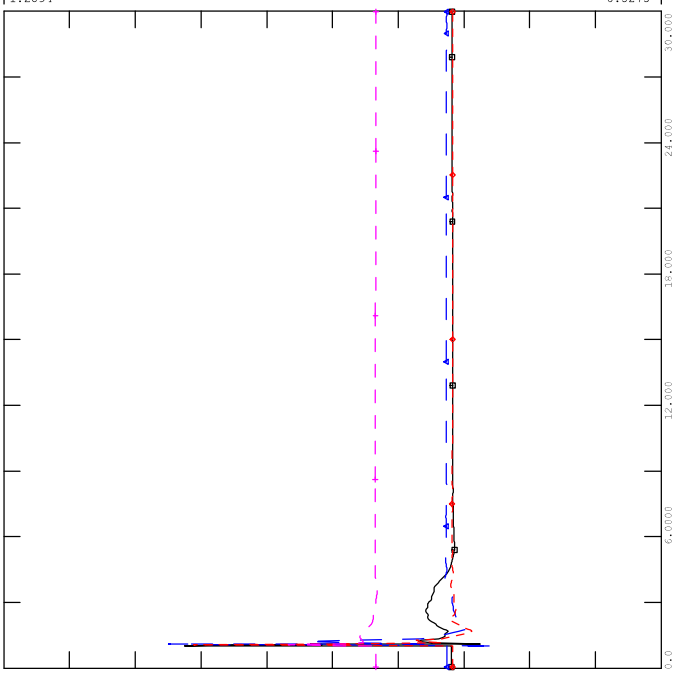


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.52580 -0.6308
CHNL# 184: [VARS 61736[BSR 4 0.6900]1] 1.1479 -0.5864
CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1] 2.3387 -0.4896
CHNL# 157: [VARS 3251[CARSELA2 13.800]2] 1.2894 -0.5275

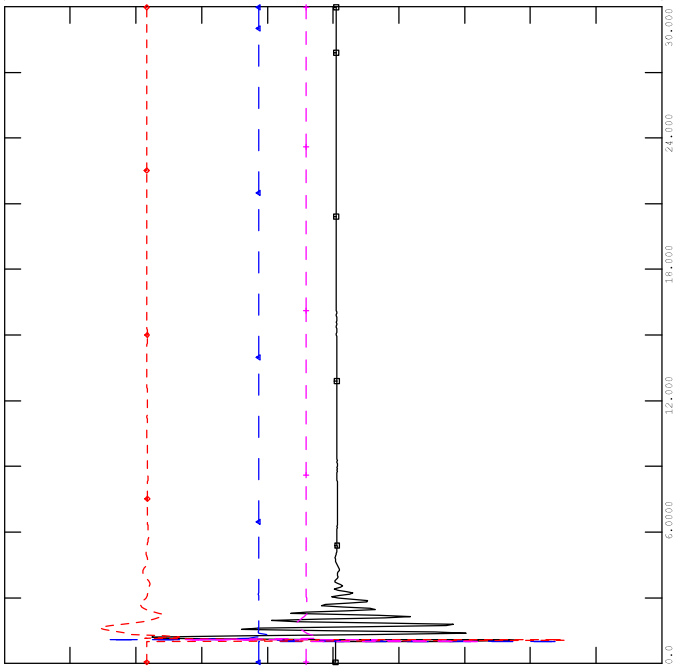


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.62880 -0.1090
CHNL# 136: [POWR 61736[BSR 4 0.6900]1] 1.5717 0.20030
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1] 1.2927 -0.0494
CHNL# 109: [POWR 3251[CARSELA2 13.800]2] 0.80440 -0.0882

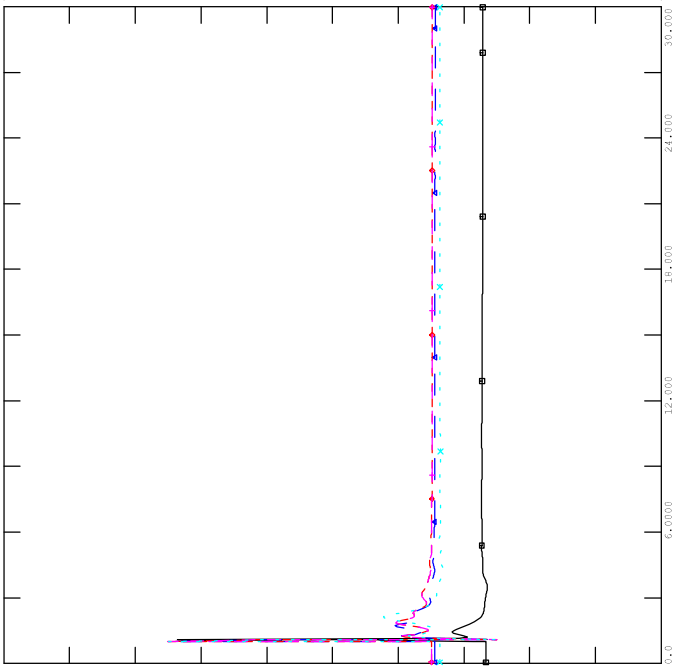


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

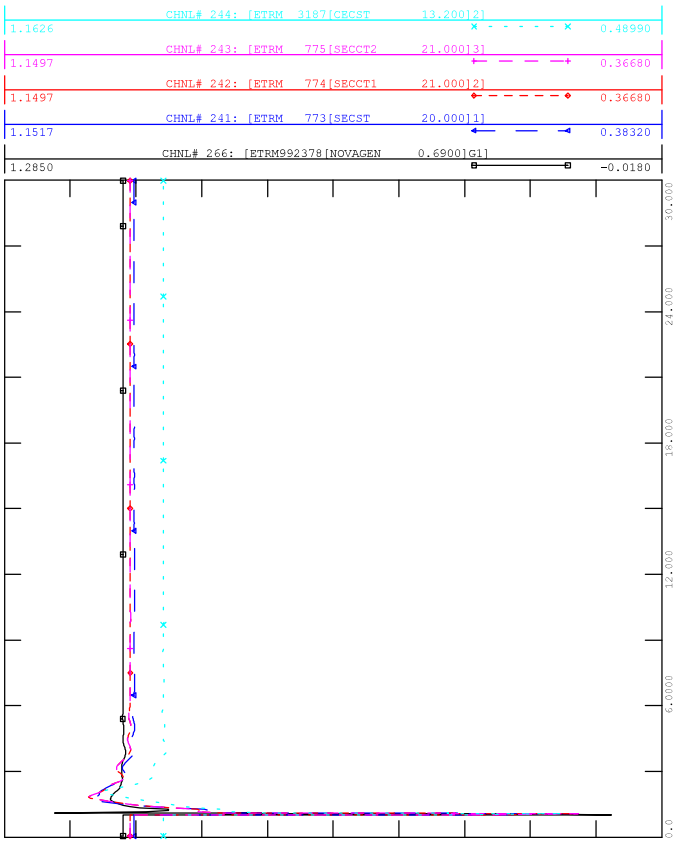
CHNL# 148: [VARS 3187[CECST 13.200]2] 3.2438 -1.407
CHNL# 147: [VARS 775[SECCT2 21.000]3] 6.1109 -3.421
CHNL# 146: [VARS 774[SECCT1 21.000]2] 6.1109 -3.421
CHNL# 145: [VARS 773[SECST 20.000]1] 7.6498 -4.122
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1] 1.3462 -0.5435



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

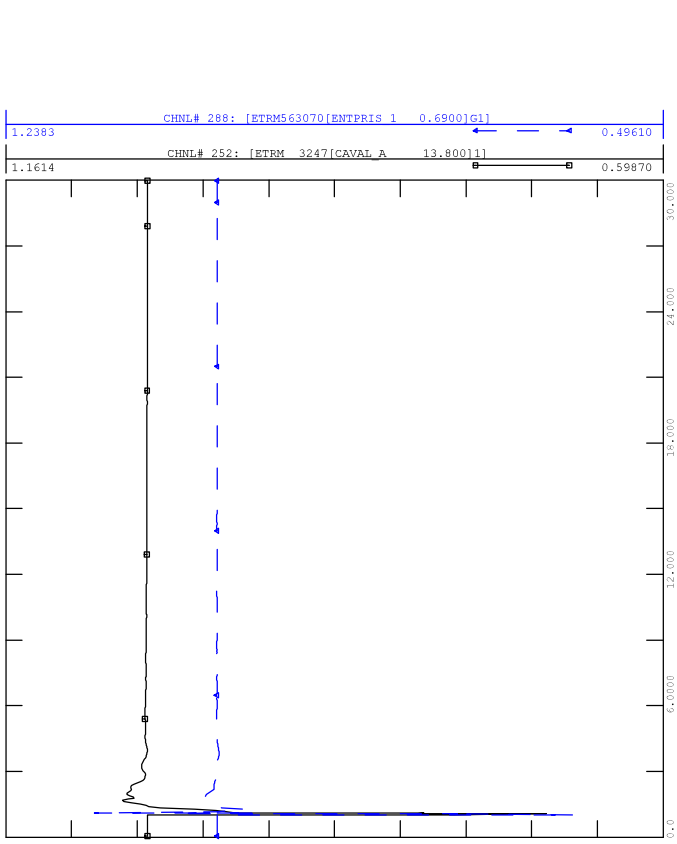
SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

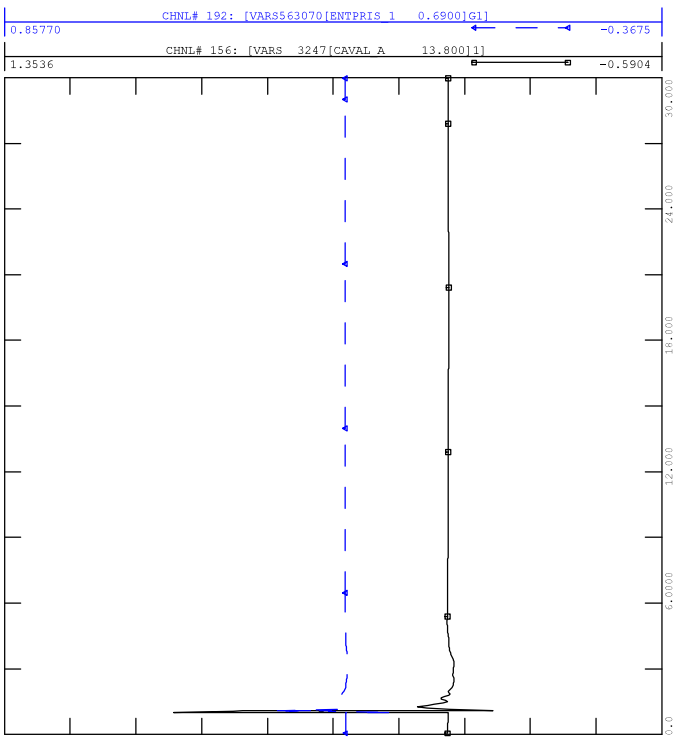
SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

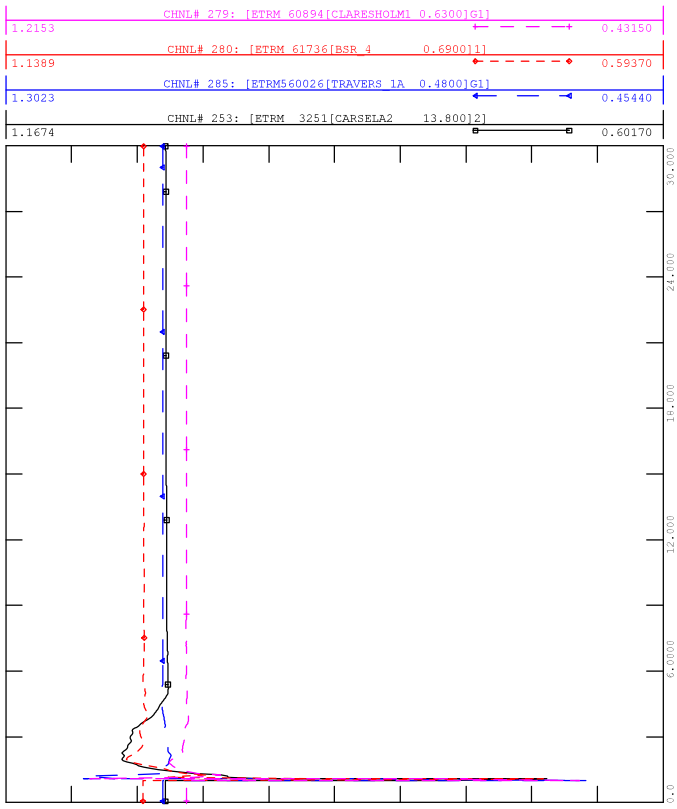
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

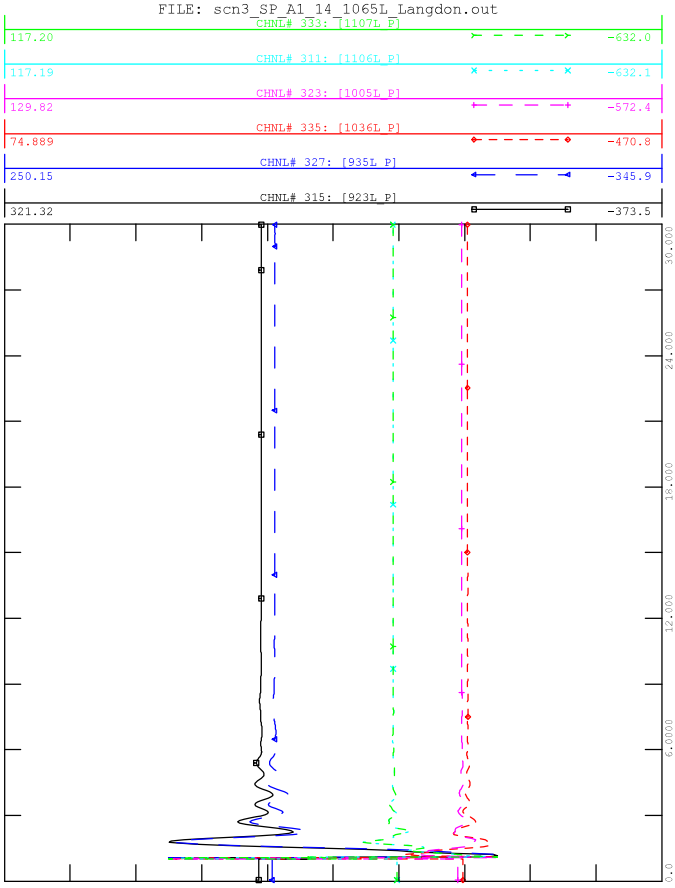
FILE: scn3_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

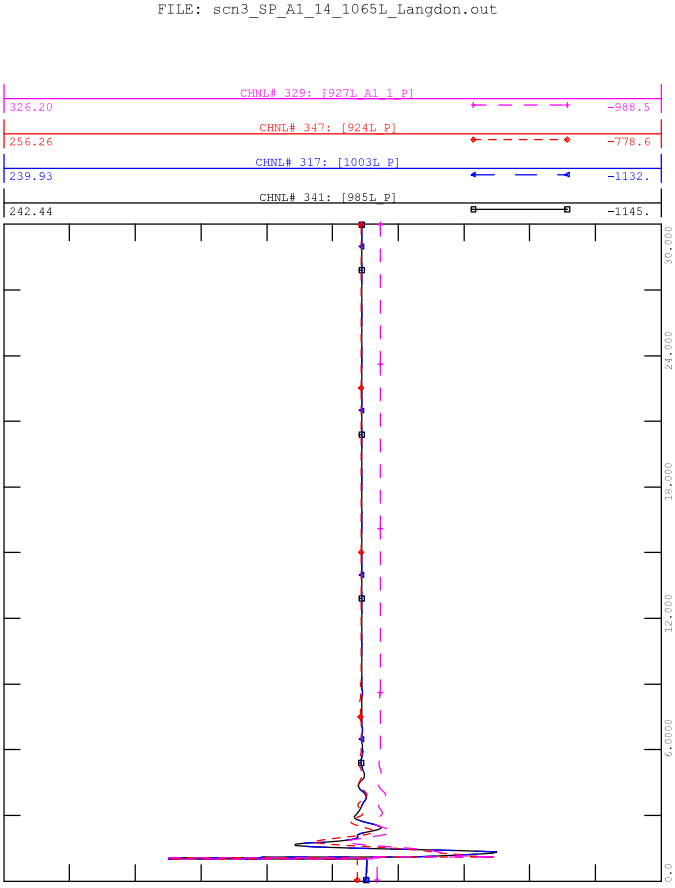
FILE: scn3_SP_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:15 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

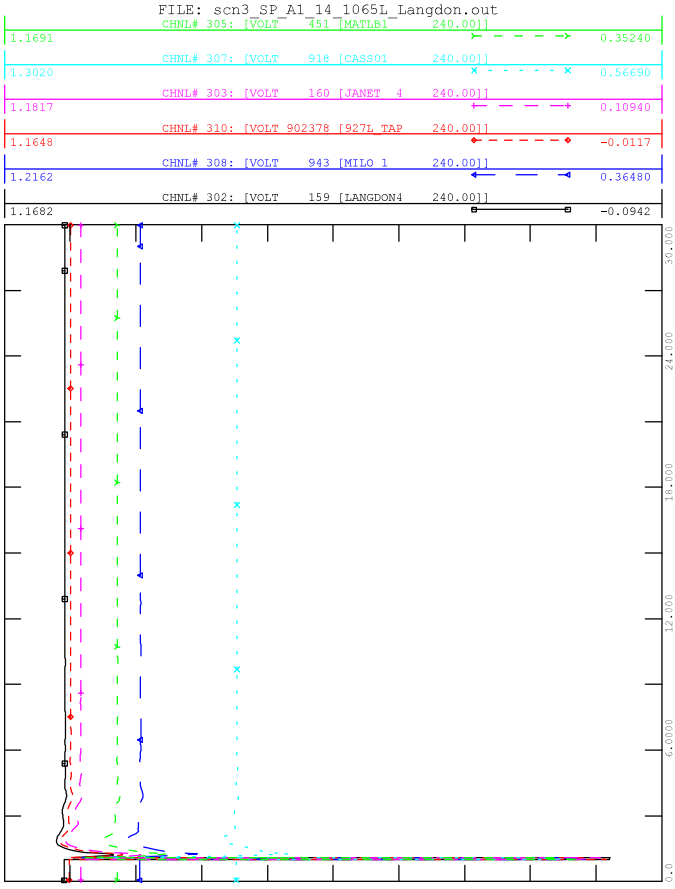
FILE: scn3_SP_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:15 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

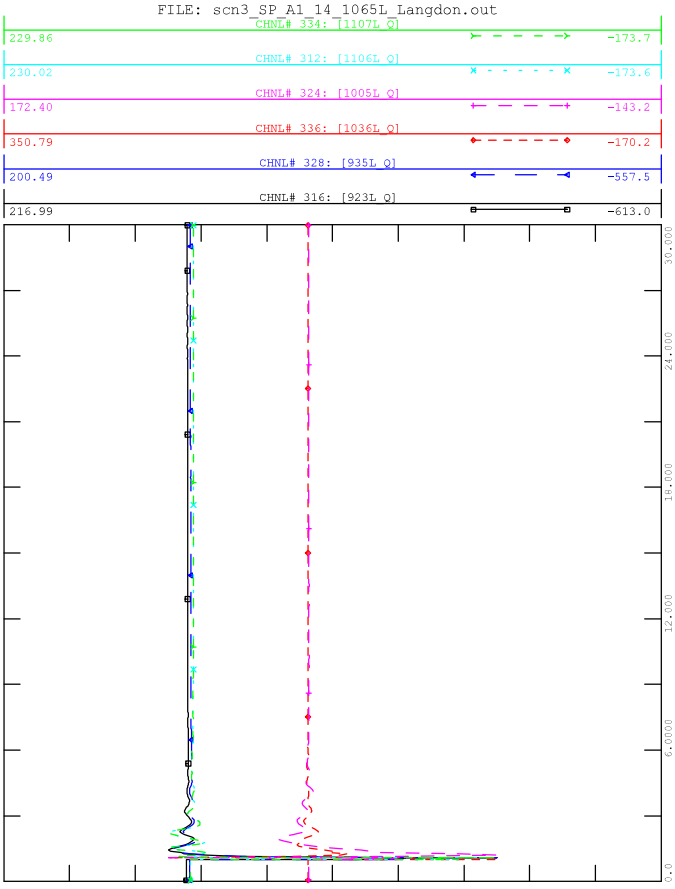
FILE: scn3_SP_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:15 BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

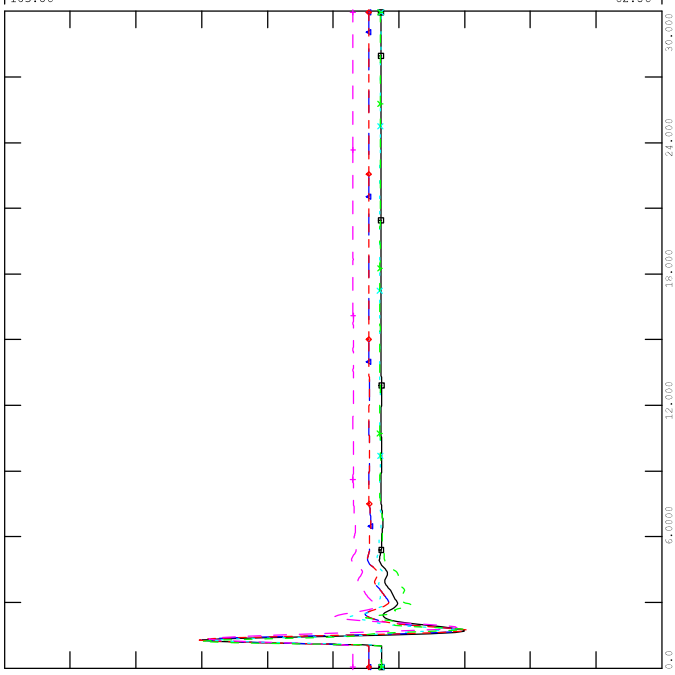


SAT, MAY 21 2022 1:15 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

FILE: scn3_SP_A1_15_936L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
95.504 -72.17
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
84.210 -74.01
CHNL# 4: [ANGL 3187[CECST 13.200]2]
78.532 -82.07
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
101.01 -67.85
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
101.01 -67.85
CHNL# 1: [ANGL 773[SECST 20.000]1]
103.86 -62.56

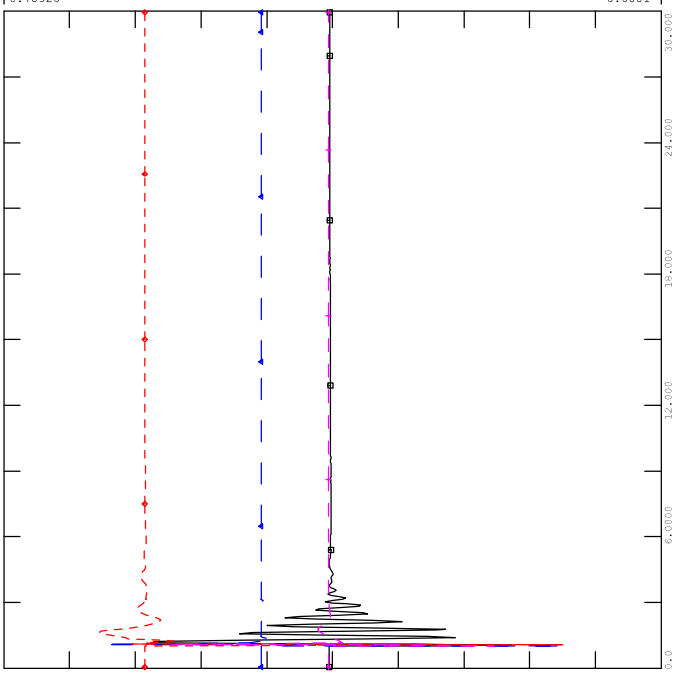


SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

FILE: scn3_SP_A1_15_936L_Langdon.out

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.67880 -0.1082
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.5708 0.19050
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3027 -0.0482
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.78920 -0.0881

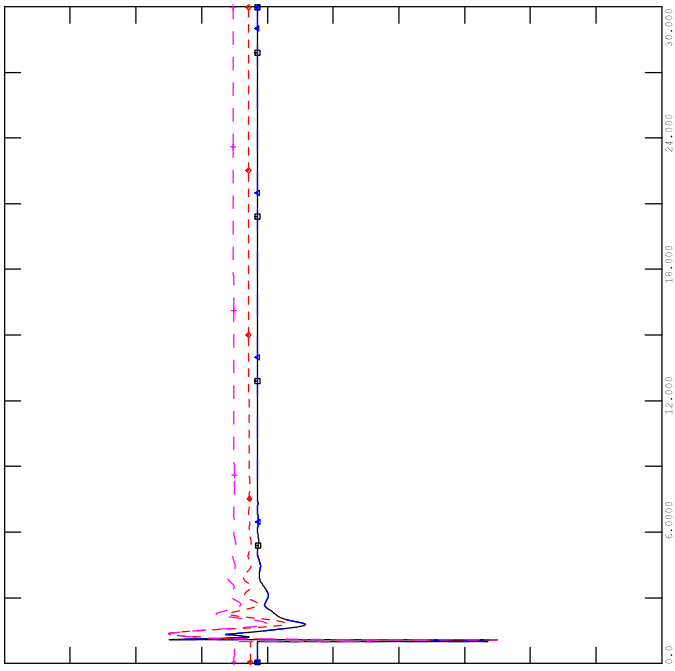


SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_14_1065L_LANGDON

FILE: scn3_SP_A1_14_1065L_Langdon.out

CHNL# 330: [927L A1 1 Q]
342.93 -279.5
CHNL# 348: [924L Q]
282.59 -227.3
CHNL# 318: [1003L Q]
627.17 -599.7
CHNL# 342: [985L Q]
634.97 -606.6

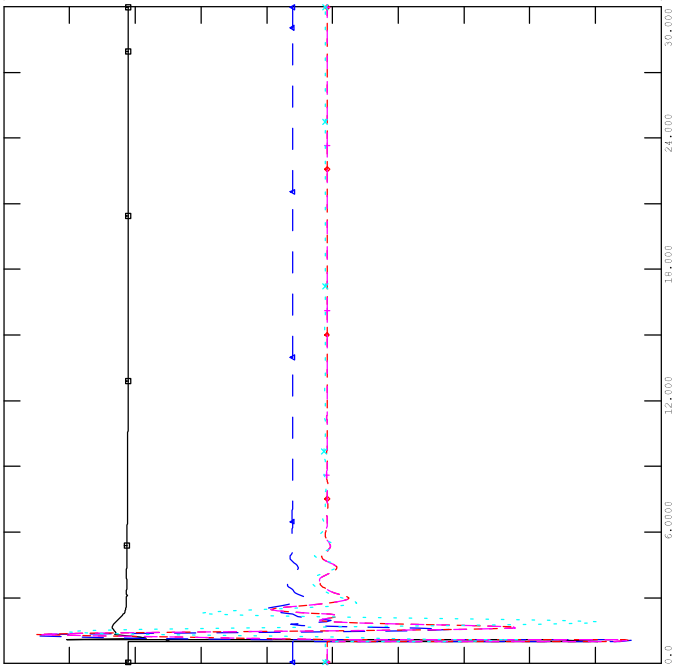


SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

FILE: scn3_SP_A1_15_936L_Langdon.out

CHNL# 100: [POWR 3187[CECST 13.200]2]
1.8279 -0.2468
CHNL# 99: [POWR 775[SECCT2 21.000]3]
4.2264 0.21390
CHNL# 98: [POWR 774[SECCT1 21.000]2]
4.2264 0.21390
CHNL# 97: [POWR 773[SECST 20.000]1]
5.0667 0.37380
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
1.8944 -0.1868



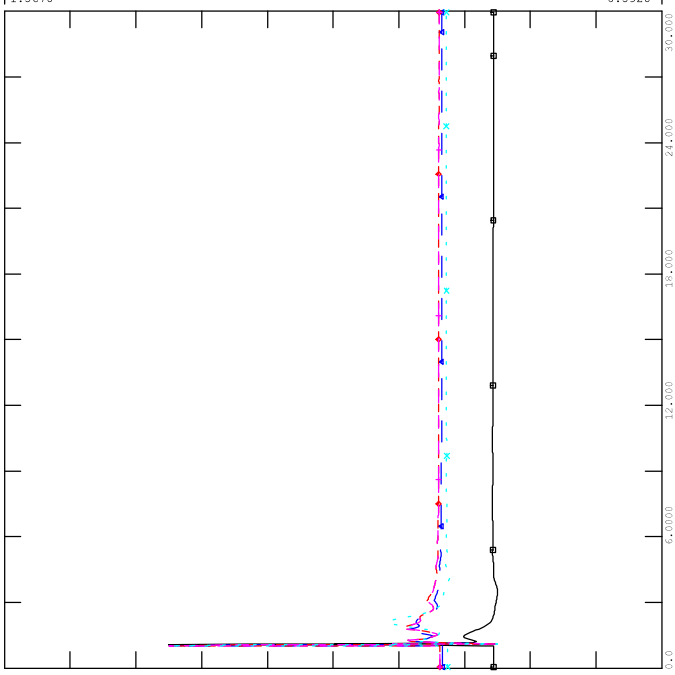
SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

FILE: scn3_SP_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 148: [VARS 3187[CECST 13.200]2]
3.1953 -1.309
CHNL# 147: [VARS 775[SECCT2 21.000]3]
6.0260 -3.215
CHNL# 146: [VARS 774[SECCT1 21.000]2]
6.0260 -3.215
CHNL# 145: [VARS 773[SECST 20.000]1]
7.5425 -3.872
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1]
1.5678 -0.5928

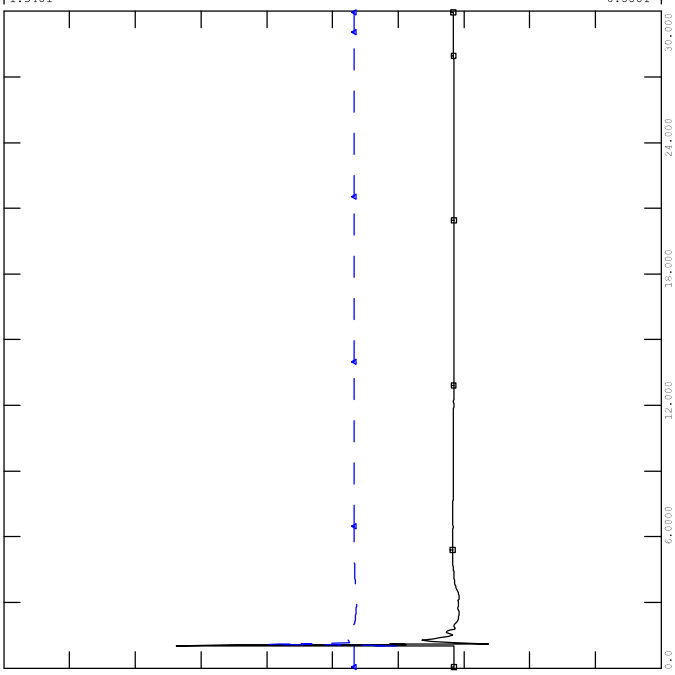


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

FILE: scn3_SP_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1]
0.89270 -0.3664
CHNL# 156: [VARS 3247[CAVAL A 13.800]1]
1.3481 -0.5581

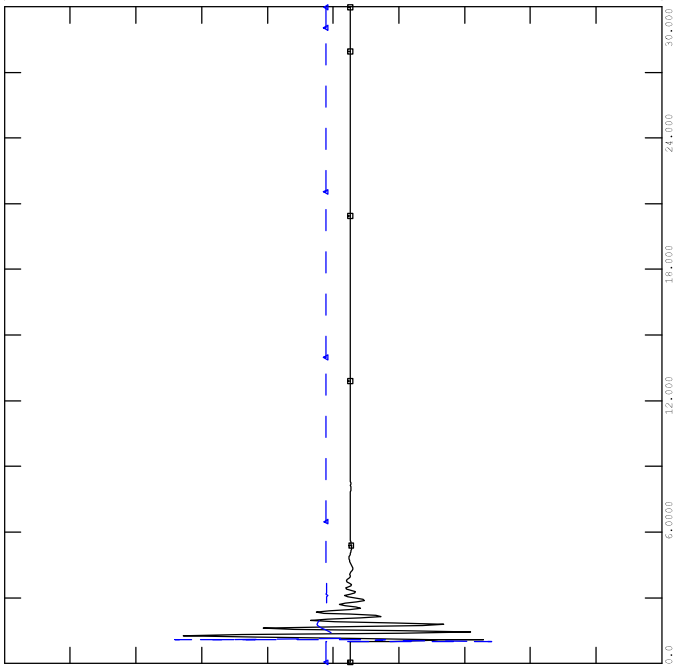


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

FILE: scn3_SP_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:15
ACTIVE POWER

CHNL# 144: [POWR563070[ENTPRIS 1 0.6900]G1]
0.70270 -0.0690
CHNL# 108: [POWR 3247[CAVAL A 13.800]1]
0.73580 -0.0001

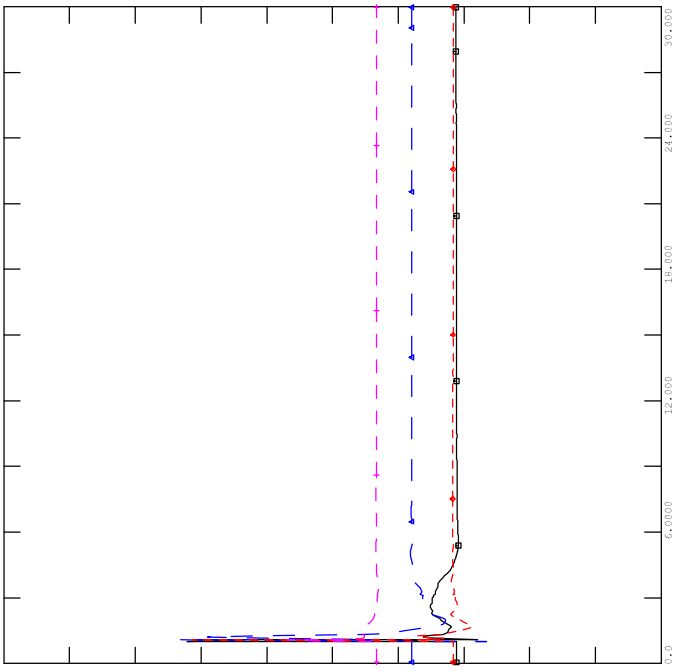


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

FILE: scn3_SP_A1_15_936L_Langdon.out

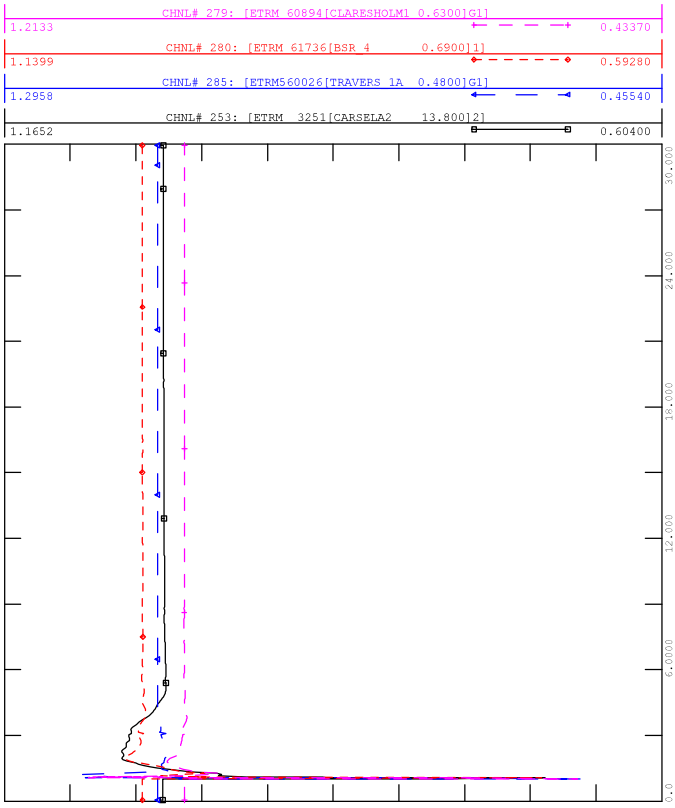
SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.53030 -0.6317
CHNL# 184: [VARS 61736[BSR 4 0.6900]1]
1.1501 -0.5870
CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1]
1.5987 -0.2821
CHNL# 157: [VARS 3251[CARSELA2 13.800]2]
1.2845 -0.5067



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

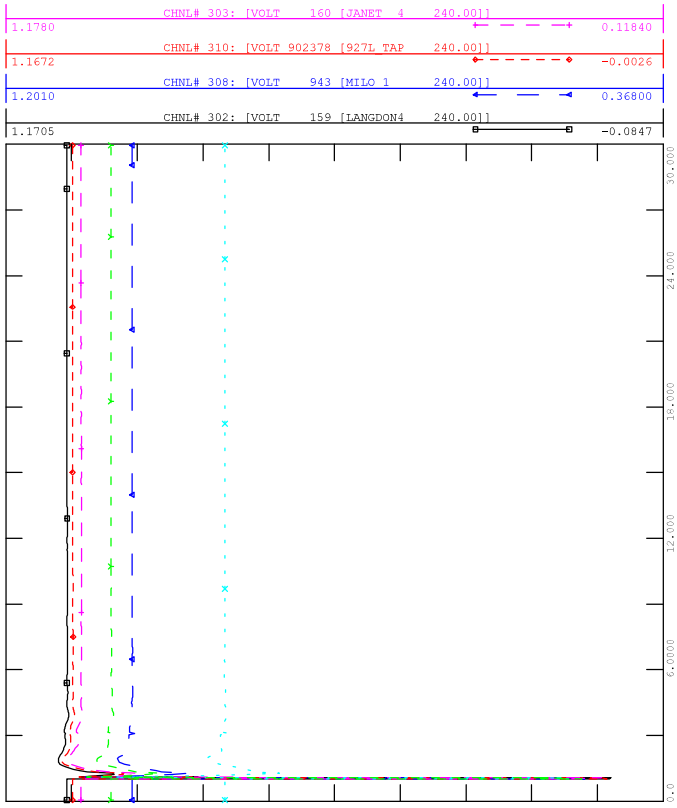
FILE: scn3_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

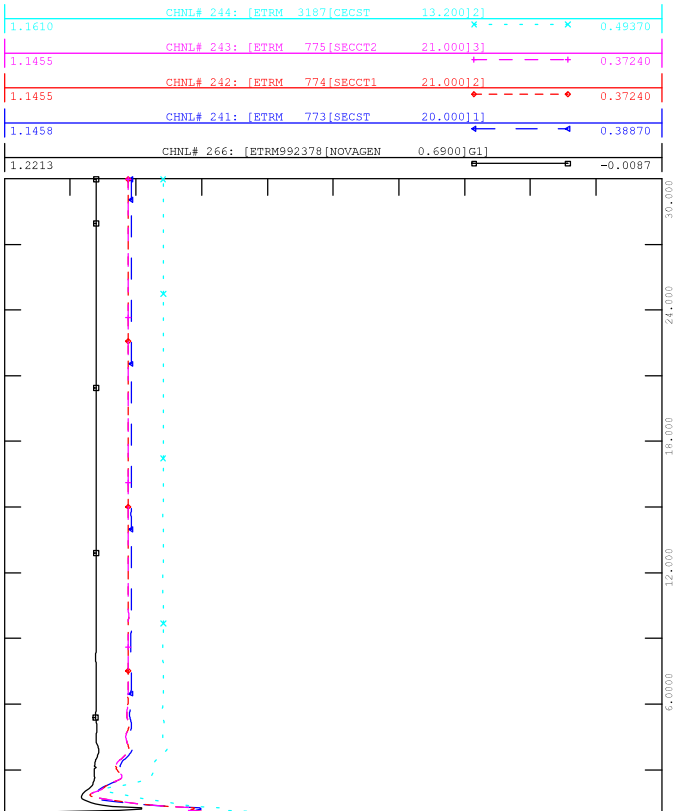
FILE: scn3_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:15
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

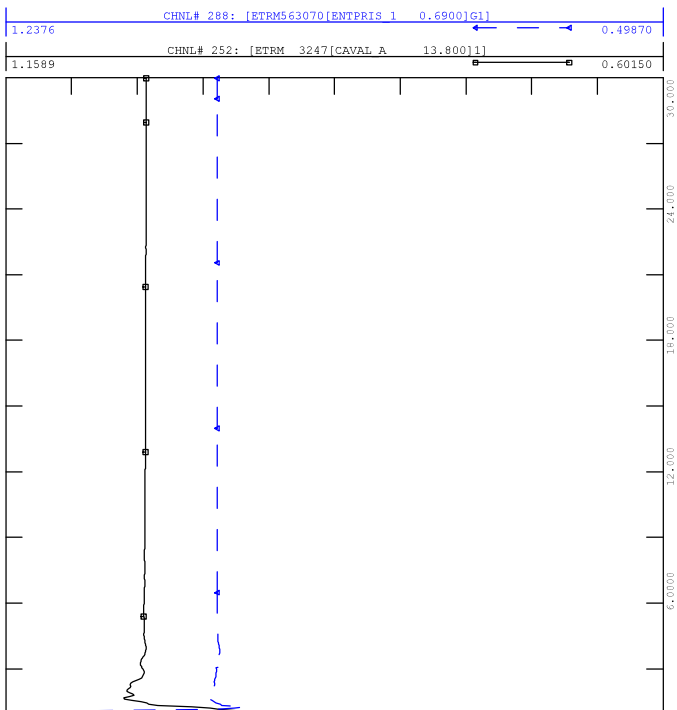
FILE: scn3_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

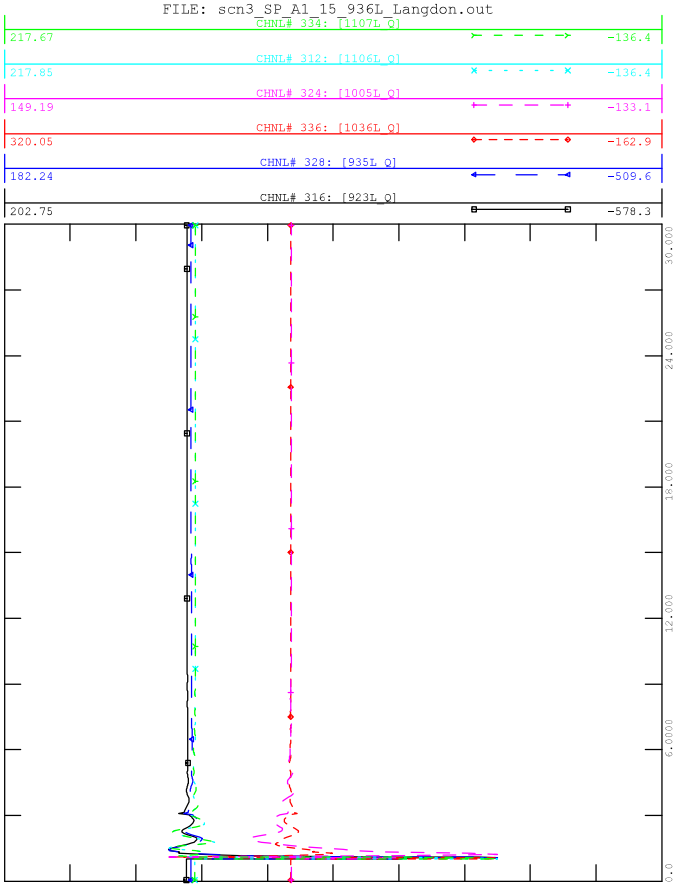
FILE: scn3_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

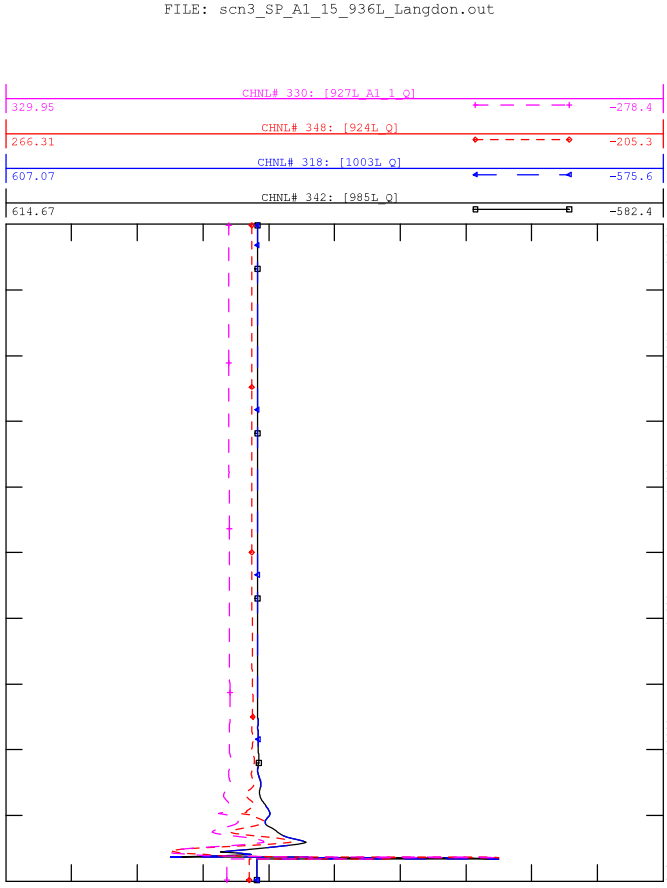
FILE: scn3_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

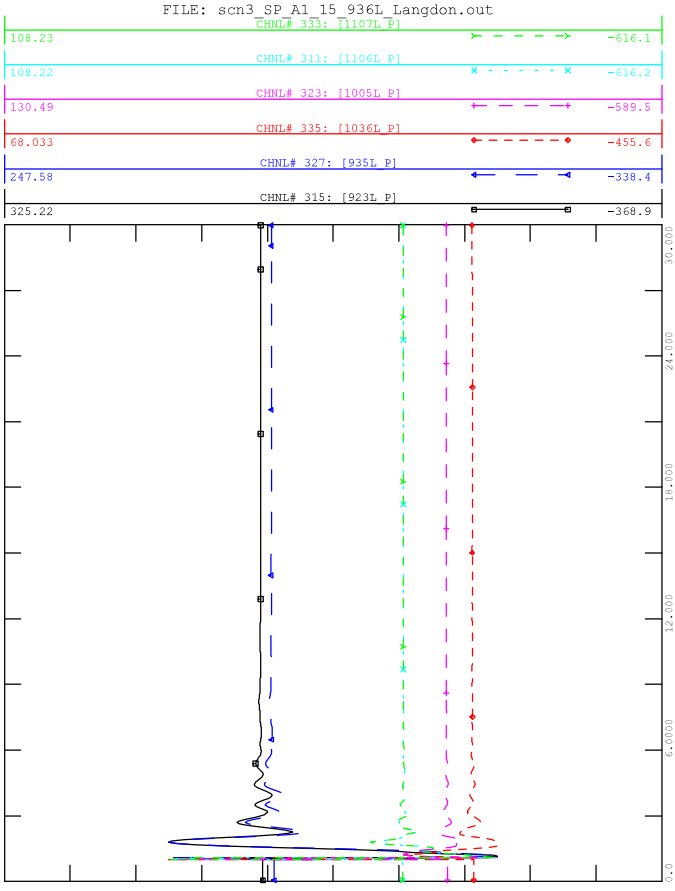
FILE: scn3_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

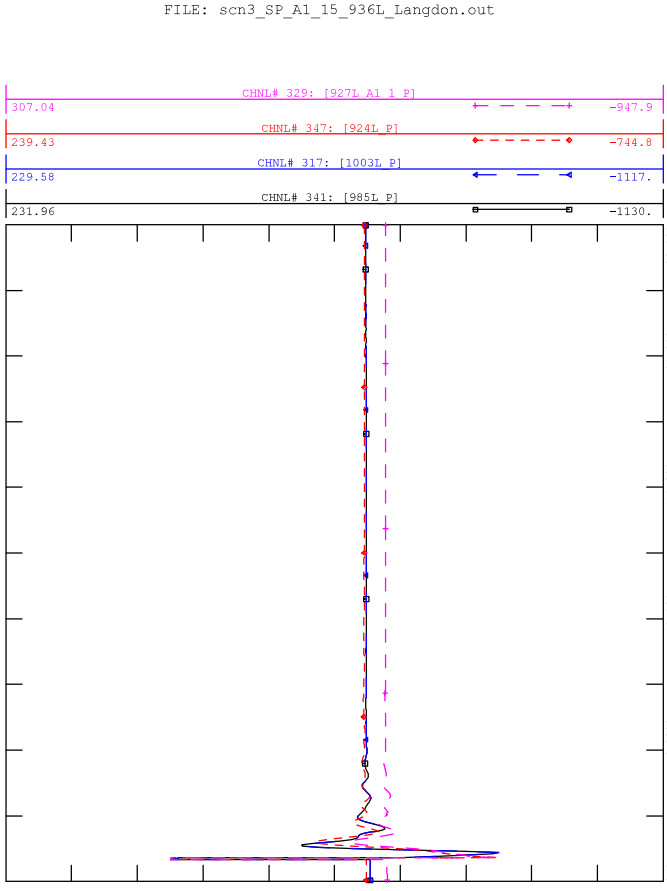
FILE: scn3_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_15_936L_LANGDON

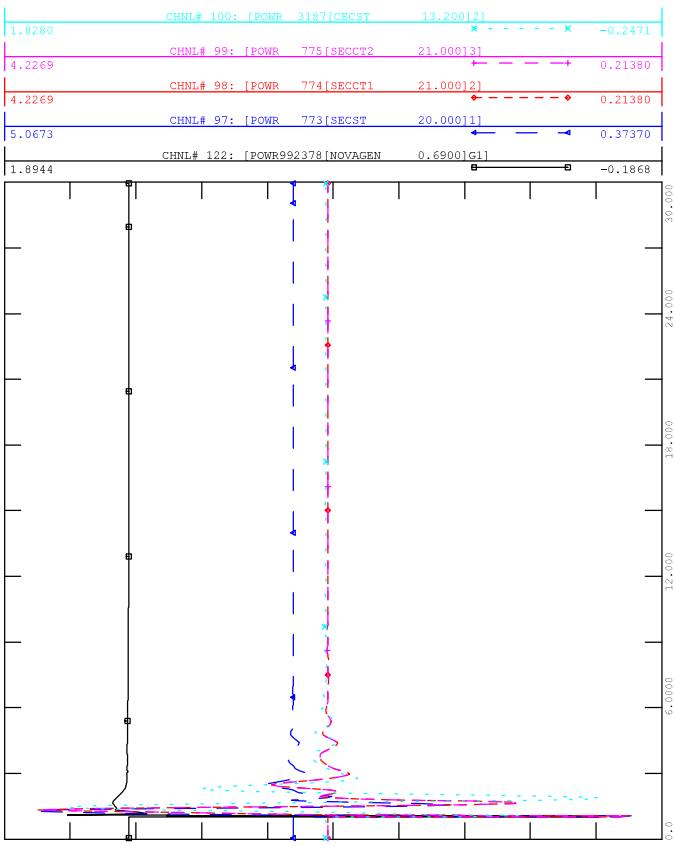
FILE: scn3_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

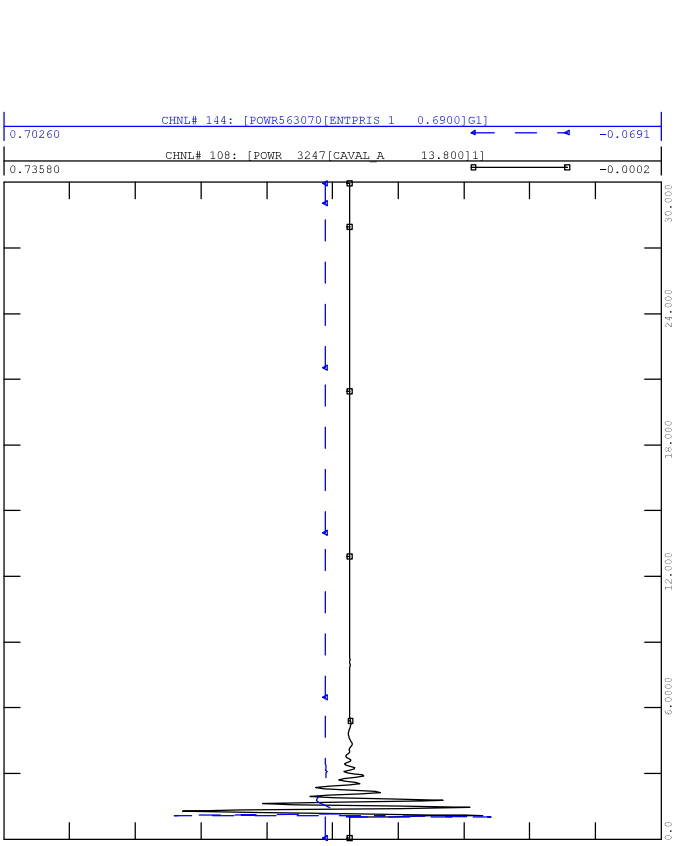
FILE: scn3_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

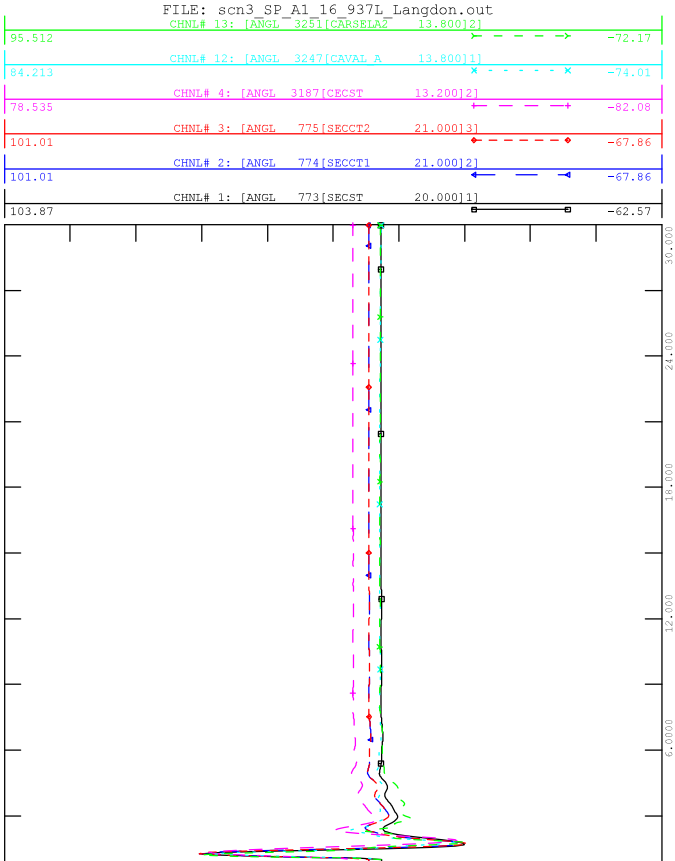
FILE: scn3_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

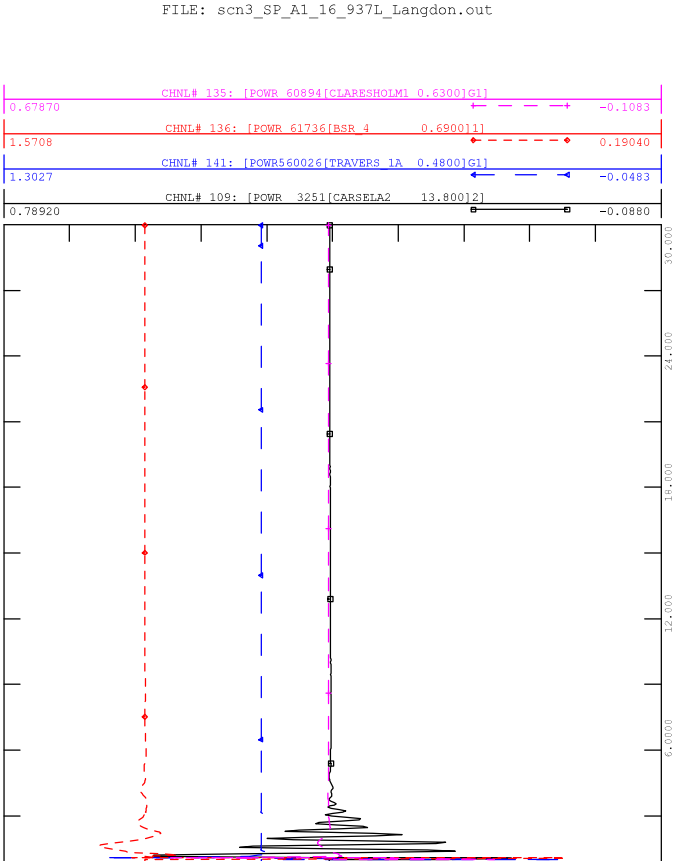
FILE: scn3_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out



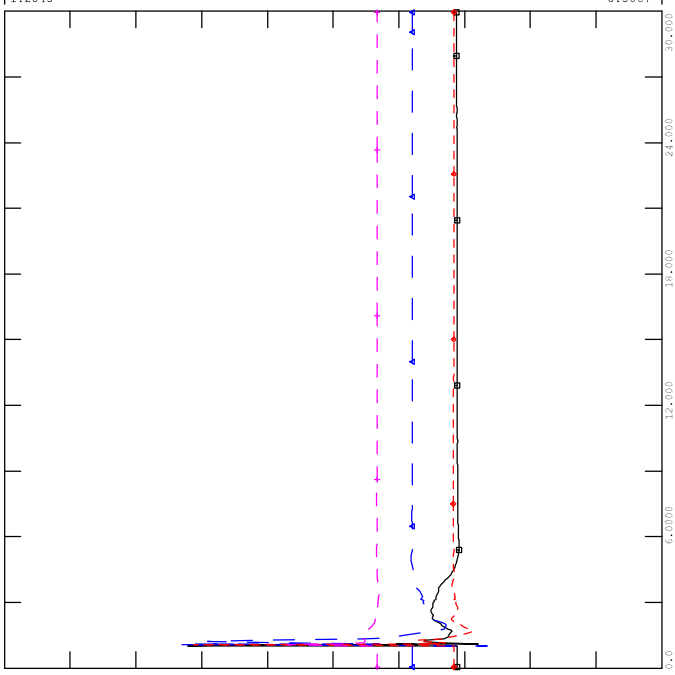
SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.53030 -0.6317
CHNL# 184: [VARS 61736[BSR 4 0.6900]1]
1.1501 -0.5870
CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1]
1.5988 -0.2822
CHNL# 157: [VARS 3251[CARSELA2 13.800]2]
1.2845 -0.5067

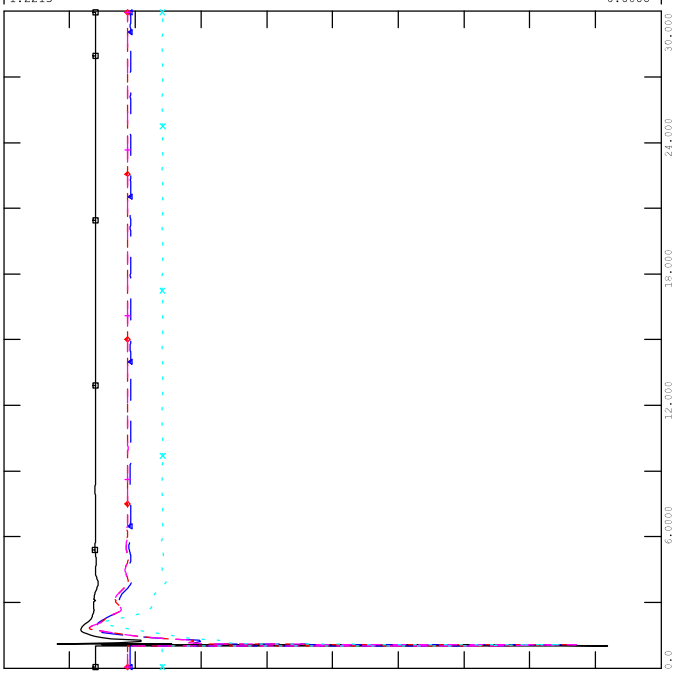


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 244: [ETRM 3187[CECST 13.200]2]
1.1610 0.49360
CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1455 0.37230
CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1455 0.37230
CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1458 0.38860
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.2213 -0.0088

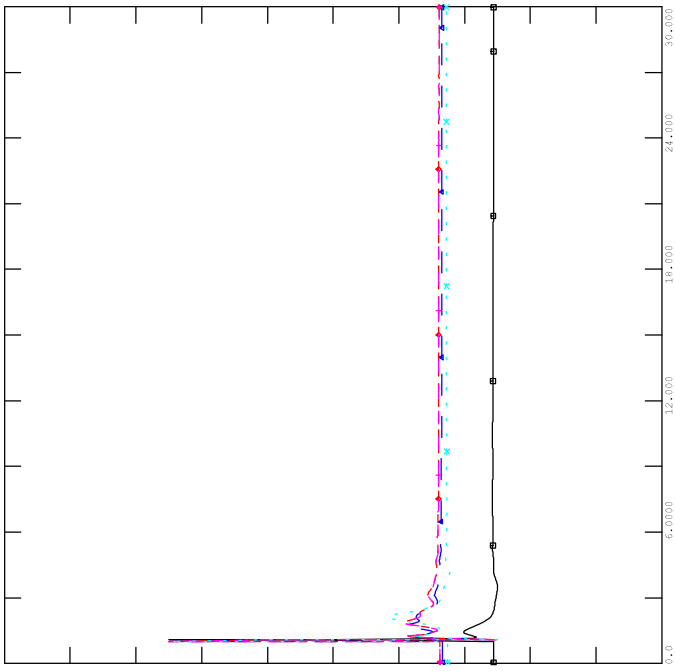


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

CHNL# 148: [VARS 3187[CECST 13.200]2]
3.1955 -1.309
CHNL# 147: [VARS 775[SECCT2 21.000]3]
6.0261 -3.215
CHNL# 146: [VARS 774[SECCT1 21.000]2]
6.0261 -3.215
CHNL# 145: [VARS 773[SECST 20.000]1]
7.5428 -3.872
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1]
1.5674 -0.5927

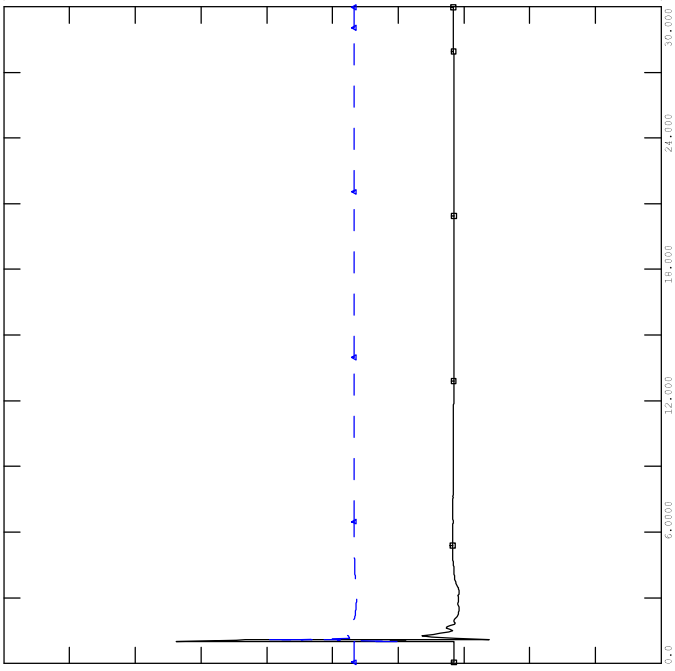


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1]
0.89270 -0.3664
CHNL# 156: [VARS 3247[CAVAL A 13.800]1]
1.3482 -0.5581



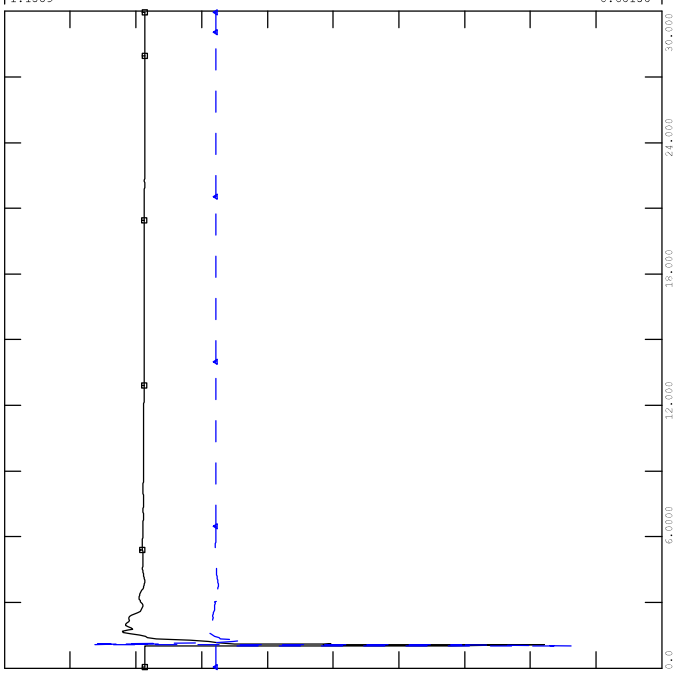
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2374 0.49870
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1589 0.60150

TIME (SECONDS)



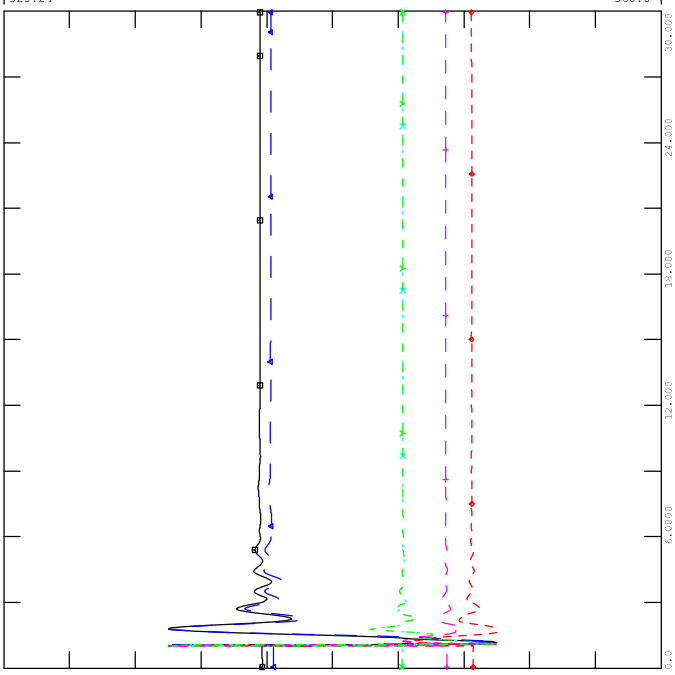
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 333: [1107L P]
108.27 -616.2
CHNL# 311: [1106L P]
108.26 -616.2
CHNL# 323: [1005L P]
130.51 -589.5
CHNL# 335: [1036L P]
68.053 -455.6
CHNL# 327: [935L P]
247.61 -338.4
CHNL# 315: [923L P]
325.24 -368.8

TIME (SECONDS)



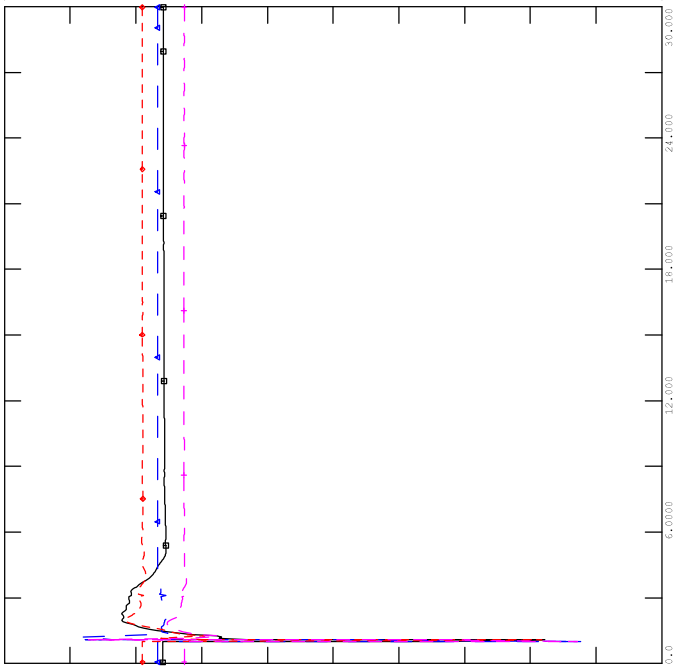
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2131 0.43360
CHNL# 280: [ETRM 61736[BSR_4 0.6900]1]
1.1399 0.59280
CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2958 0.45530
CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1652 0.60400

TIME (SECONDS)



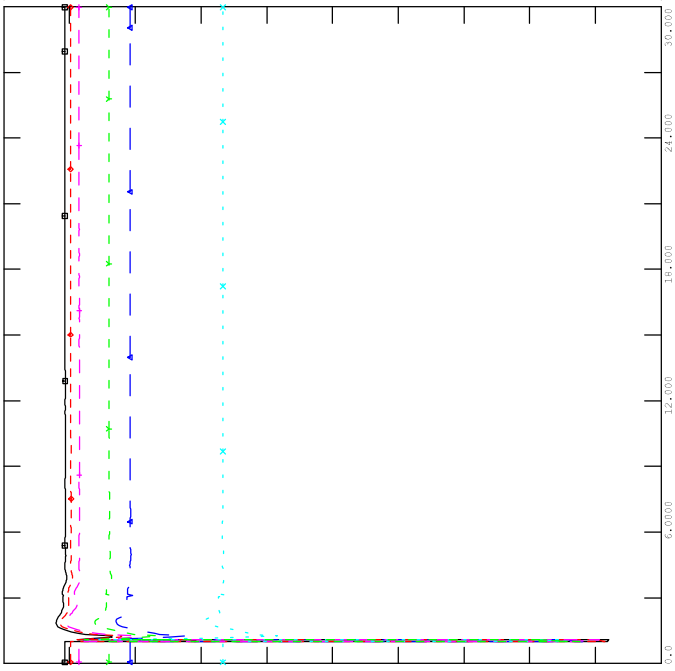
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:15 BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1589 0.34810
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.2787 0.56990
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1780 0.11830
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1672 -0.0027
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2011 0.36800
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1705 -0.0848

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

CHNL# 329: [927L_A1_1_P]
307.06 -947.8
CHNL# 347: [924L_P]
239.46 -744.7
CHNL# 317: [1003L_P]
229.61 -1117.
CHNL# 341: [985L_P]
231.99 -1130.

SAT, MAY 21 2022 1:15
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
95.582 -4.418
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
74.060 -25.94
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
85.421 -14.58
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
85.421 -14.58
CHNL# 1: [ANGL 773[SECST 20.000]1]
86.300 -13.70

SAT, MAY 21 2022 1:15
ROTOR ANGLE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

CHNL# 334: [1107L_Q]
217.69 -136.4
CHNL# 332: [1106L_Q]
217.86 -136.4
CHNL# 324: [1005L_Q]
149.18 -133.1
CHNL# 336: [1036L_Q]
320.09 -162.9
CHNL# 328: [935L_Q]
182.30 -509.7
CHNL# 316: [923L_Q]
202.80 -578.4

SAT, MAY 21 2022 1:15
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A1_16_937L_LANGDON

FILE: scn3_SP_A1_16_937L_Langdon.out

CHNL# 330: [927L_A1_1_Q]
330.02 -278.7
CHNL# 348: [924L_Q]
266.40 -205.6
CHNL# 318: [1003L_Q]
607.07 -575.6
CHNL# 342: [985L_Q]
614.68 -582.4

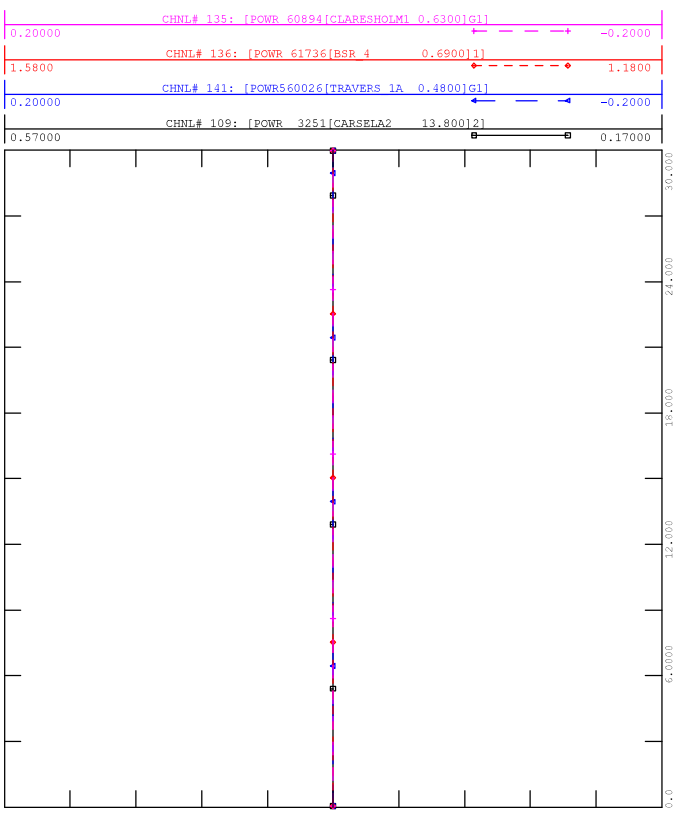
SAT, MAY 21 2022 1:15
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

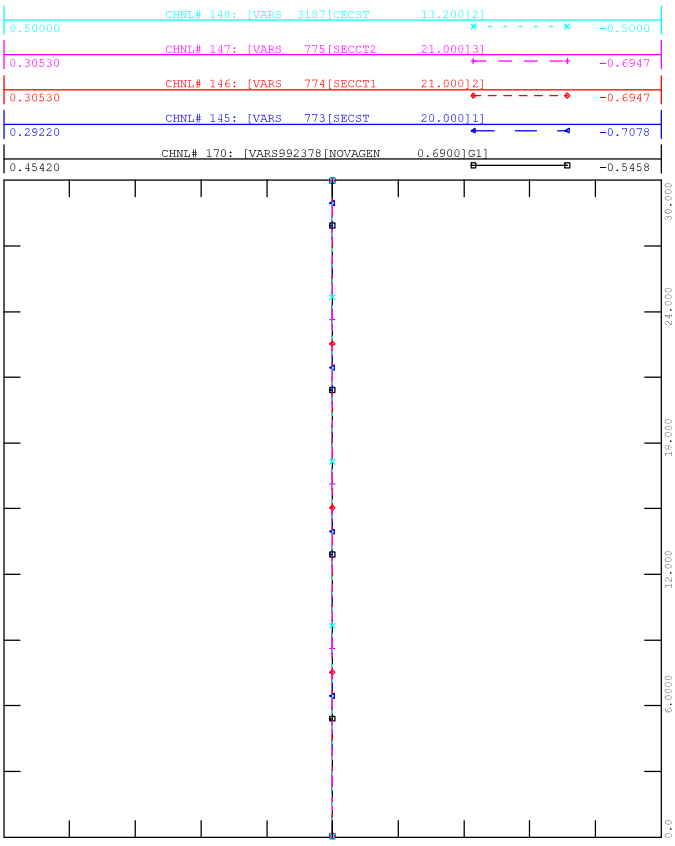
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

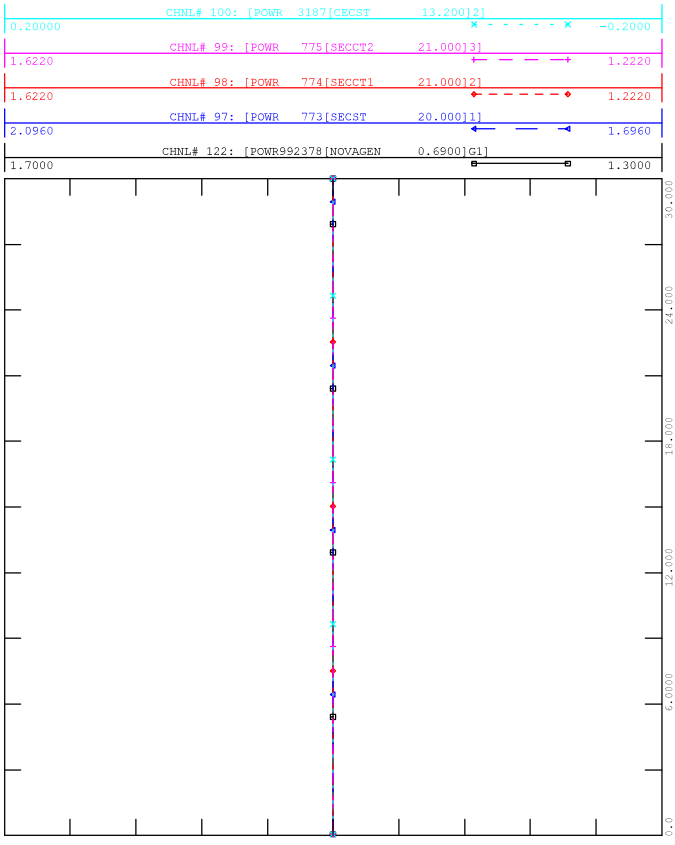
SAT, MAY 21 2022 1:15 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

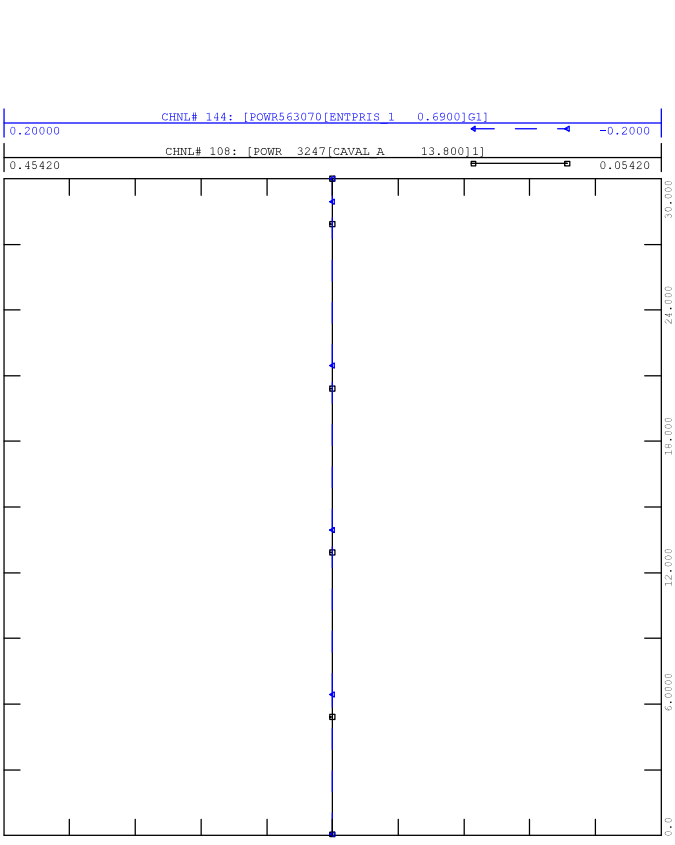
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

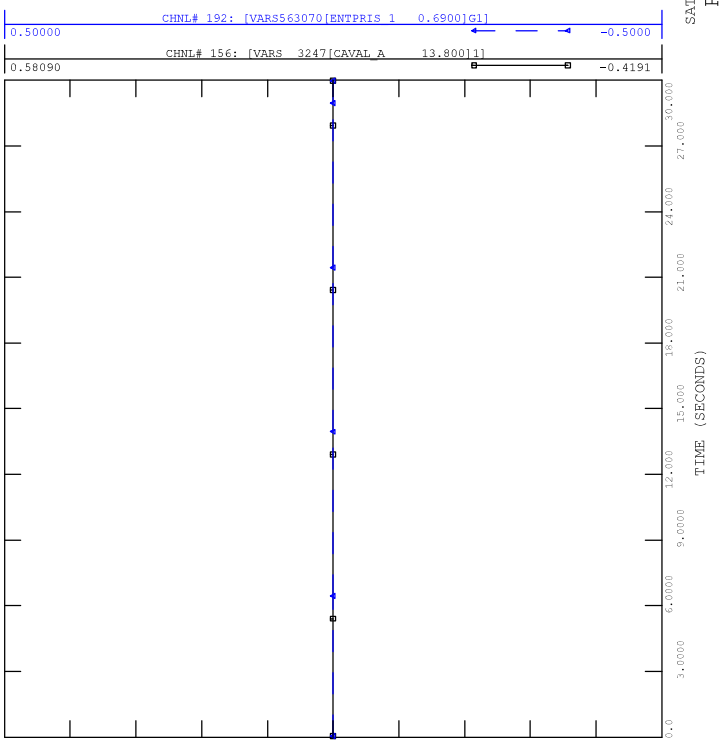
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

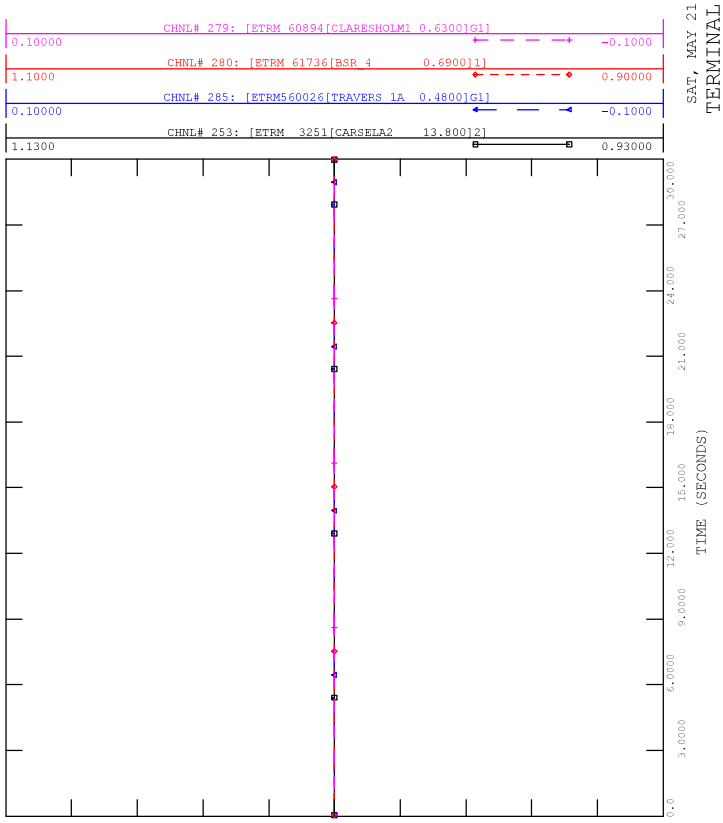
SAT, MAY 21 2022 1:15 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

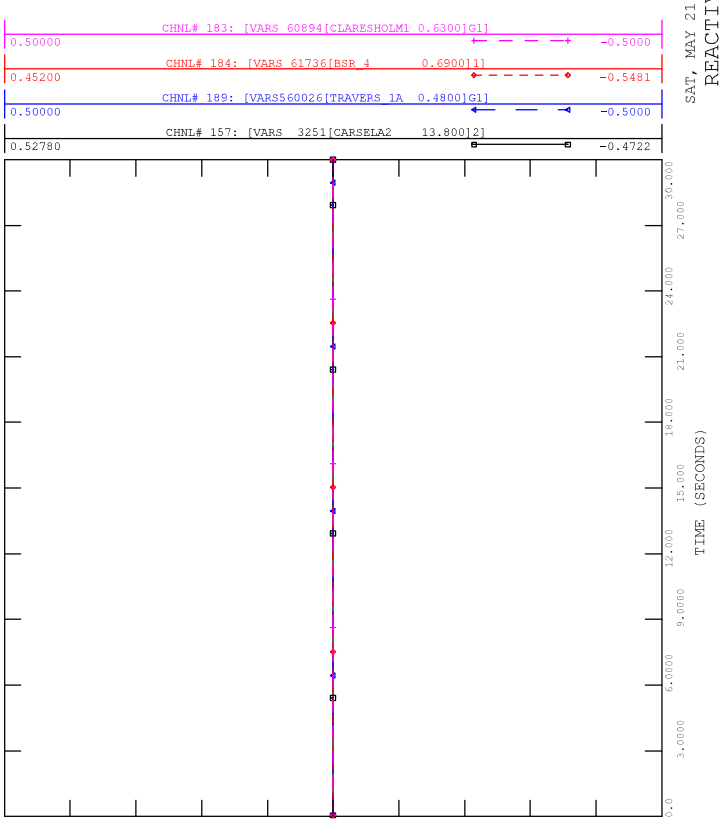
SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

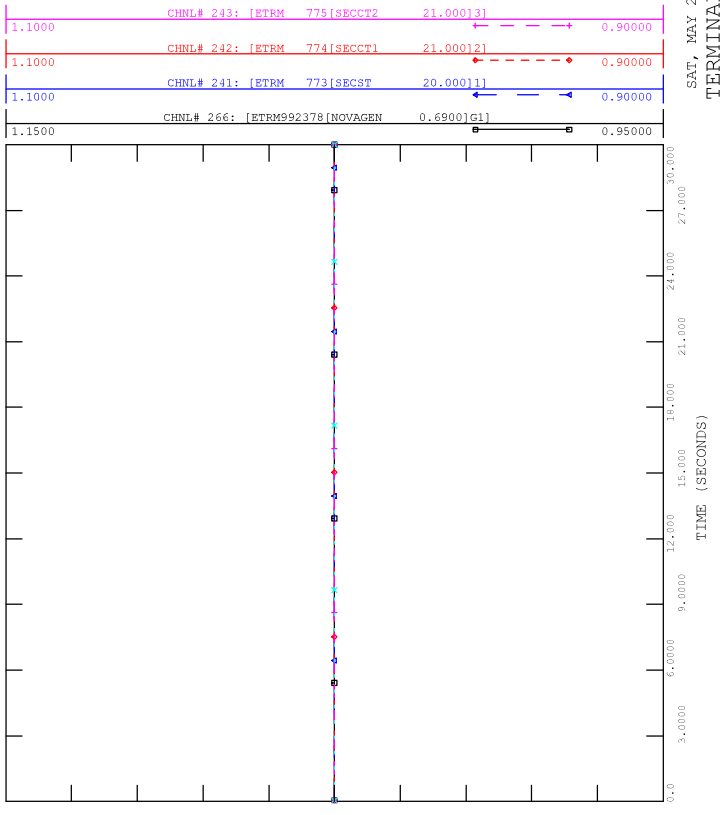
SAT, MAY 21 2022 1:15 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

SAT, MAY 21 2022 1:15

BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1388 0.93880

CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.1492 0.94920

CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1590 0.95900

CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1494 0.94940

CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.1434 0.94340

CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1540 0.95400

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

SAT, MAY 21 2022 1:15

BRANCH Q

CHNL# 334: [1107L Q]
149.66 69.660

CHNL# 312: [1106L Q]
149.78 69.777

CHNL# 324: [1005L Q]
85.085 5.0837

CHNL# 336: [1036L Q]
146.95 66.953

CHNL# 328: [935L Q]
14.578 -65.42

CHNL# 316: [923L Q]
16.629 -63.37

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000

CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1400 0.94000

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

SAT, MAY 21 2022 1:15

BRANCH P

CHNL# 333: [1107L P]
-328.1 -408.1

CHNL# 311: [1106L P]
-328.2 -408.2

CHNL# 323: [1005L P]
-211.3 -291.3

CHNL# 335: [1036L P]
-309.5 -389.5

CHNL# 327: [935L P]
46.116 -33.89

CHNL# 315: [923L P]
88.647 8.6451

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

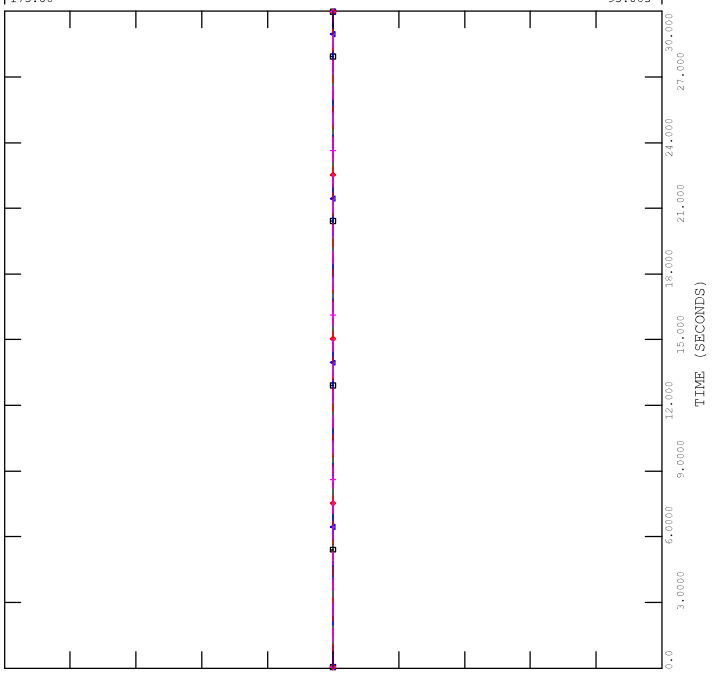
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

SAT, MAY 21 2022 1:15 BRANCH Q

CHNL# 330: [927L_A1_1_Q] 151.93 71.926
CHNL# 348: [924L_Q] 118.04 38.041
CHNL# 318: [1003L_Q] 171.93 91.927
CHNL# 342: [985L_Q] 173.80 93.803

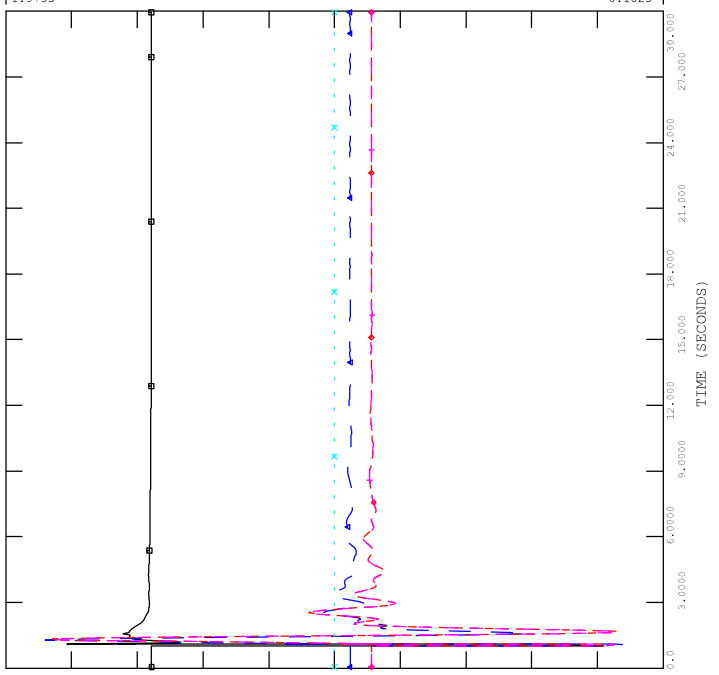


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3] 3.0044 0.16030
CHNL# 98: [POWR 774[SECCT1 21.000]2] 3.0044 0.16030
CHNL# 97: [POWR 773[SECST 20.000]1] 3.6431 0.30630
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1] 1.9793 -0.1823

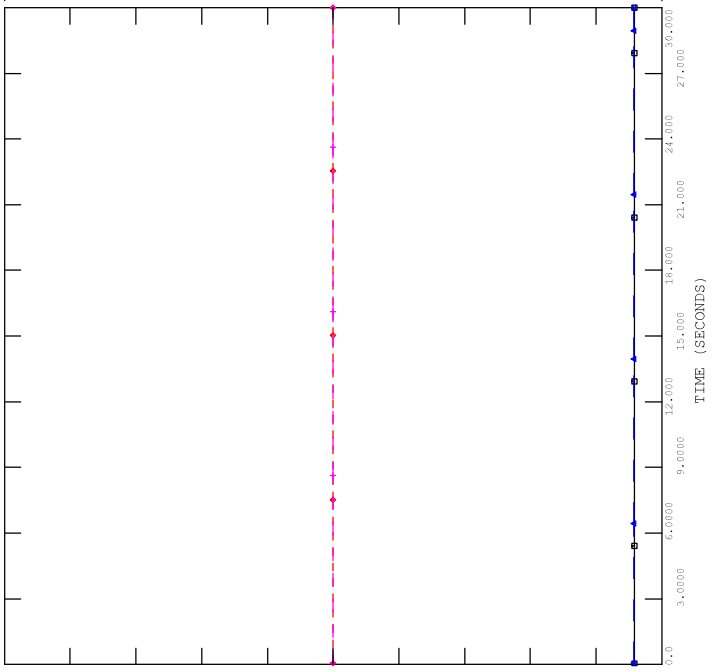


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_NOFAULT

FILE: scn4_SL_A1_nofault.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 329: [927L_A1_1_P] -355.4 -435.4
CHNL# 347: [924L_P] -235.2 -315.2
CHNL# 317: [1003L_P] 430.09 -510.1
CHNL# 341: [985L_P] 435.47 -515.5

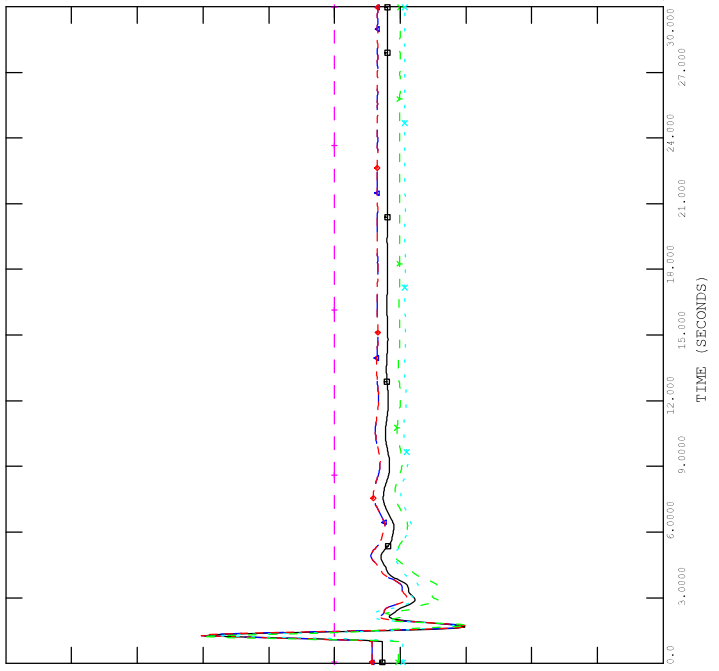


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSBLAZ 13.800]2] 146.31 -22.44
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1] 118.88 -38.25
CHNL# 4: [ANGL 3187[CECST 13.200]2] 50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 129.12 -39.02
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 129.12 -39.02
CHNL# 1: [ANGL 773[SECST 20.000]1] 131.07 -34.39

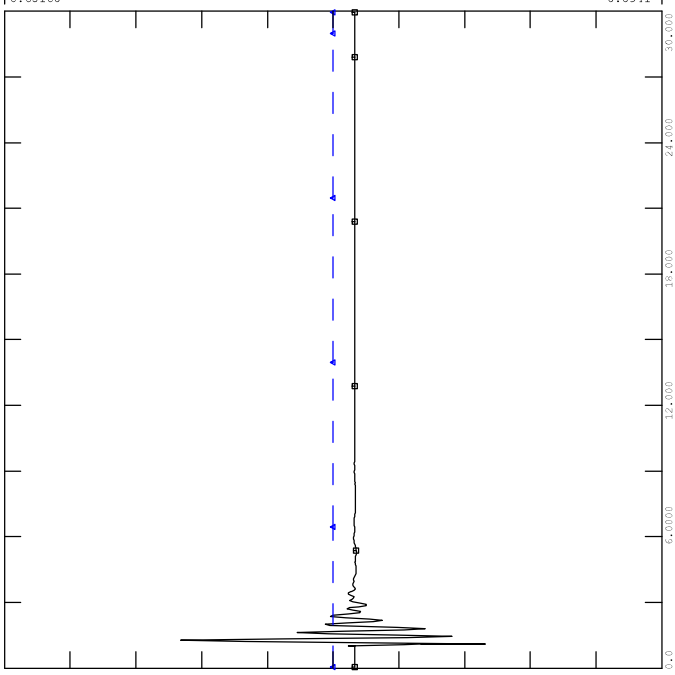


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 144: [POWR563070[ENTPRIS 1 0.6900]G1] 0.20000 -0.2000
CHNL# 108: [POWR 3247[CAVAL A 13.800]1] 0.65160 -0.0941

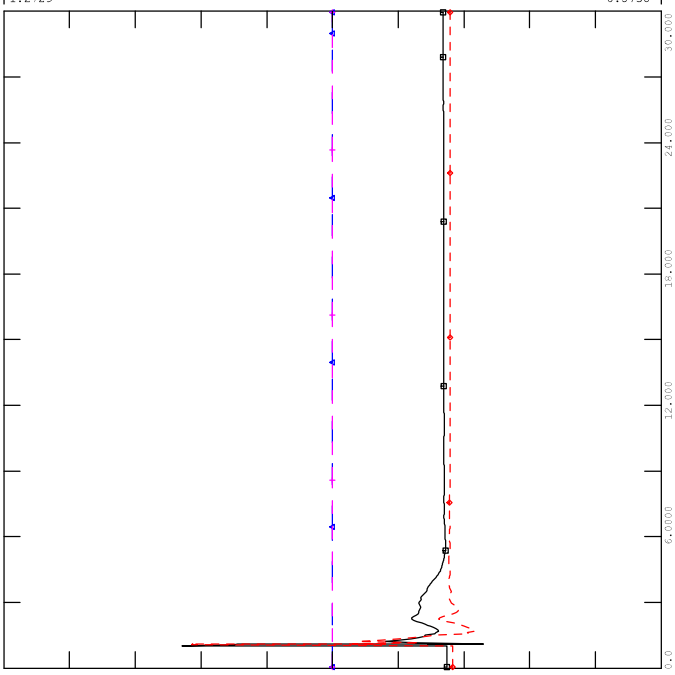


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000
CHNL# 184: [VARS 61736[BSR 4 0.6900]1] 1.1531 -0.6072
CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000
CHNL# 157: [VARS 3251[CARSELA2 13.800]2] 1.2729 -0.5738

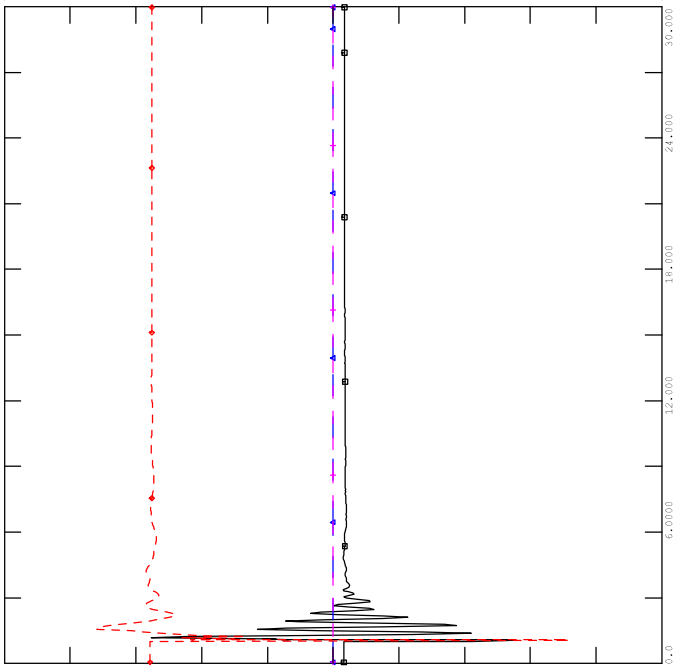


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.20000 -0.2000
CHNL# 136: [POWR 61736[BSR 4 0.6900]1] 1.6961 0.27030
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1] 0.20000 -0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2] 0.83220 -0.0629

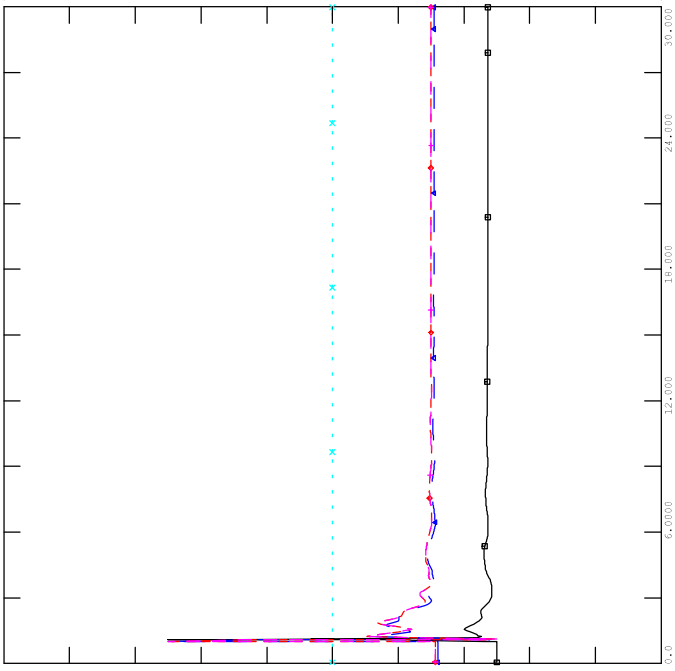


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

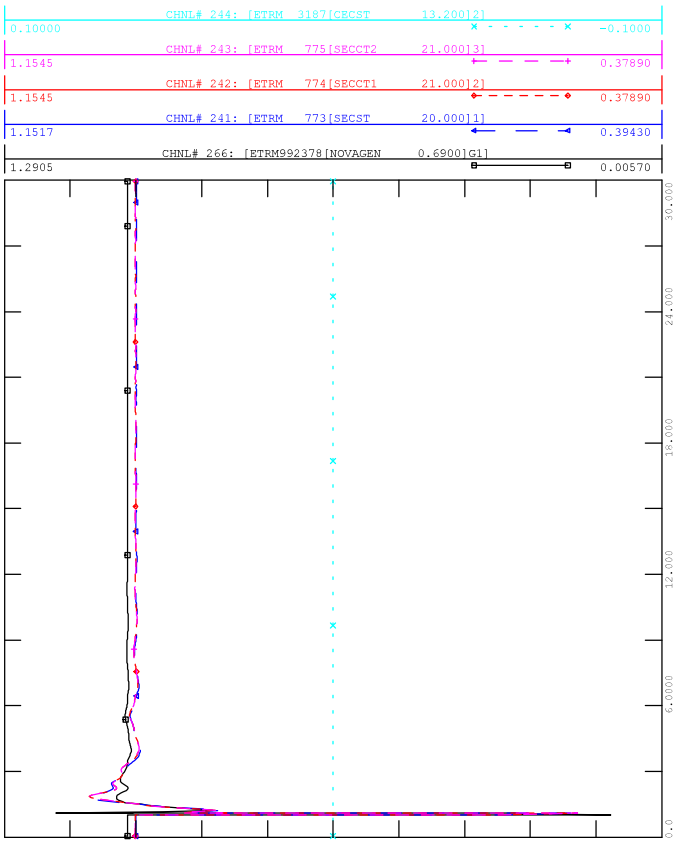
CHNL# 148: [VARS 3187[CECST 13.200]2] 0.50000 -0.5000
CHNL# 147: [VARS 775[SECCT2 21.000]3] 5.9501 -3.417
CHNL# 146: [VARS 774[SECCT1 21.000]2] 5.9501 -3.417
CHNL# 145: [VARS 773[SECST 20.000]1] 7.4316 -4.145
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1] 1.7545 -0.6459



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

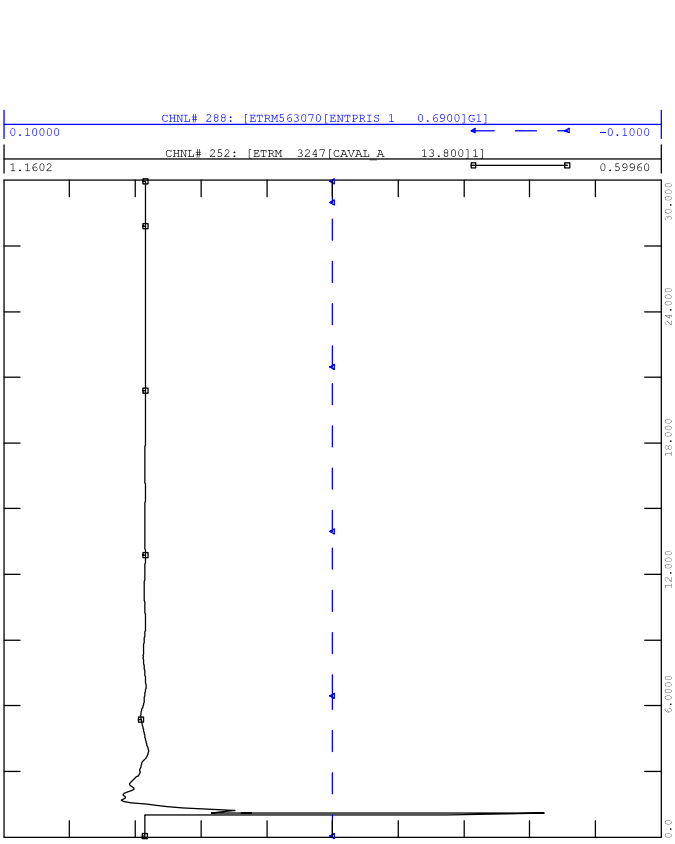
SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

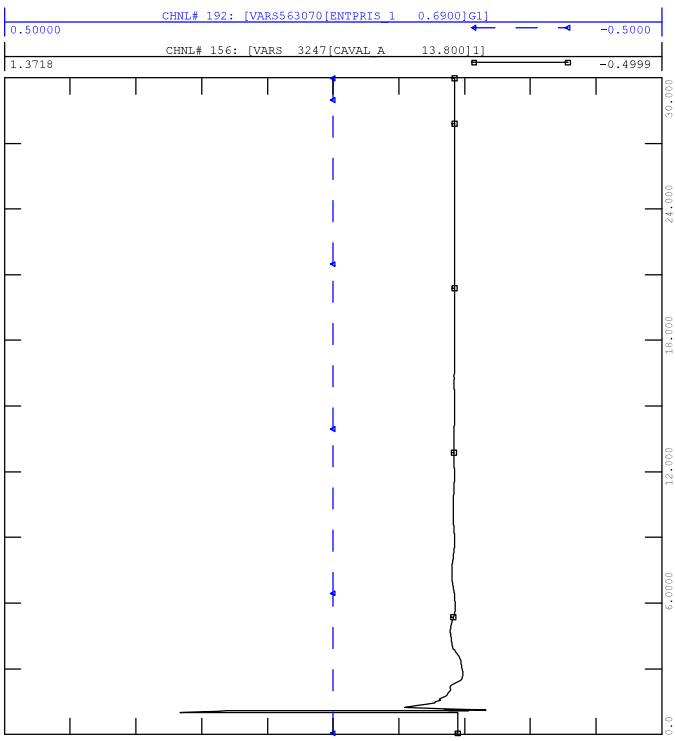
SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

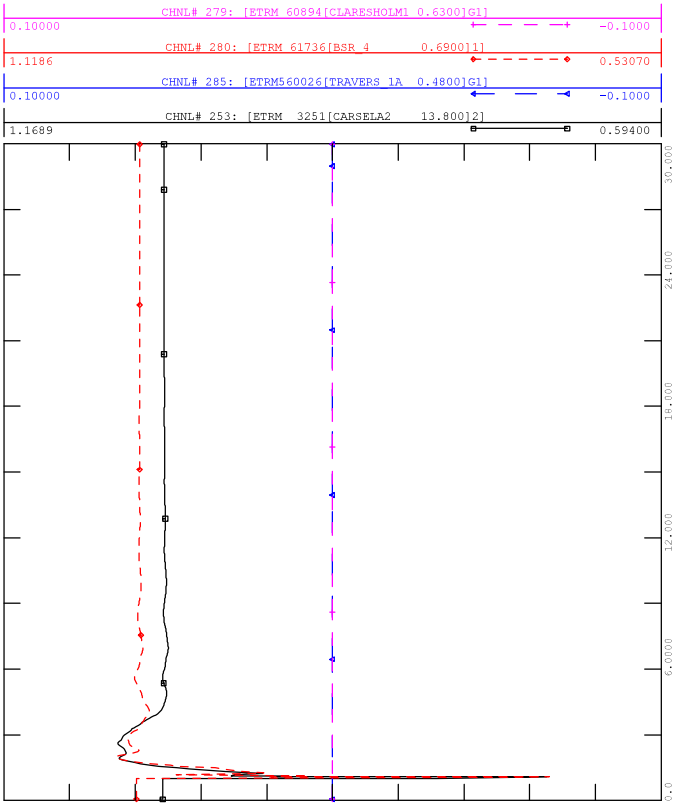
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

CHNL# 333: [1107L P]
138.67 -752.5
CHNL# 311: [1106L P]
138.67 -752.6
CHNL# 323: [1005L P]
88.019 -364.4
CHNL# 335: [1036L P]
62.572 -487.7
CHNL# 327: [935L P]
294.97 -261.5
CHNL# 315: [923L P]
374.21 -304.9

SAT, MAY 21 2022 1:15
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

CHNL# 329: [927L_A1_1 P]
381.55 -1221.
CHNL# 347: [924L P]
137.62 -412.9
CHNL# 317: [1003L P]
201.81 -1060.
CHNL# 341: [985L P]
203.89 -1072.

SAT, MAY 21 2022 1:15
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.2256 0.31310
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3500 0.52680
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1742 0.12350
CHNL# 310: [VOLT 902378 [927L_TAP 240.00]]
1.1863 0.01370
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2762 0.33340
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1763 -0.0572

SAT, MAY 21 2022 1:15
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

CHNL# 334: [1107L Q]
348.41 -160.2
CHNL# 312: [1106L Q]
348.63 -160.2
CHNL# 324: [1005L Q]
184.63 -108.5
CHNL# 336: [1036L Q]
352.31 -161.7
CHNL# 328: [935L Q]
218.31 -648.6
CHNL# 316: [923L Q]
247.93 -713.4

SAT, MAY 21 2022 1:15
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
118.24 -11.12
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
95.586 -29.18
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
99.735 -25.05
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
99.735 -25.05
CHNL# 1: [ANGL 773[SECST 20.000]1]
100.40 -23.20

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.7573 0.07800
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.64170 0.05380

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_01_924L_LANGDON

FILE: scn4_SL_A1_01_924L_Langdon.out

CHNL# 330: [927L A1 1 Q]
584.22 -218.5
CHNL# 348: [924L Q]
118.04 -40.00
CHNL# 318: [1003L Q]
657.94 -581.9
CHNL# 342: [985L Q]
666.12 -588.8

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

CHNL# 100: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3]
1.9487 0.93890
CHNL# 98: [POWR 774[SECCT1 21.000]2]
1.9487 0.93890
CHNL# 97: [POWR 773[SECST 20.000]1]
2.4364 1.3463
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
1.9786 0.23800

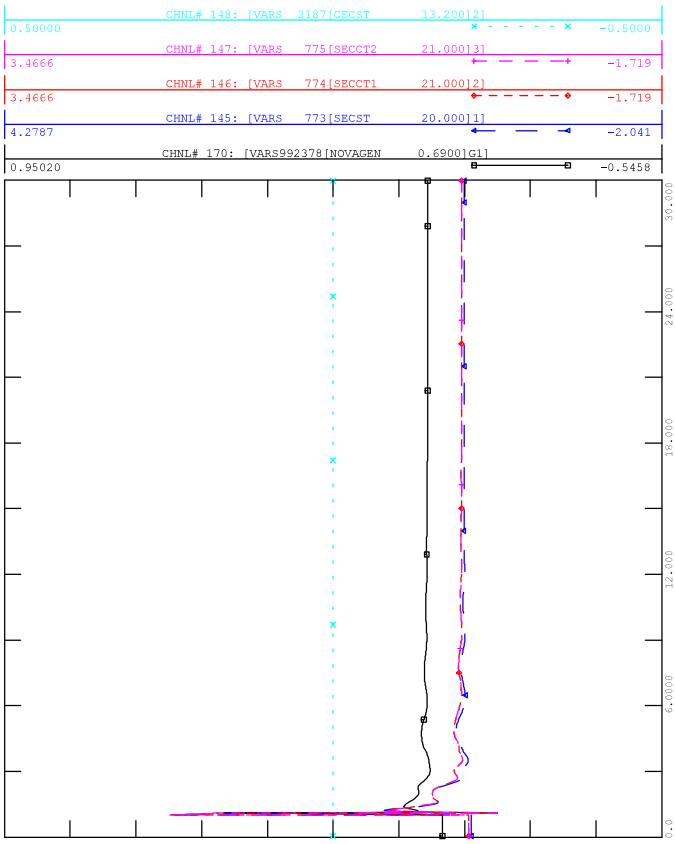
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

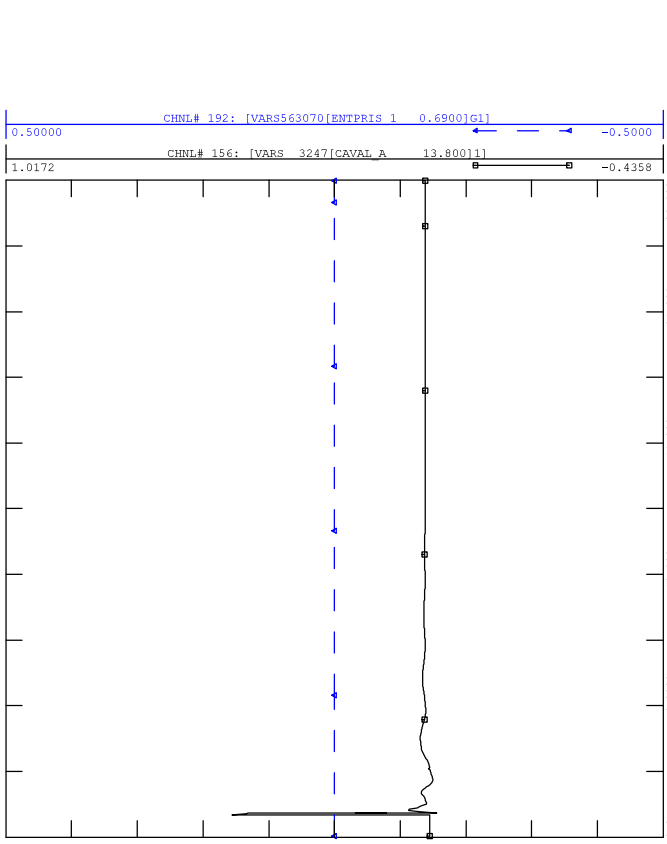
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

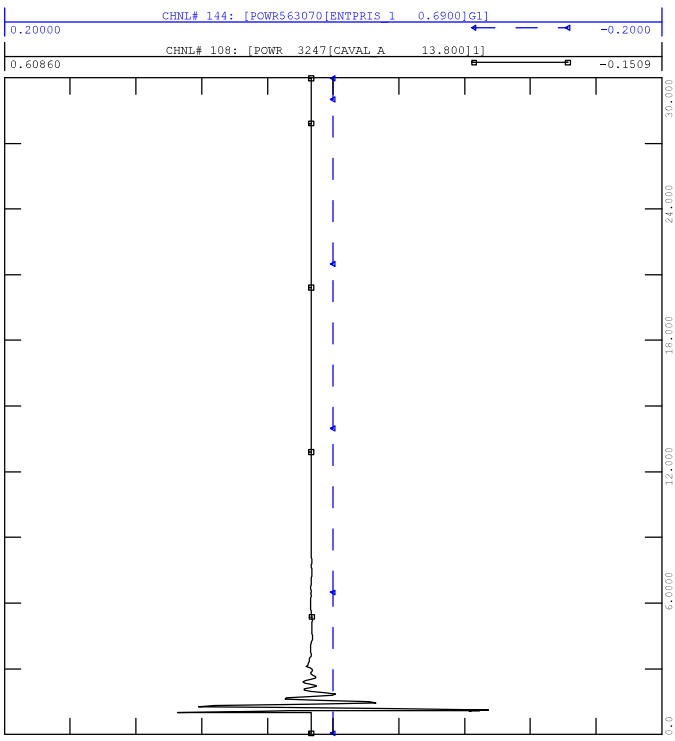
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

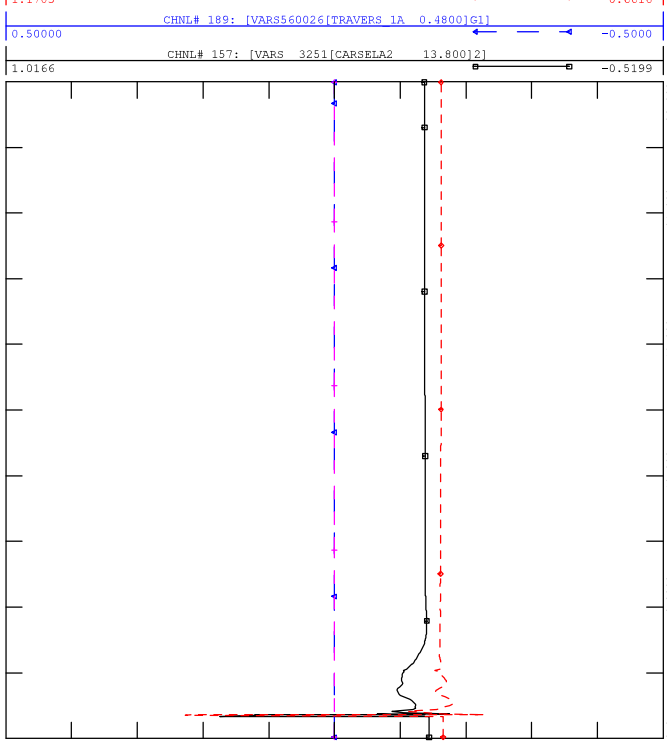
SAT, MAY 21 2022 1:15
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

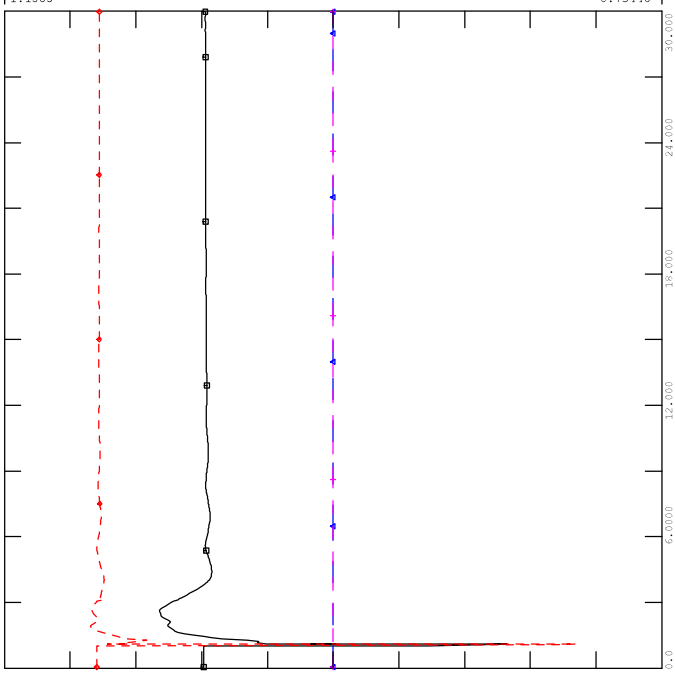


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1073 0.34280
CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1585 0.73440

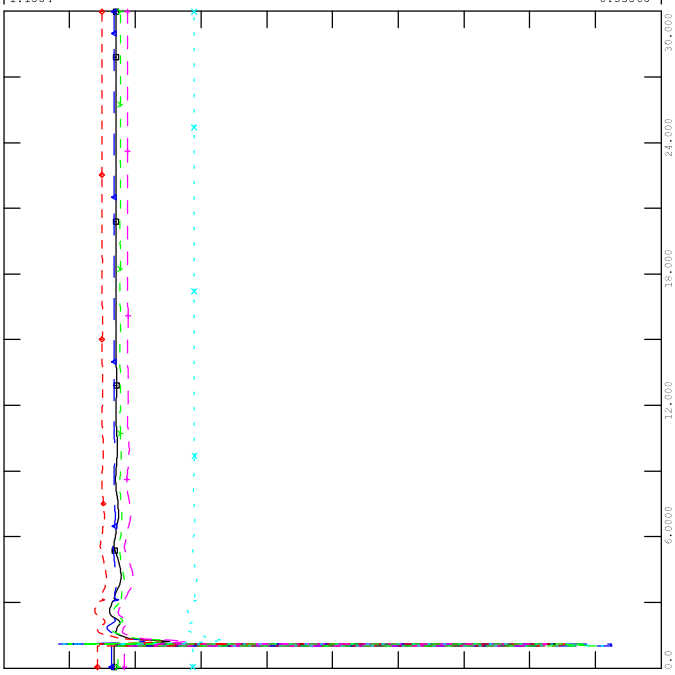


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:15 BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.2167 0.19220
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3728 0.24650
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1647 0.58950
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1521 0.42900
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2628 -0.0744
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1584 0.53560

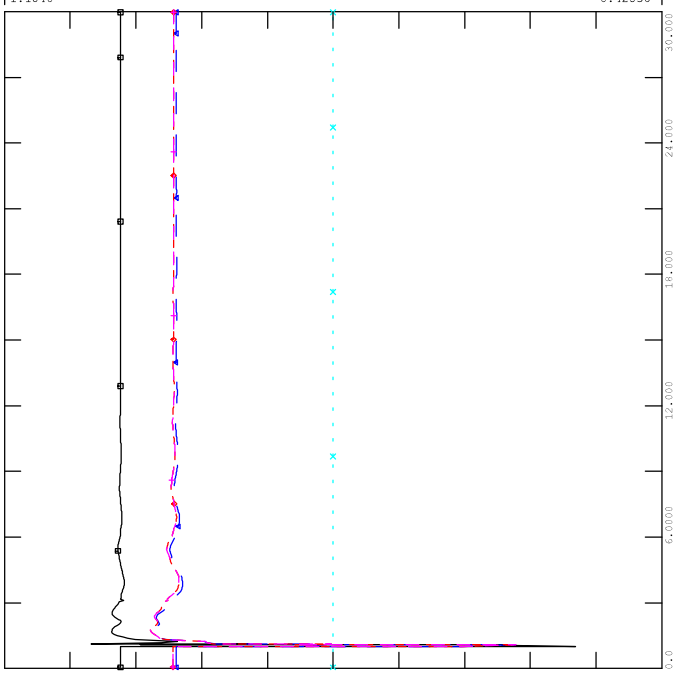


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 244: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1158 0.66470
CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1158 0.66470
CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1162 0.67160
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.1840 0.42530

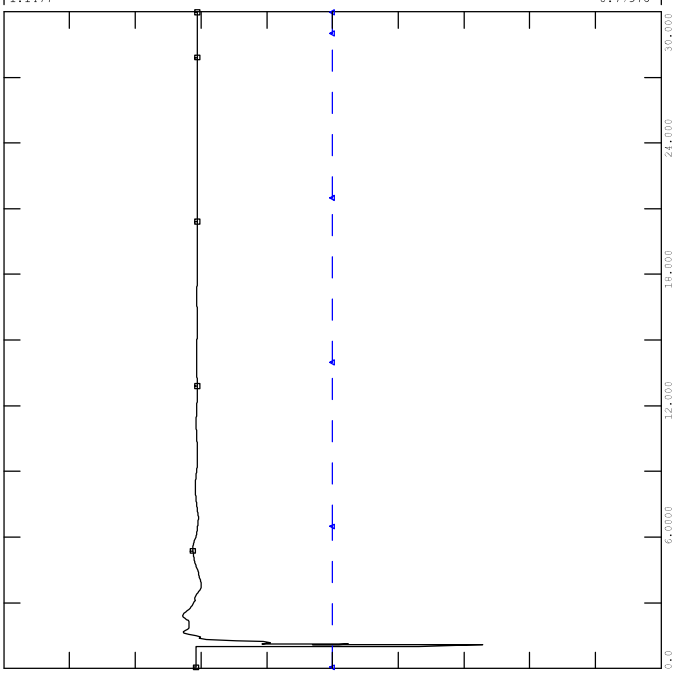


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1477 0.77970



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

CHNL# 334: [1107L Q]
316.27 -55.98
CHNL# 312: [1106L Q]
316.34 -55.82
CHNL# 324: [1005L Q]
170.73 -74.91
CHNL# 336: [1036L Q]
356.53 -138.1
CHNL# 328: [935L Q]
137.63 -495.3
CHNL# 316: [923L Q]
166.77 -584.1

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

CHNL# 330: [927L A1_1 Q]
853.85 -355.0
CHNL# 348: [924L Q]
118.04 -40.00
CHNL# 318: [1003L Q]
348.72 -211.5
CHNL# 342: [985L Q]
353.25 -213.8

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

CHNL# 333: [1107L P]
58.972 -710.6
CHNL# 311: [1106L P]
59.045 -710.7
CHNL# 323: [1005L P]
123.21 -376.2
CHNL# 335: [1036L P]
165.00 -521.0
CHNL# 327: [935L P]
250.49 -283.6
CHNL# 315: [923L P]
326.15 -325.5

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_02_924L_MILO

FILE: scn4_SL_A1_02_924L_Milo.out

CHNL# 329: [927L A1_1 P]
481.90 -1274.
CHNL# 347: [924L P]
137.62 -412.9
CHNL# 317: [1003L P]
-219.2 -714.3
CHNL# 341: [985L P]
-221.9 -722.4

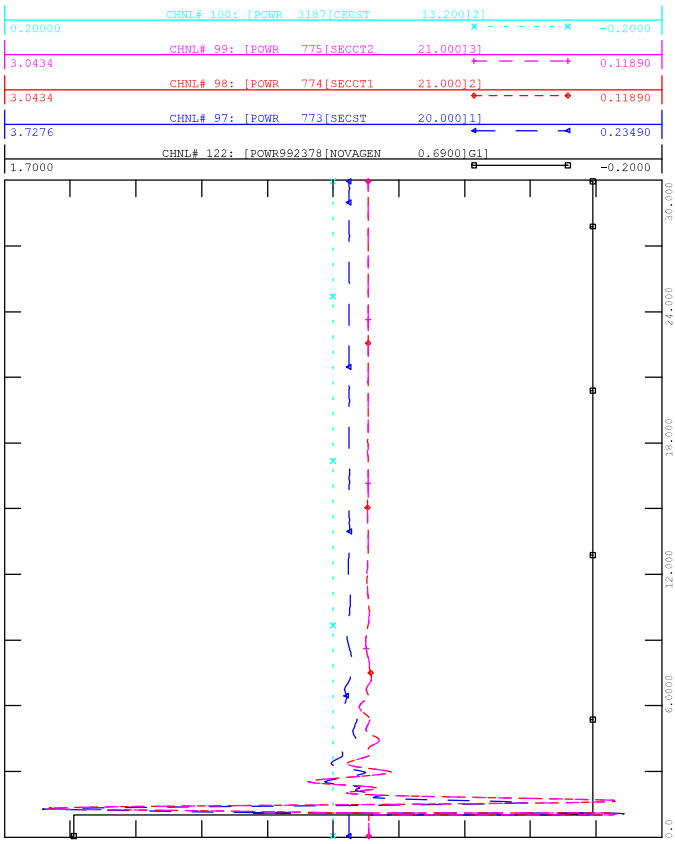
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

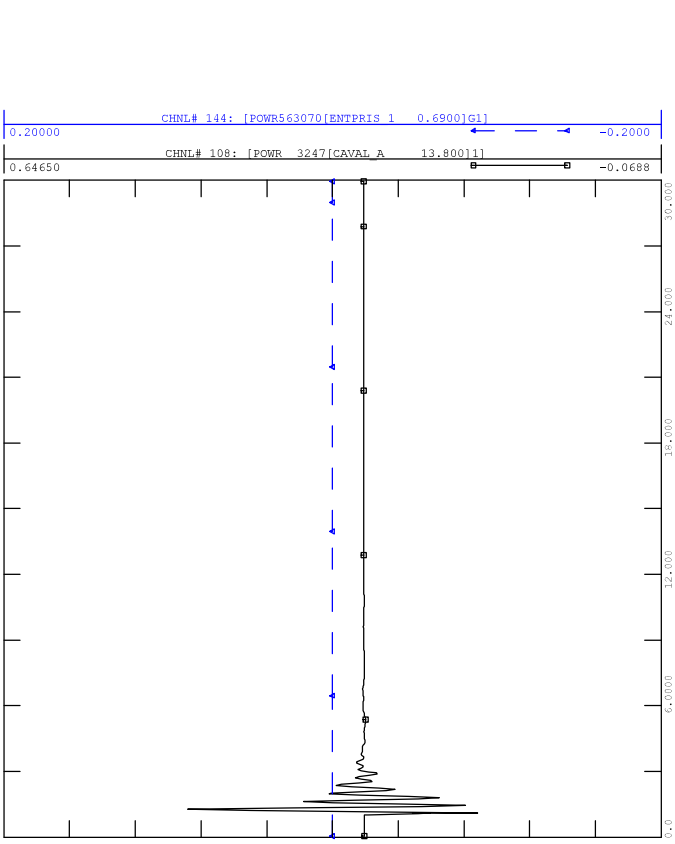
SAT, MAY 21 2022 1:15
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

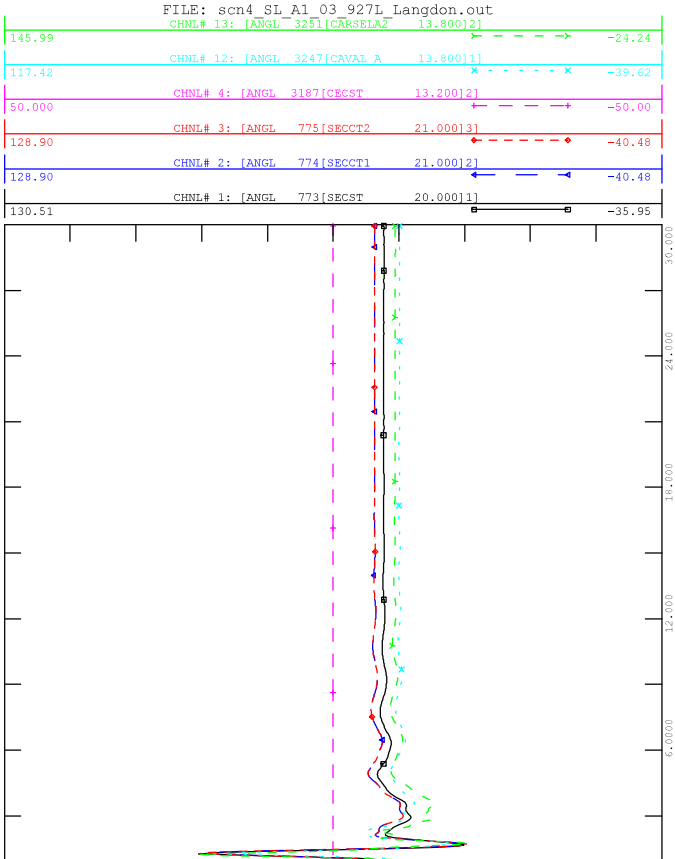
SAT, MAY 21 2022 1:15
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

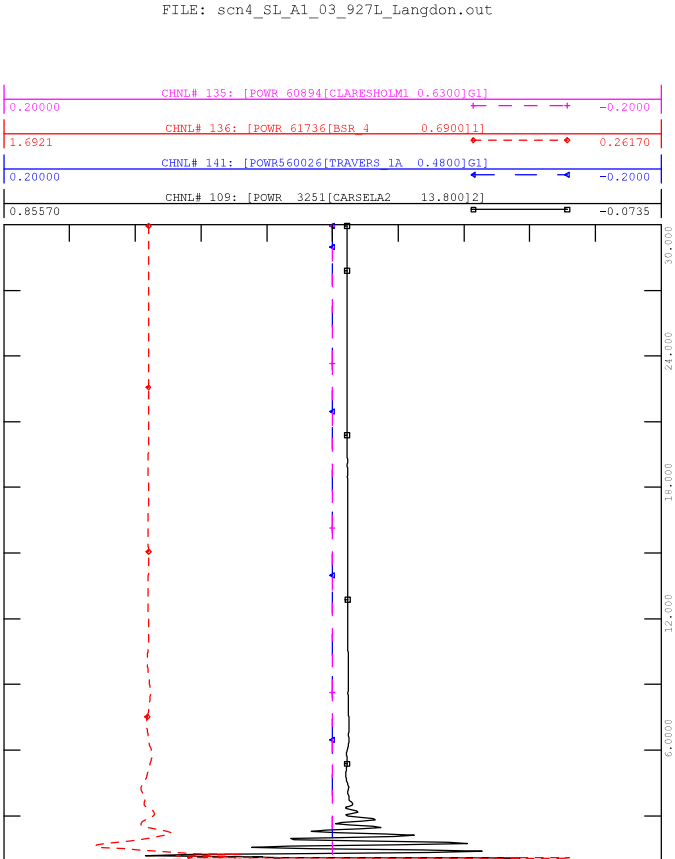
SAT, MAY 21 2022 1:15
ROTOR ANGLE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15
ACTIVE POWER

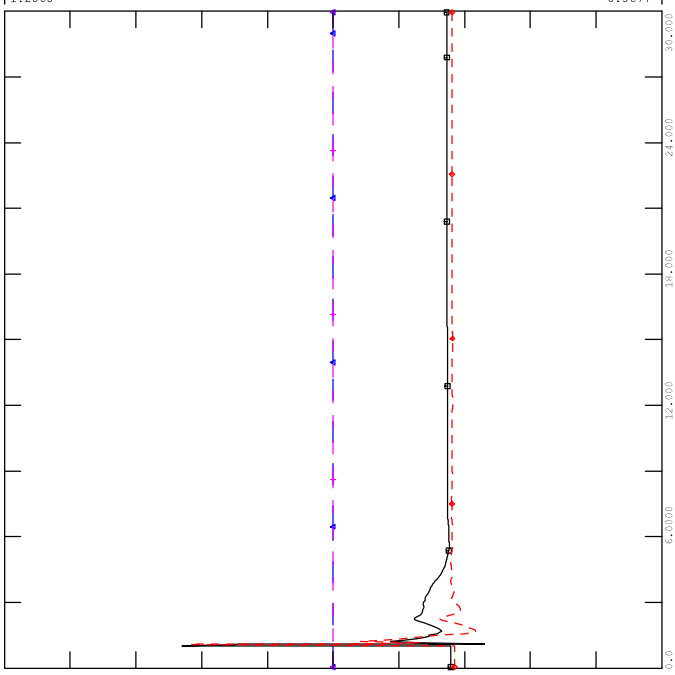


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 184: [VARS 61736[BSR 4 0.6900]1]
1.1616 -0.6060
CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 157: [VARS 3251[CARSELA2 13.800]2]
1.2868 -0.5677

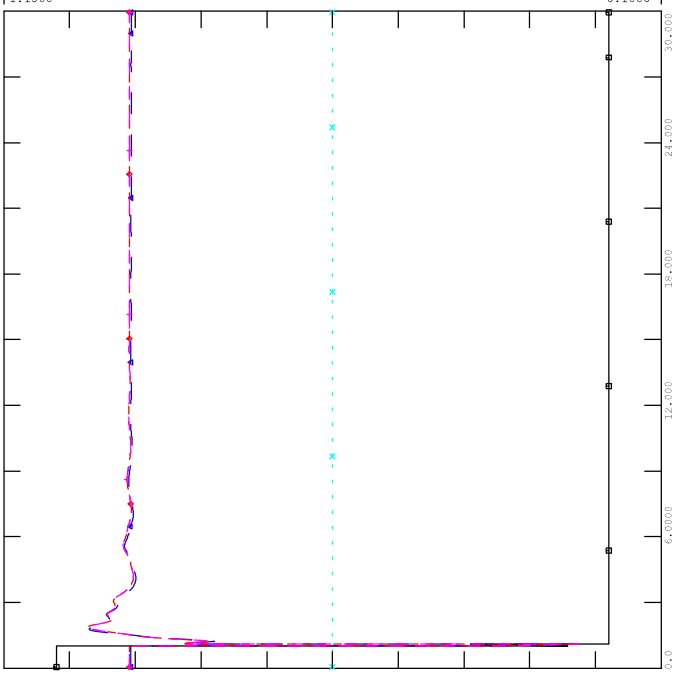


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

CHNL# 244: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1510 0.36040
CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1510 0.36040
CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1495 0.37660
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 -0.1000

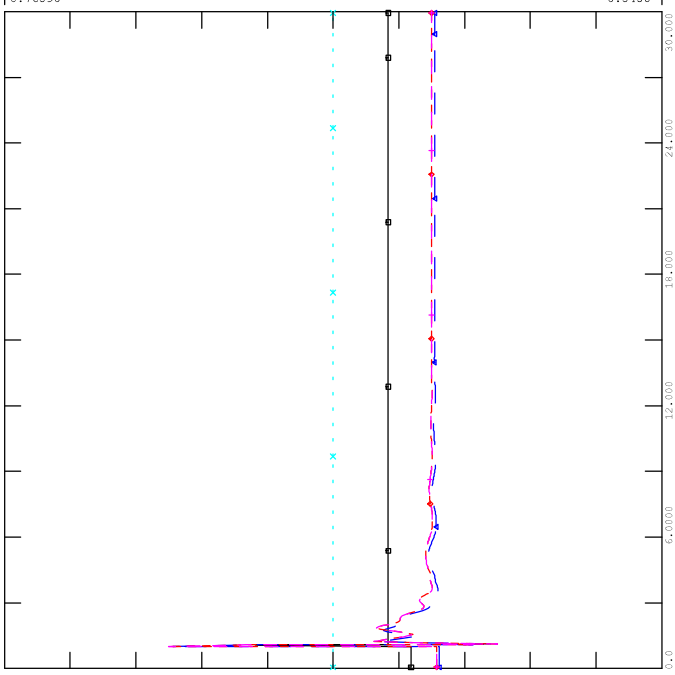


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 148: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 147: [VARS 775[SECCT2 21.000]3]
5.9952 -3.423
CHNL# 146: [VARS 774[SECCT1 21.000]2]
5.9952 -3.423
CHNL# 145: [VARS 773[SECST 20.000]1]
7.4954 -4.146
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1]
0.76590 -0.5458

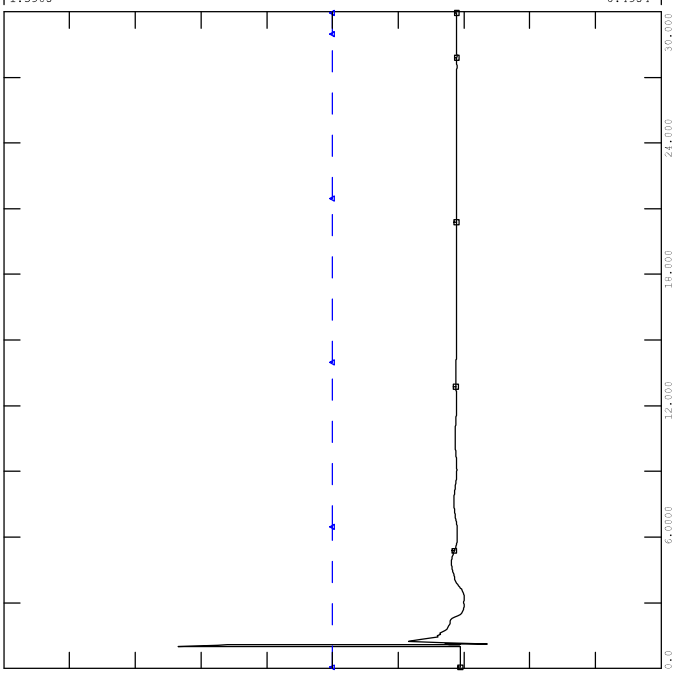


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 156: [VARS 3247[CAVAL A 13.800]1]
1.3905 -0.4954

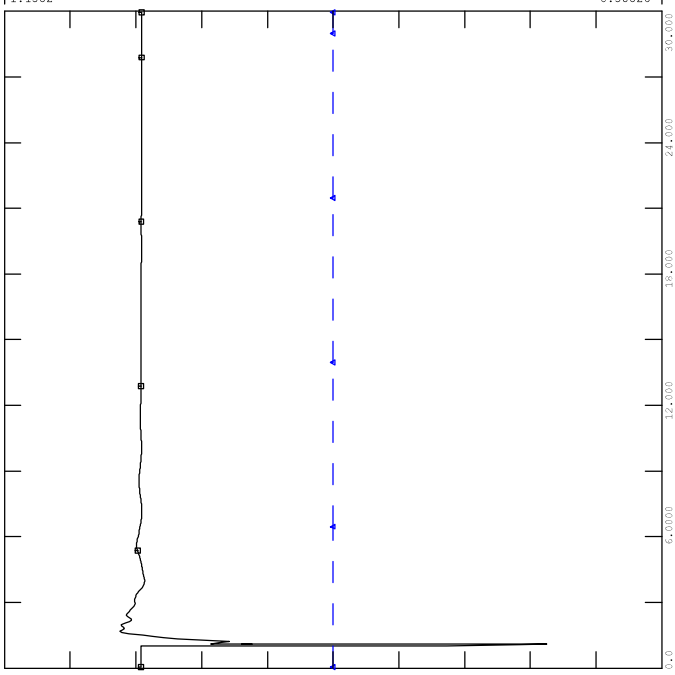


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1582 0.58820

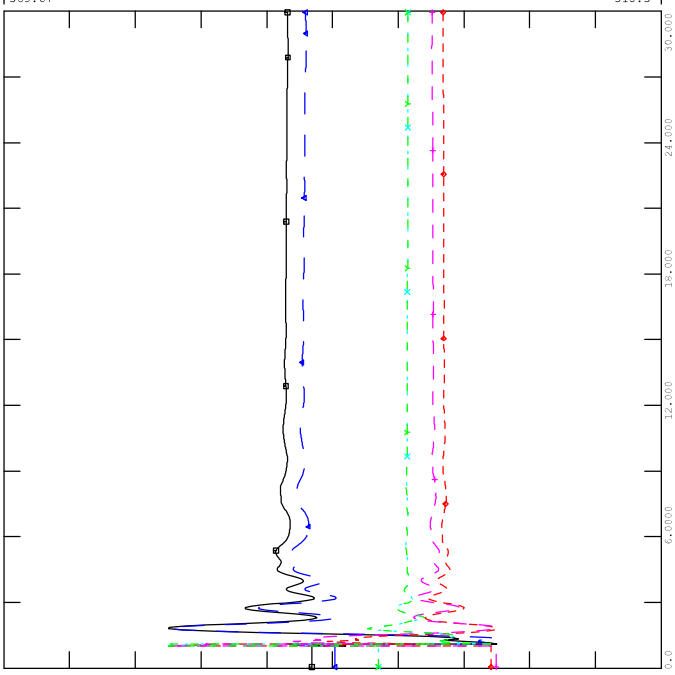


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 333: [1107L P]
139.02 -751.6
CHNL# 311: [1106L P]
139.02 -751.7
CHNL# 323: [1005L P]
62.014 -356.5
CHNL# 335: [1036L P]
55.902 -490.8
CHNL# 327: [935L P]
291.58 -275.0
CHNL# 315: [923L P]
369.67 -315.3

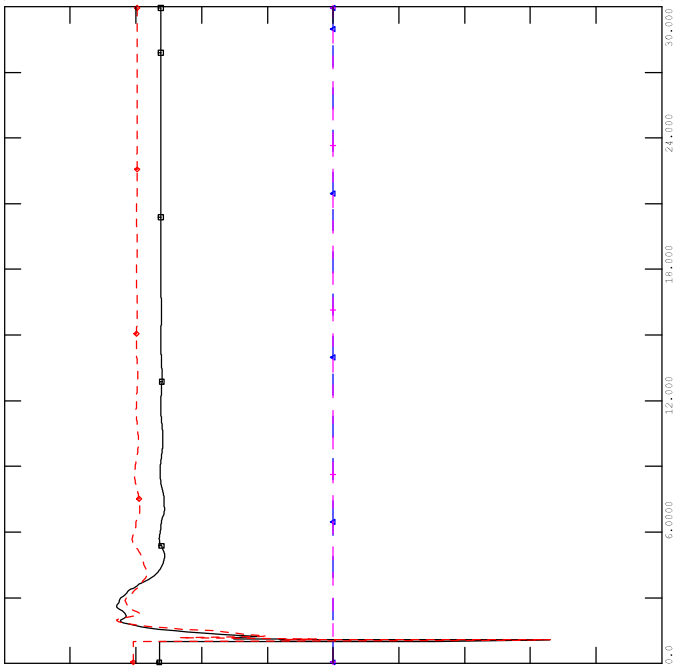


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:15 TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1150 0.52820
CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1680 0.58190

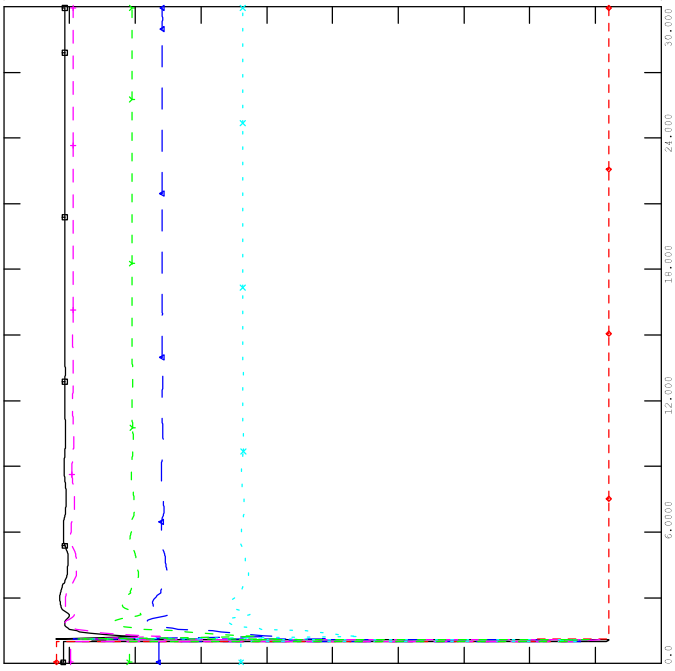


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

FILE: scn4_SL_A1_03_927L_Langdon.out

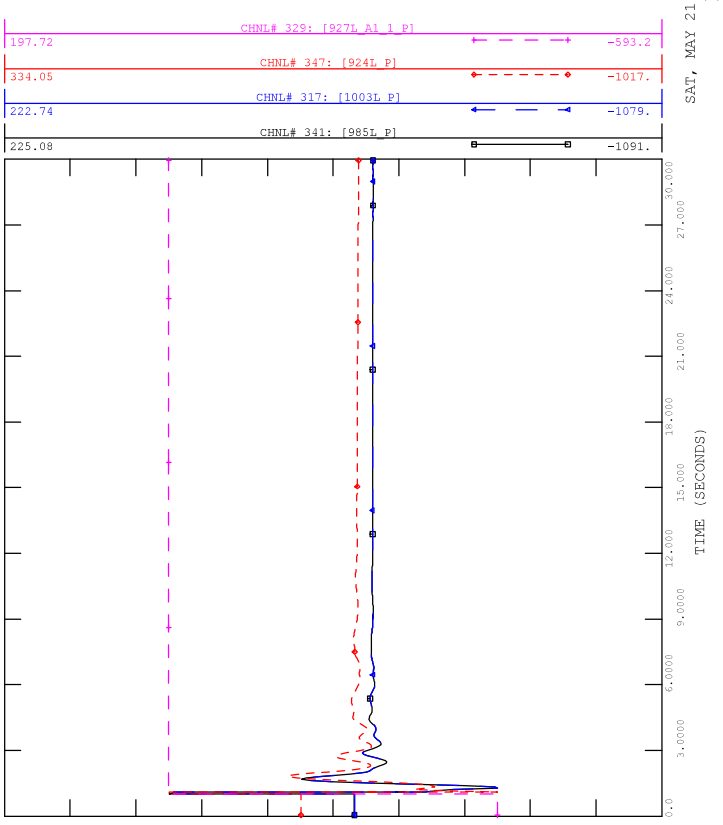
SAT, MAY 21 2022 1:15 BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.2145 0.29530
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3436 0.52780
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1685 0.09490
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1494 -0.1000
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2662 0.32060
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1679 -0.0921



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

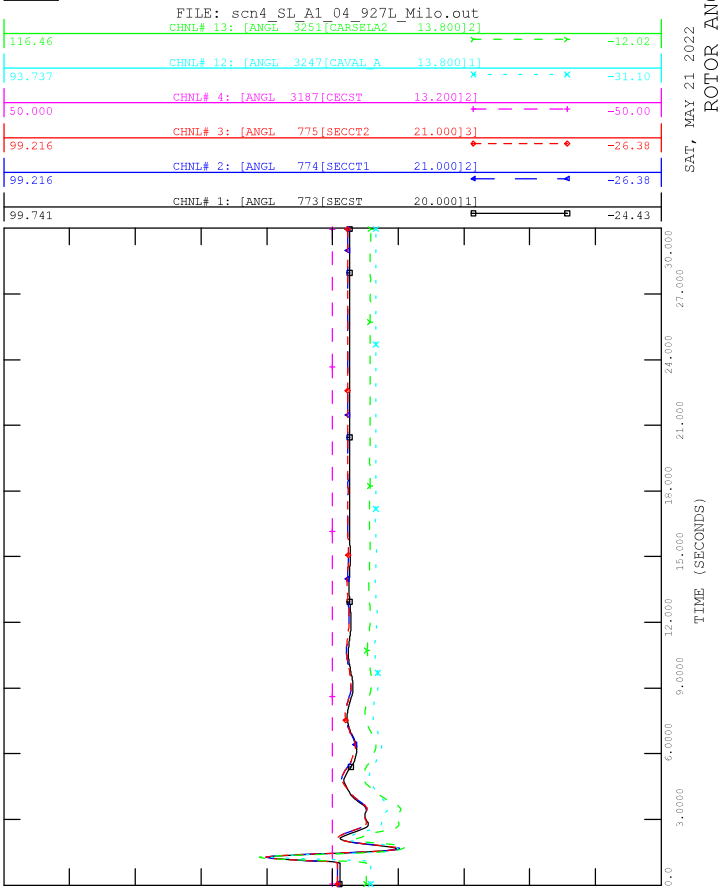
FILE: scn4_SL_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

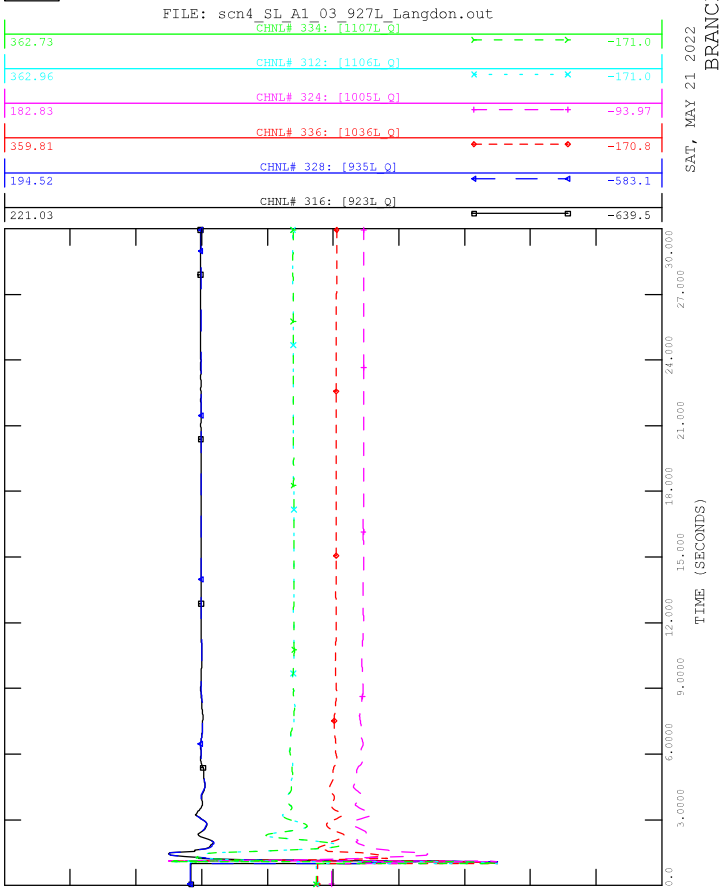
FILE: scn4_SL_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

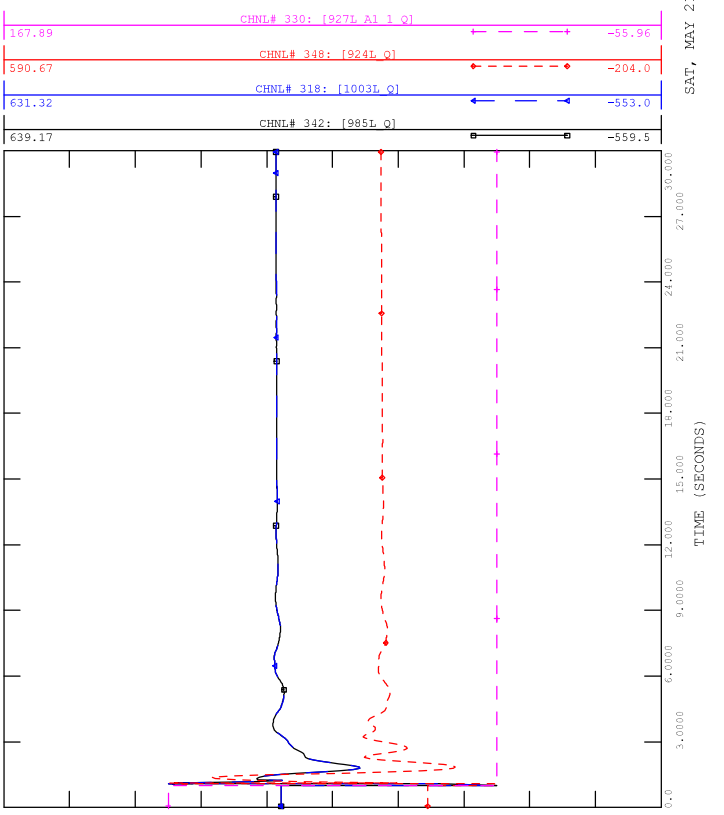
FILE: scn4_SL_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_03_927L_LANGDON

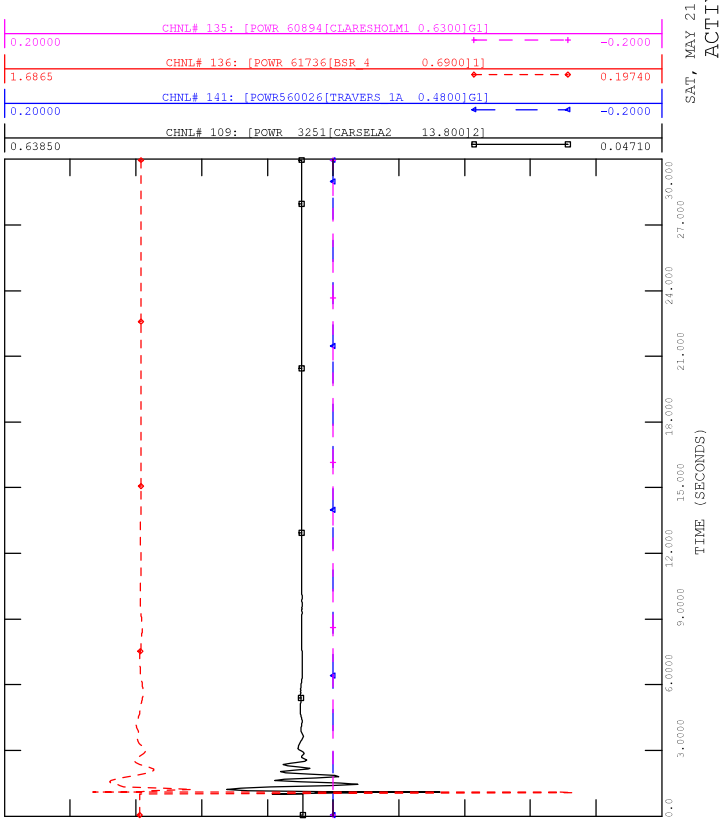
FILE: scn4_SL_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

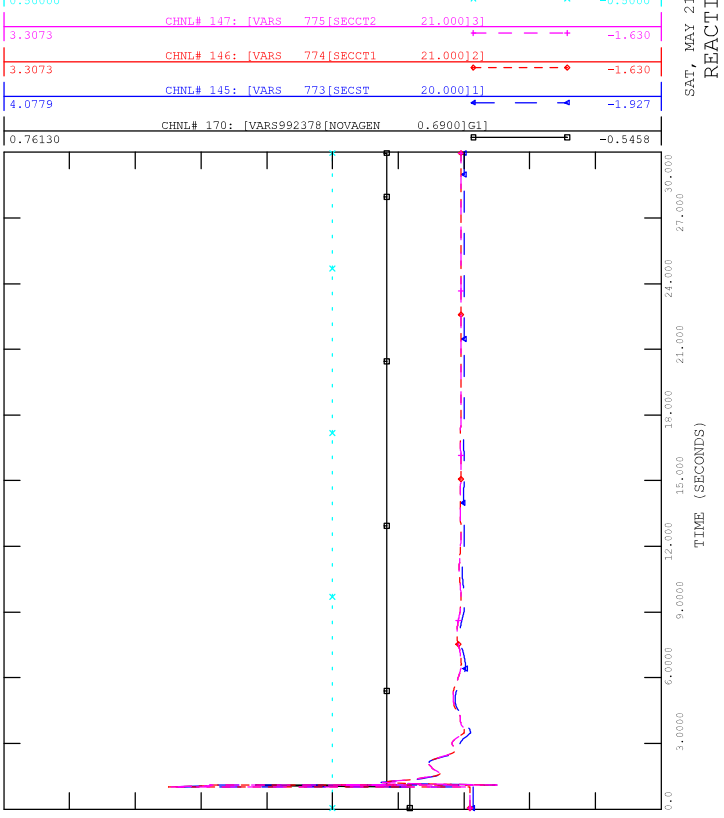
FILE: scn4_SL_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

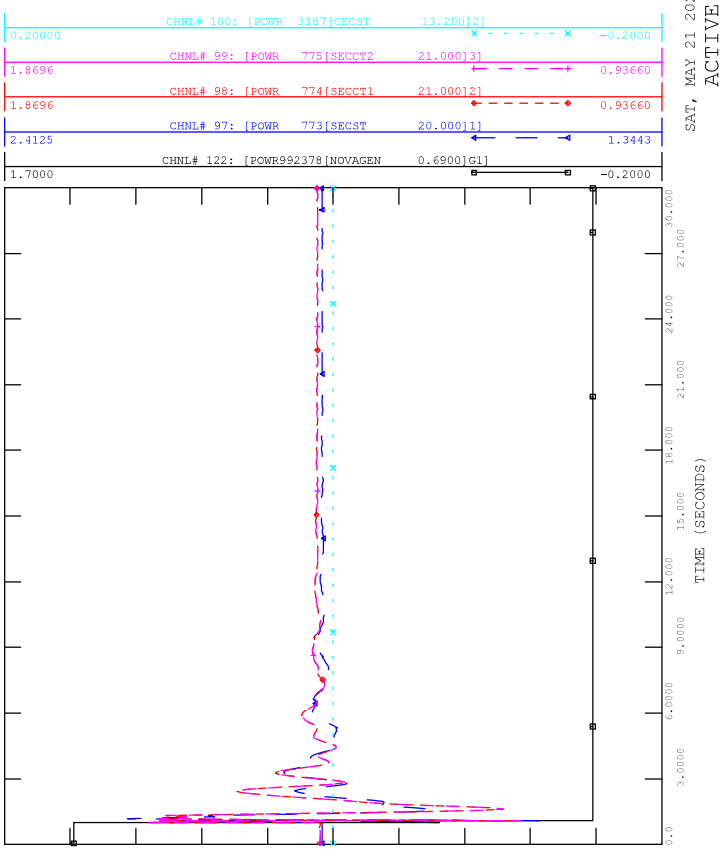
FILE: scn4_SL_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:15
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

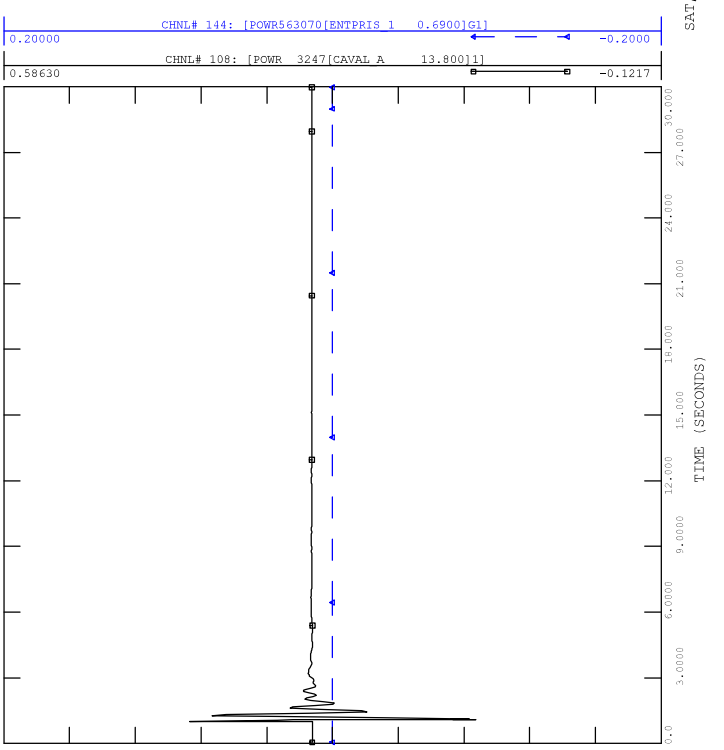
FILE: scn4_SL_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

FILE: scn4_SL_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

FILE: scn4_SL_A1_04_927L_Milo.out

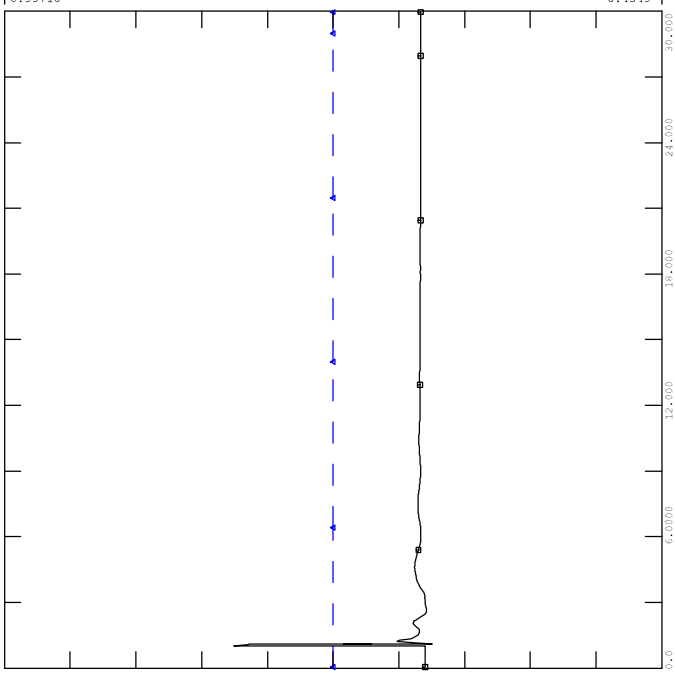
SAT, MAY 21 2022 1:15

REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1] 0.50000 -0.5000

CHNL# 156: [VARS 3247[CAVAL A 13.800]1] 0.99710 -0.4349

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

FILE: scn4_SL_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

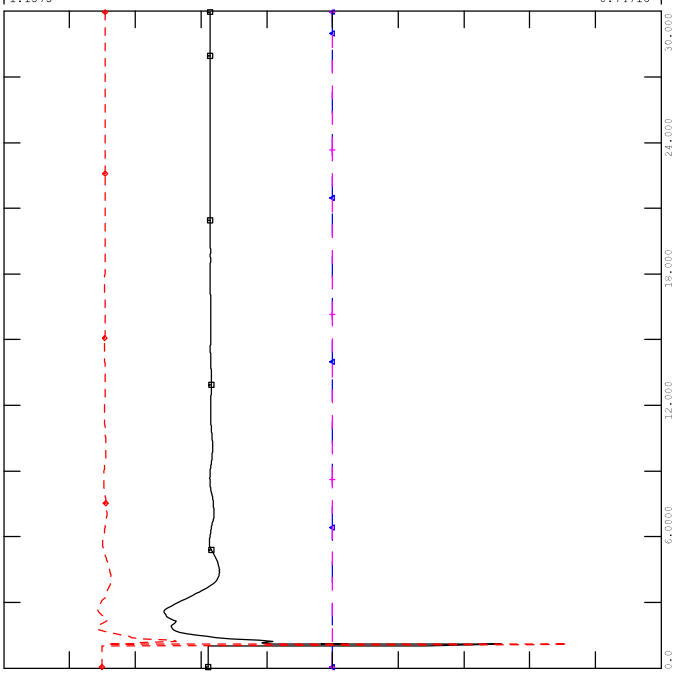
CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000

CHNL# 280: [ETRM 61736[BSR 4 0.6900]1] 1.1052 0.40020

CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000

CHNL# 253: [ETRM 3251[CARSELA2 13.800]2] 1.1575 0.74710

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

FILE: scn4_SL_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

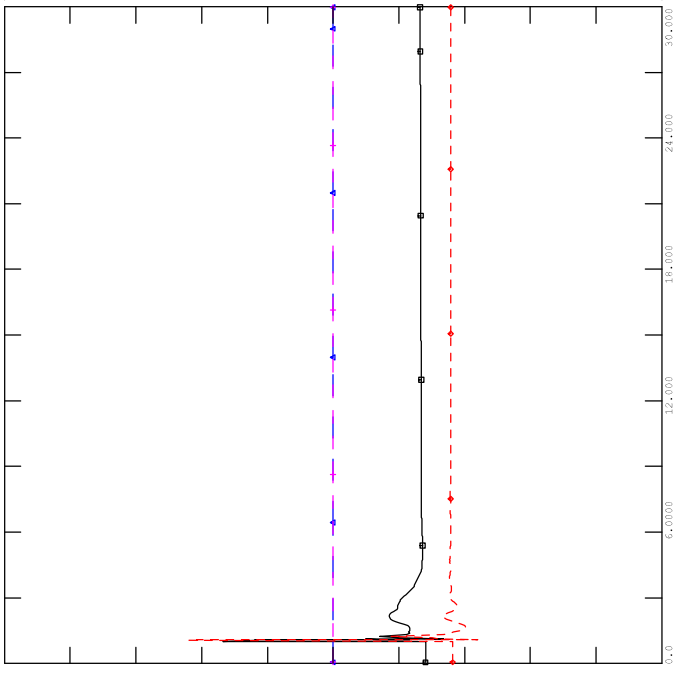
CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000

CHNL# 184: [VARS 61736[BSR 4 0.6900]1] 1.1685 -0.6153

CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000

CHNL# 157: [VARS 3251[CARSELA2 13.800]2] 0.99260 -0.5140

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

FILE: scn4_SL_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

CHNL# 244: [ETRM 3187[CECST 13.200]2] 0.10000 -0.1000

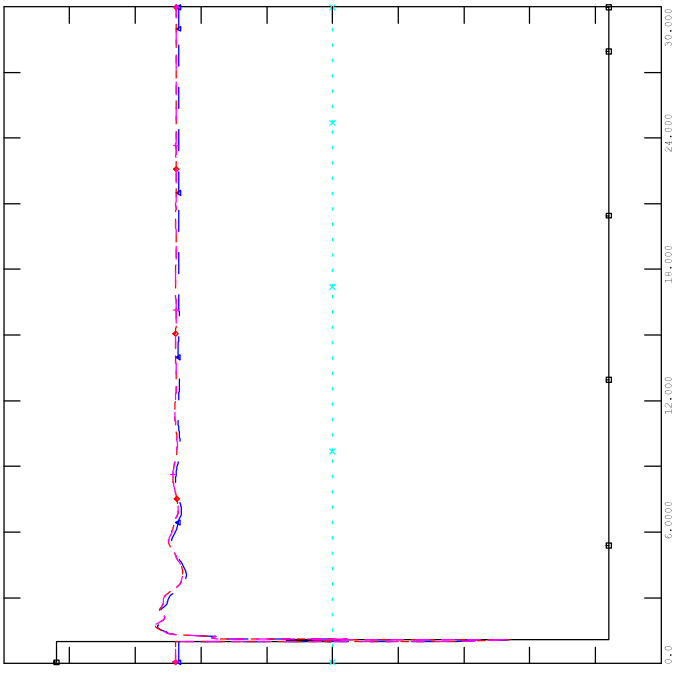
CHNL# 243: [ETRM 775[SECCT2 21.000]3] 1.1135 0.67930

CHNL# 242: [ETRM 774[SECCT1 21.000]2] 1.1135 0.67930

CHNL# 241: [ETRM 773[SECST 20.000]1] 1.1138 0.68600

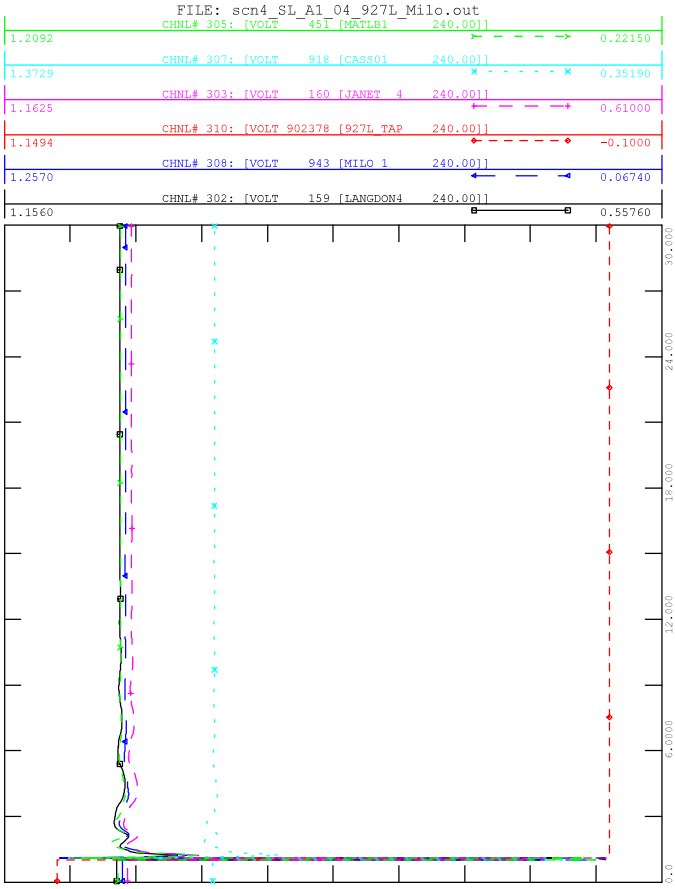
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1] 1.1500 -0.1000

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

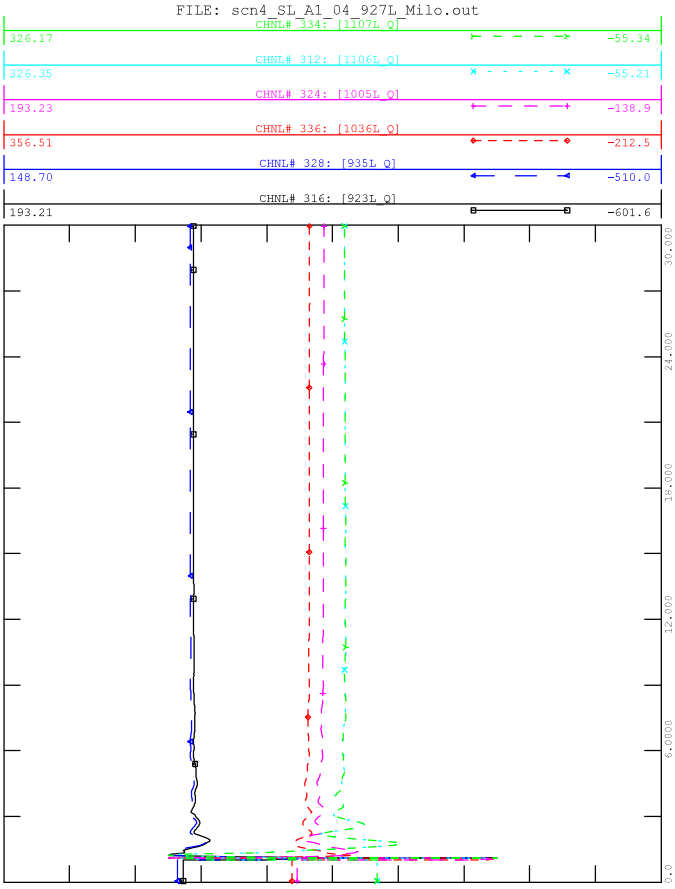
FILE: scn4_SL_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:15
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

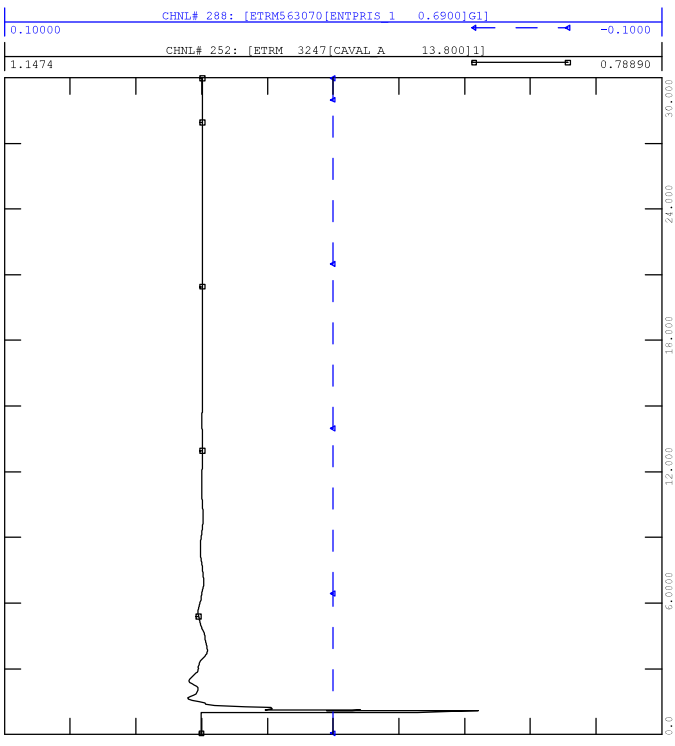
FILE: scn4_SL_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

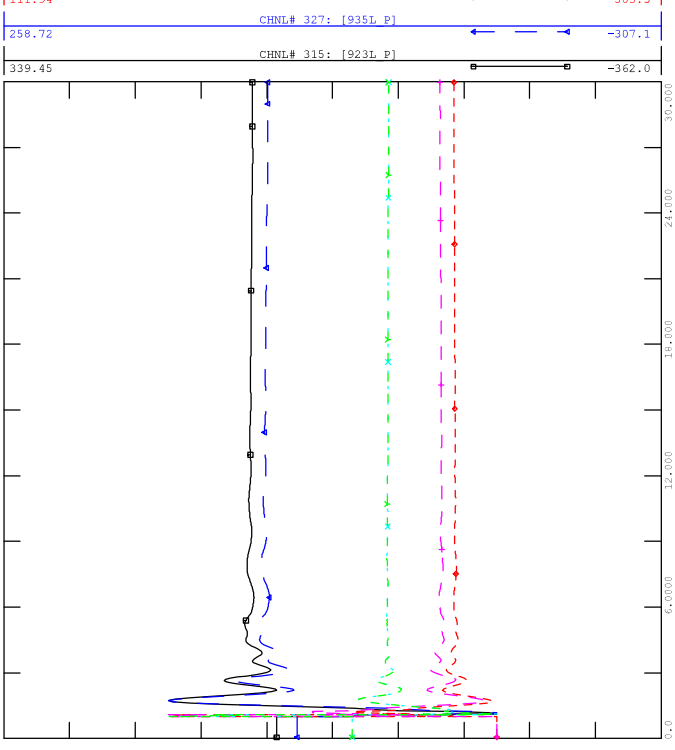
FILE: scn4_SL_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

FILE: scn4_SL_A1_04_927L_Milo.out



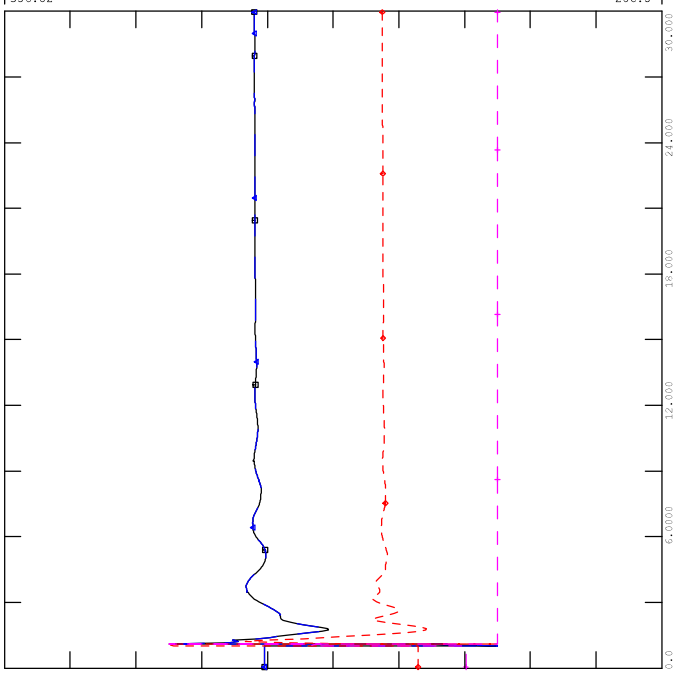
SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

FILE: scn4_SL_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:15 BRANCH Q

CHNL# 330: [927L A1 1 Q] 1738.2 -579.4
CHNL# 348: [924L Q] 731.41 -306.8
CHNL# 318: [1003L Q] 352.23 -204.3
CHNL# 342: [985L Q] 356.82 -206.5

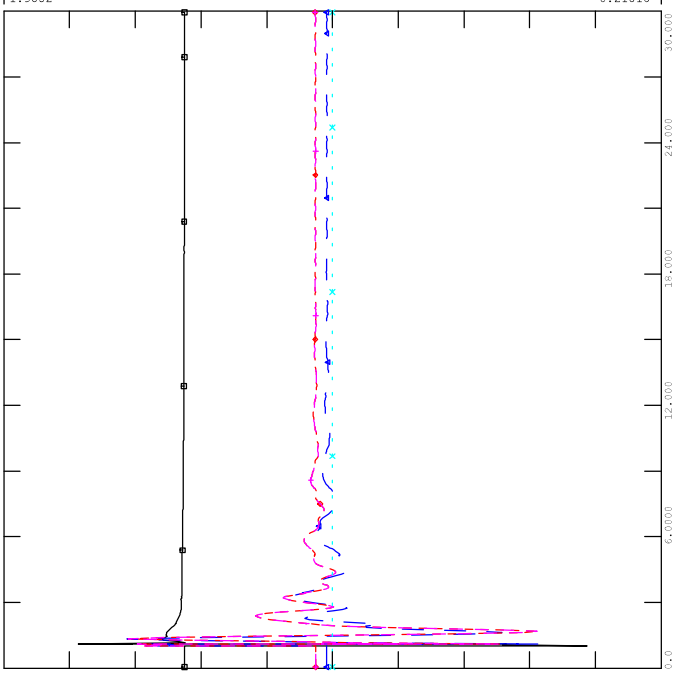


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3] 1.9235 0.86590
CHNL# 98: [POWR 774[SECCT1 21.000]2] 1.9235 0.86590
CHNL# 97: [POWR 773[SECST 20.000]1] 2.4217 1.3517
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1] 1.9852 0.21810

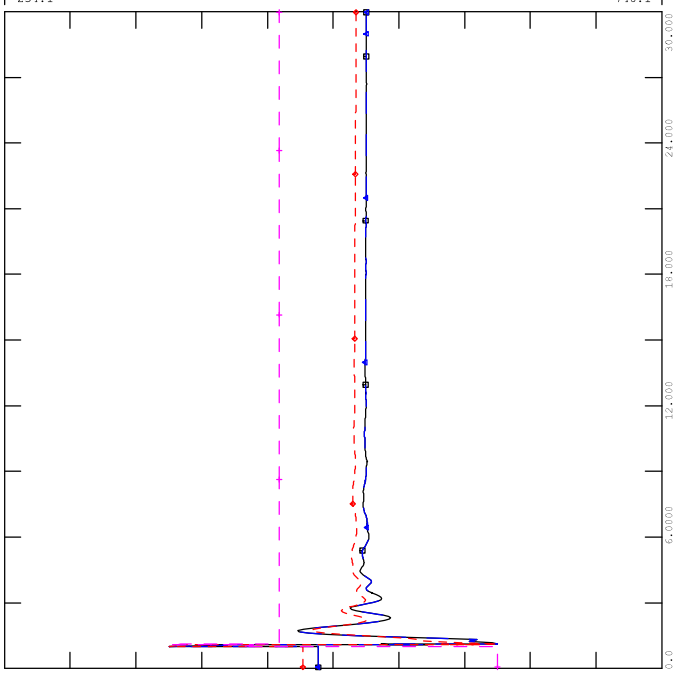


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_04_927L_MILO

FILE: scn4_SL_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 329: [927L A1 1 P] 498.12 -693.3
CHNL# 347: [924L P] 386.16 -1072.
CHNL# 317: [1003L P] -231.3 -731.8
CHNL# 341: [985L P] -234.1 -740.1

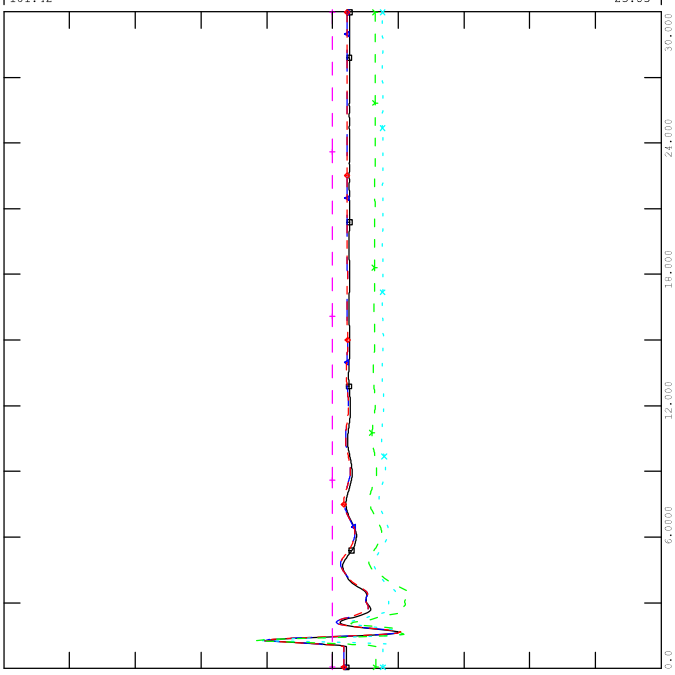


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15 ROTOR ANGLE

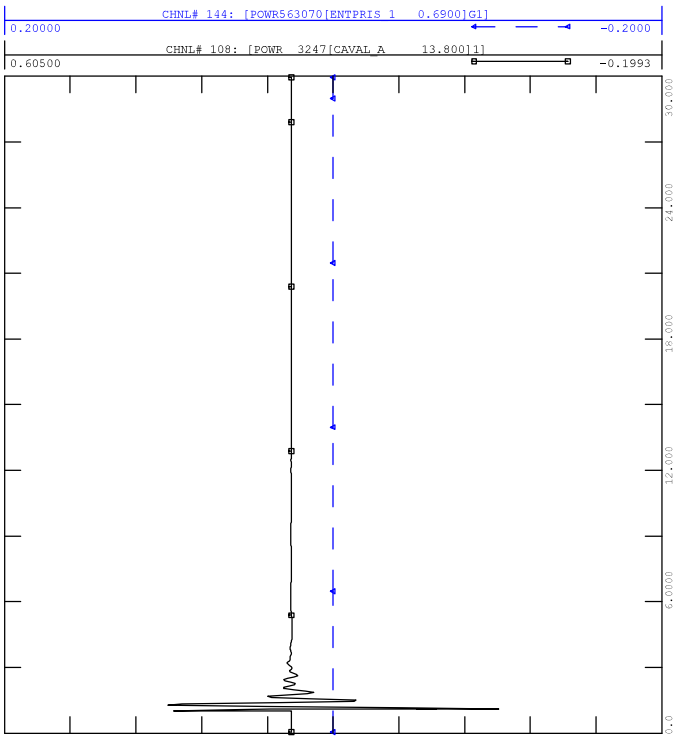
CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2] 119.63 -11.15
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 97.299 -29.70
CHNL# 4: [ANGL 3187[CECST 13.200]2] 50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 100.64 -25.47
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 100.64 -25.47
CHNL# 1: [ANGL 773[SECST 20.000]1] 101.42 -23.53



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

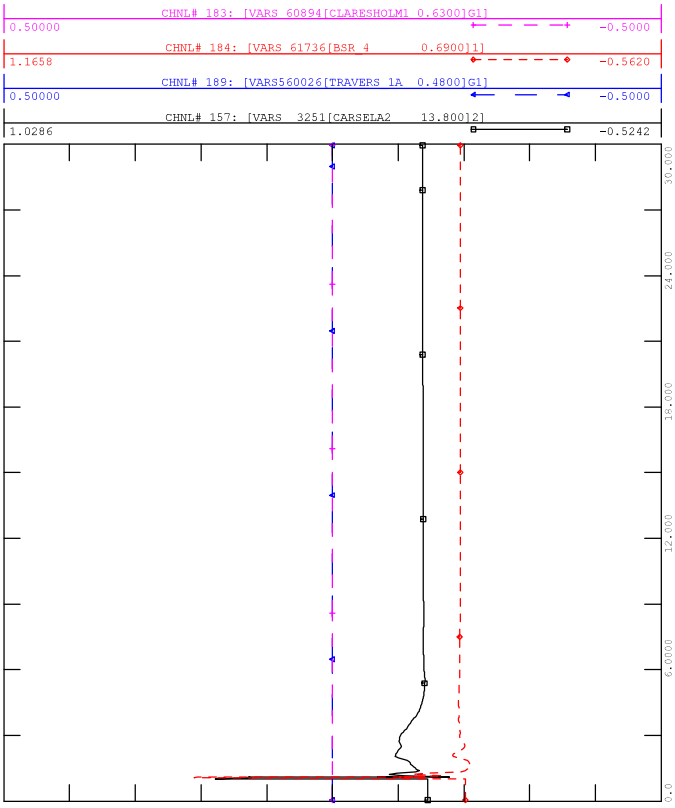
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

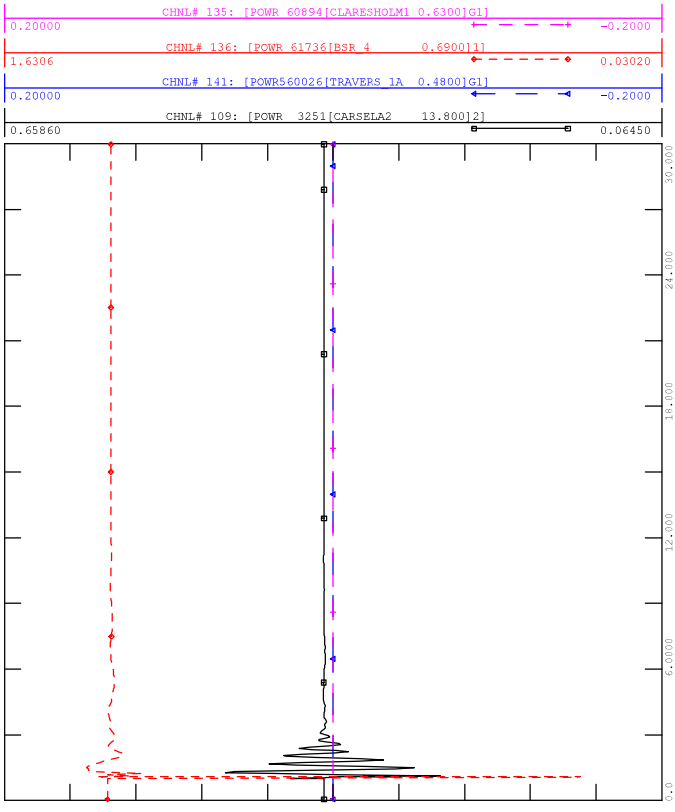
SAT, MAY 21 2022 1:15 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

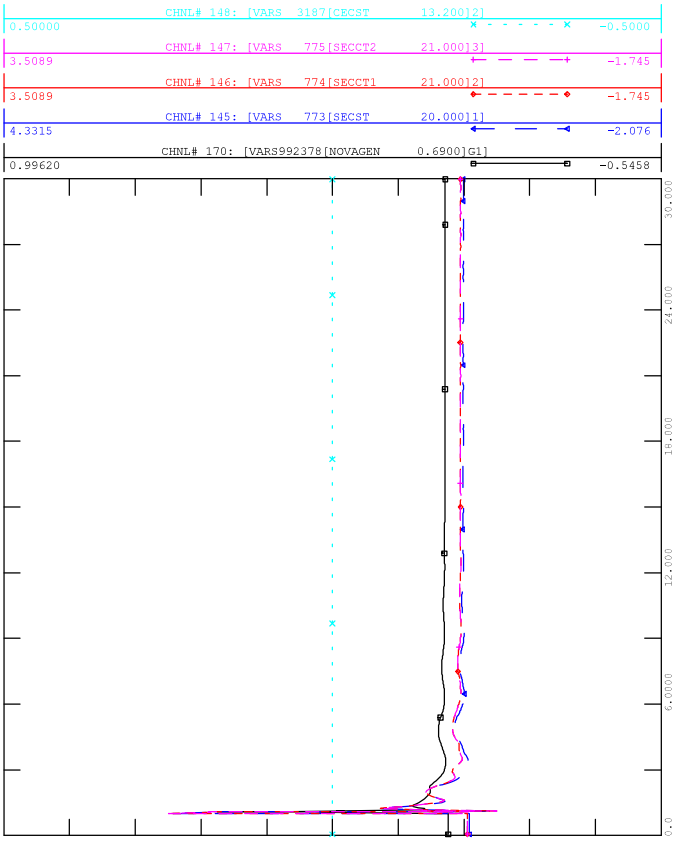
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

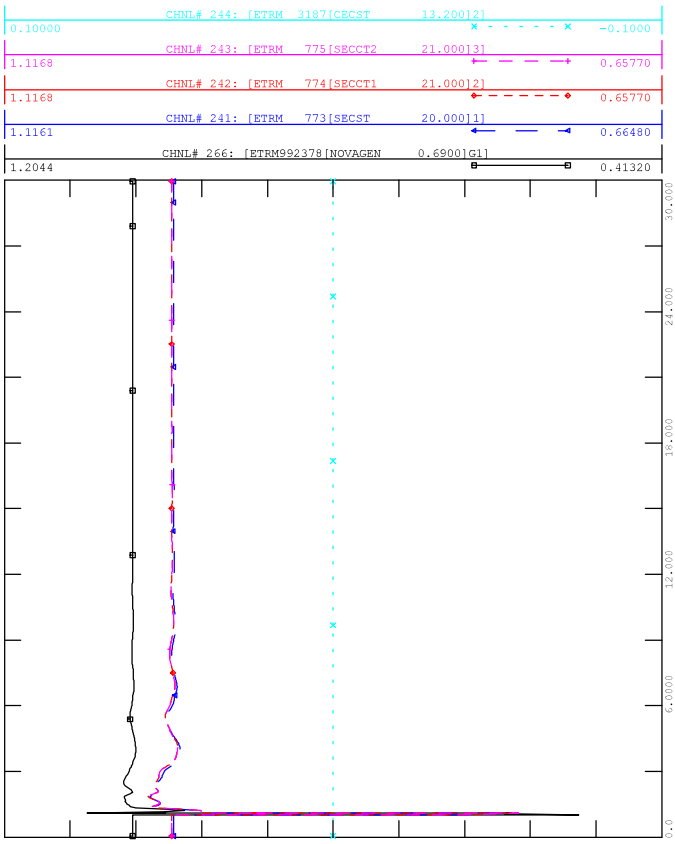


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

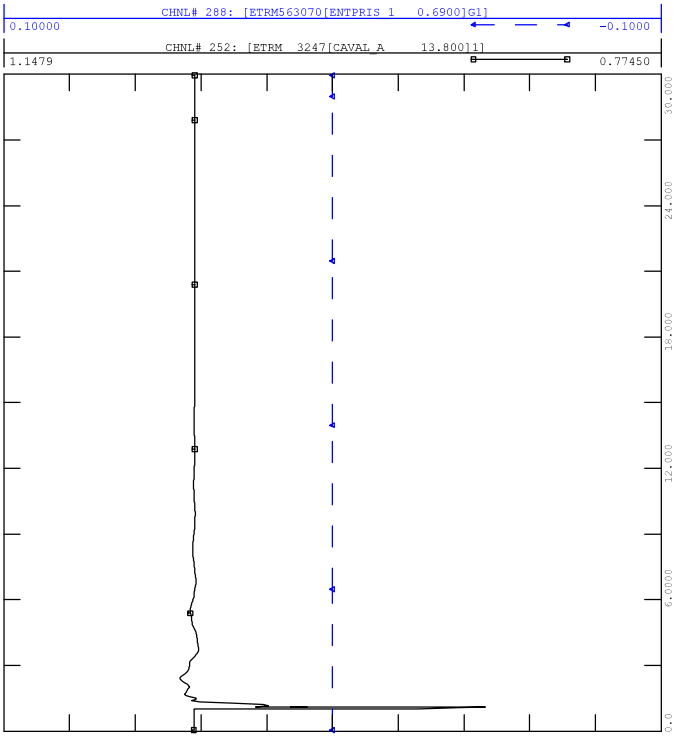


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

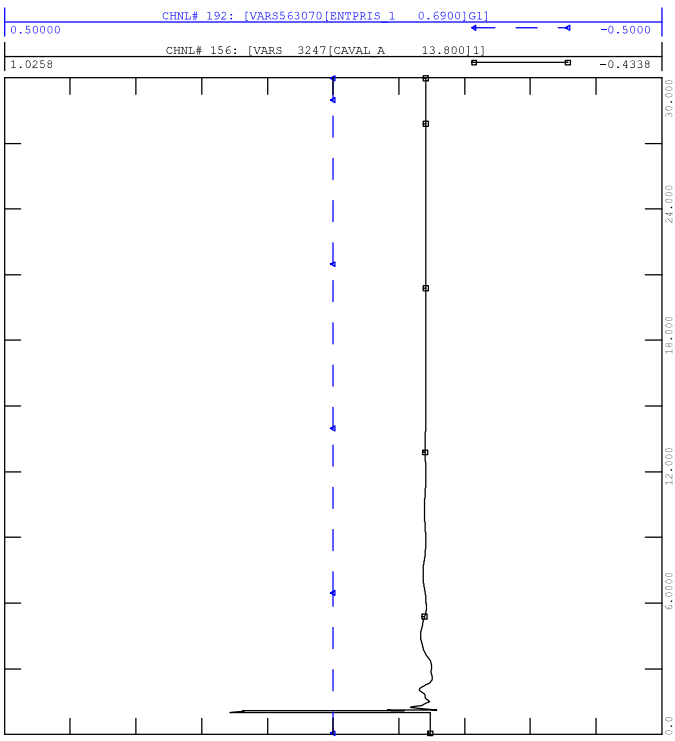


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

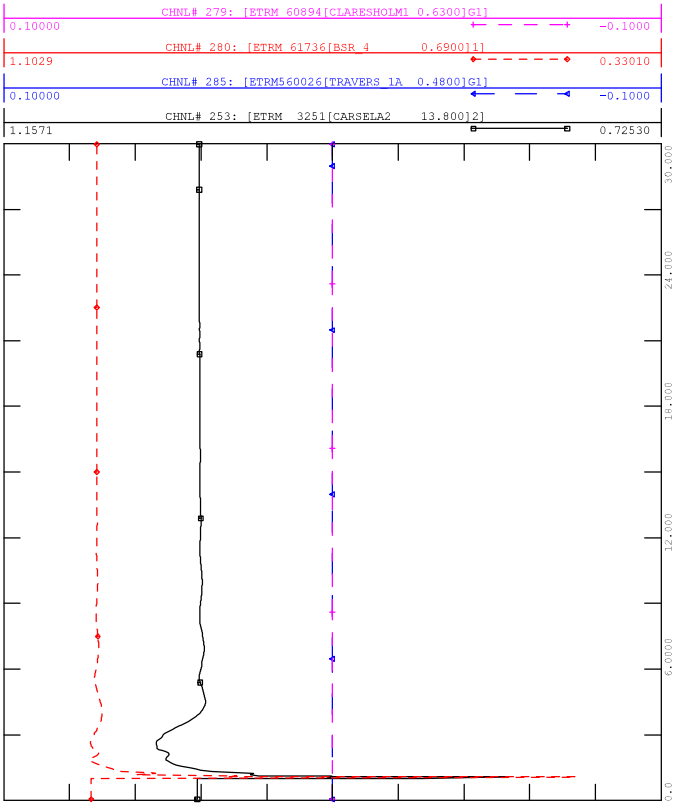


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 333: [1107L P]
27.931 -669.5
CHNL# 311: [1106L P]
28.005 -669.6
CHNL# 323: [1005L P]
125.66 -377.0
CHNL# 335: [1036L P]
241.70 -740.0
CHNL# 327: [935L P]
247.75 -485.2
CHNL# 315: [923L P]
332.83 -557.3

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15 BRANCH P

CHNL# 329: [927L_A1_1 P]
389.03 -974.2
CHNL# 347: [924L P]
386.55 -783.7
CHNL# 317: [1003L P]
-226.7 -708.2
CHNL# 341: [985L P]
-229.4 -716.3

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:15 BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1567 0.12110
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.2856 0.23510
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1643 0.57900
CHNL# 310: [VOLT 902378 [927L_TAP 240.00]]
1.1585 0.41960
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2117 -0.0894
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1585 0.52700

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

FILE: scn4_SL_A1_05_1005L_Milo.out

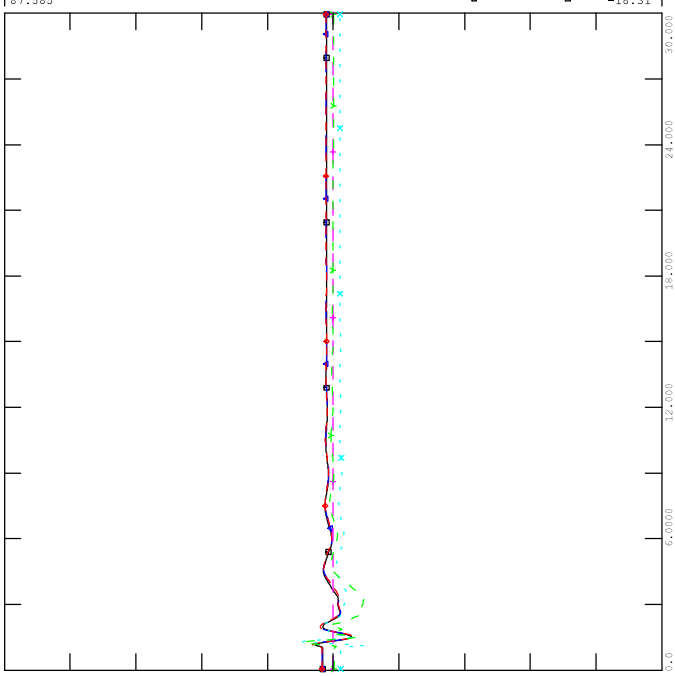
SAT, MAY 21 2022 1:15 BRANCH Q

CHNL# 334: [1107L Q]
407.52 10.373
CHNL# 312: [1106L Q]
407.68 10.477
CHNL# 324: [1005L Q]
85.085 -40.00
CHNL# 336: [1036L Q]
862.17 -296.8
CHNL# 328: [935L Q]
182.50 -438.2
CHNL# 316: [923L Q]
219.32 -512.8

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

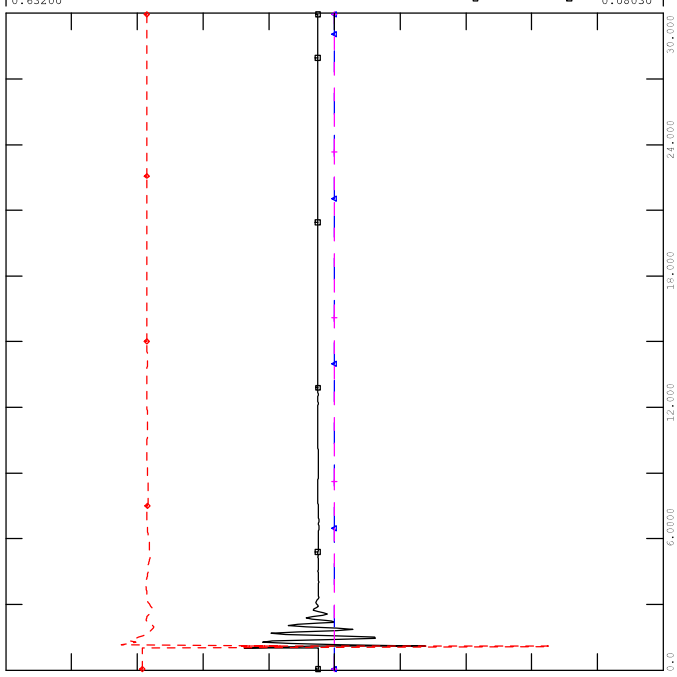
FILE: scn4_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

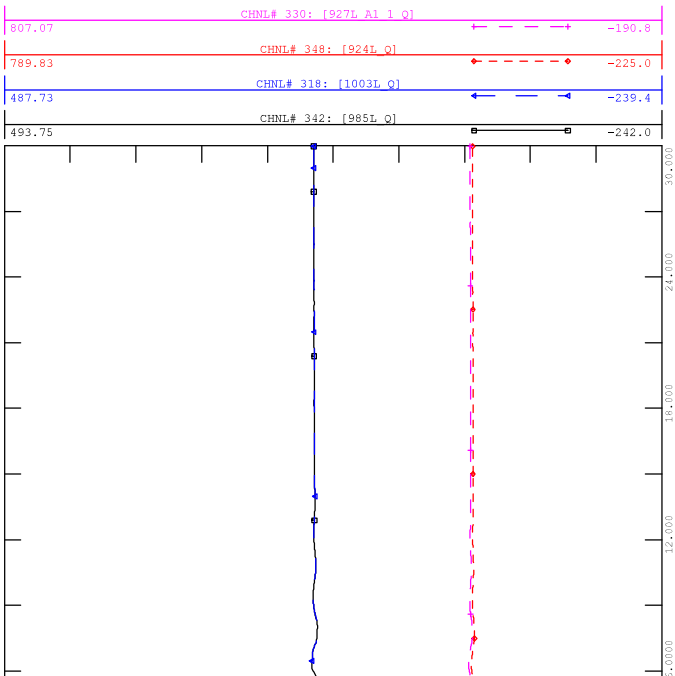
FILE: scn4_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_05_1005L_MILO

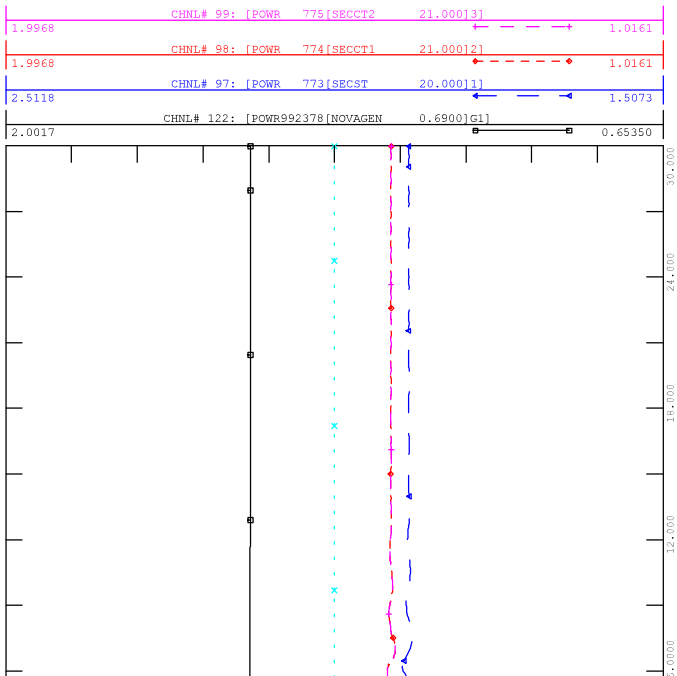
FILE: scn4_SL_A1_05_1005L_Milo.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A1_06_1005L_PictureButte.out

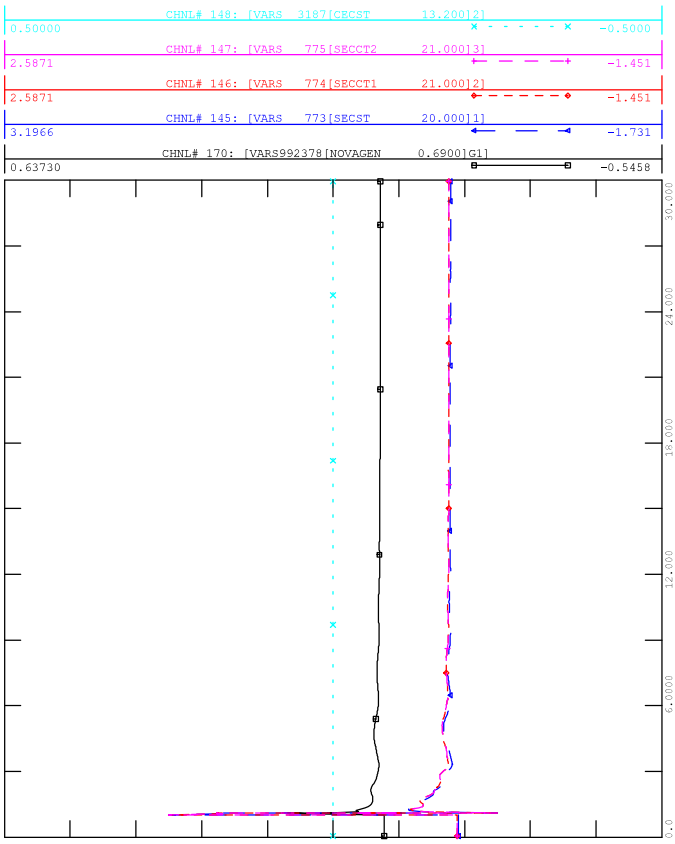


SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A1_06_1005L_PictureButte.out

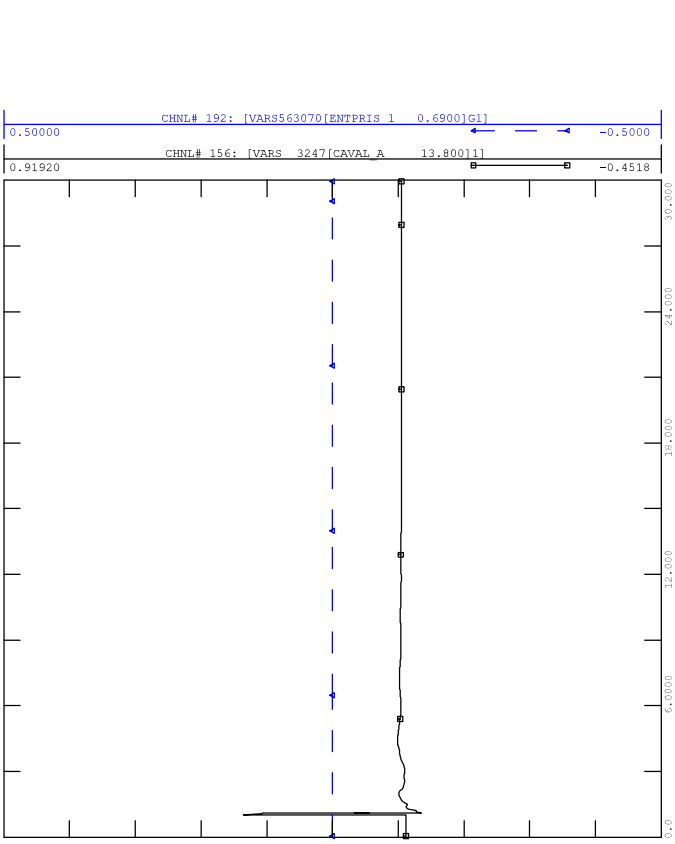
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A1_06_1005L_PictureButte.out

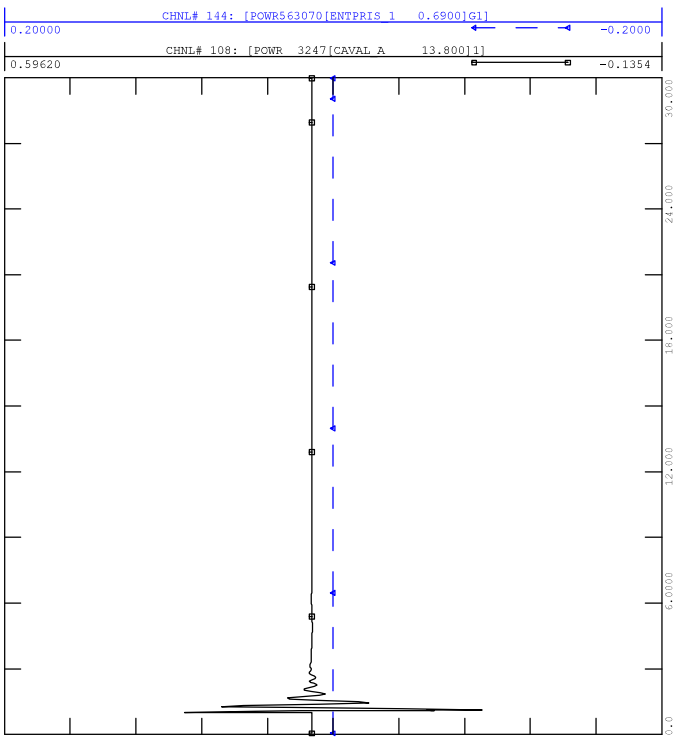
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A1_06_1005L_PictureButte.out

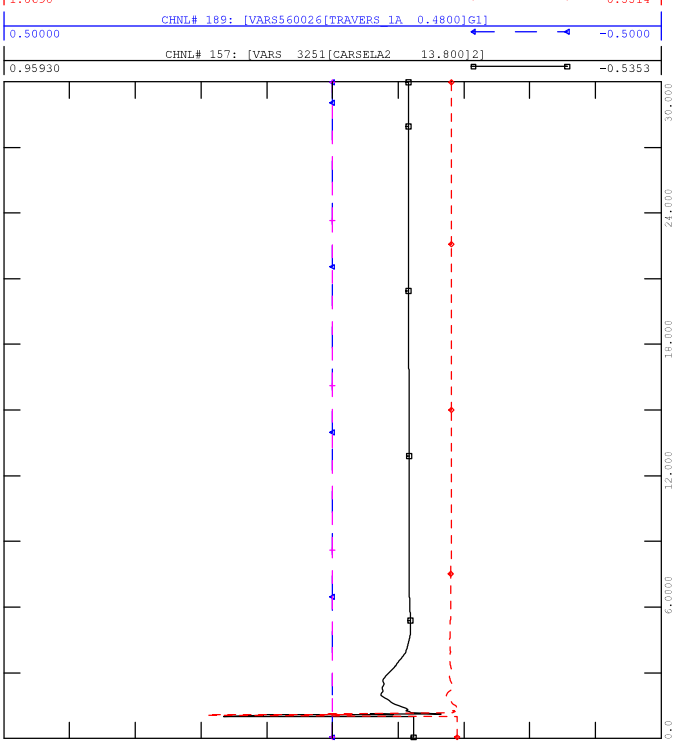
SAT, MAY 21 2022 1:15
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

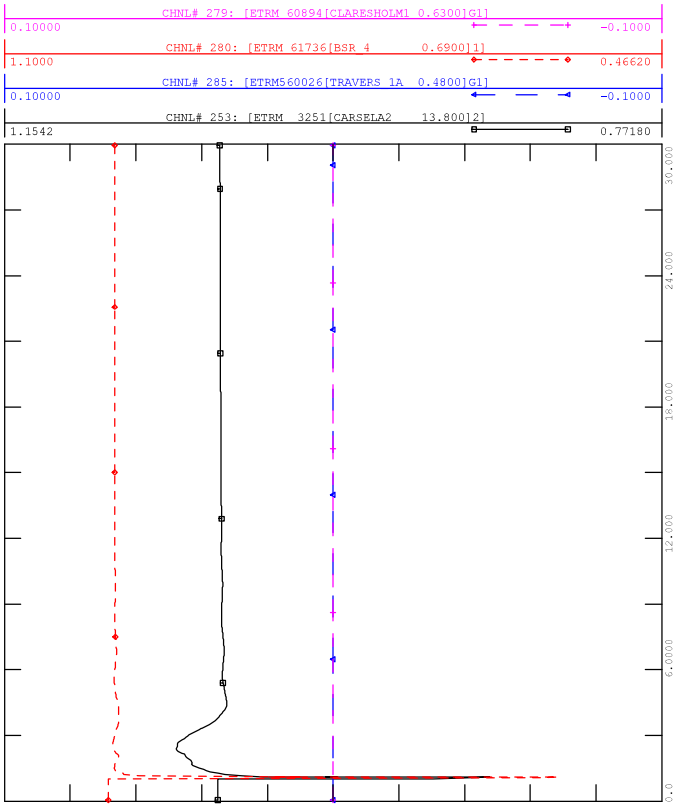
FILE: scn4_SL_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

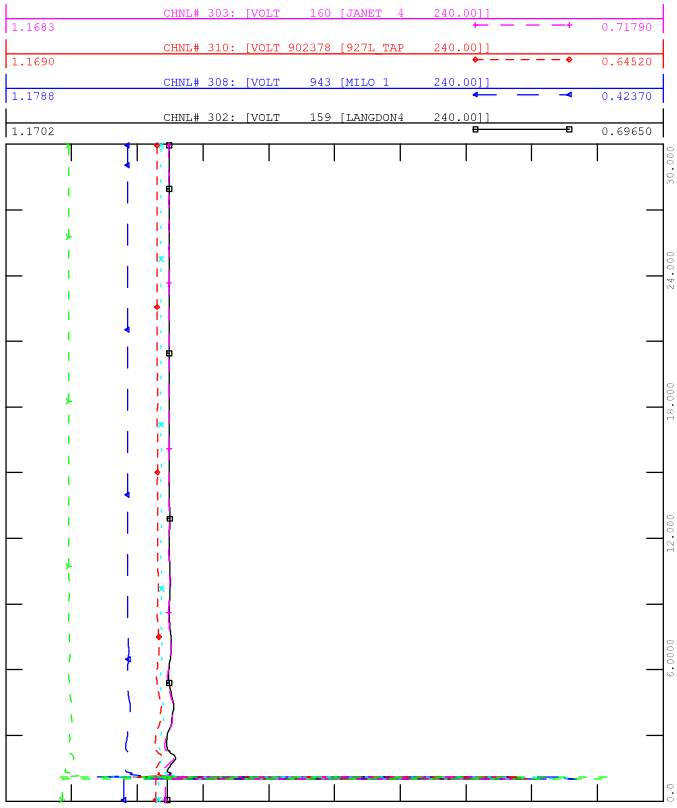
FILE: scn4_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

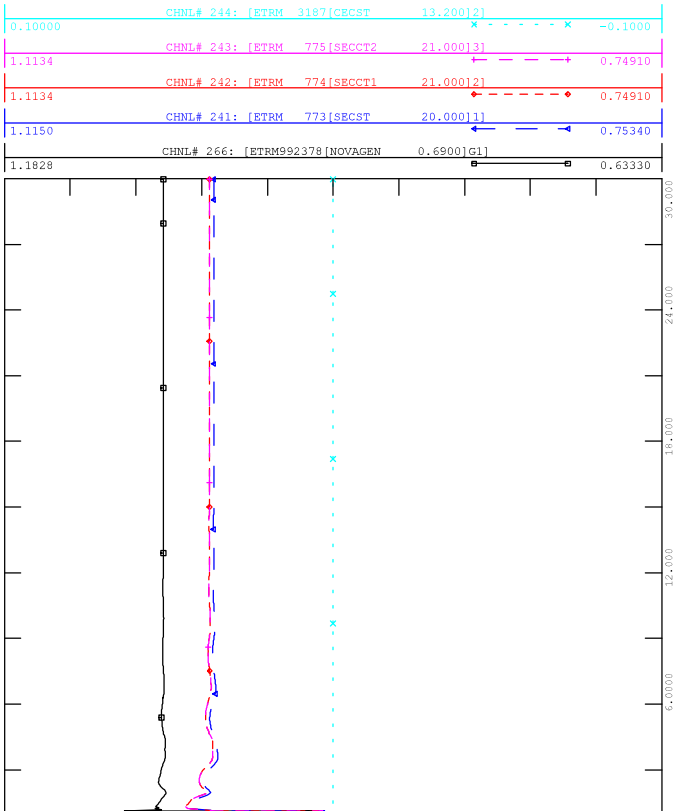
FILE: scn4_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

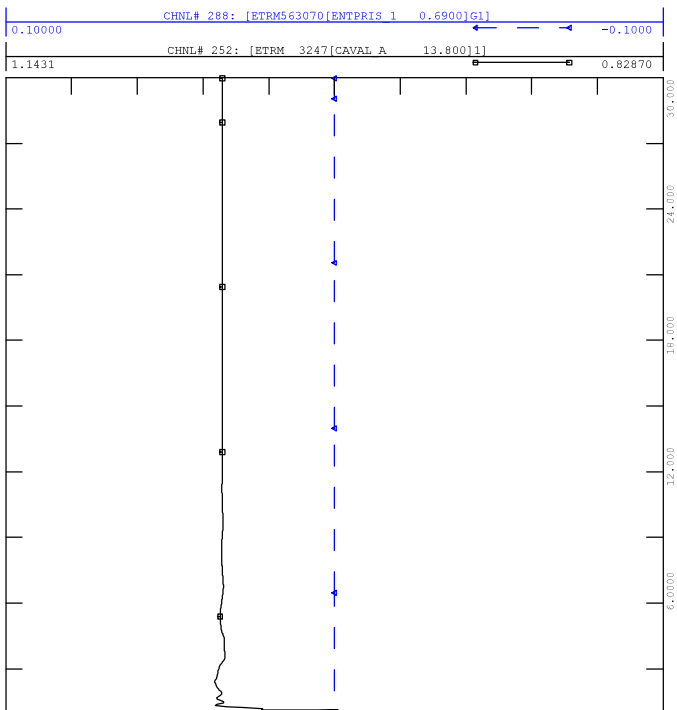
FILE: scn4_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

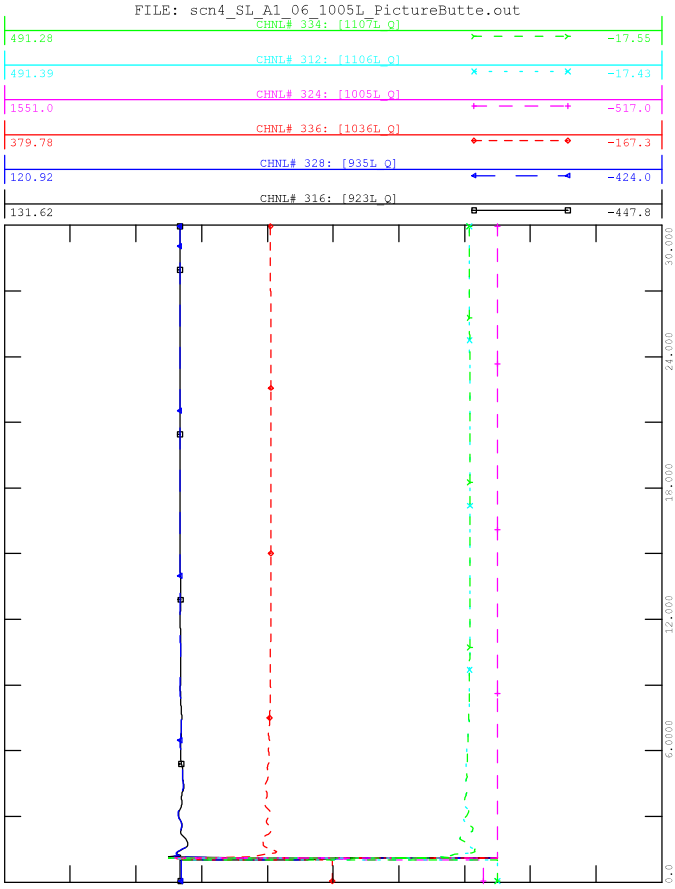
FILE: scn4_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

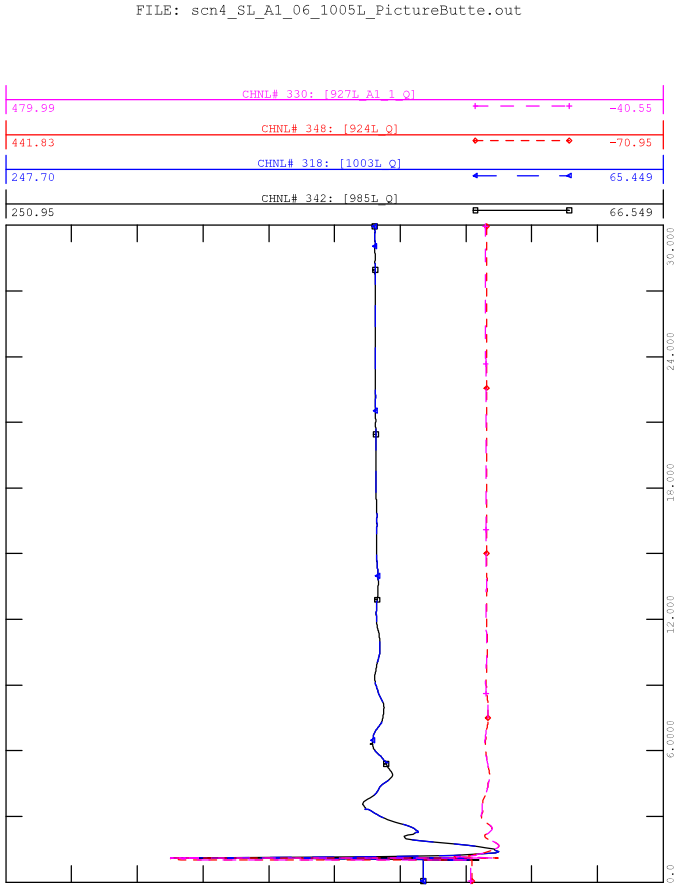
FILE: scn4_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

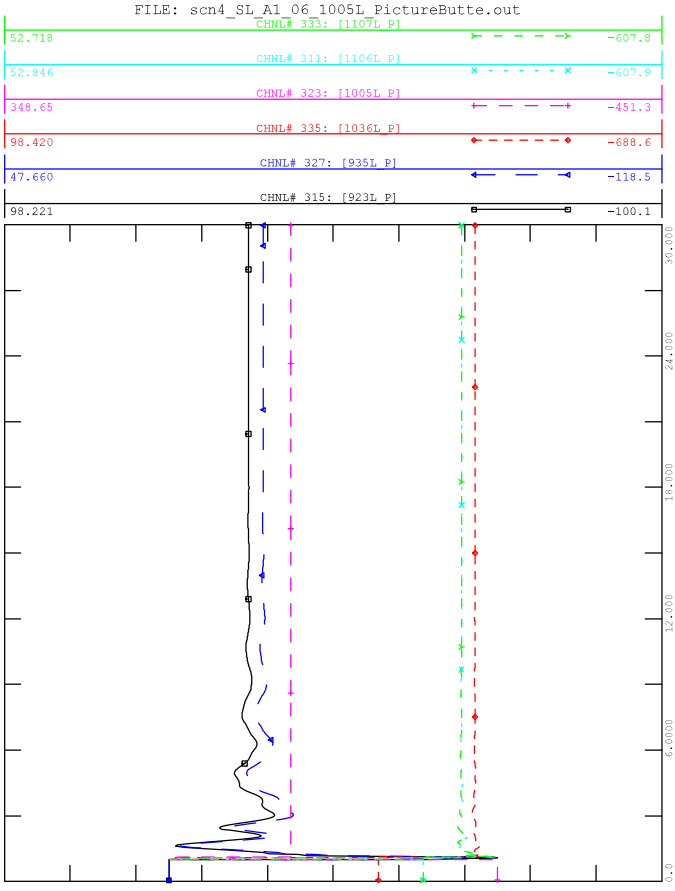
FILE: scn4_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

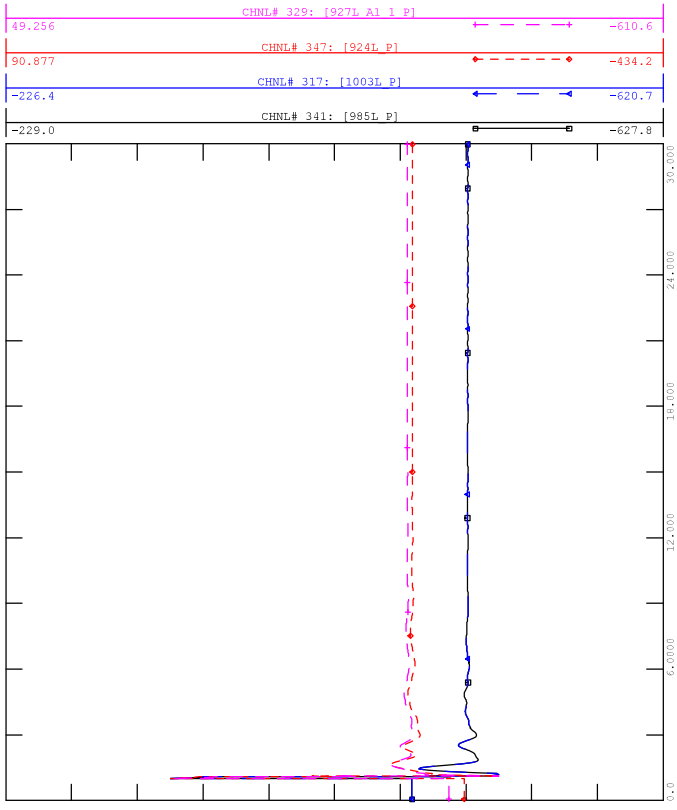
FILE: scn4_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A1_06_1005L_PictureButte.out



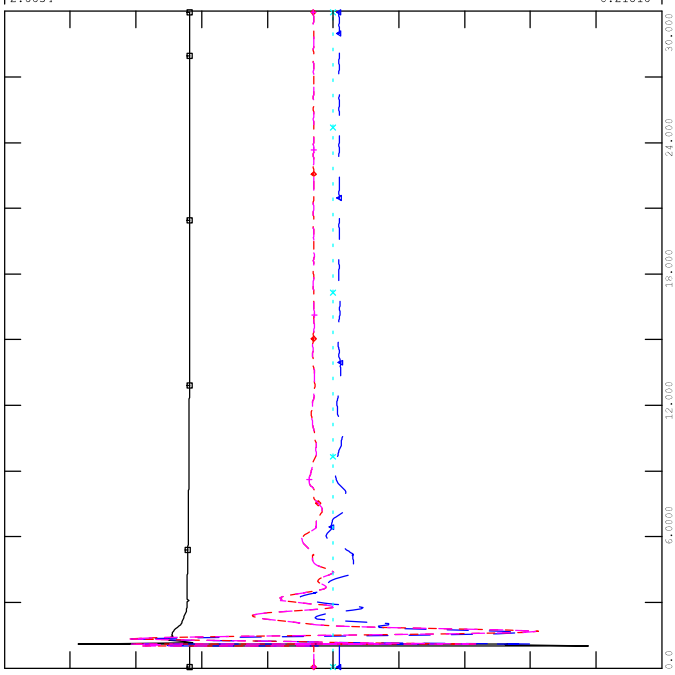
SAT, MAY 21 2022 1:15
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO

FILE: scn4_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3]
1.9236 0.85830
CHNL# 98: [POWR 774[SECCT1 21.000]2]
1.9236 0.85830
CHNL# 97: [POWR 773[SECST 20.000]1]
2.4229 1.3882
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
2.0034 0.21810

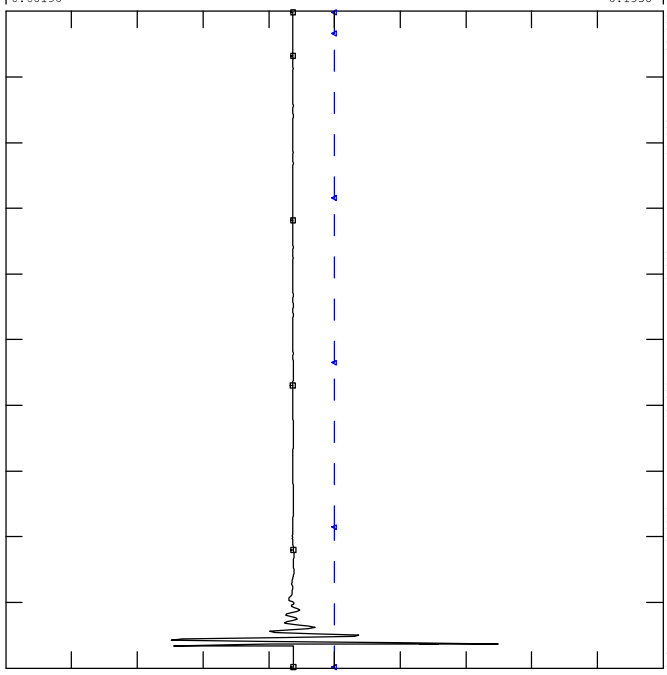


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO

FILE: scn4_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 144: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 108: [POWR 3247[CAVAL A 13.800]1]
0.60190 -0.1938

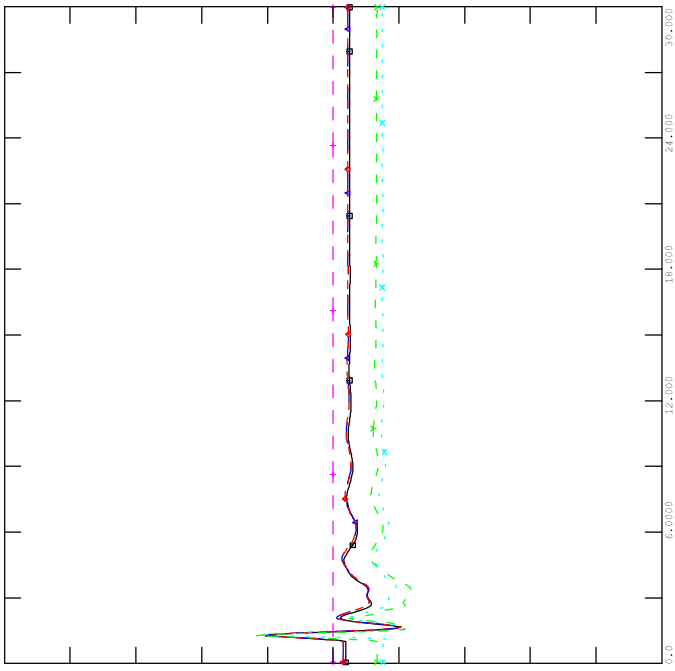


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO

FILE: scn4_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
119.89 -11.17
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
97.177 -29.84
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
100.48 -25.72
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
100.48 -25.72
CHNL# 1: [ANGL 773[SECST 20.000]1]
101.24 -23.79

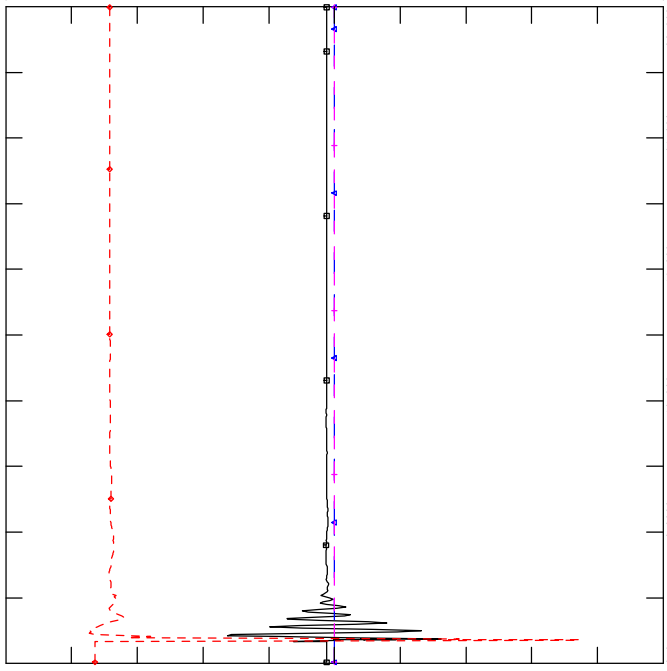


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO

FILE: scn4_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15 ACTIVE POWER

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.5931 0.01970
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.65910 0.06650

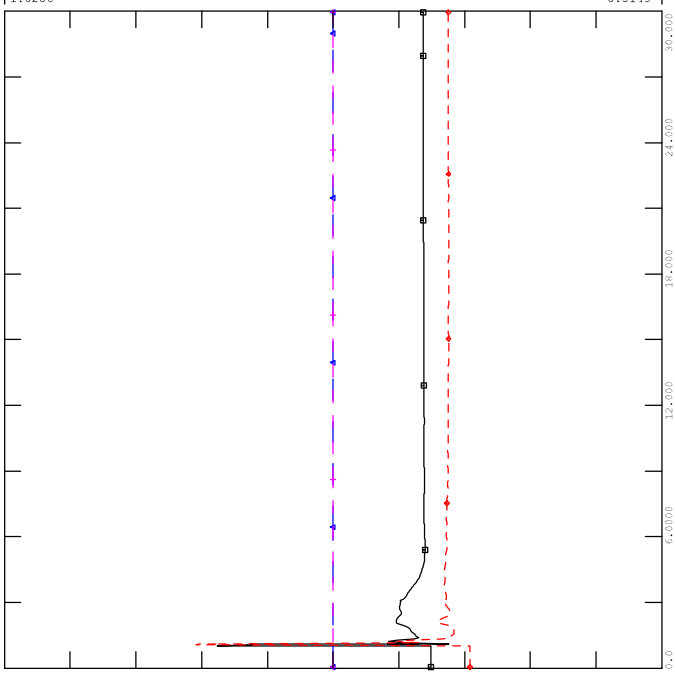


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO

FILE: scn4_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 184: [VARS 61736[BSR 4 0.6900]1]
1.1654 -0.5481
CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 157: [VARS 3251[CARSELA2 13.800]2]
1.0286 -0.5149

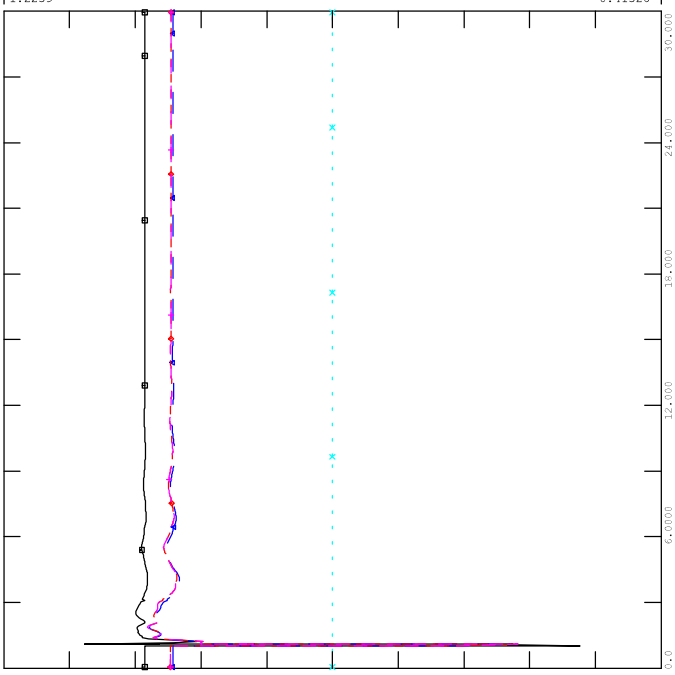


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO

FILE: scn4_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

CHNL# 244: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1165 0.65750
CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1165 0.65750
CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1159 0.66460
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.2239 0.41320

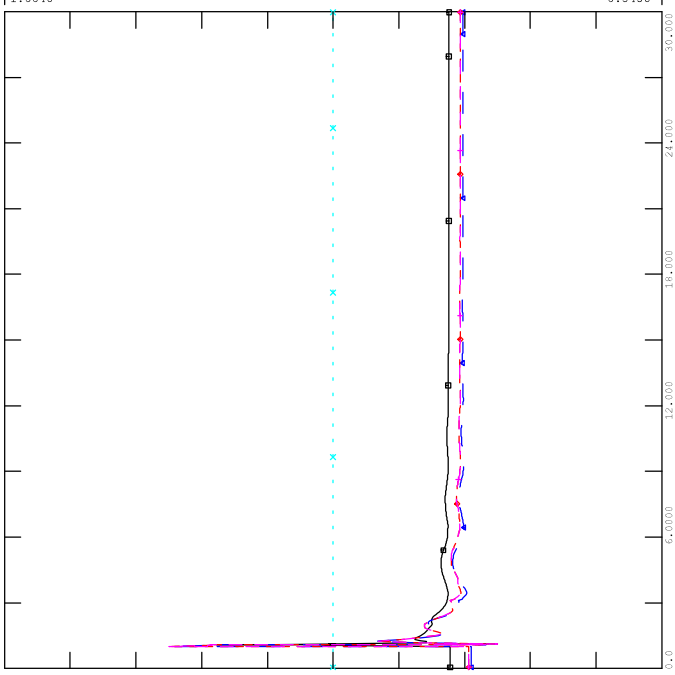


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO

FILE: scn4_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

CHNL# 148: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 147: [VARS 775[SECCT2 21.000]3]
3.5042 -1.731
CHNL# 146: [VARS 774[SECCT1 21.000]2]
3.5042 -1.731
CHNL# 145: [VARS 773[SECST 20.000]1]
4.3258 -2.059
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1]
1.0048 -0.5458

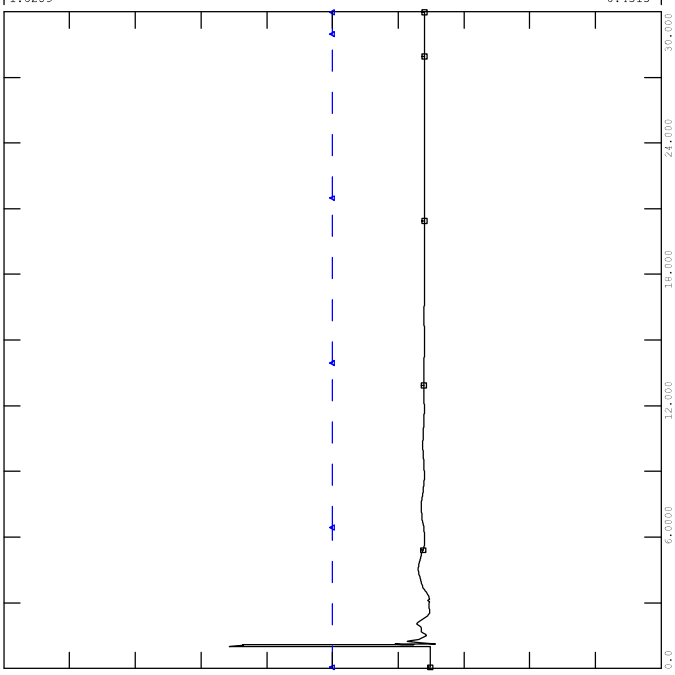


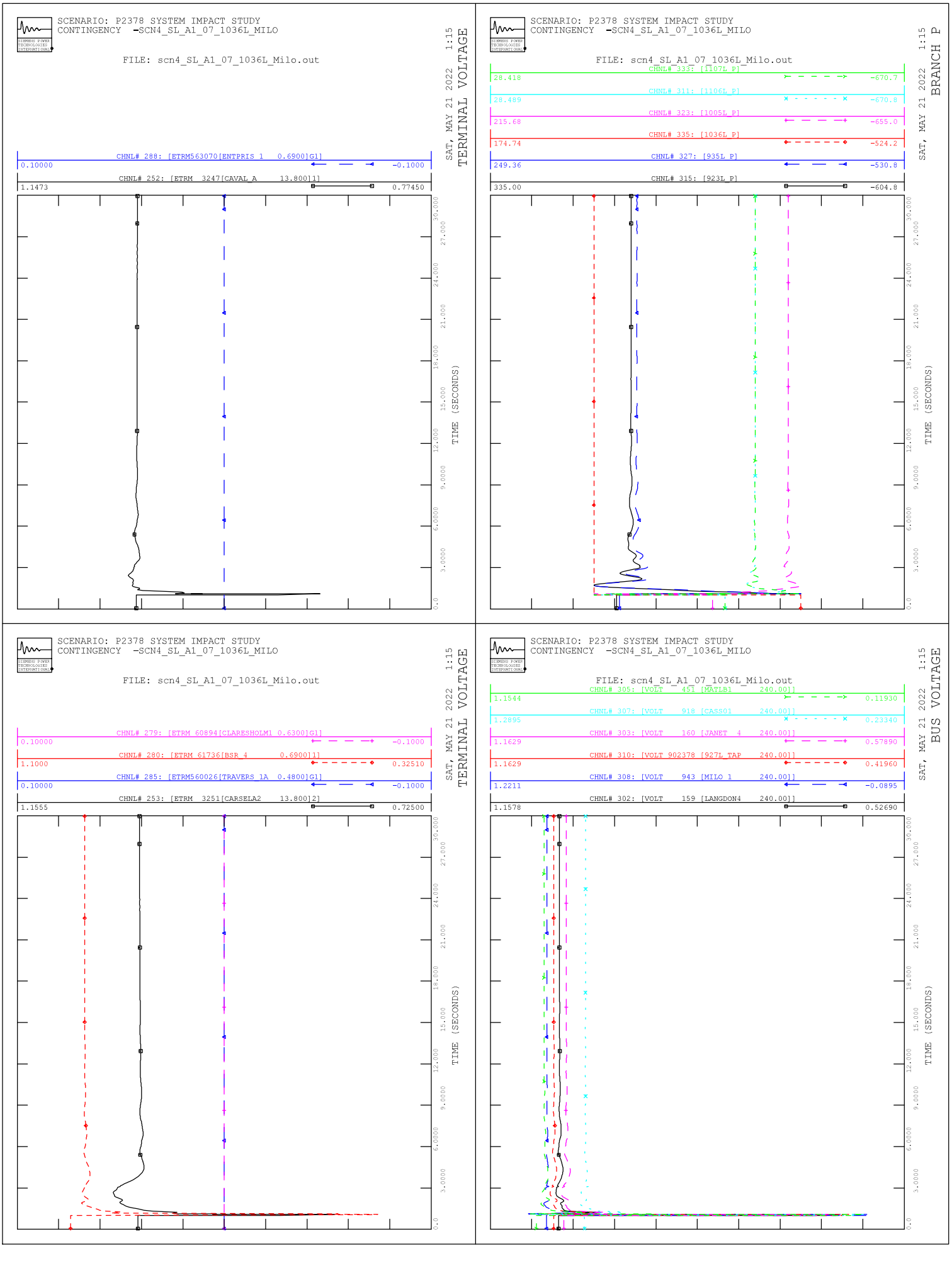
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO

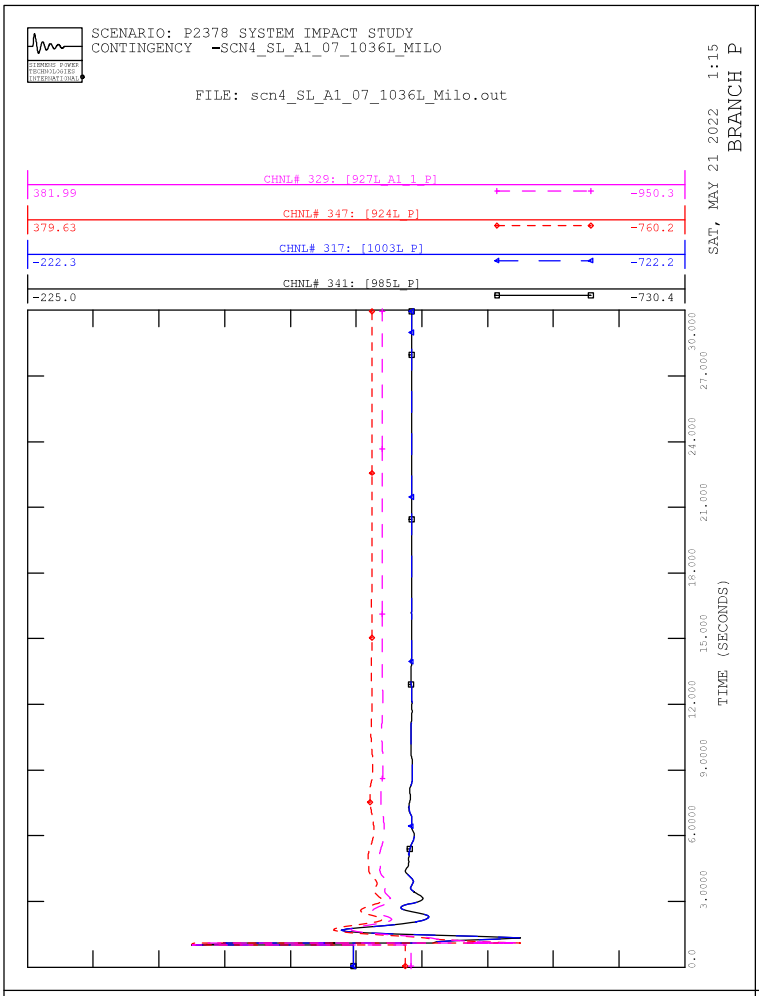
FILE: scn4_SL_A1_07_1036L_Milo.out

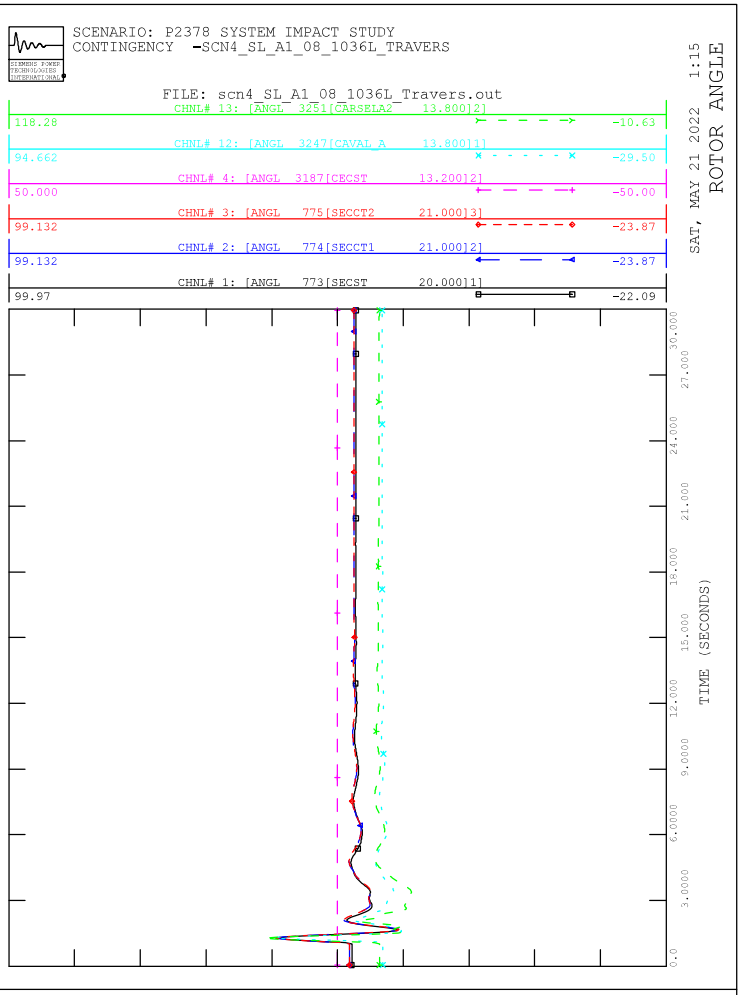
SAT, MAY 21 2022 1:15
REACTIVE POWER

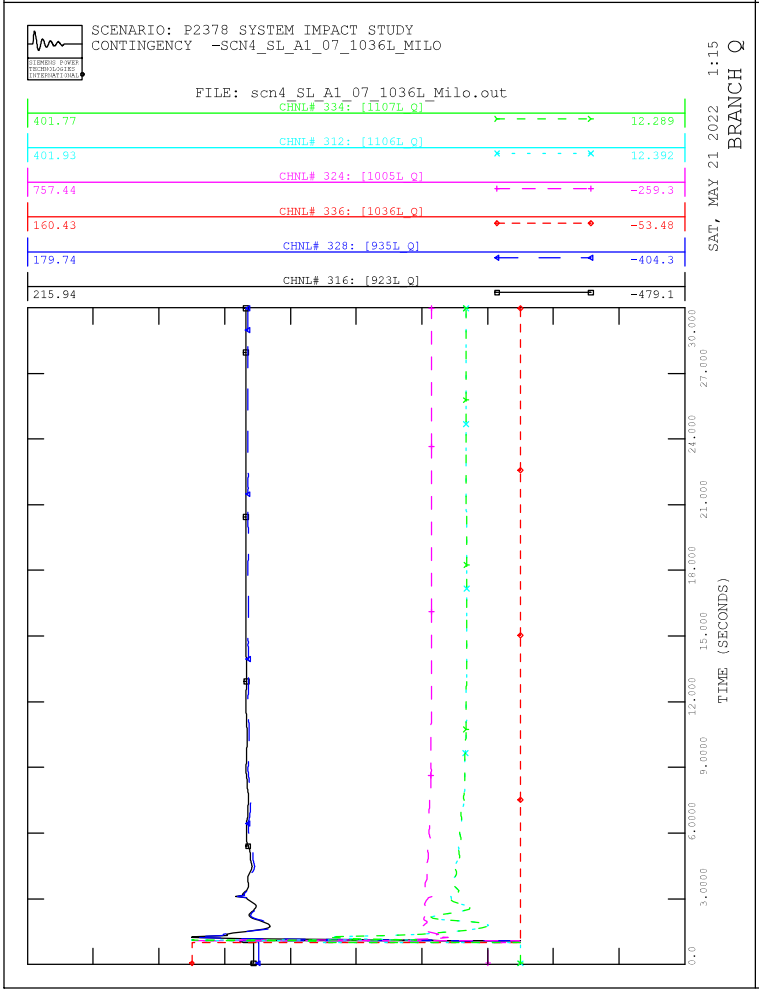
CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 156: [VARS 3247[CAVAL A 13.800]1]
1.0259 -0.4313

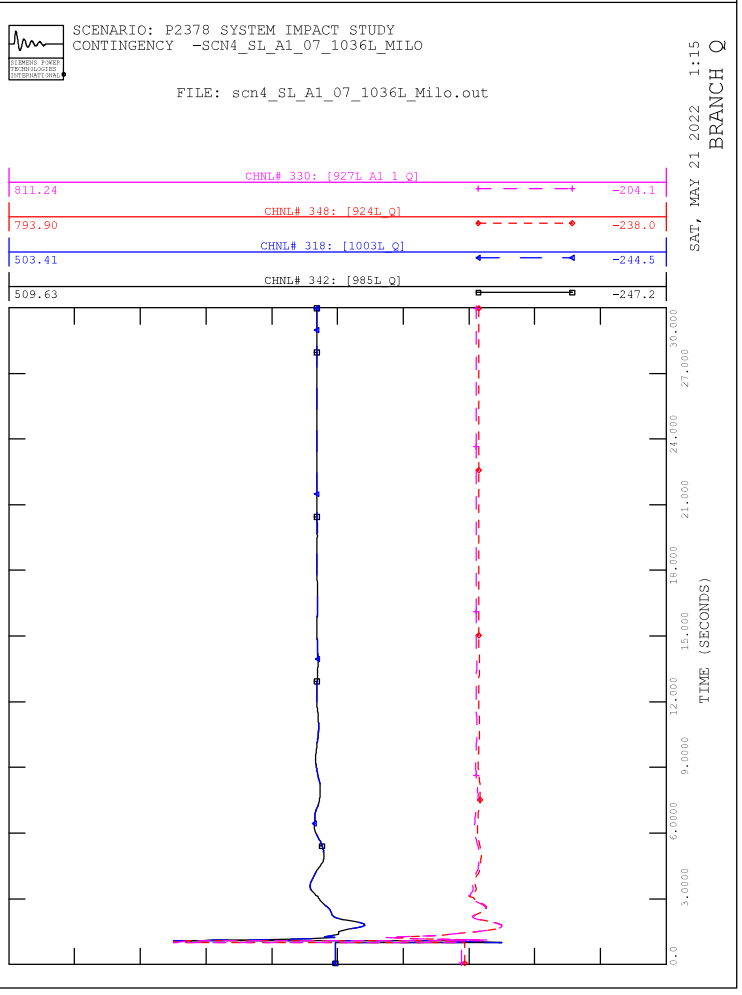



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO
FILE: scn4_SL_A1_07_1036L_Milo.out
CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000
-0.1000
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1473
0.77450
SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO
FILE: scn4_SL_A1_07_1036L_Milo.out
CHNL# 333: [1107L P]
28.418
-670.7
CHNL# 311: [1106L P]
28.489
-670.8
CHNL# 323: [1005L P]
215.68
-655.0
CHNL# 335: [1036L P]
174.74
-524.2
CHNL# 327: [935L P]
249.36
-530.8
CHNL# 315: [923L P]
335.00
-604.8
SAT, MAY 21 2022 1:15
BRANCH P
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO
FILE: scn4_SL_A1_07_1036L_Milo.out
CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000
-0.1000
CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1000
0.32510
CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000
-0.1000
CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1555
0.72500
SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO
FILE: scn4_SL_A1_07_1036L_Milo.out
CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.1544
0.11930
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.2895
0.23340
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1629
0.57890
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1629
0.41960
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2211
-0.0895
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1578
0.52690
SAT, MAY 21 2022 1:15
BUS VOLTAGE
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO
FILE: scn4_SL_A1_07_1036L_Milo.out
CHNL# 329: [927L_A1_1_P]
381.99
-950.3
CHNL# 347: [924L_P]
379.63
-760.2
CHNL# 317: [1003L_P]
-222.3
-722.2
CHNL# 341: [985L_P]
-225.0
-730.4
SAT, MAY 21 2022 1:15
BRANCH P
TIME (SECONDS)

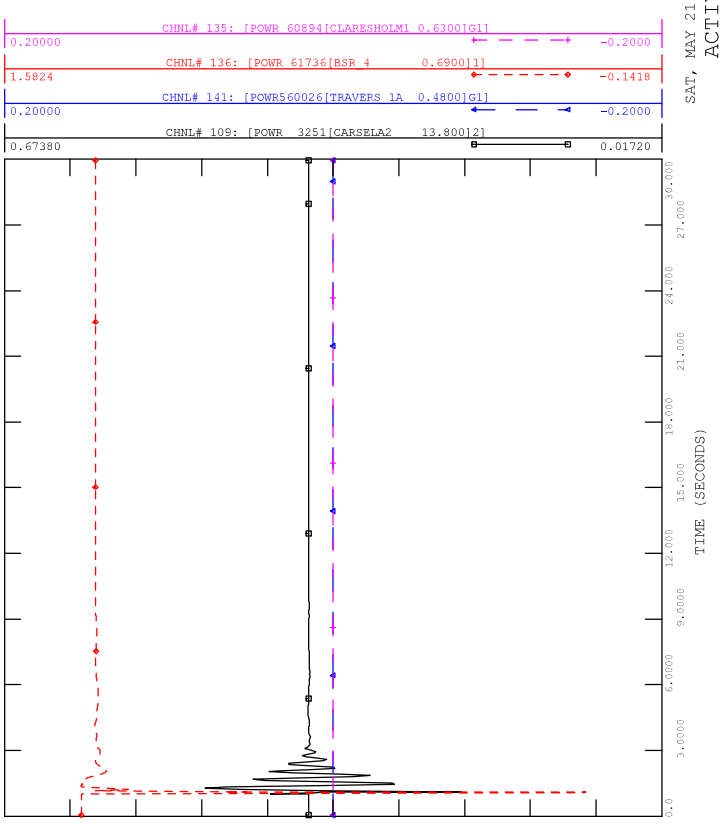

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS
FILE: scn4_SL_A1_08_1036L_Travers.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
118.28
-10.63
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
94.662
-29.50
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
99.132
-23.87
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
99.132
-23.87
CHNL# 1: [ANGL 773[SECST 20.000]1]
99.97
-22.09
SAT, MAY 21 2022 1:15
ROTOR ANGLE
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO
FILE: scn4_SL_A1_07_1036L_Milo.out
CHNL# 334: [1107L_Q]
401.77
12.289
CHNL# 312: [1106L_Q]
401.93
12.392
CHNL# 324: [1005L_Q]
757.44
-259.3
CHNL# 336: [1036L_Q]
160.43
-53.48
CHNL# 328: [935L_Q]
179.74
-404.3
CHNL# 316: [923L_Q]
215.94
-479.1
SAT, MAY 21 2022 1:15
BRANCH Q
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_07_1036L_MILO
FILE: scn4_SL_A1_07_1036L_Milo.out
CHNL# 330: [927L_A1_1_Q]
811.24
-204.1
CHNL# 348: [924L_Q]
793.90
-238.0
CHNL# 318: [1003L_Q]
503.41
-244.5
CHNL# 342: [985L_Q]
509.63
-247.2
SAT, MAY 21 2022 1:15
BRANCH Q
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

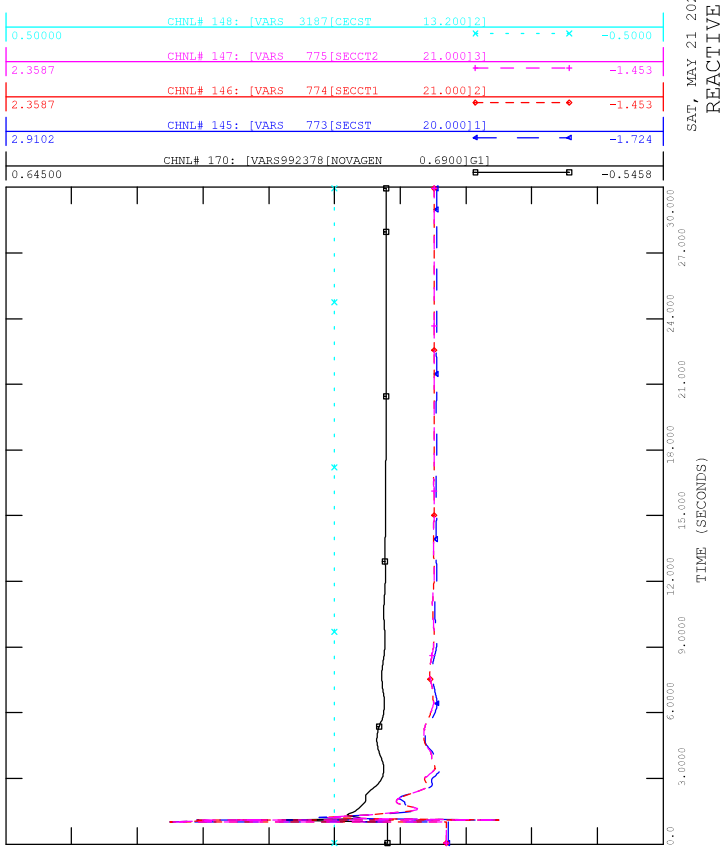
FILE: scn4_SL_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

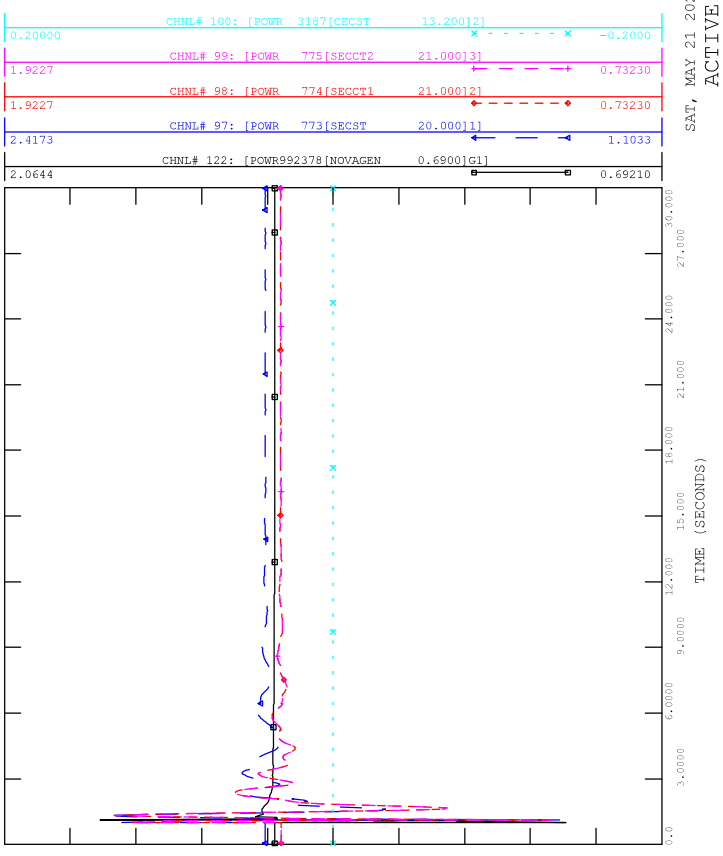
FILE: scn4_SL_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:15
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

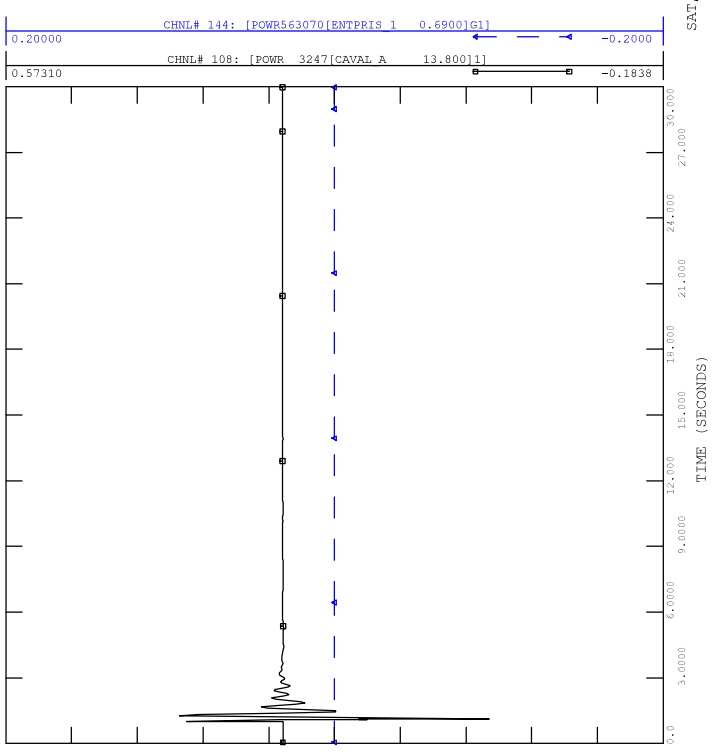
FILE: scn4_SL_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

FILE: scn4_SL_A1_08_1036L_Travers.out



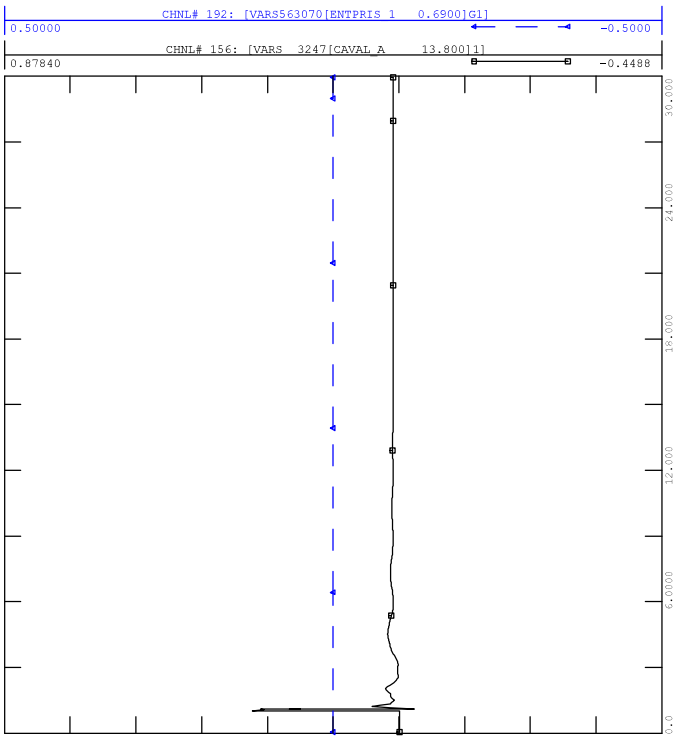
SAT, MAY 21 2022 1:15
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

FILE: scn4_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

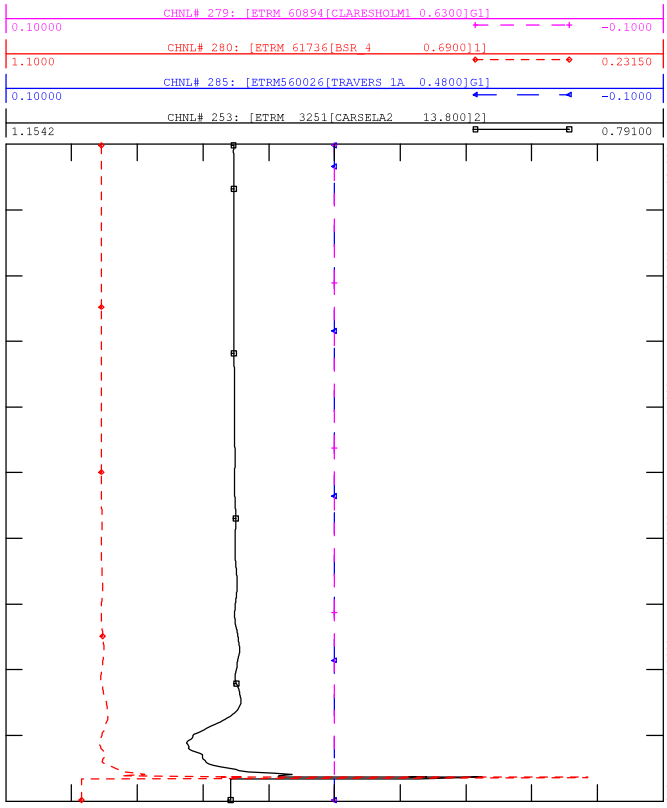


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

FILE: scn4_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

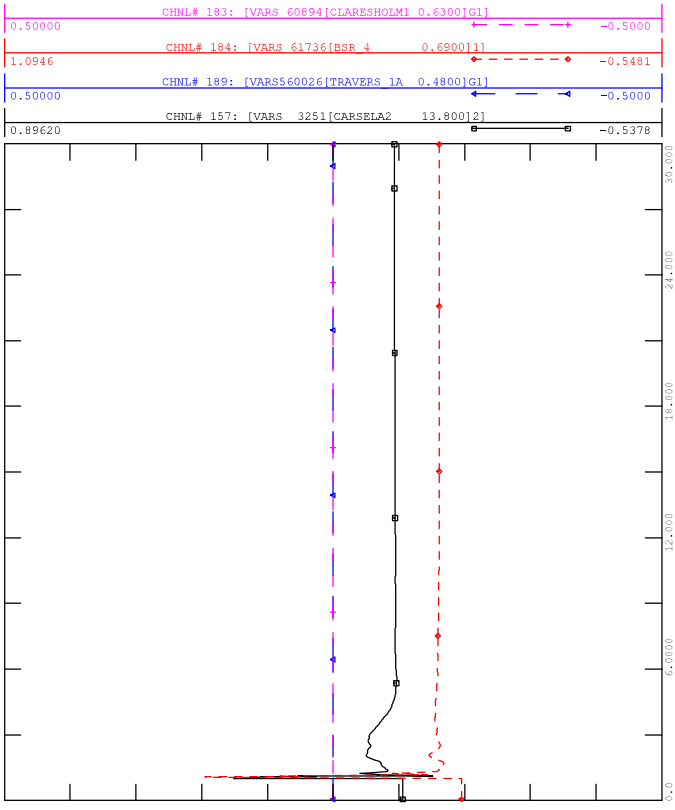


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

FILE: scn4_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

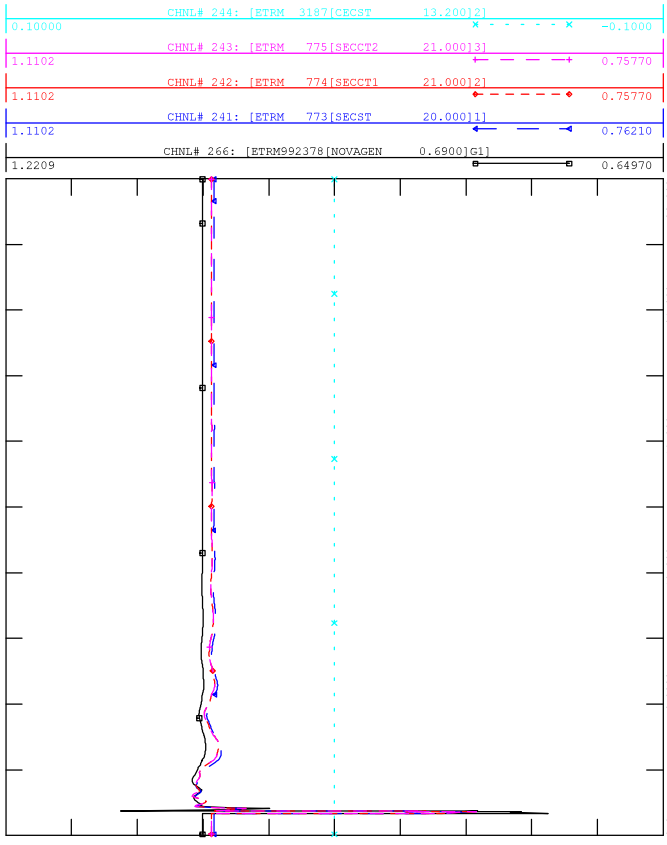


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

FILE: scn4_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

FILE: scn4_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15

BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.2091 0.30350

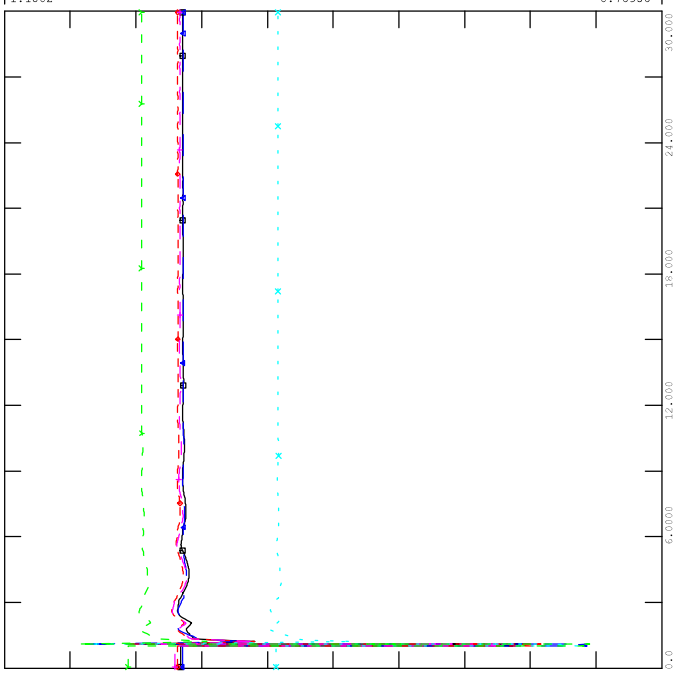
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3711 0.59180

CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1732 0.73300

CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1921 0.64960

CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2823 0.39900

CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1802 0.70950



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

FILE: scn4_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15

BRANCH Q

CHNL# 334: [1107L Q]
409.44 9.7328

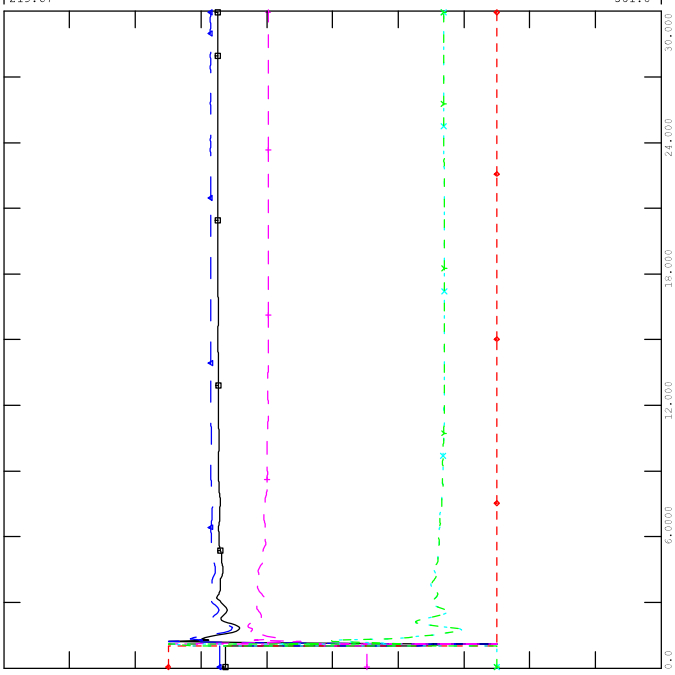
CHNL# 312: [1106L Q]
409.56 9.8499

CHNL# 324: [1005L Q]
366.15 -214.8

CHNL# 336: [1036L Q]
160.43 -53.48

CHNL# 328: [935L Q]
191.25 -469.1

CHNL# 316: [923L Q]
219.67 -501.0



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

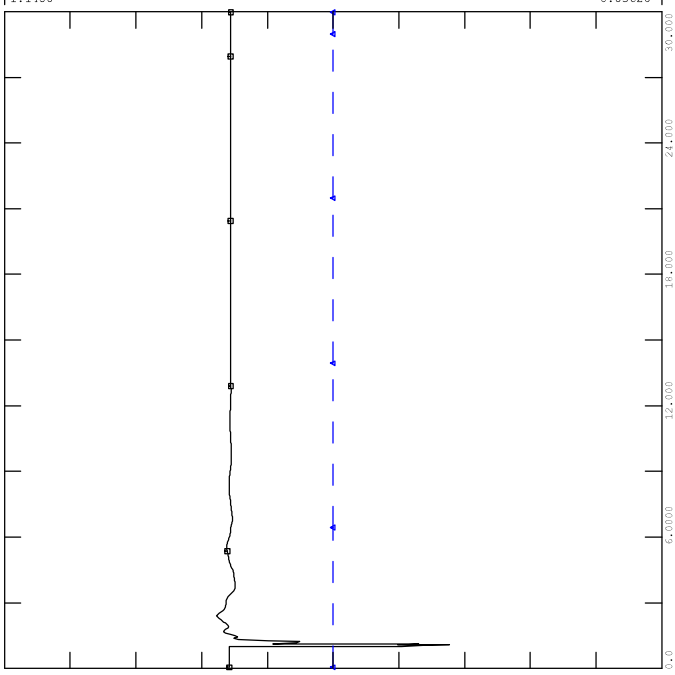
FILE: scn4_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000

CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1458 0.83620



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

FILE: scn4_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15

BRANCH P

CHNL# 333: [1107L P]
4.7871 -715.9

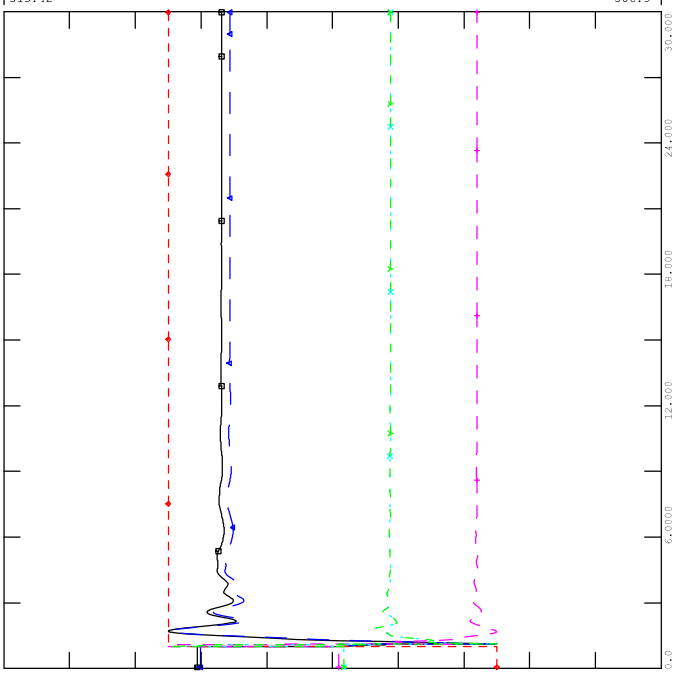
CHNL# 311: [1106L P]
4.8811 -716.0

CHNL# 323: [1005L P]
136.16 -624.4

CHNL# 335: [1036L P]
174.74 -524.2

CHNL# 327: [935L P]
228.07 -513.0

CHNL# 315: [923L P]
313.42 -586.9



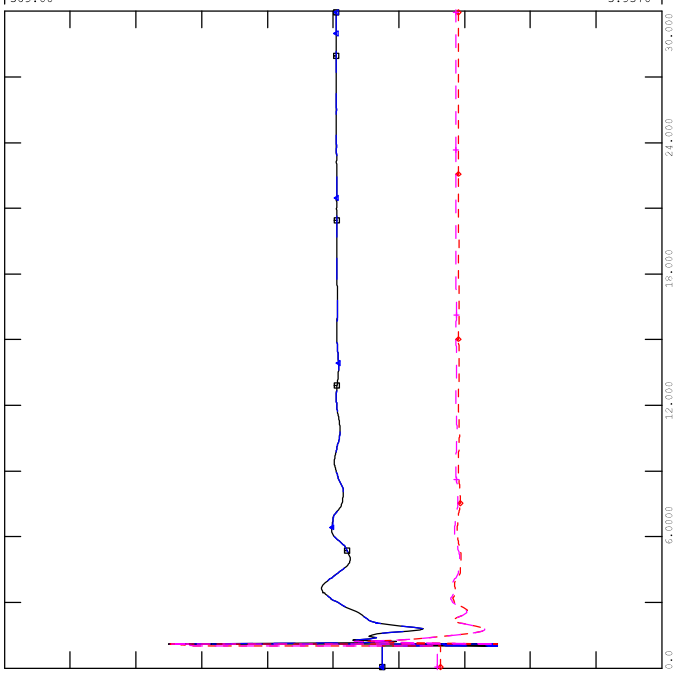
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

FILE: scn4_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15

BRANCH Q

CHNL# 330: [927L A1 1 Q]
634.63 -158.9
CHNL# 348: [924L Q]
603.39 -188.6
CHNL# 318: [1003L Q]
305.05 3.6170
CHNL# 342: [985L Q]
309.00 3.9370



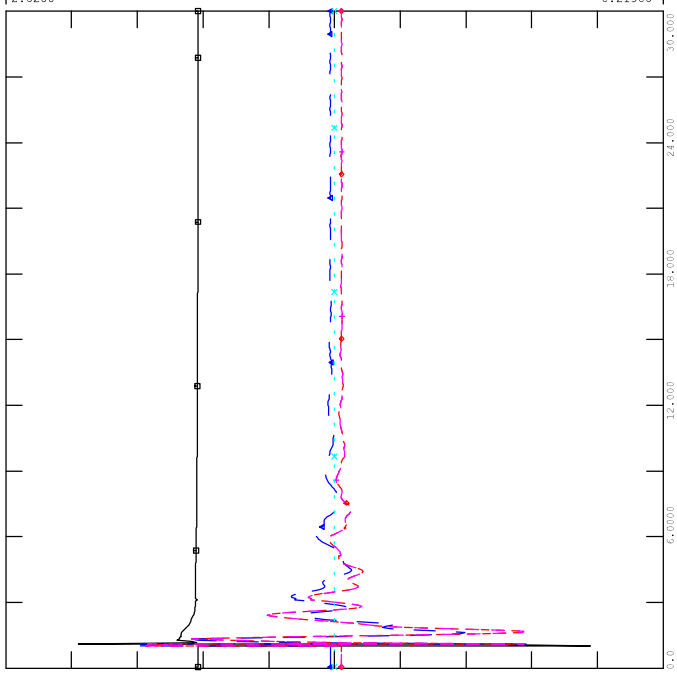
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15

ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3]
1.9029 0.96100
CHNL# 98: [POWR 774[SECCT1 21.000]2]
1.9029 0.96100
CHNL# 97: [POWR 773[SECST 20.000]1]
2.3811 1.3983
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
2.0288 0.21900



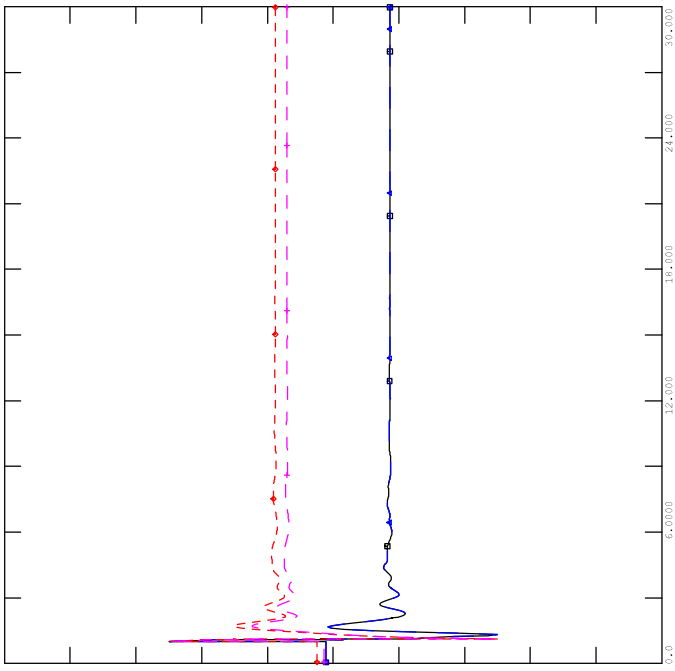
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_08_1036L_TRAVERS

FILE: scn4_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:15

BRANCH P

CHNL# 329: [927L A1 1 P]
111.98 -932.7
CHNL# 347: [924L P]
157.27 -752.6
CHNL# 317: [1003L P]
-246.2 -703.8
CHNL# 341: [985L P]
-249.0 -711.9



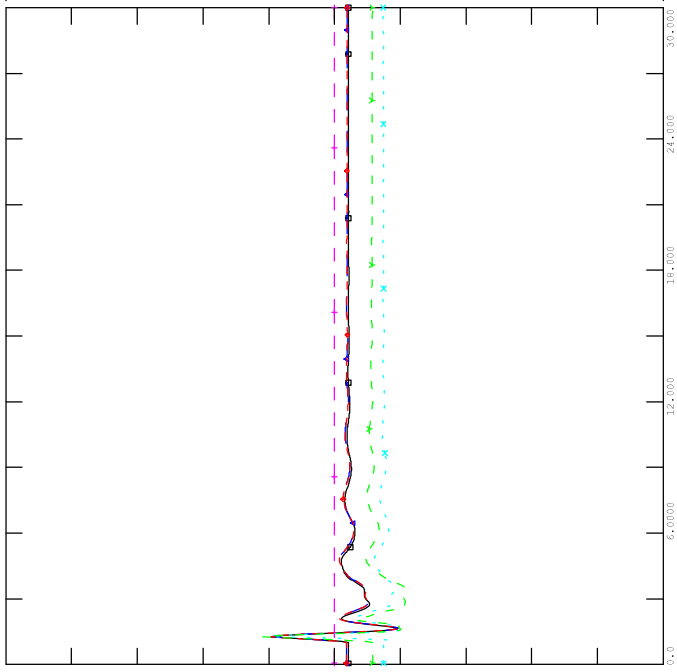
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15

ROTOR ANGLE

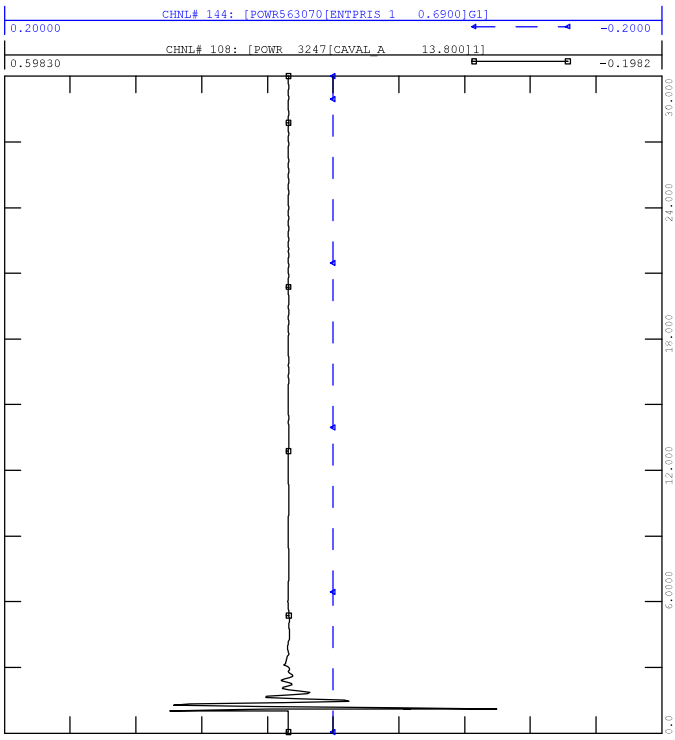
CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2]
117.01 -10.94
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
95.847 -29.12
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
99.716 -24.33
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
99.716 -24.33
CHNL# 1: [ANGL 773[SECST 20.000]1]
100.40 -22.63



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

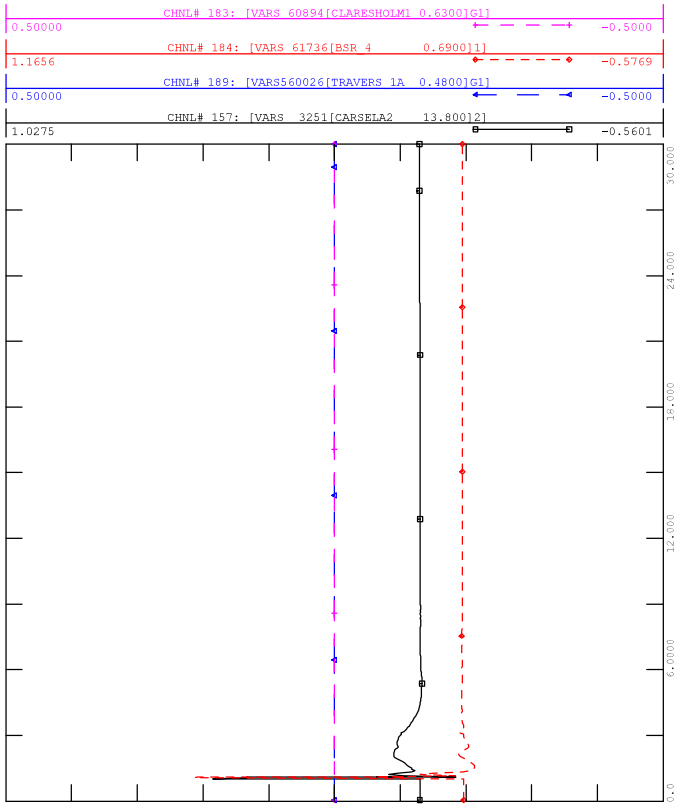
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

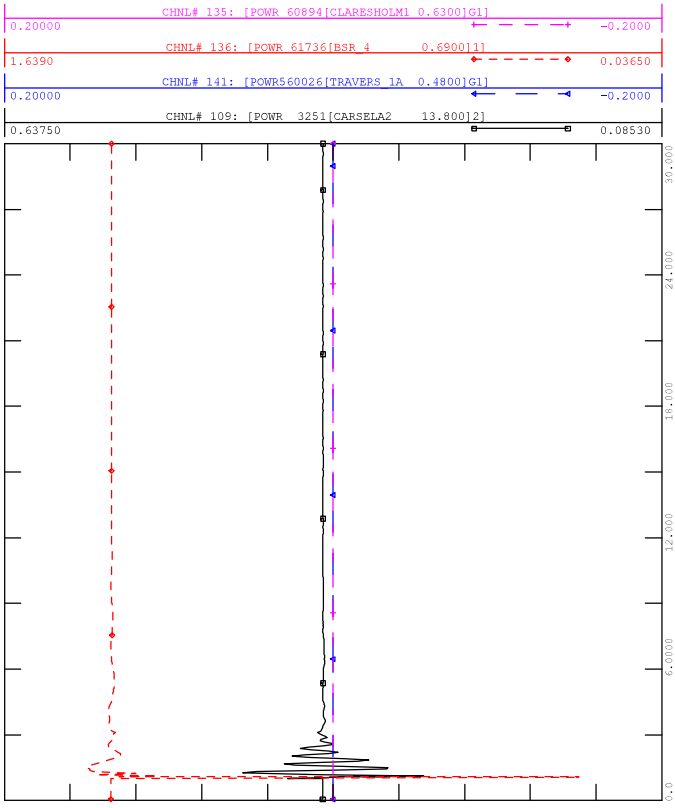
SAT, MAY 21 2022 1:15 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

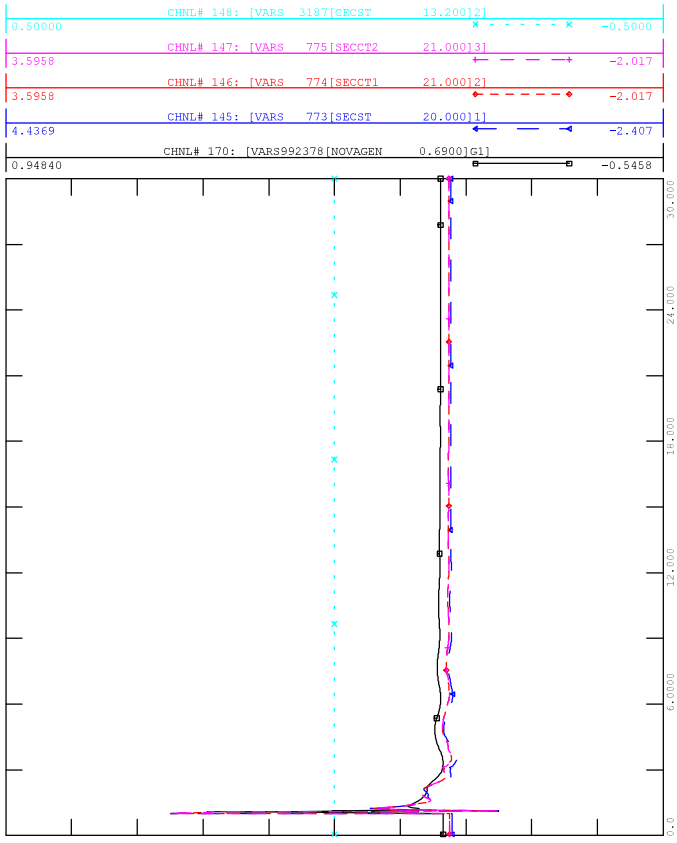
SAT, MAY 21 2022 1:15 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15 REACTIVE POWER

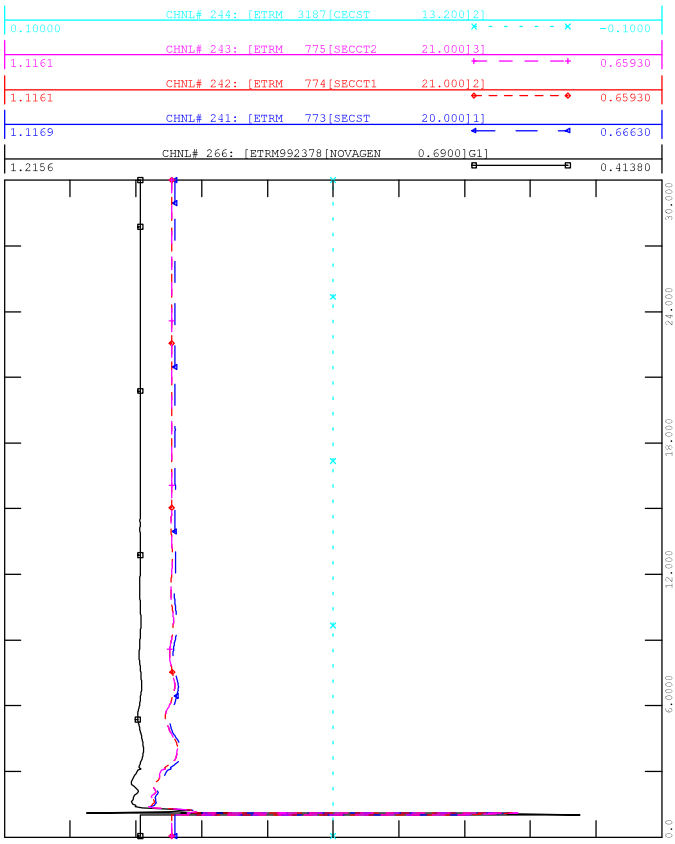


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

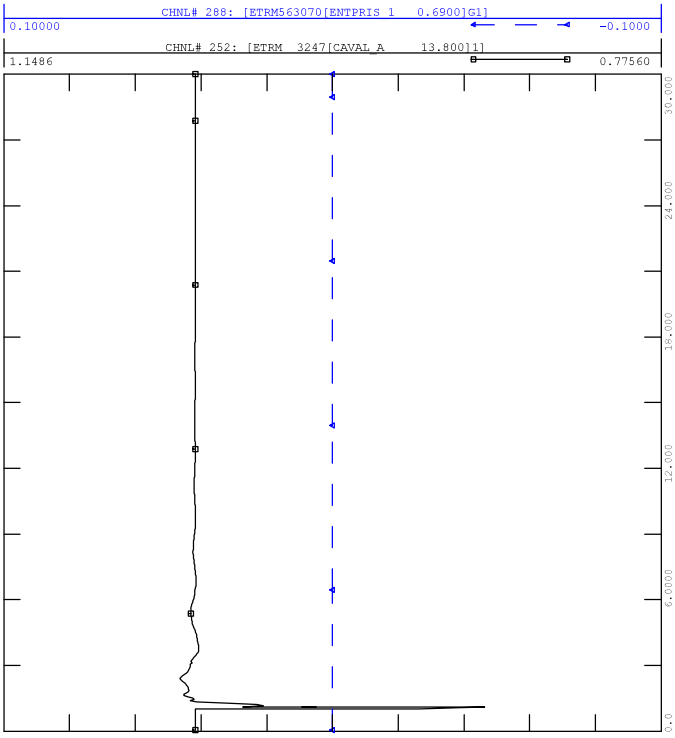


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE

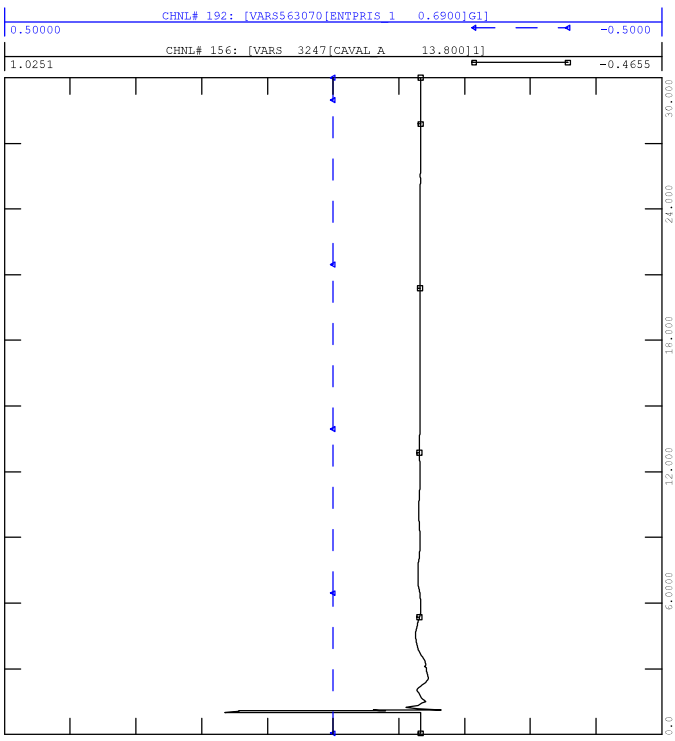


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15

REACTIVE POWER

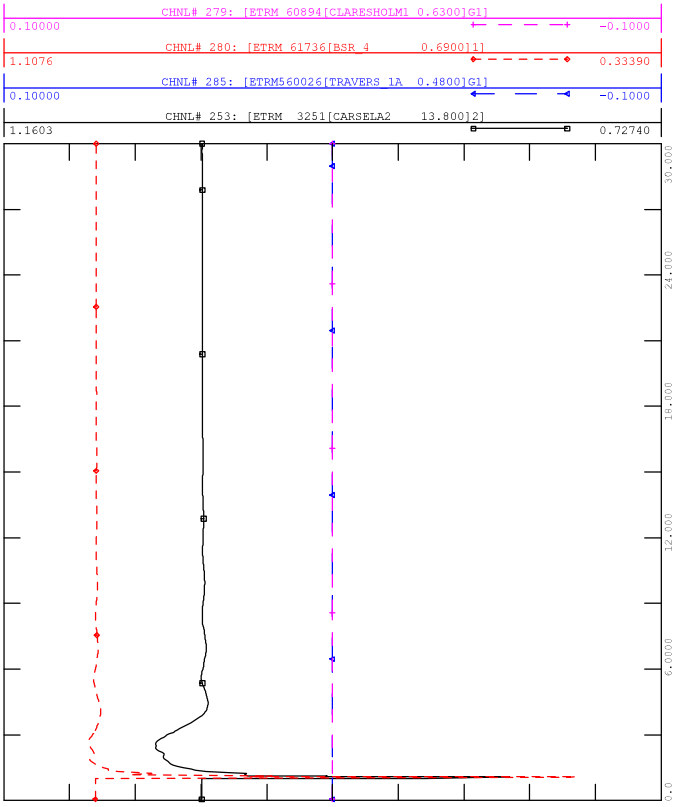


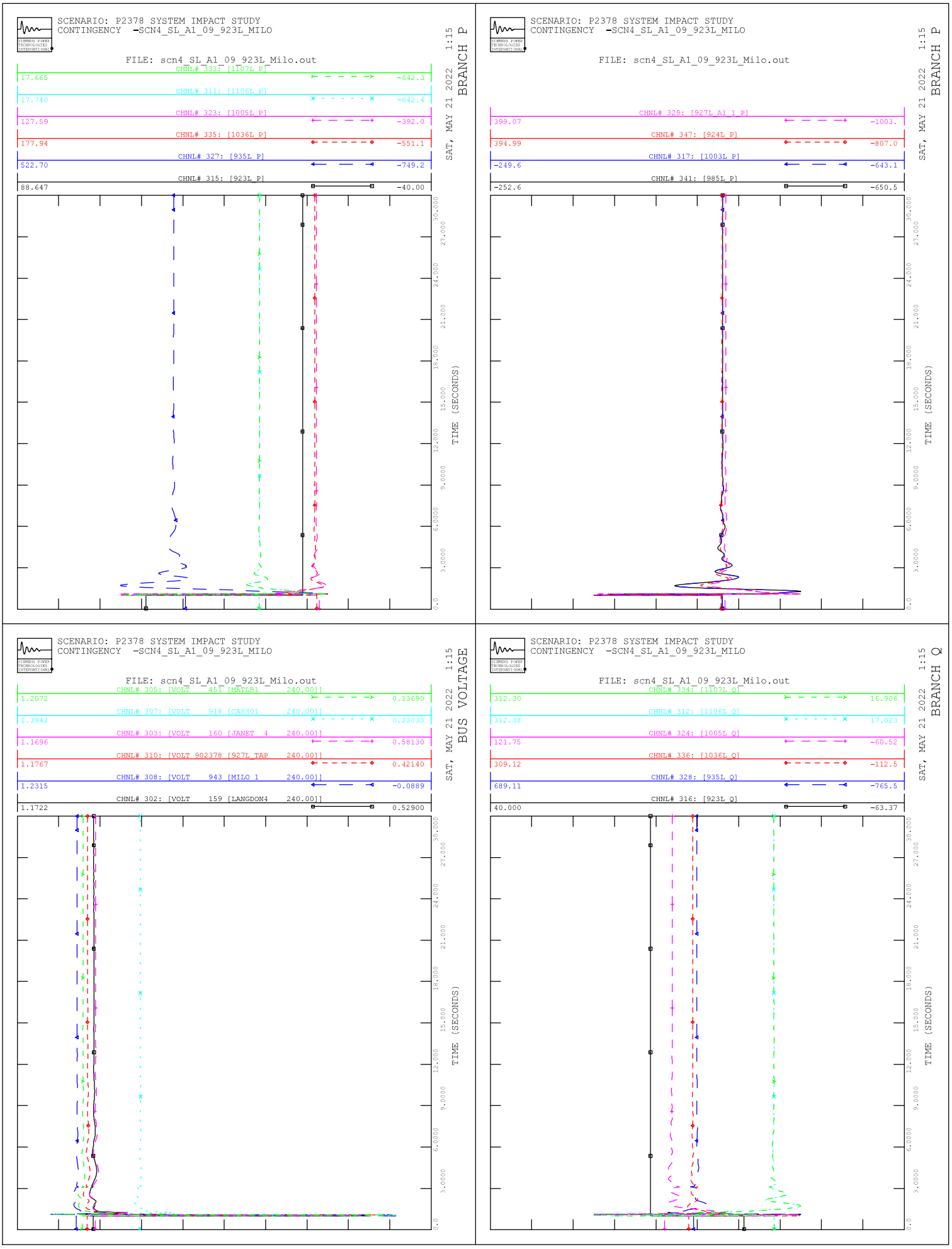
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:15

TERMINAL VOLTAGE




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO
FILE: scn4_SL_A1_09_923L_Milo.out
CHNL# 333: [1107L P]
17.665
-642.3
CHNL# 311: [1106L P]
17.740
-642.4
CHNL# 323: [1005L P]
127.59
-392.0
CHNL# 335: [1036L P]
177.94
-551.1
CHNL# 327: [935L P]
522.70
-749.2
CHNL# 315: [923L P]
88.647
-40.00
SAT, MAY 21 2022 1:15
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO
FILE: scn4_SL_A1_09_923L_Milo.out
CHNL# 329: [927L_A1_1 P]
399.07
-1003.
CHNL# 347: [924L P]
394.99
-807.0
CHNL# 317: [1003L P]
-249.6
-643.1
CHNL# 341: [985L P]
-252.6
-650.5
SAT, MAY 21 2022 1:15
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO
FILE: scn4_SL_A1_09_923L_Milo.out
CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.2072
0.13690
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3942
0.23030
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1696
0.58130
CHNL# 310: [VOLT 902378 [927L_TAP 240.00]]
1.1767
0.42140
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2315
-0.0889
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1722
0.52900
SAT, MAY 21 2022 1:15
BUS VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO
FILE: scn4_SL_A1_09_923L_Milo.out
CHNL# 334: [1107L Q]
312.30
16.906
CHNL# 312: [1106L Q]
312.38
17.023
CHNL# 324: [1005L Q]
121.75
-60.52
CHNL# 336: [1036L Q]
309.12
-112.5
CHNL# 328: [935L Q]
689.11
-765.5
CHNL# 316: [923L Q]
40.000
-63.37
SAT, MAY 21 2022 1:15
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

FILE: scn4_SL_A1_10_923L_Newell.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
115.70 -11.11
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
94.306 -28.63
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
98.654 -22.77
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
98.654 -22.77
CHNL# 1: [ANGL 773[SECST 20.000]1]
99.326 -21.25

SAT, MAY 21 2022 1:15
ROTOR ANGLE
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

FILE: scn4_SL_A1_10_923L_Newell.out

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.6262 0.38300
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.64650 0.07170

SAT, MAY 21 2022 1:15
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_09_923L_MILO

FILE: scn4_SL_A1_09_923L_Milo.out

CHNL# 330: [927L A1 1 Q]
799.67 -167.6
CHNL# 348: [924L Q]
782.75 -202.9
CHNL# 318: [1003L Q]
345.32 -192.7
CHNL# 342: [985L Q]
349.77 -194.8

SAT, MAY 21 2022 1:15
BRANCH Q
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

FILE: scn4_SL_A1_10_923L_Newell.out

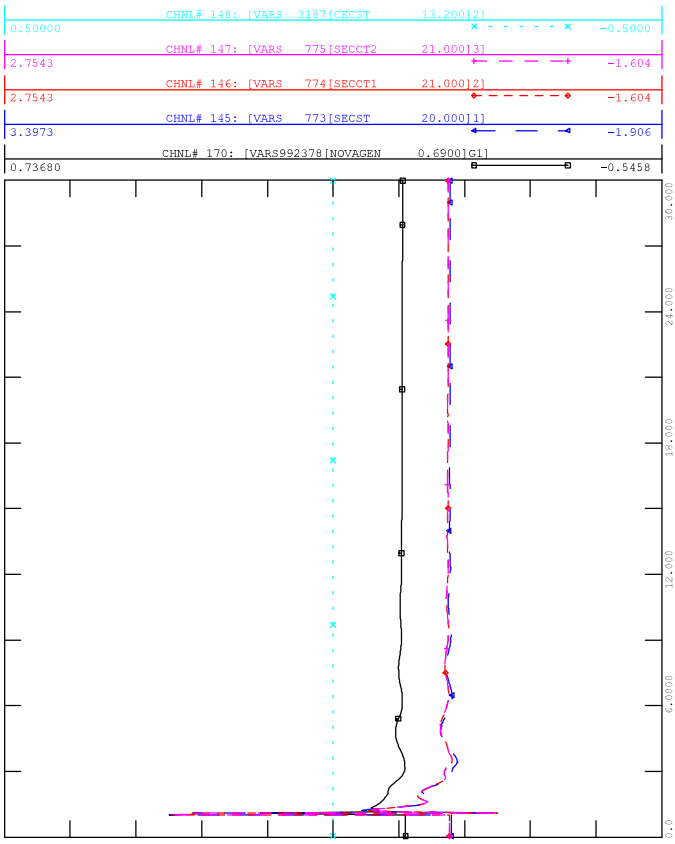
CHNL# 100: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3]
1.9344 0.95190
CHNL# 98: [POWR 774[SECCT1 21.000]2]
1.9344 0.95190
CHNL# 97: [POWR 773[SECST 20.000]1]
2.4338 1.3689
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
2.0441 0.50240

SAT, MAY 21 2022 1:15
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

FILE: scn4_SL_A1_10_923L_Newell.out

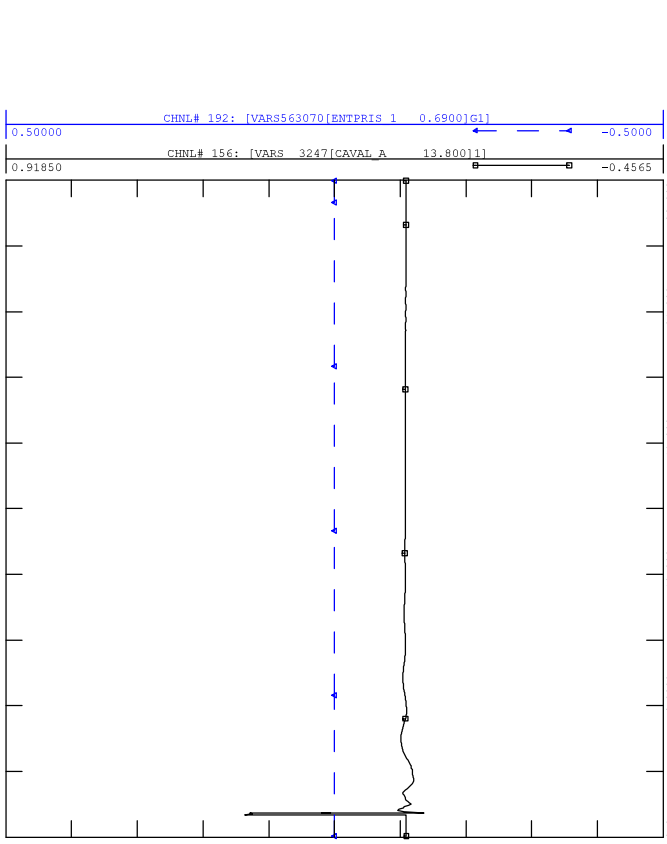
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

FILE: scn4_SL_A1_10_923L_Newell.out

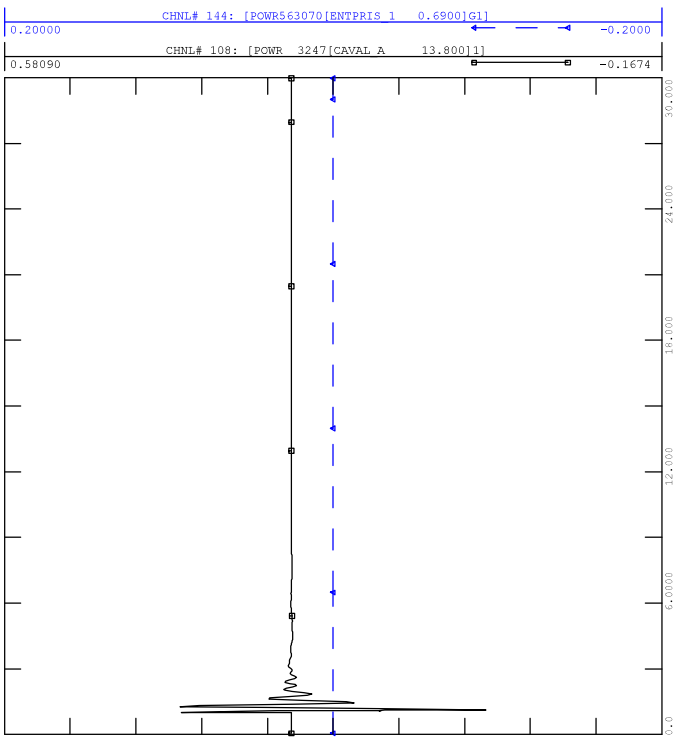
SAT, MAY 21 2022 1:15
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

FILE: scn4_SL_A1_10_923L_Newell.out

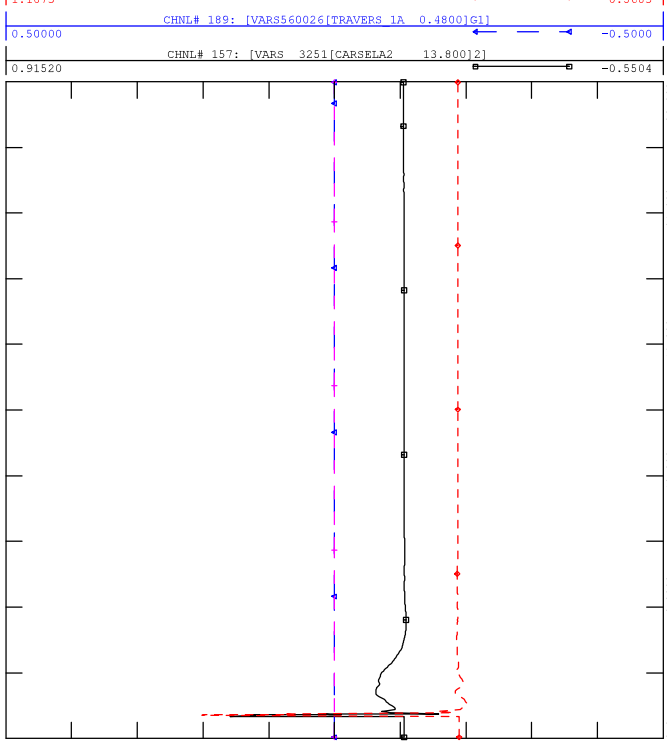
SAT, MAY 21 2022 1:15
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

FILE: scn4_SL_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:15
REACTIVE POWER

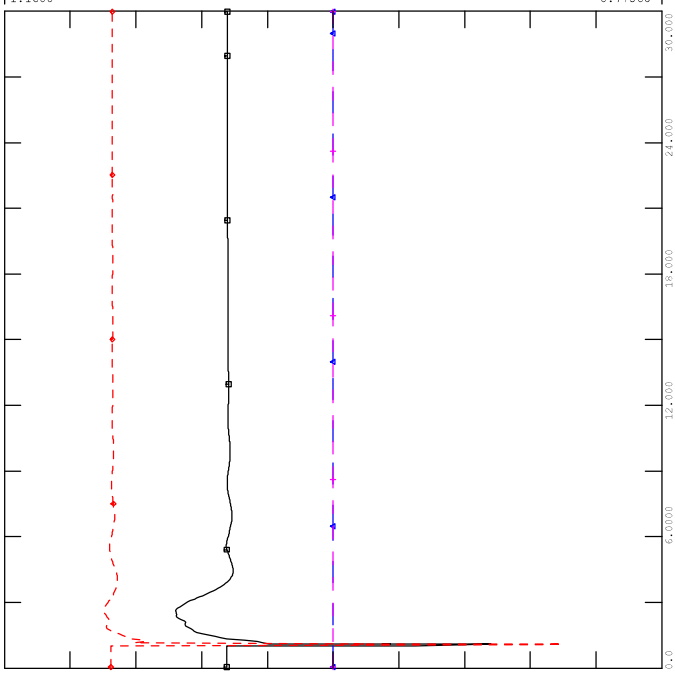


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

FILE: scn4_SL_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1073 0.44580
CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1600 0.77560



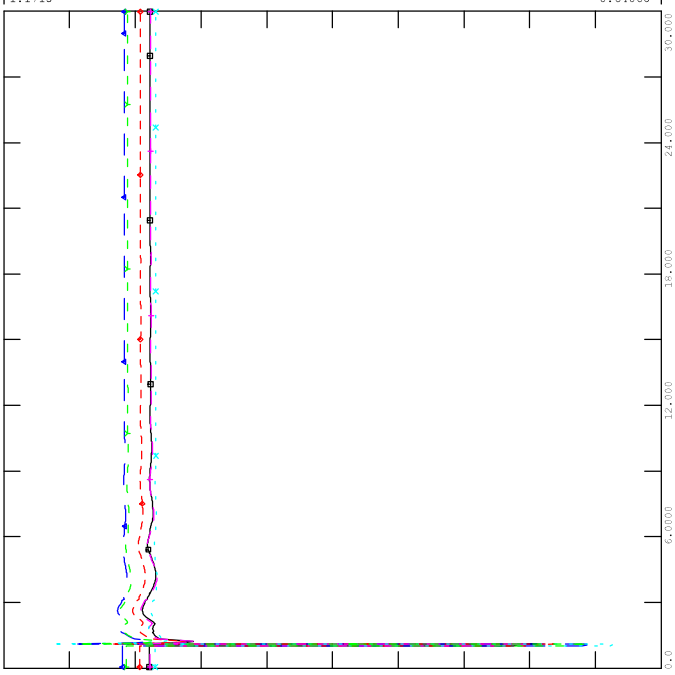
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

FILE: scn4_SL_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:16
BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.2086 0.29900
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3702 -0.0250
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1686 0.67610
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1762 0.56150
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2283 0.20380
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1715 0.64060



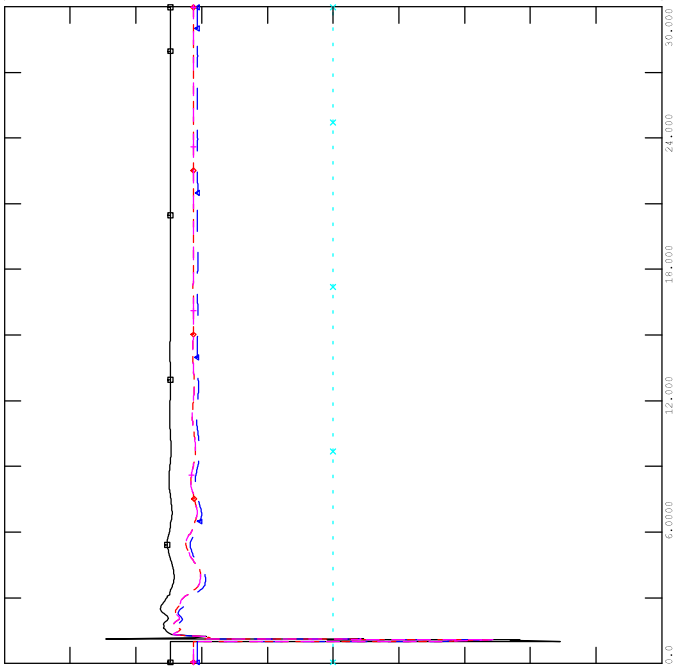
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

FILE: scn4_SL_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

CHNL# 244: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1122 0.72150
CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1122 0.72150
CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1136 0.72680
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.2135 0.56520



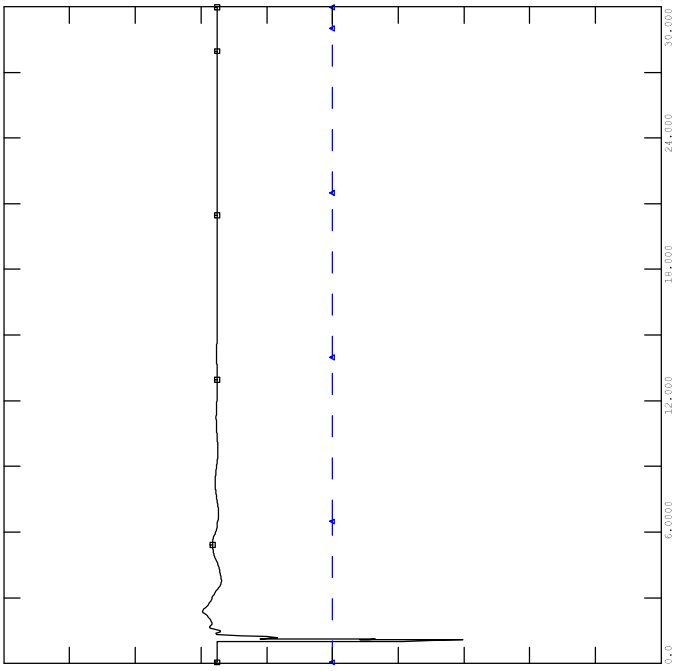
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL

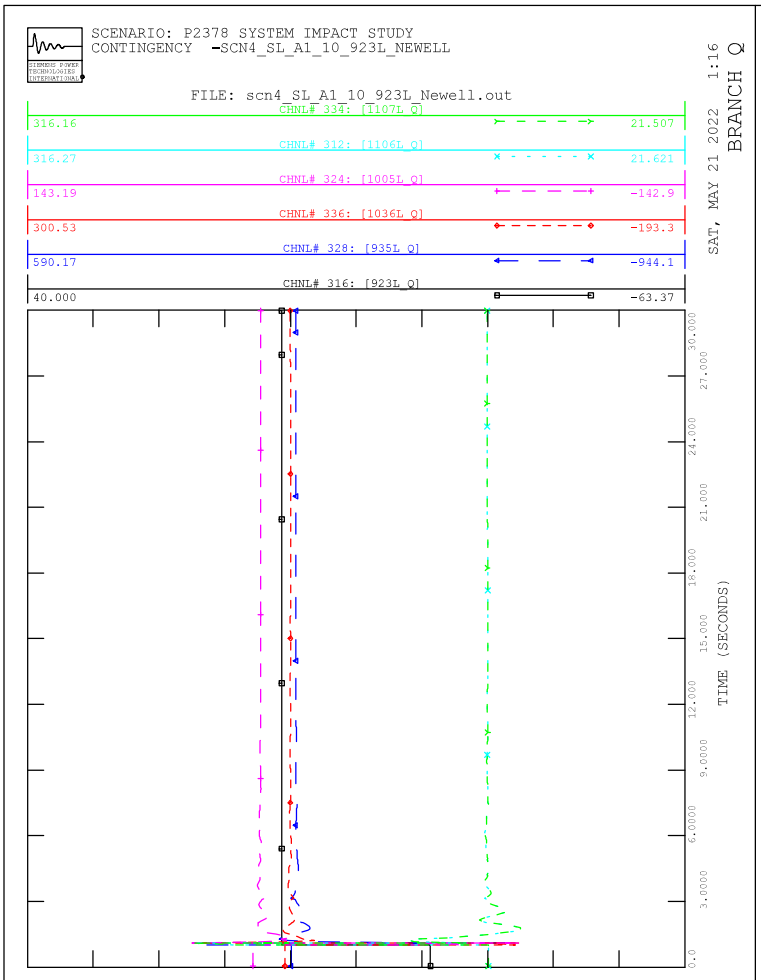
FILE: scn4_SL_A1_10_923L_Newell.out

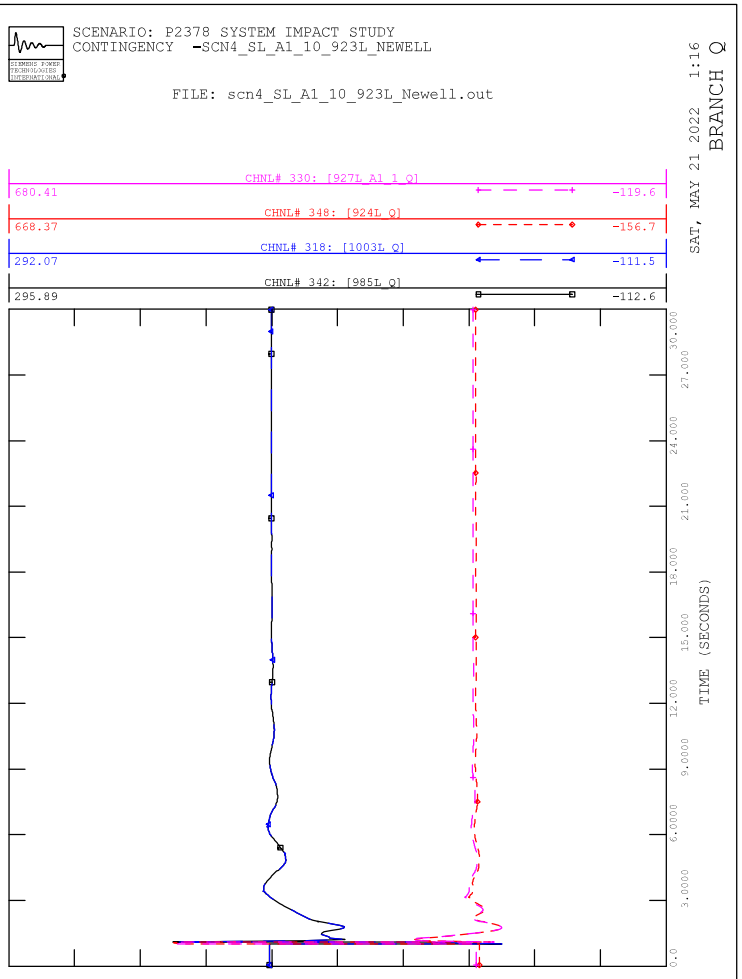
SAT, MAY 21 2022 1:15
TERMINAL VOLTAGE

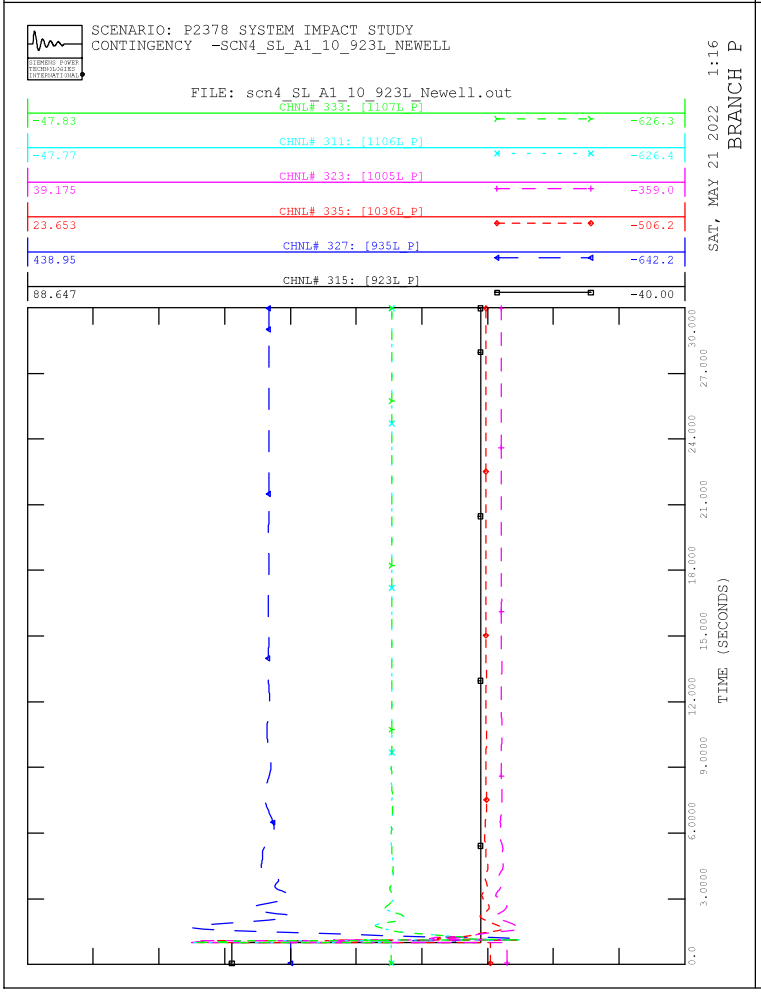
CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1474 0.81650

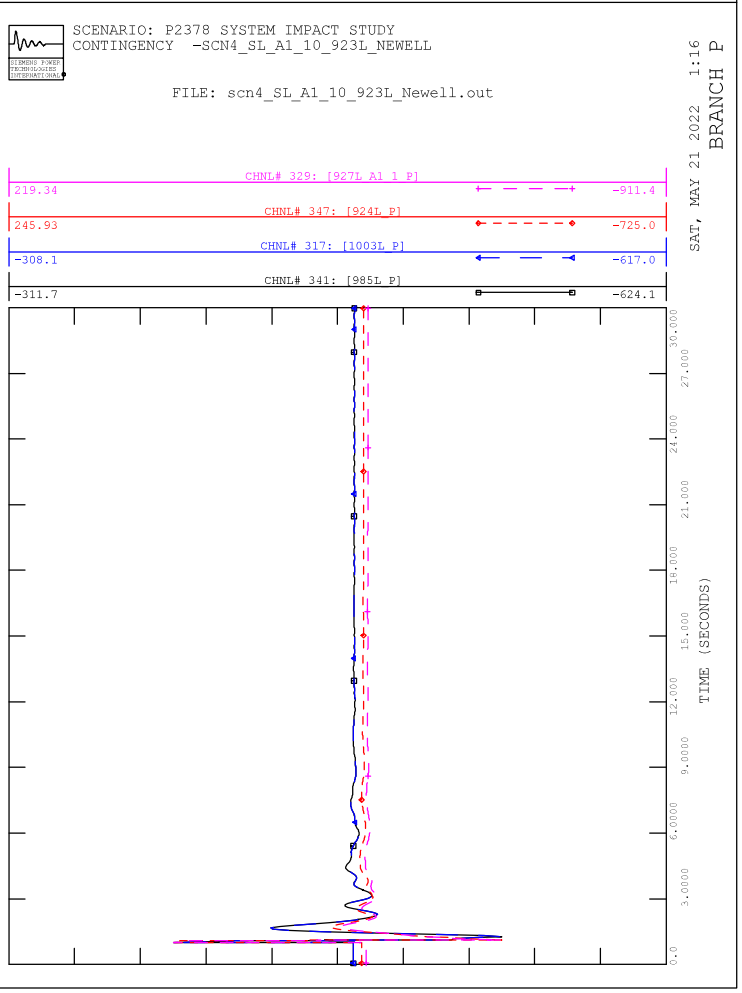


TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL
FILE: scn4_SL_A1_10_923L_Newell.out
CHNL# 334: [1107L Q]
316.16
21.507
CHNL# 312: [1106L Q]
316.27
21.621
CHNL# 324: [1005L Q]
143.19
-142.9
CHNL# 336: [1036L Q]
300.53
-193.3
CHNL# 328: [935L Q]
590.17
-944.1
CHNL# 316: [923L Q]
40.000
-63.37
TIME (SECONDS)
SAT, MAY 21 2022 1:16
BRANCH Q


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL
FILE: scn4_SL_A1_10_923L_Newell.out
CHNL# 330: [927L A1 1 Q]
680.41
-119.6
CHNL# 348: [924L Q]
668.37
-156.7
CHNL# 318: [1003L Q]
292.07
-111.5
CHNL# 342: [985L Q]
295.89
-112.6
TIME (SECONDS)
SAT, MAY 21 2022 1:16
BRANCH Q


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL
FILE: scn4_SL_A1_10_923L_Newell.out
CHNL# 333: [1107L P]
-47.83
-626.3
CHNL# 311: [1106L P]
-47.77
-626.4
CHNL# 323: [1005L P]
39.175
-359.0
CHNL# 335: [1036L P]
23.653
-506.2
CHNL# 327: [935L P]
438.95
-642.2
CHNL# 315: [923L P]
88.647
-40.00
TIME (SECONDS)
SAT, MAY 21 2022 1:16
BRANCH P

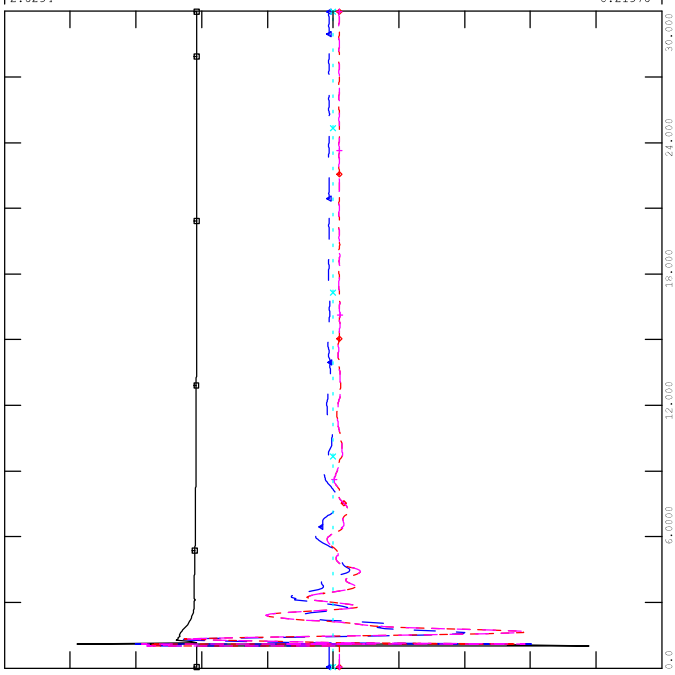

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_10_923L_NEWELL
FILE: scn4_SL_A1_10_923L_Newell.out
CHNL# 329: [927L A1 1 P]
219.34
-911.4
CHNL# 347: [924L P]
245.93
-725.0
CHNL# 317: [1003L P]
-308.1
-617.0
CHNL# 341: [985L P]
-311.7
-624.1
TIME (SECONDS)
SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3]
1.9104 0.95110
CHNL# 98: [POWR 774[SECCT1 21.000]2]
1.9104 0.95110
CHNL# 97: [POWR 773[SECST 20.000]1]
2.3933 1.3860
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
2.0294 0.21970

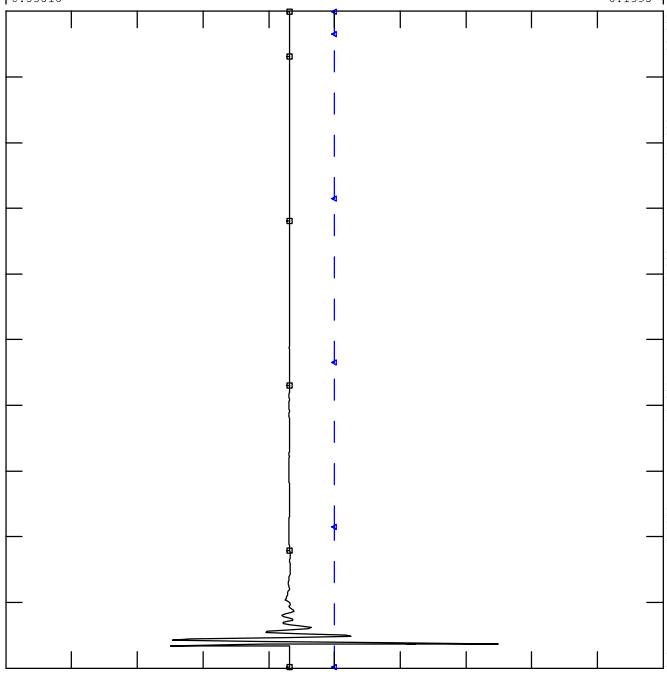


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 144: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 108: [POWR 3247[CAVAL A 13.800]1]
0.59810 -0.1995

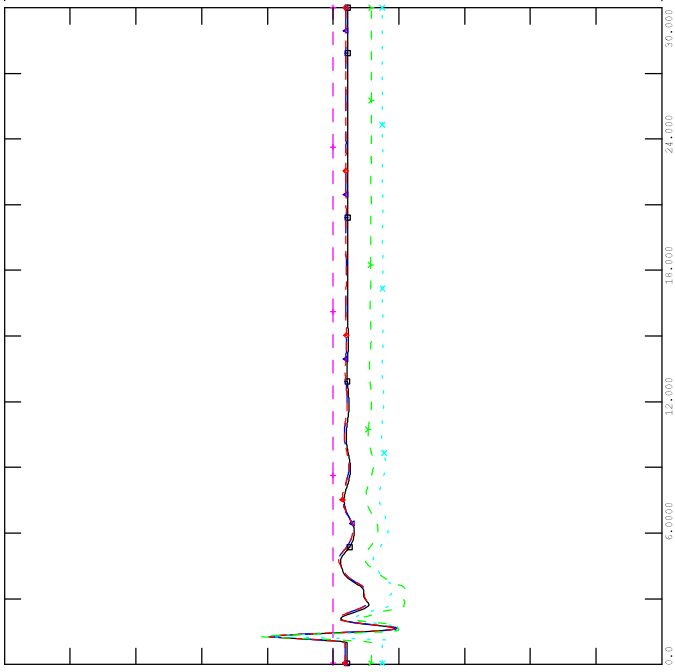


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16
ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
117.19 -11.10
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
95.988 -29.16
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
99.825 -24.43
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
99.825 -24.43
CHNL# 1: [ANGL 773[SECST 20.000]1]
100.52 -22.71

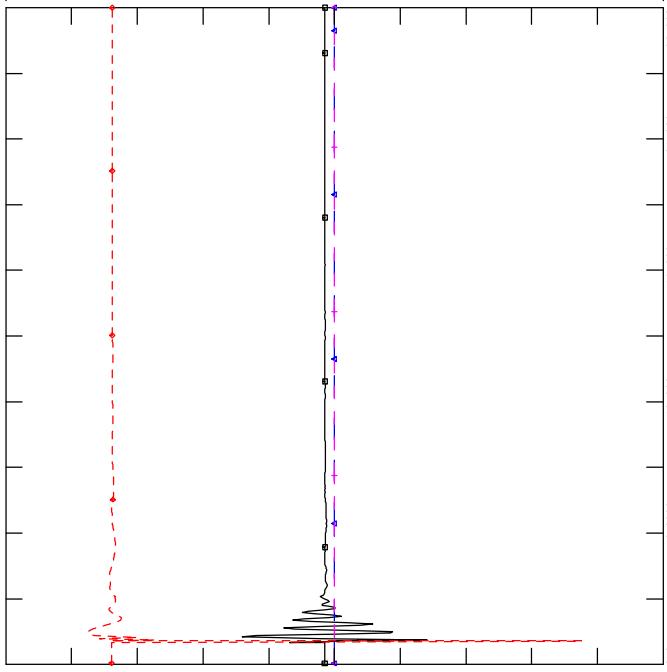


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.6375 0.03330
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.64000 0.08370

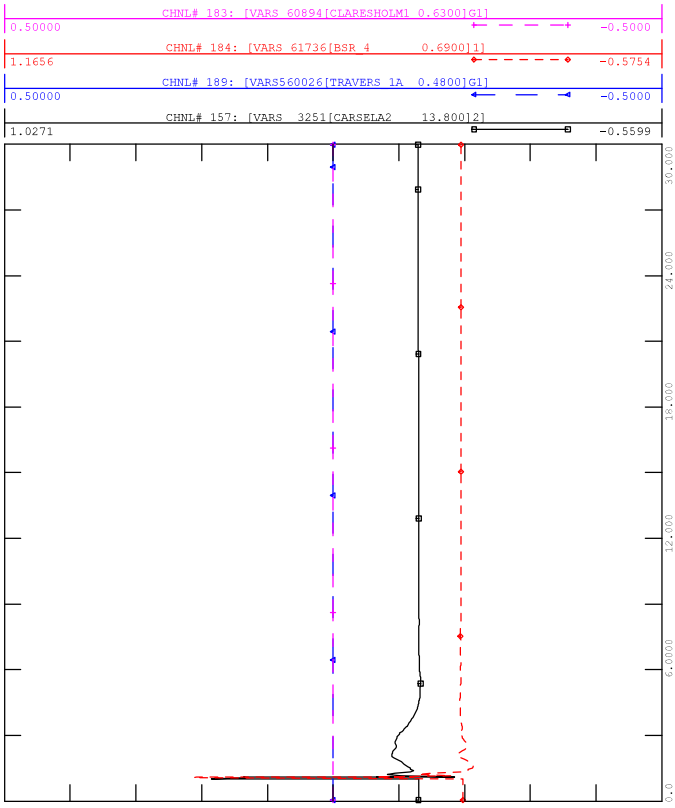


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

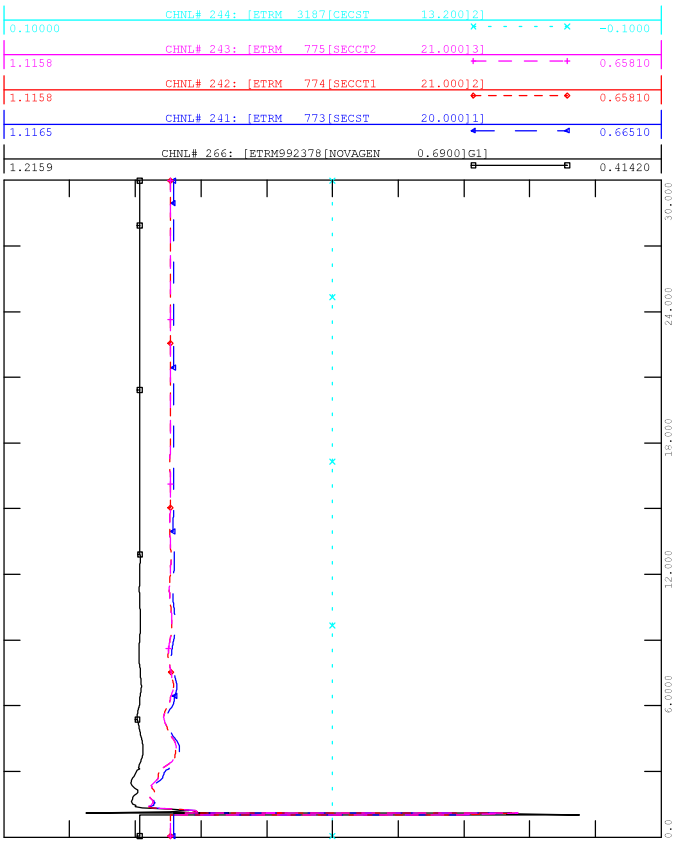


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

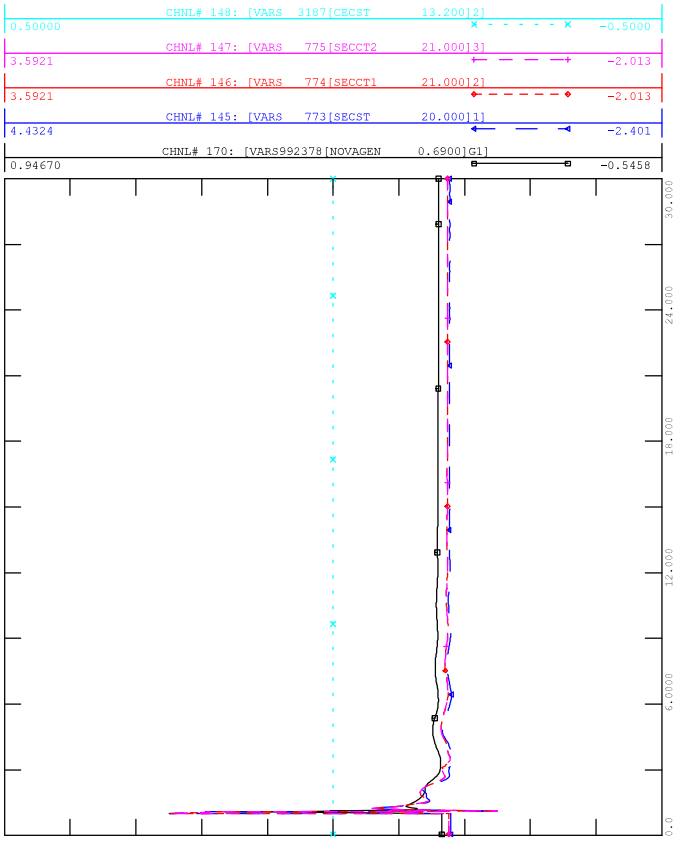


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

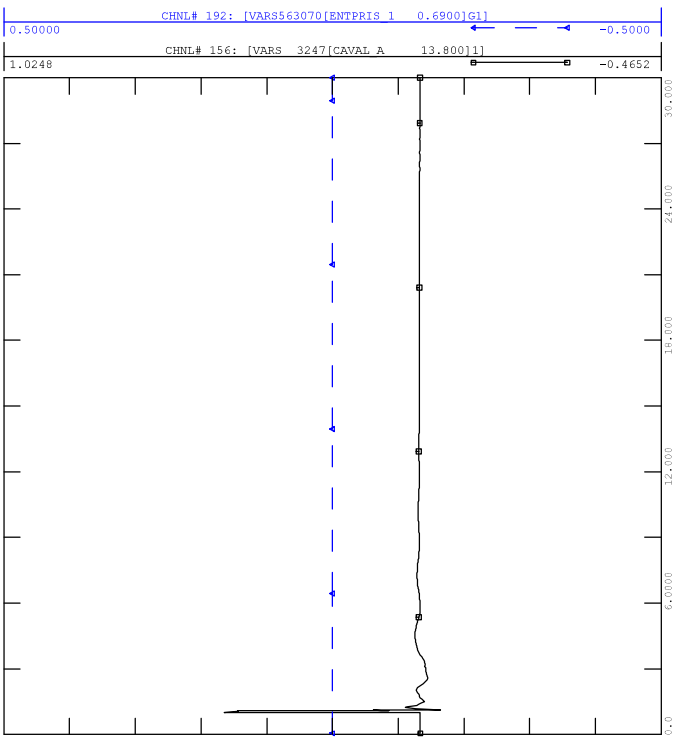


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1486 0.77480

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 333: [1107L P]
17.491 -642.6
CHNL# 311: [1106L P]
17.567 -642.7
CHNL# 323: [1005L P]
129.10 -396.5
CHNL# 335: [1036L P]
176.30 -546.7
CHNL# 327: [935L P]
46.116 -40.00
CHNL# 315: [923L P]
546.57 -781.7

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1071 0.33040
CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1603 0.72570

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out

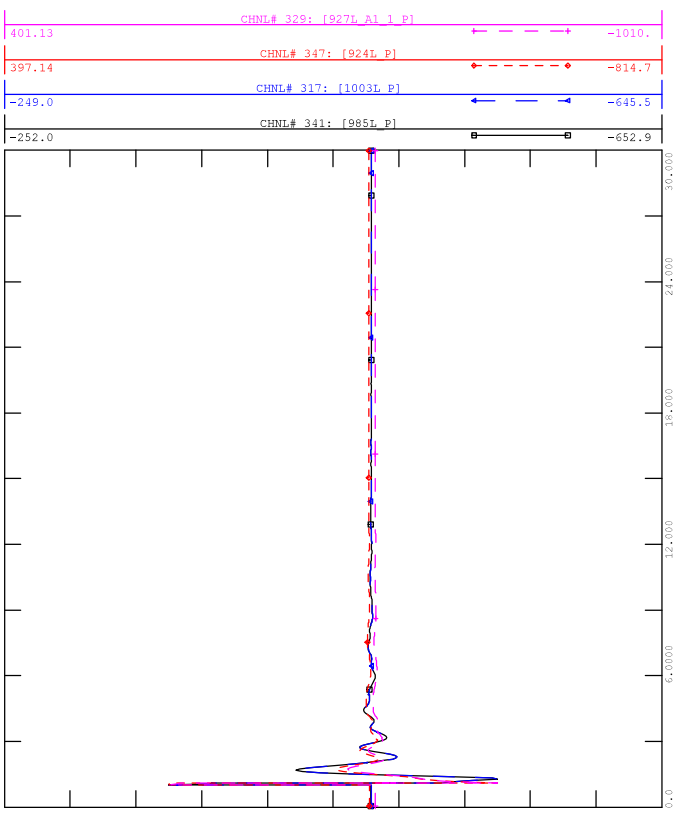
SAT, MAY 21 2022 1:16 BUS VOLTAGE

CHNL# 305: [VOLT 457 [MATLB1 240.00]]
1.2079 0.12520
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3838 0.22580
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1695 0.57950
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1770 0.42030
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2336 -0.0883
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1723 0.52750

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

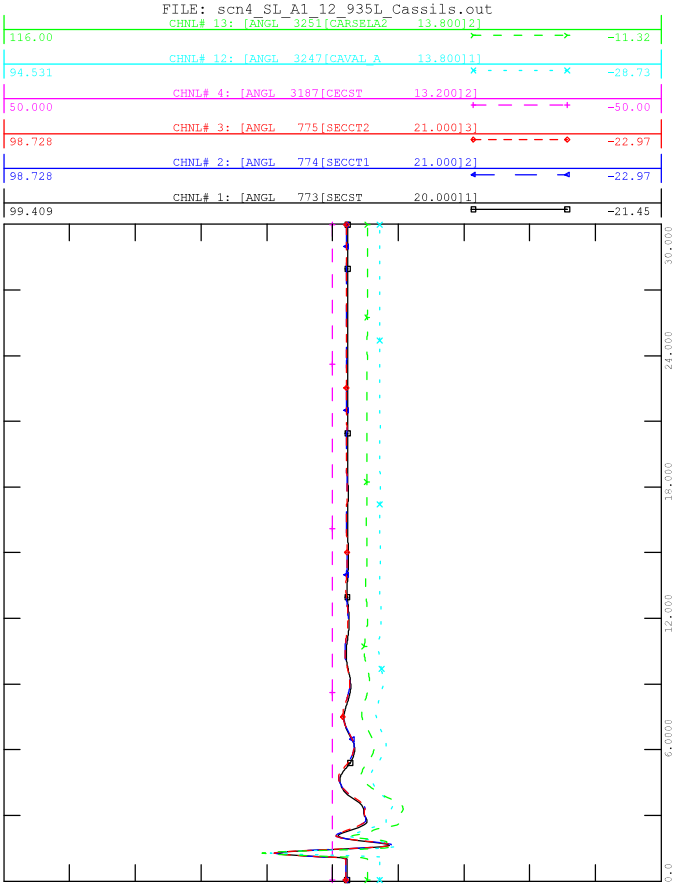
FILE: scn4_SL_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

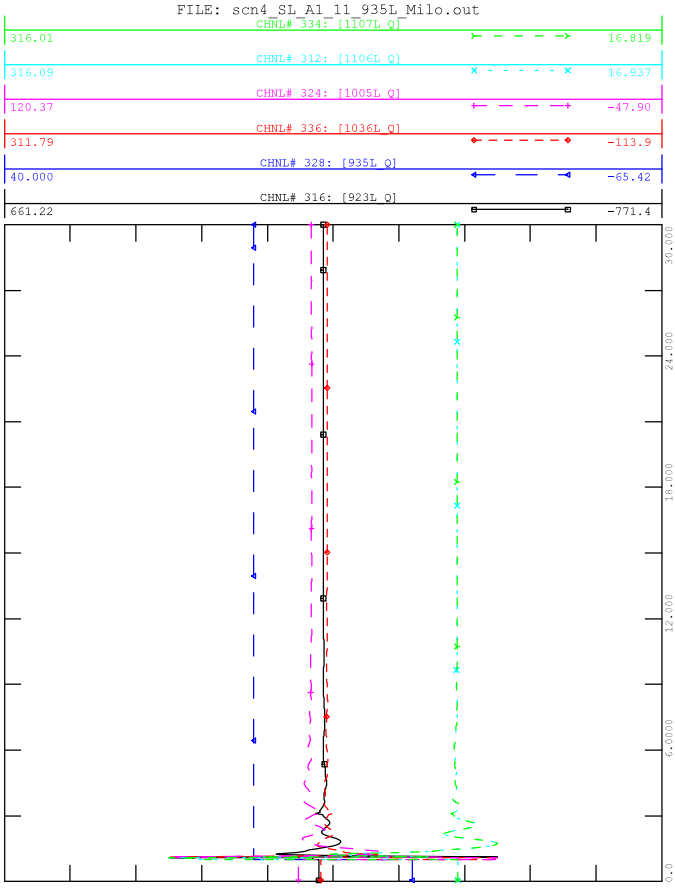
FILE: scn4_SL_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:16
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

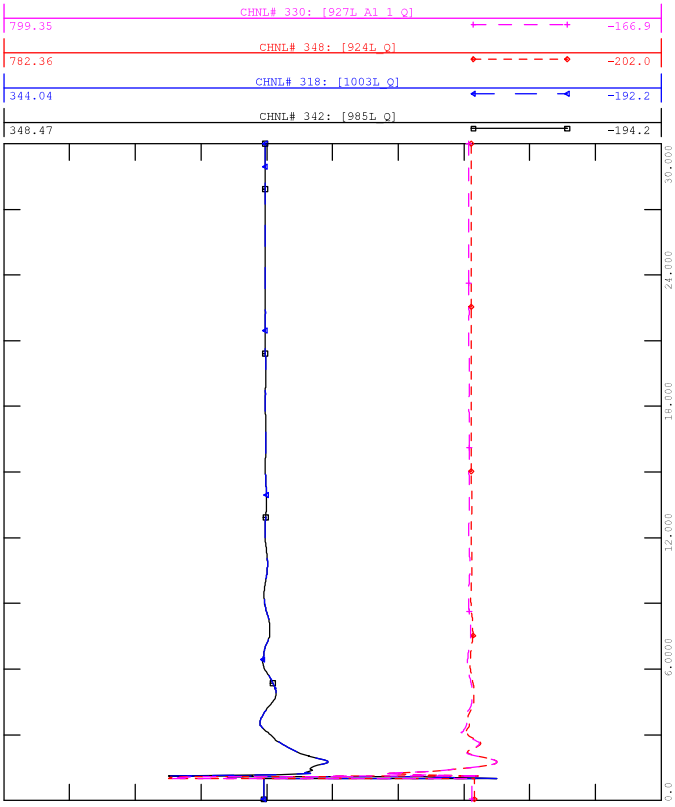
FILE: scn4_SL_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_11_935L_MILO

FILE: scn4_SL_A1_11_935L_Milo.out



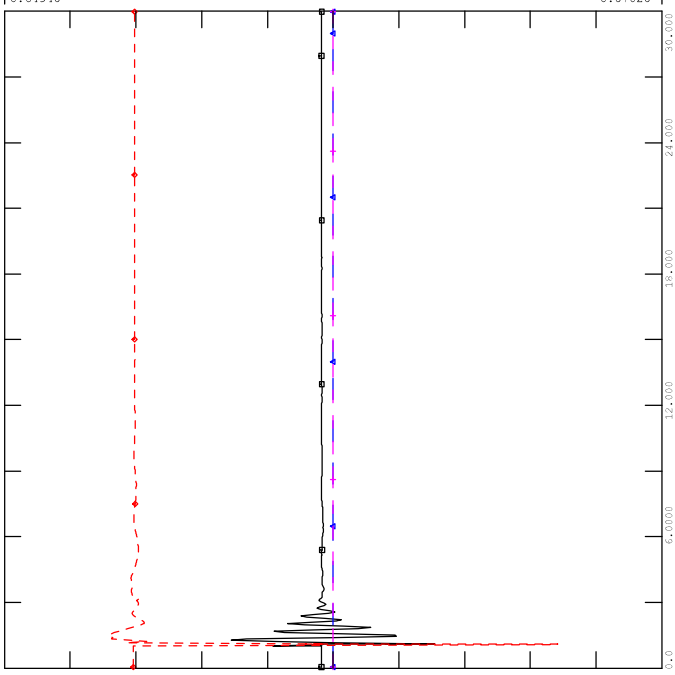
SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.6275 0.36380
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.64940 0.07020

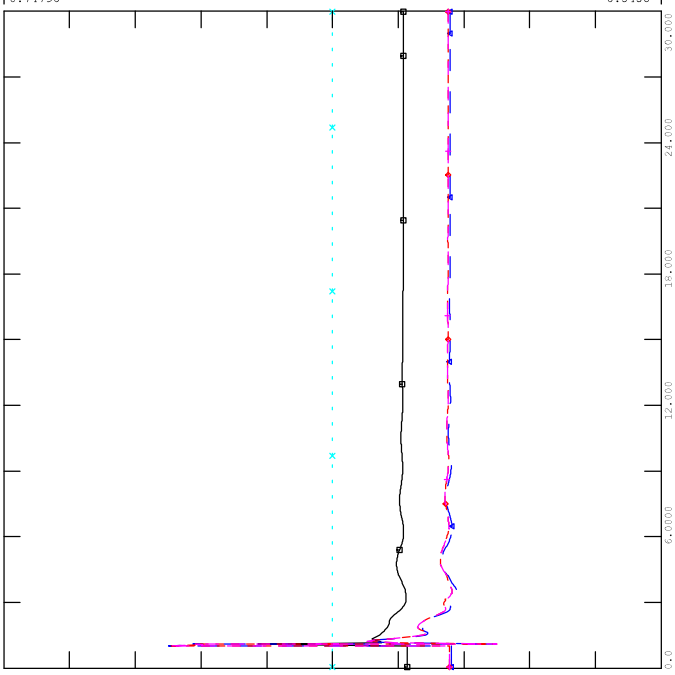


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 148: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 147: [VARS 775[SECCT2 21.000]3]
2.8219 -1.628
CHNL# 146: [VARS 774[SECCT1 21.000]2]
2.8219 -1.628
CHNL# 145: [VARS 773[SECST 20.000]1]
3.4811 -1.935
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1]
0.74790 -0.5458

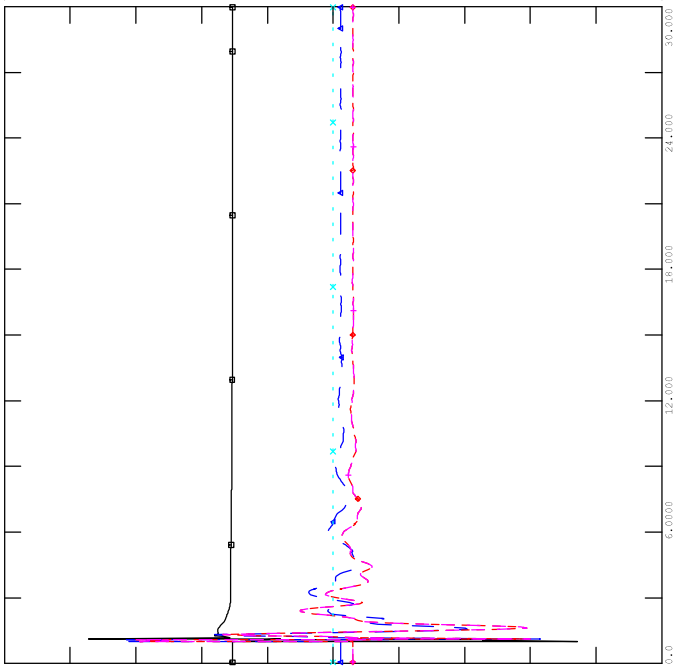


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3]
1.9515 0.95250
CHNL# 98: [POWR 774[SECCT1 21.000]2]
1.9515 0.95250
CHNL# 97: [POWR 773[SECST 20.000]1]
2.4478 1.3687
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
2.0411 0.48170

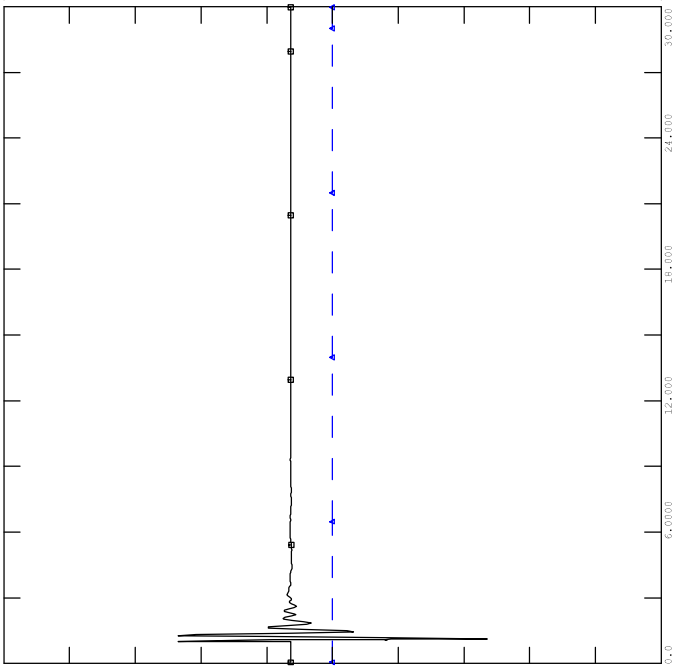


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 144: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 108: [POWR 3247[CAVAL A 13.800]1]
0.58410 -0.1719

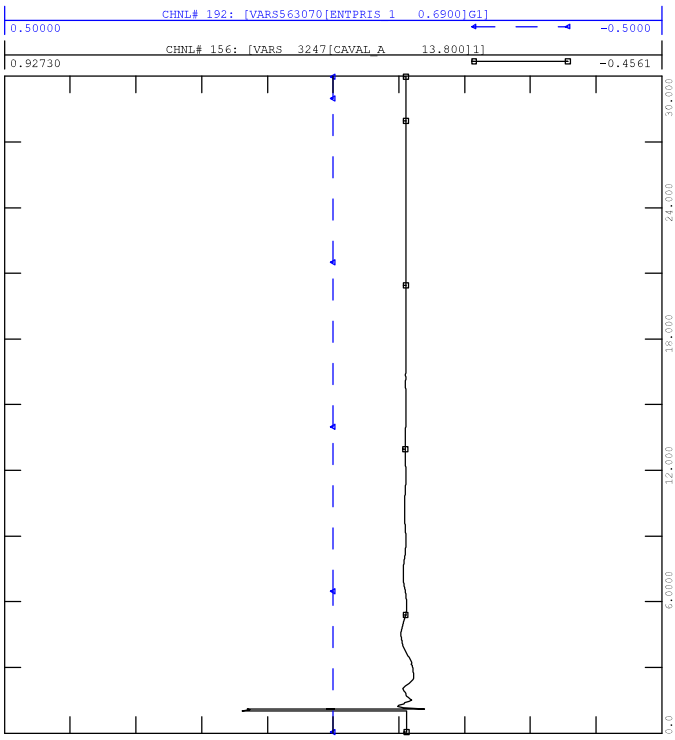


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

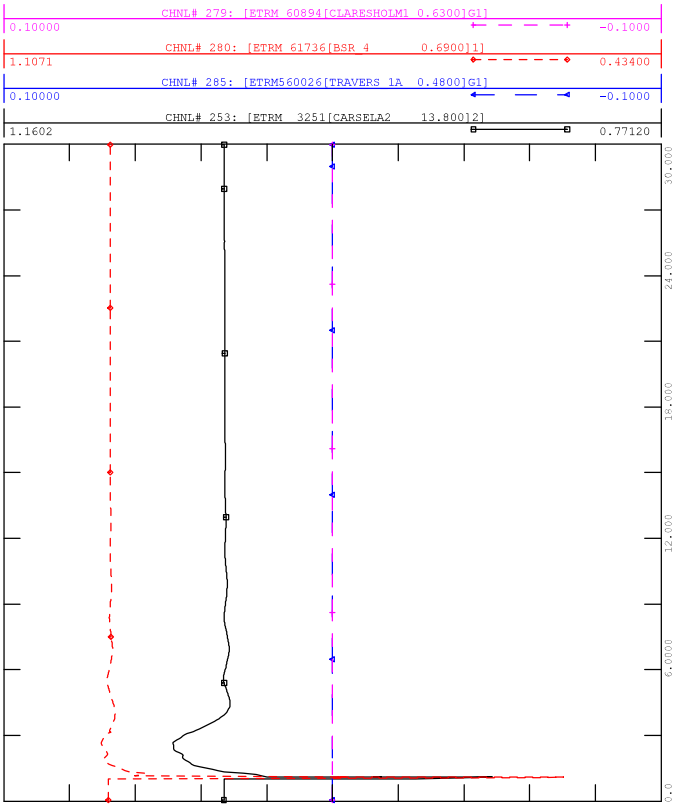


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

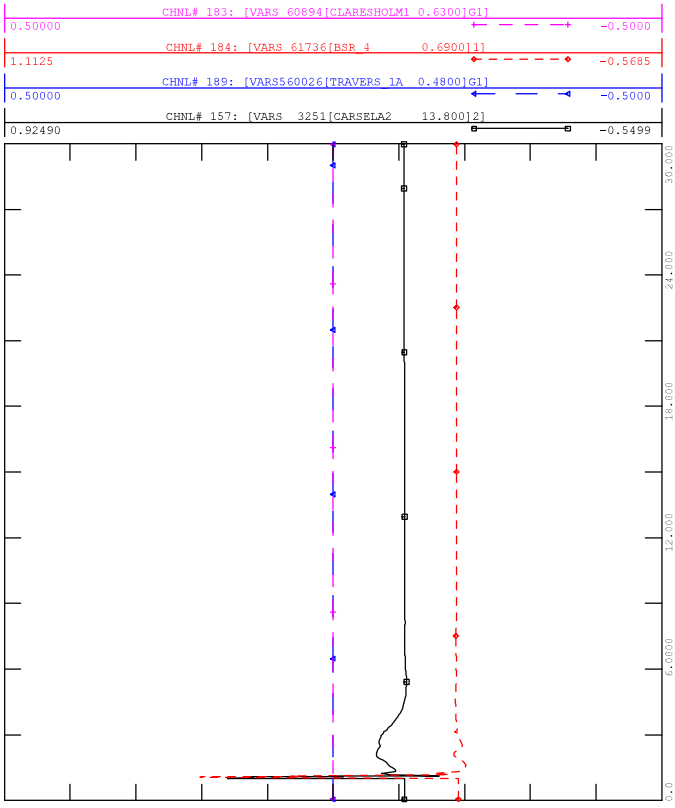


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

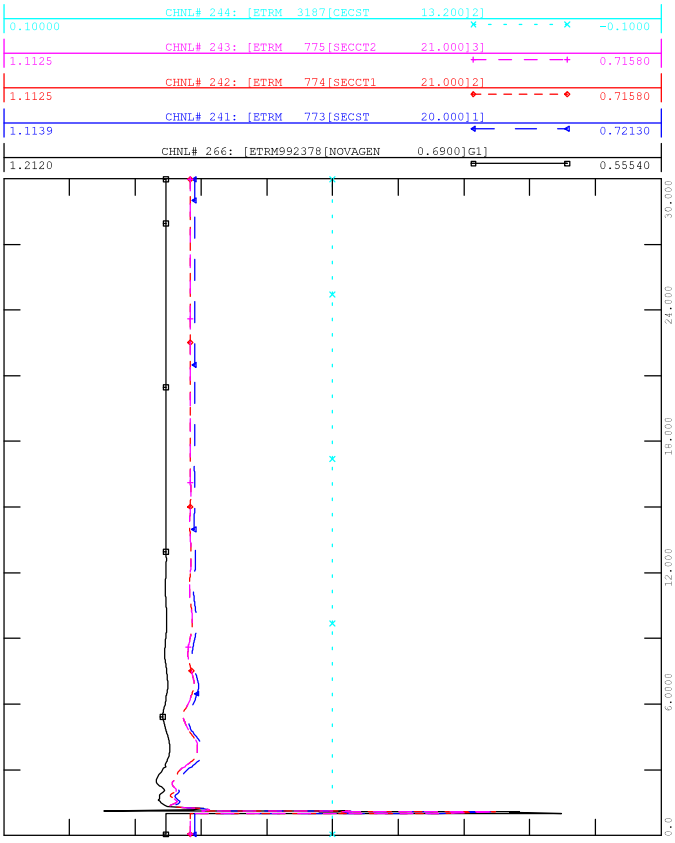


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out

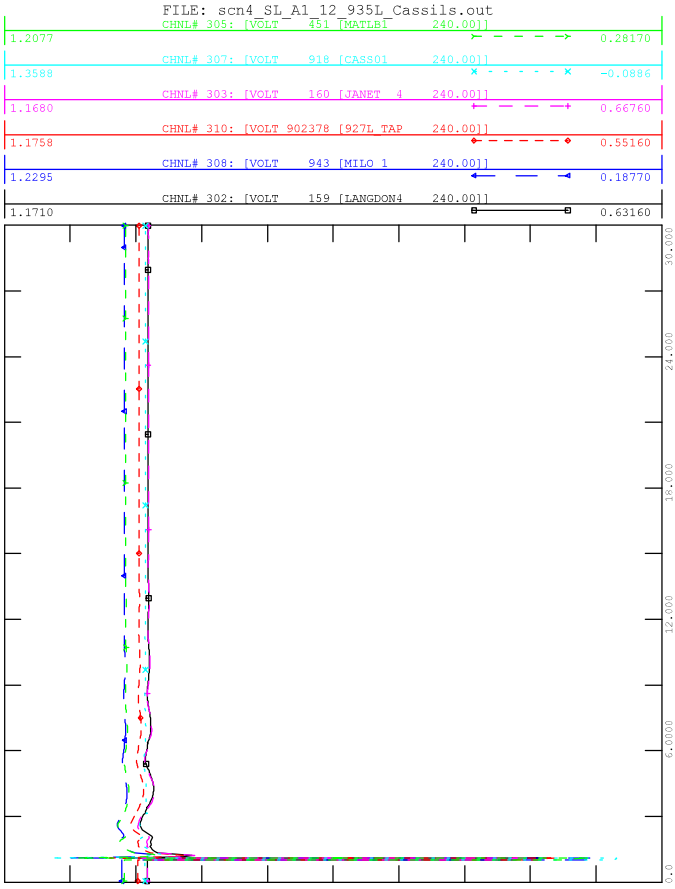
SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

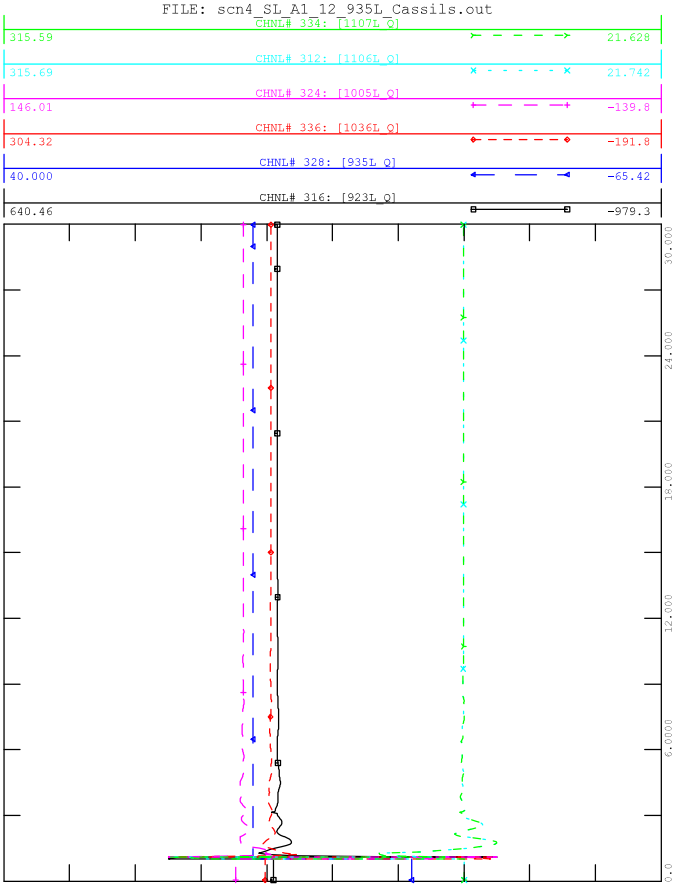
FILE: scn4_SL_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

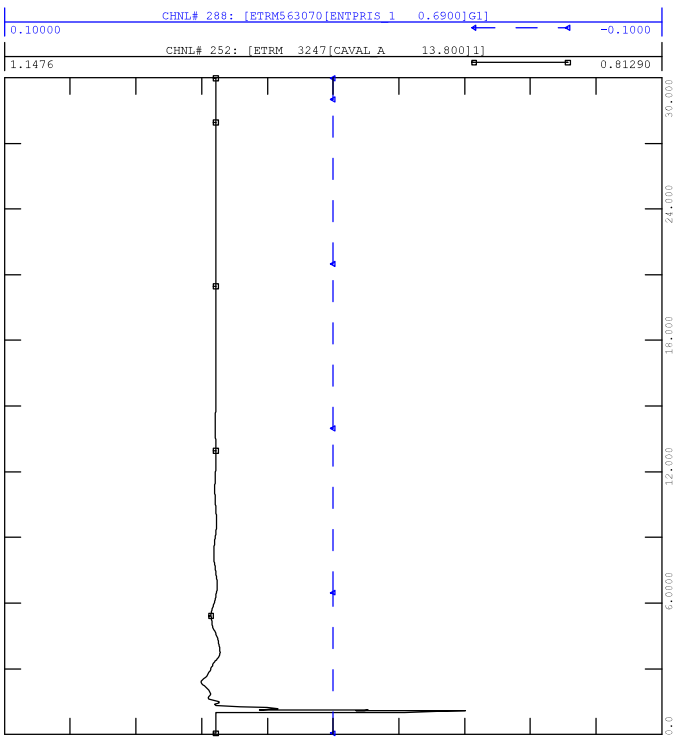
FILE: scn4_SL_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

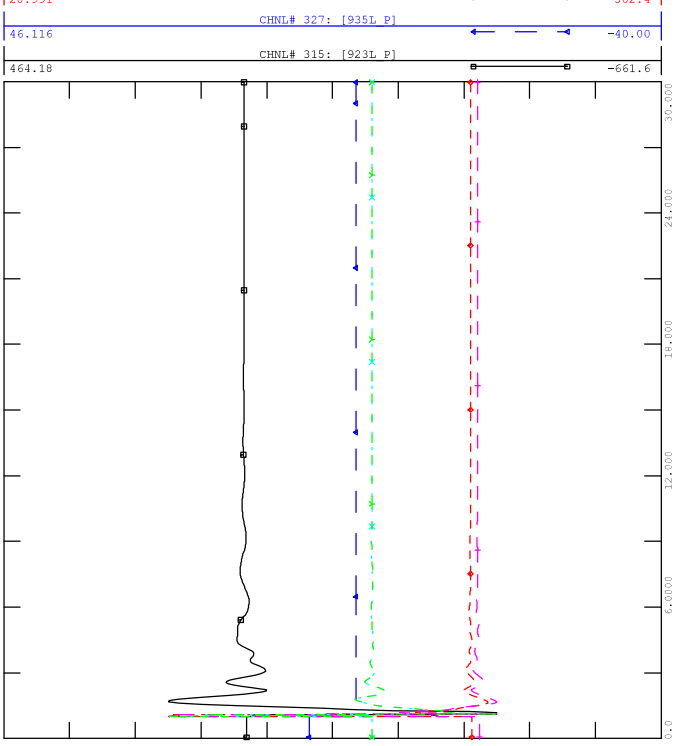
FILE: scn4_SL_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:16
BRANCH P

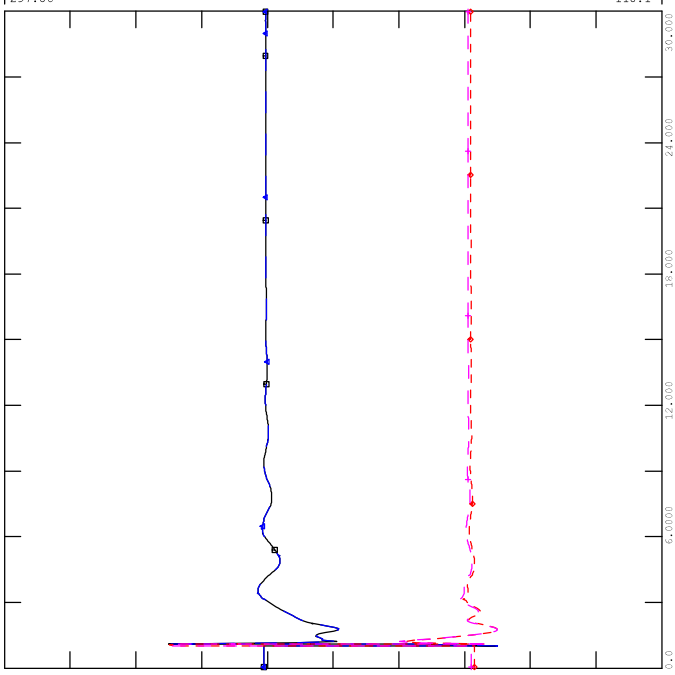
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

BRANCH Q

CHNL# 330: [927L A1 1 Q]
681.80 -121.2
CHNL# 348: [924L Q]
668.73 -157.8
CHNL# 318: [1003L Q]
294.02 -116.9
CHNL# 342: [985L Q]
297.86 -118.1



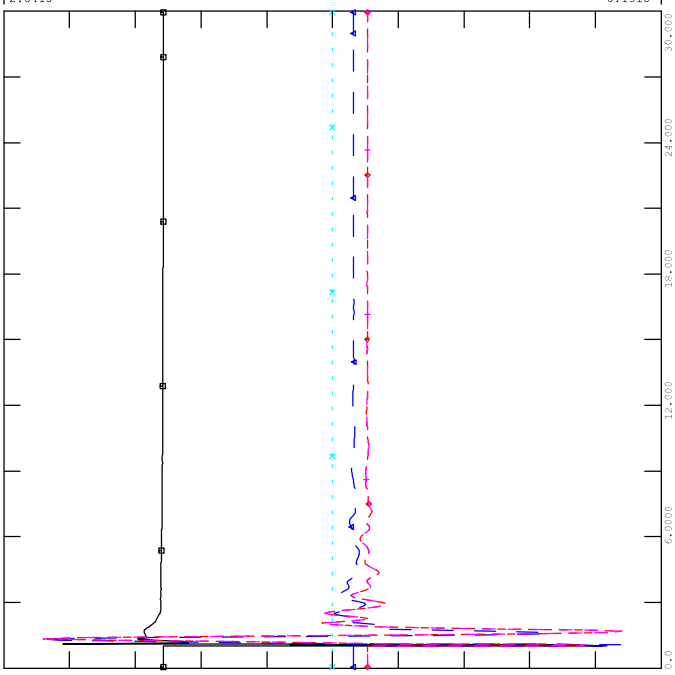
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.2001]2]
0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3]
3.2704 -0.0717
CHNL# 98: [POWR 774[SECCT1 21.000]2]
3.2704 -0.0717
CHNL# 97: [POWR 773[SECST 20.000]1]
3.7865 0.23310
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
2.0415 -0.1918



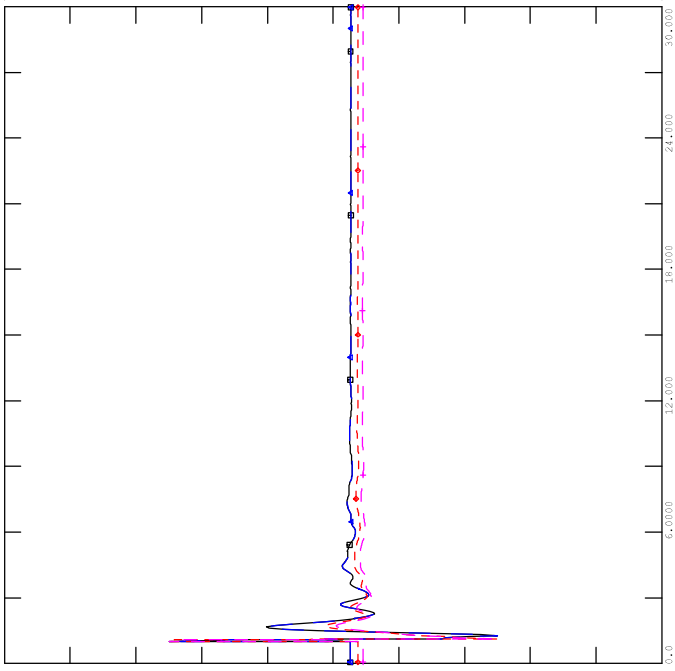
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_12_935L_CASSILS

FILE: scn4_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

BRANCH P

CHNL# 329: [927L A1 1 P]
233.73 -920.0
CHNL# 347: [924L P]
258.07 -733.3
CHNL# 317: [1003L P]
-303.8 -619.8
CHNL# 341: [985L P]
-307.4 -626.9



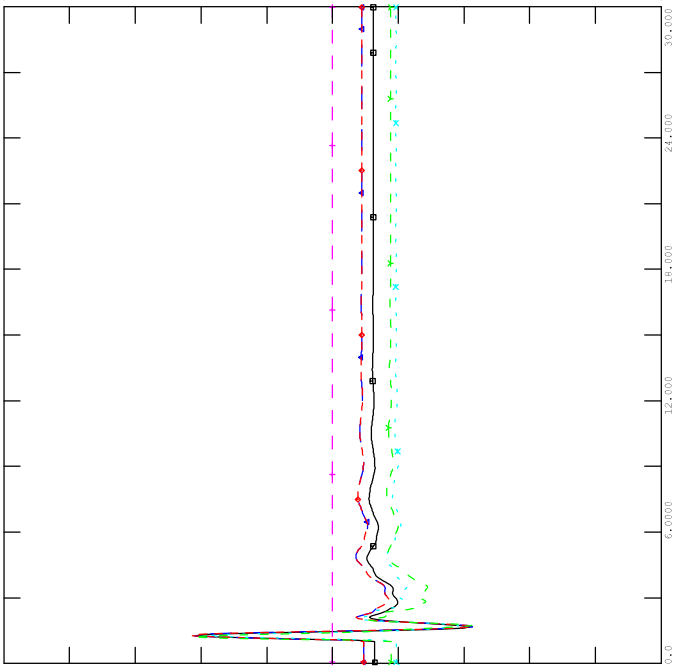
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

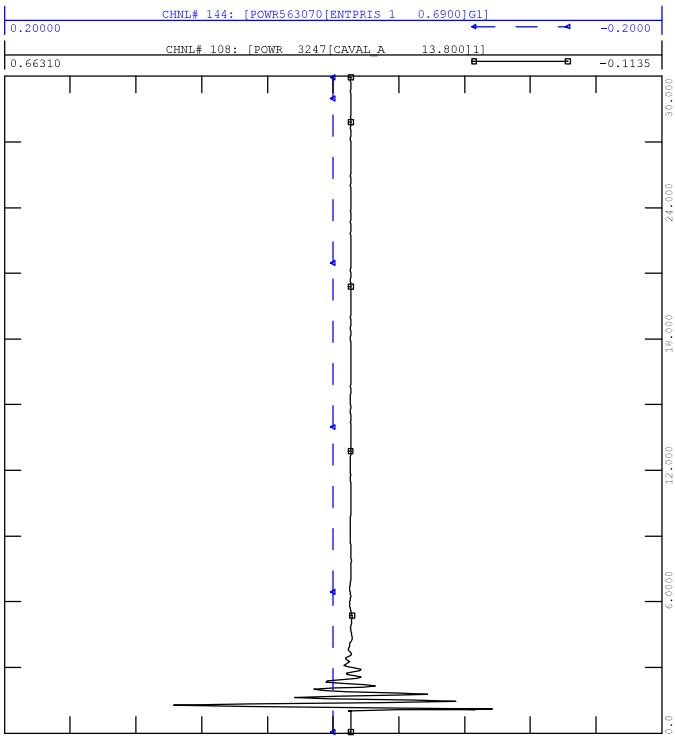
CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2]
147.95 -25.70
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
120.85 -41.26
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
130.77 -43.51
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
130.77 -43.51
CHNL# 1: [ANGL 773[SECST 20.000]1]
133.20 -38.49



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

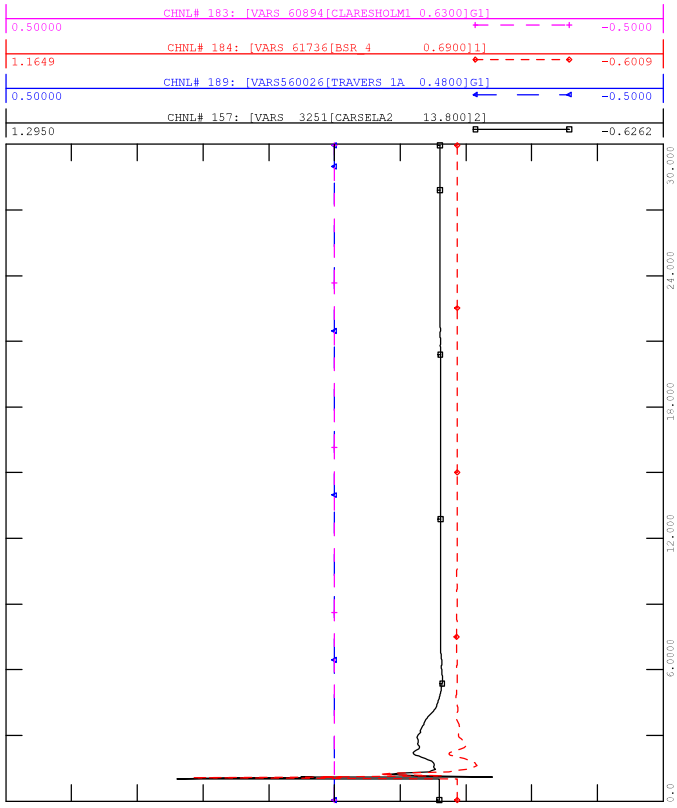
SAT, MAY 21 2022 1:16
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

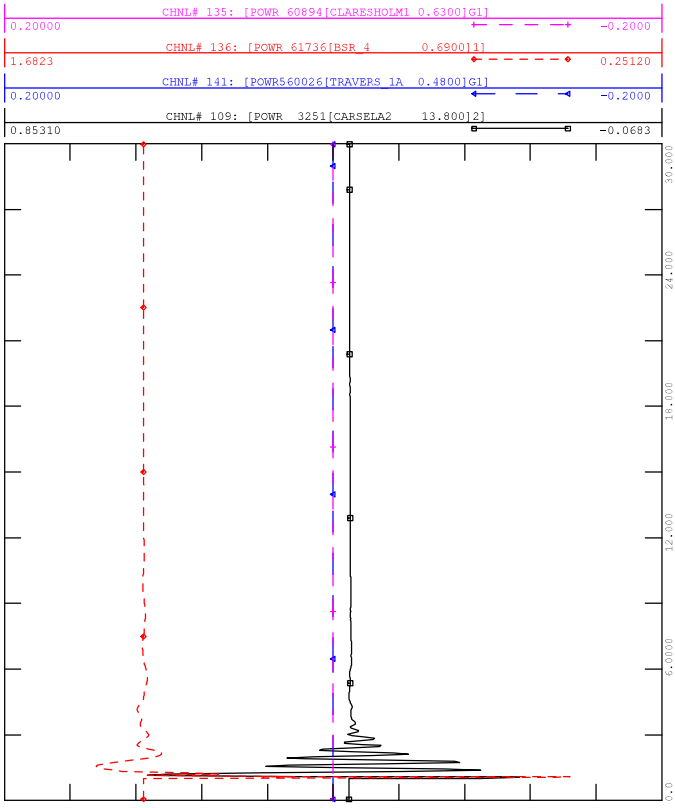
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

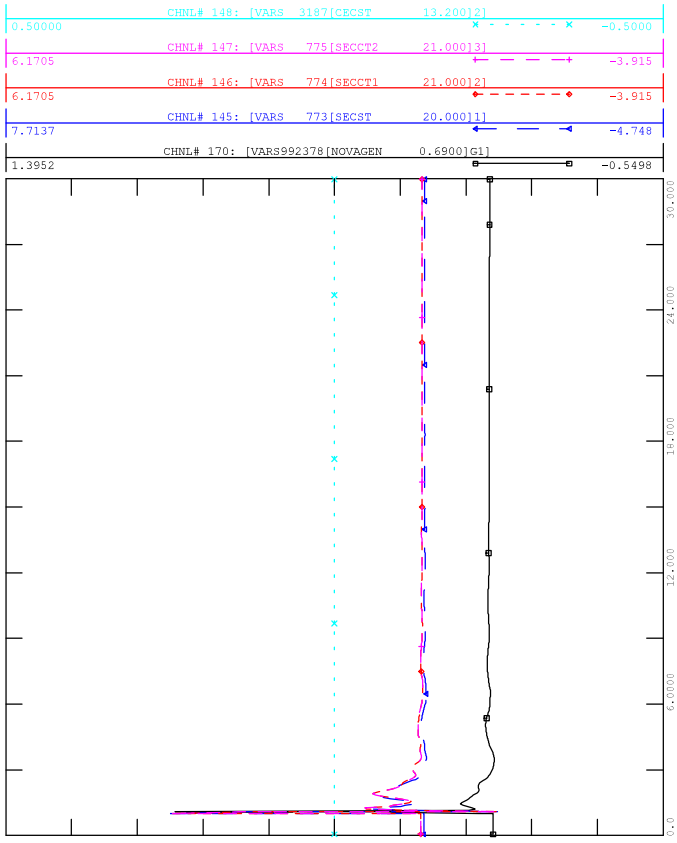
SAT, MAY 21 2022 1:16
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

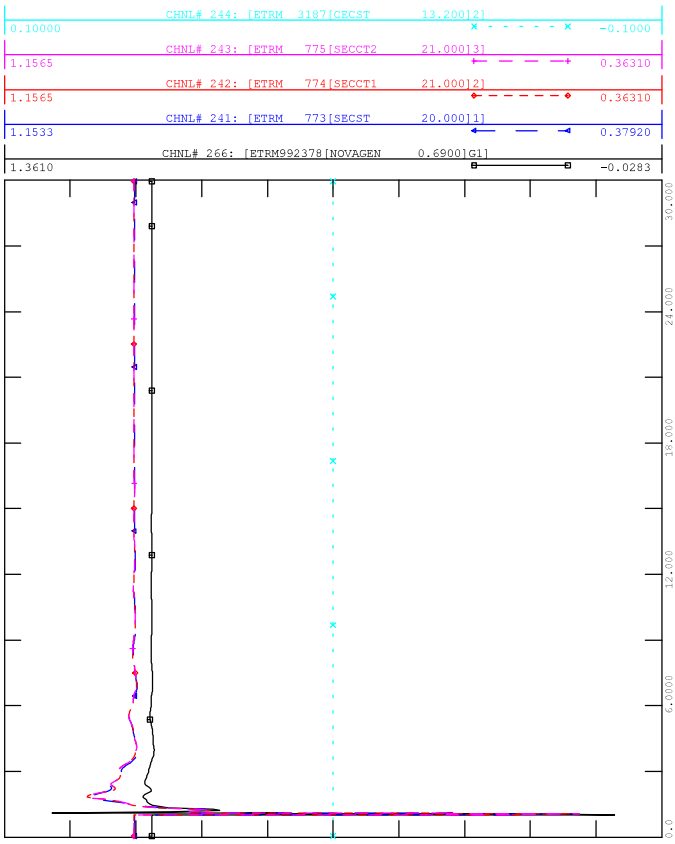


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

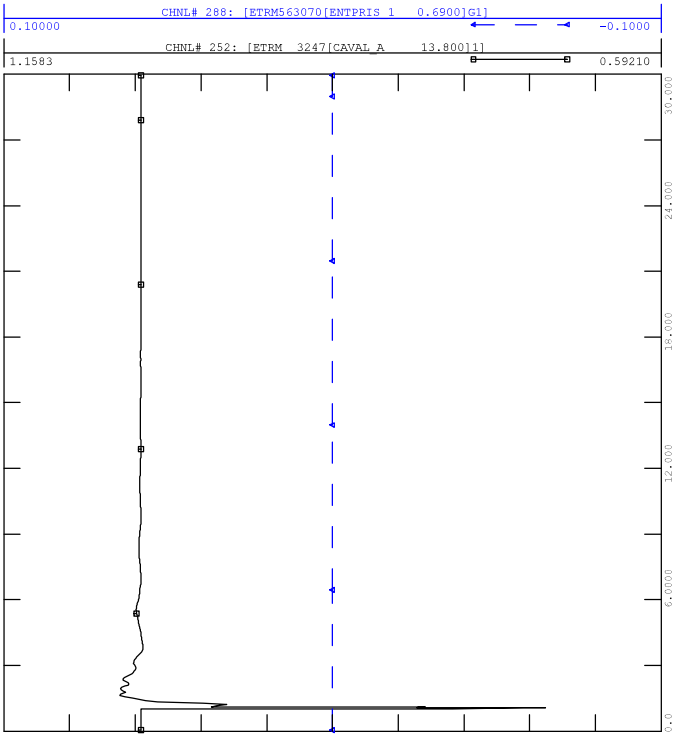


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

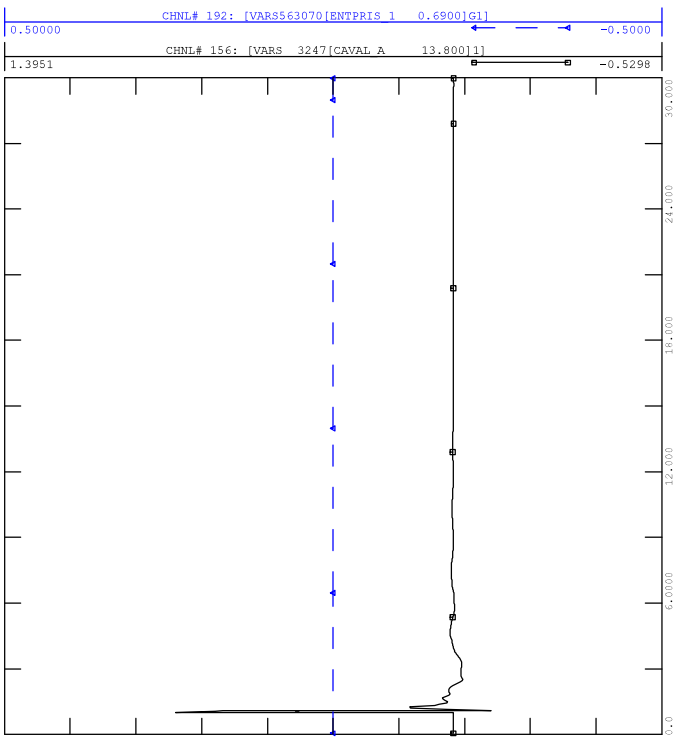


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

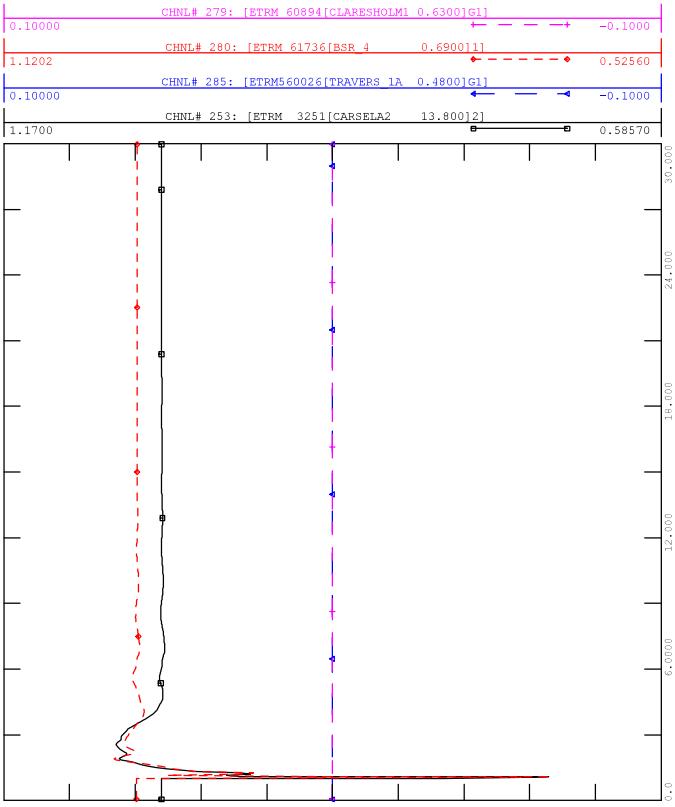


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

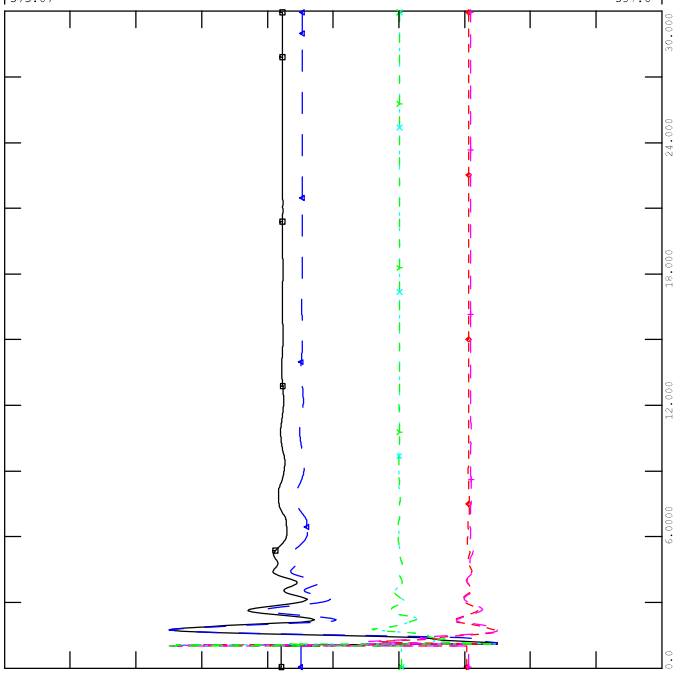


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 333: [1107L P]
136.61 -698.8
CHNL# 311: [1106L P]
136.60 -698.9
CHNL# 323: [1005L P]
100.44 -398.1
CHNL# 335: [1036L P]
82.055 -531.5
CHNL# 327: [935L P]
291.39 -341.6
CHNL# 315: [923L P]
373.07 -397.0

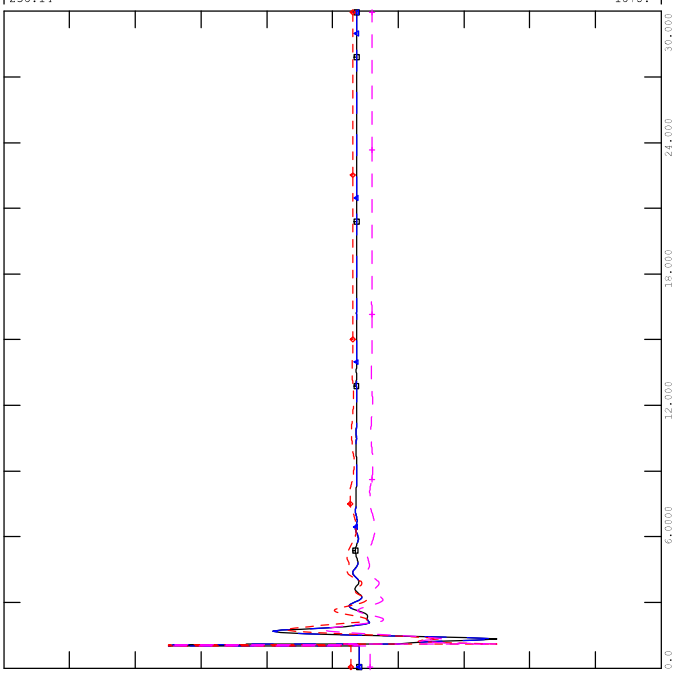


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 329: [927L A1_1 P]
317.97 -961.7
CHNL# 347: [924L P]
244.03 -739.8
CHNL# 317: [1003L P]
227.74 -1063.
CHNL# 341: [985L P]
230.14 -1075.

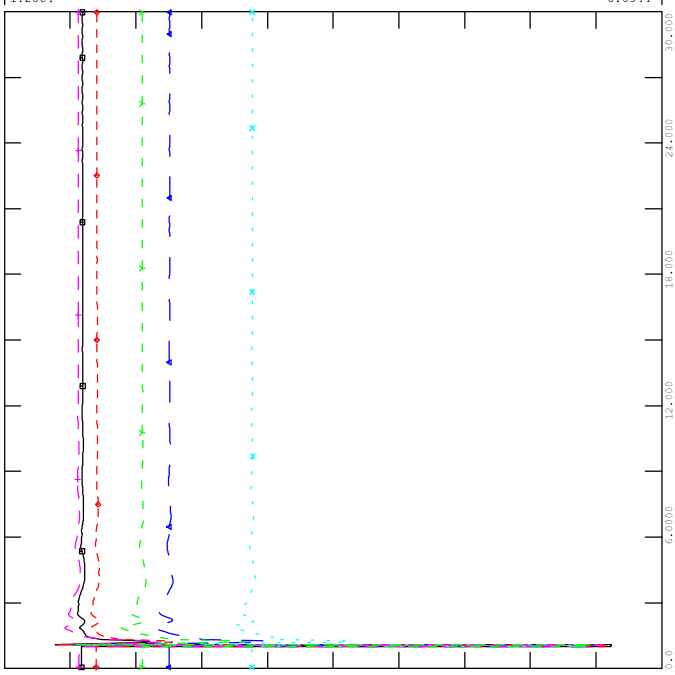


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16 BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.2397 0.27920
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3724 0.51340
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1820 0.09380
CHNL# 310: [VOLT 902378 [927L_TAP 240.00]]
1.2229 -0.0206
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2859 0.31630
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.2064 -0.0944

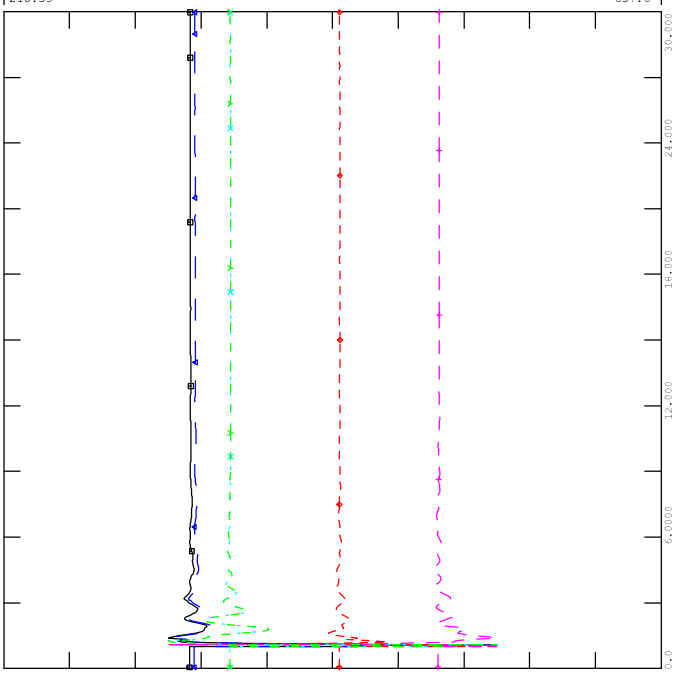


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH Q

CHNL# 334: [1107L Q]
260.20 -177.3
CHNL# 312: [1106L Q]
260.38 -177.3
CHNL# 324: [1005L Q]
211.32 -40.27
CHNL# 336: [1036L Q]
397.76 -172.4
CHNL# 328: [935L Q]
199.88 -578.2
CHNL# 316: [923L Q]
218.39 -637.6



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

FILE: scn4_SL_A1_14_1065L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
147.95 -25.70
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
120.85 -41.26
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
130.77 -43.51
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
130.77 -43.51
CHNL# 1: [ANGL 773[SECST 20.000]1]
133.20 -38.49

SAT, MAY 21 2022 1:16
ROTOR ANGLE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

FILE: scn4_SL_A1_14_1065L_Langdon.out

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.6823 0.25120
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.85310 -0.0683

SAT, MAY 21 2022 1:16
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_13_1064L_LANGDON

FILE: scn4_SL_A1_13_1064L_Langdon.out

CHNL# 330: [927L A1 1 Q]
393.75 -314.0
CHNL# 348: [924L Q]
315.17 -251.7
CHNL# 318: [1003L Q]
654.47 -639.2
CHNL# 342: [985L Q]
662.57 -646.6

SAT, MAY 21 2022 1:16
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

FILE: scn4_SL_A1_14_1065L_Langdon.out

CHNL# 100: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3]
3.2704 -0.0717
CHNL# 98: [POWR 774[SECCT1 21.000]2]
3.2704 -0.0717
CHNL# 97: [POWR 773[SECST 20.000]1]
3.7865 0.23310
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
2.0415 -0.1918

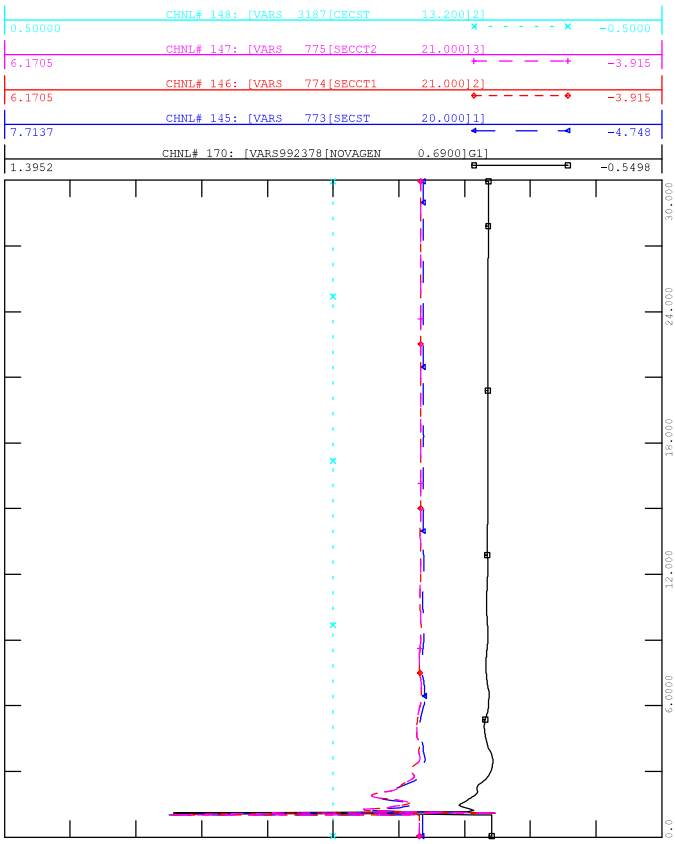
SAT, MAY 21 2022 1:16
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

FILE: scn4_SL_A1_14_1065L_Langdon.out

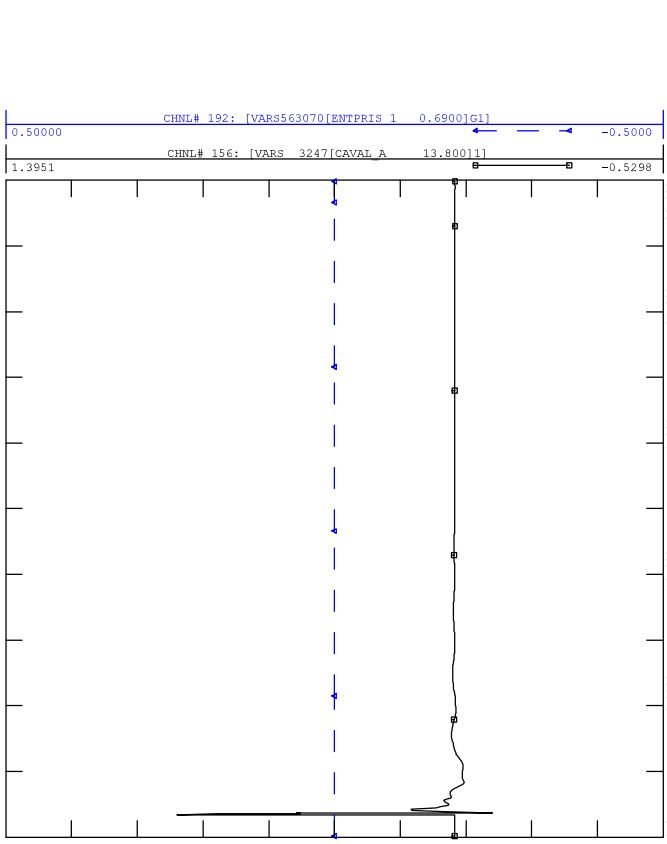
SAT, MAY 21 2022 1:16 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

FILE: scn4_SL_A1_14_1065L_Langdon.out

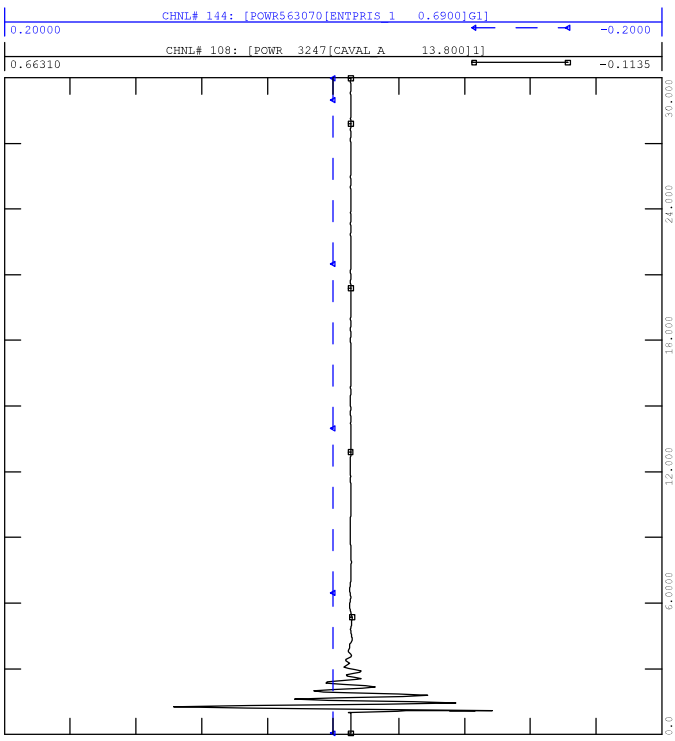
SAT, MAY 21 2022 1:16 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

FILE: scn4_SL_A1_14_1065L_Langdon.out

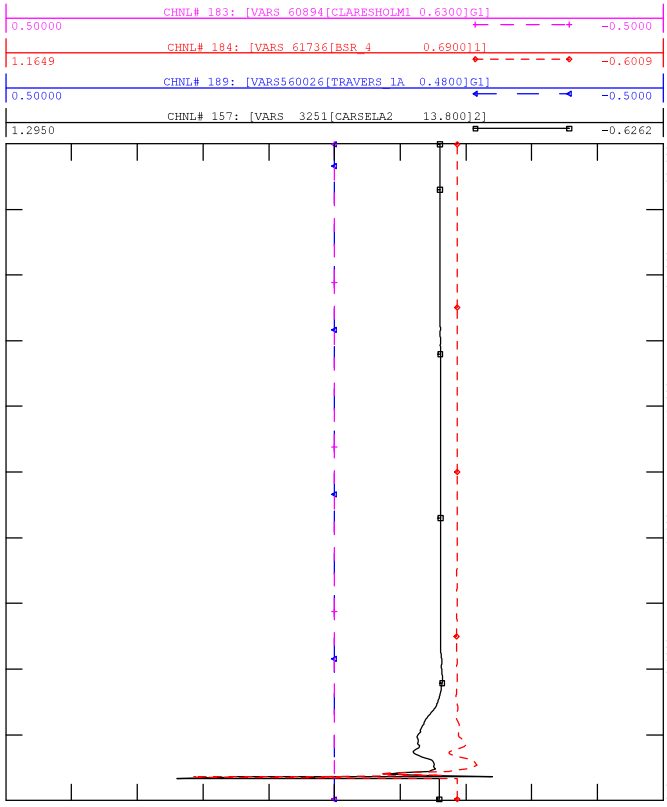
SAT, MAY 21 2022 1:16 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

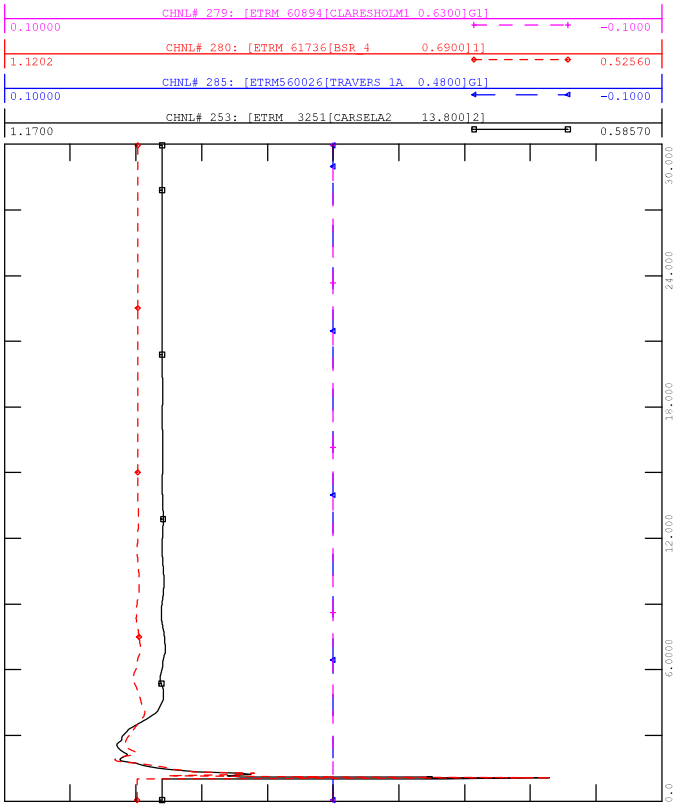
FILE: scn4_SL_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

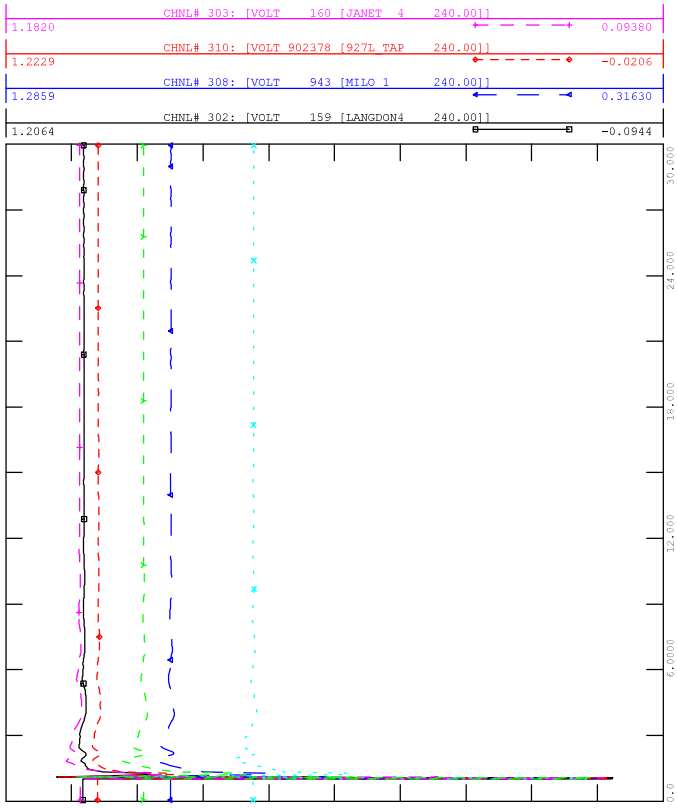
FILE: scn4_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

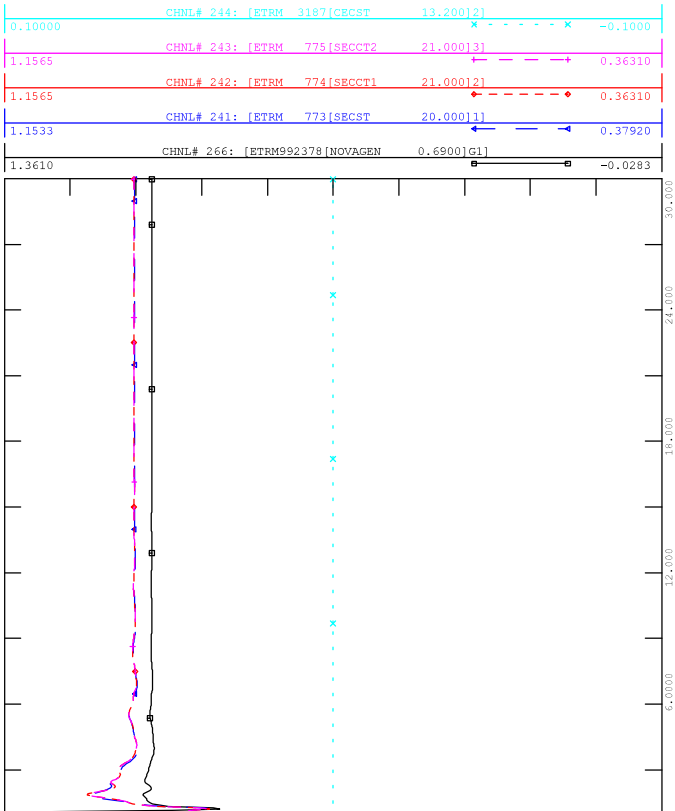
FILE: scn4_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

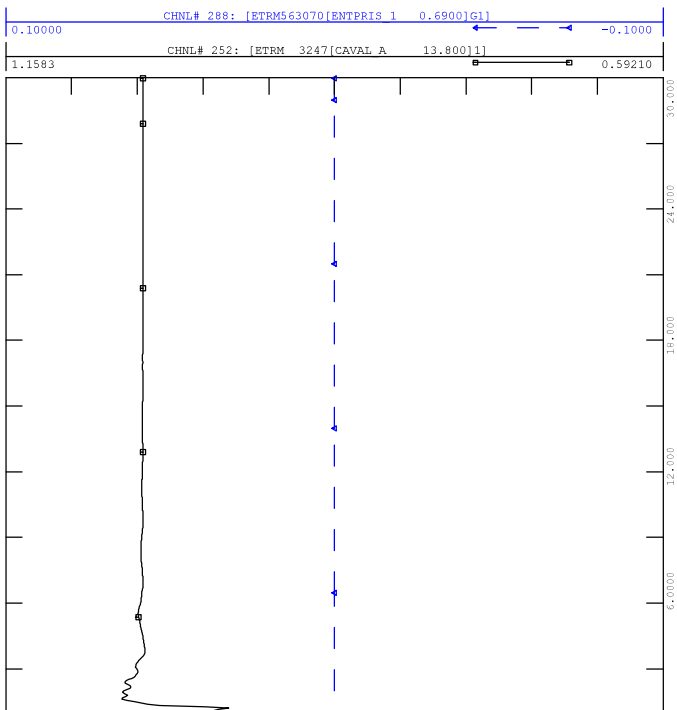
FILE: scn4_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

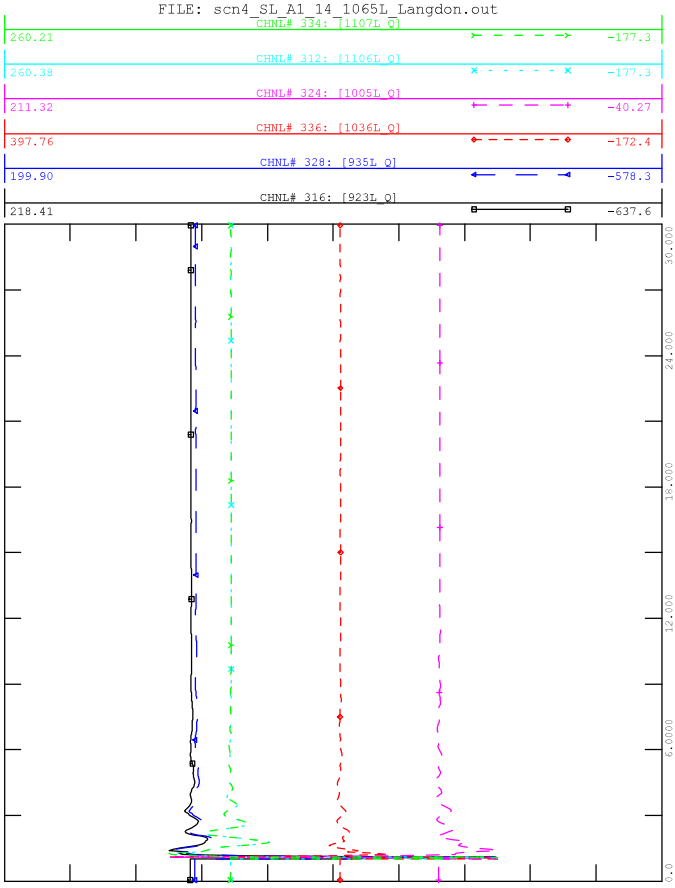
FILE: scn4_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

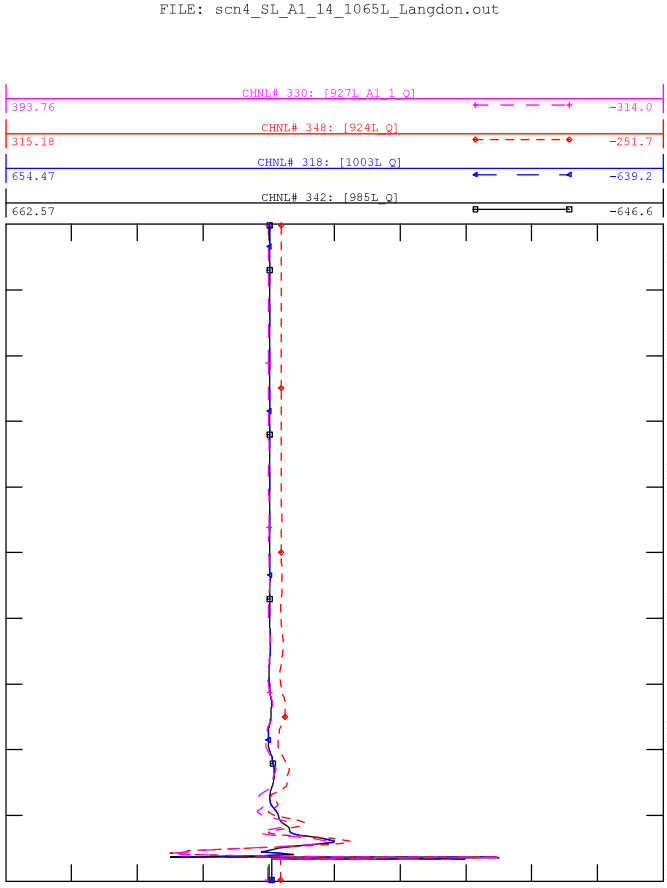
FILE: scn4_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:16 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

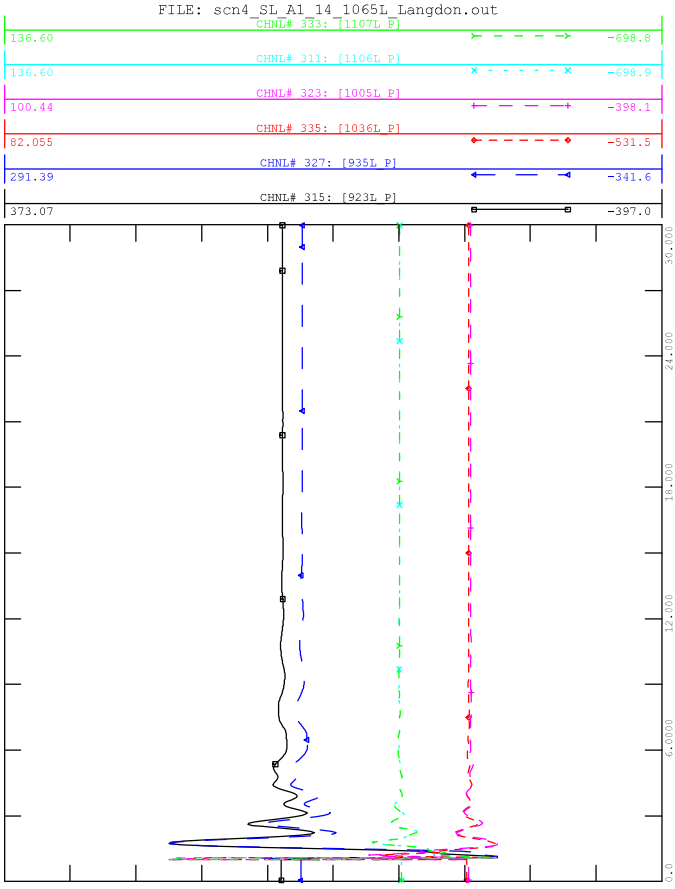
FILE: scn4_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:16 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

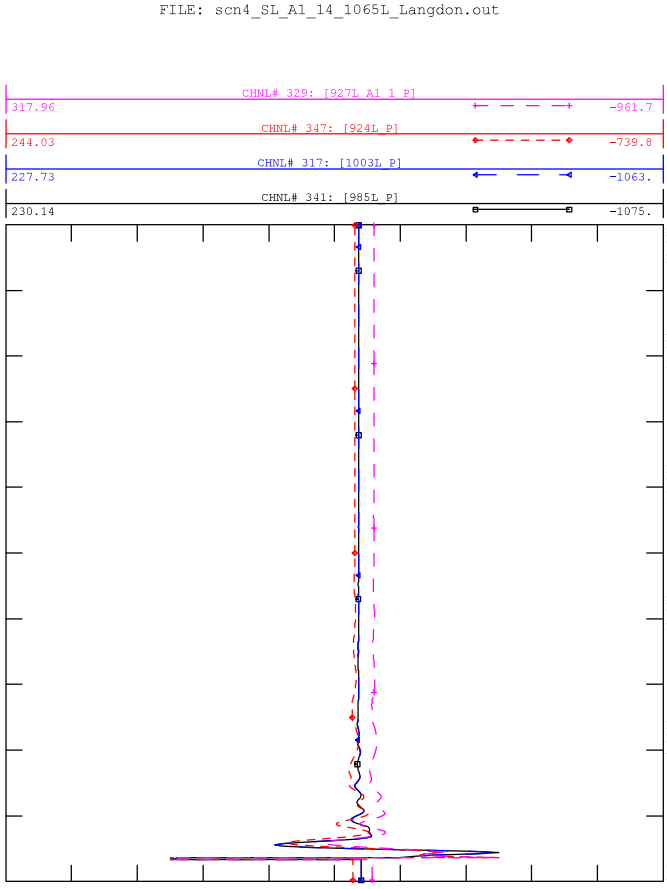
FILE: scn4_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:16 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_14_1065L_LANGDON

FILE: scn4_SL_A1_14_1065L_Langdon.out



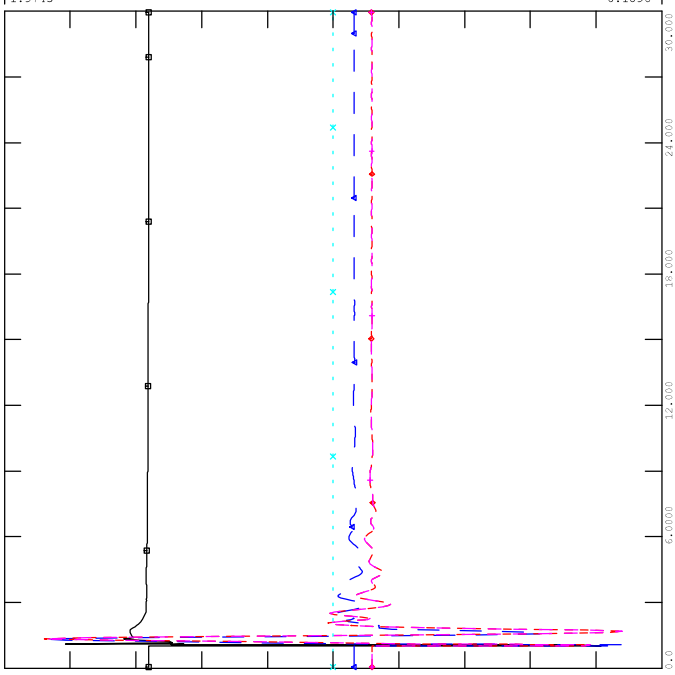
SAT, MAY 21 2022 1:16 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 100: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 99: [POWR 775[SECCT2 21.000]3]
3.2726 -0.0399
CHNL# 98: [POWR 774[SECCT1 21.000]2]
3.2726 -0.0399
CHNL# 97: [POWR 773[SECST 20.000]1]
3.7789 0.23930
CHNL# 122: [POWR992378[NOVAGEN 0.6900]G1]
1.9743 -0.1896

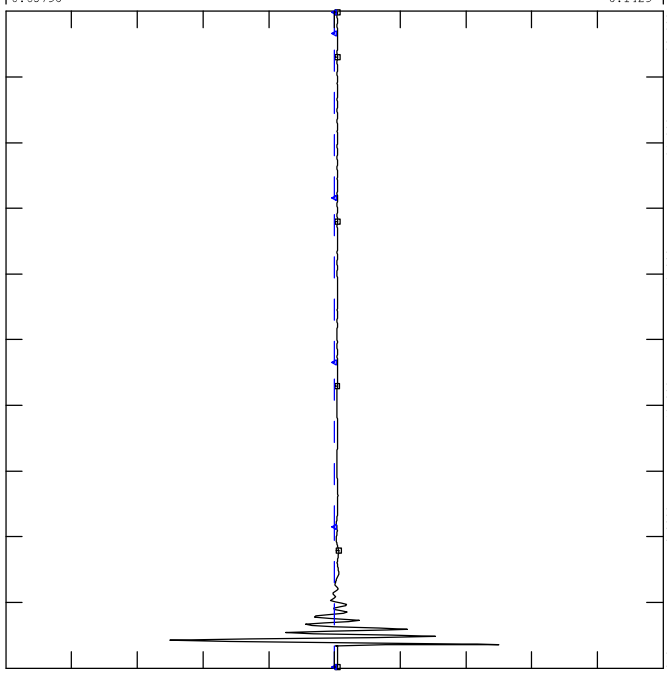


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 144: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 108: [POWR 3247[CAVAL A 13.800]1]
0.65790 -0.1429

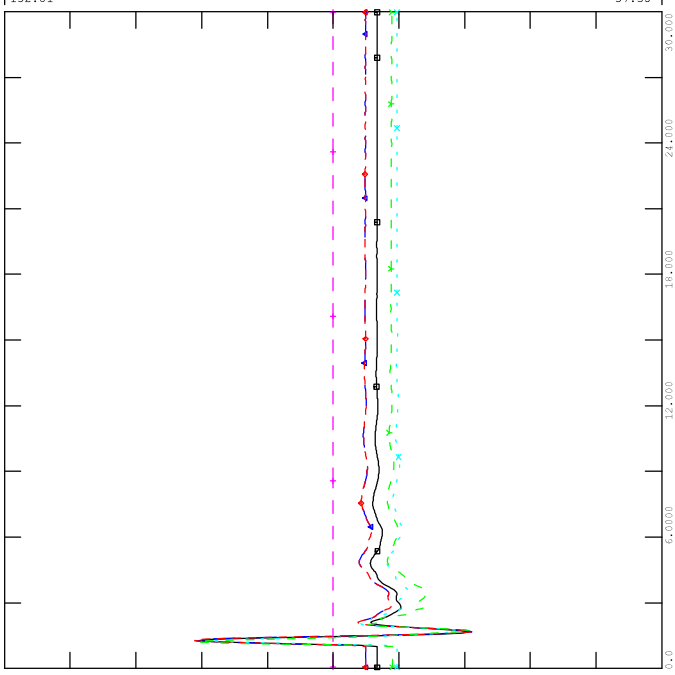


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
146.48 -24.60
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
120.26 -40.83
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
130.44 -42.54
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
130.44 -42.54
CHNL# 1: [ANGL 773[SECST 20.000]1]
132.81 -37.35

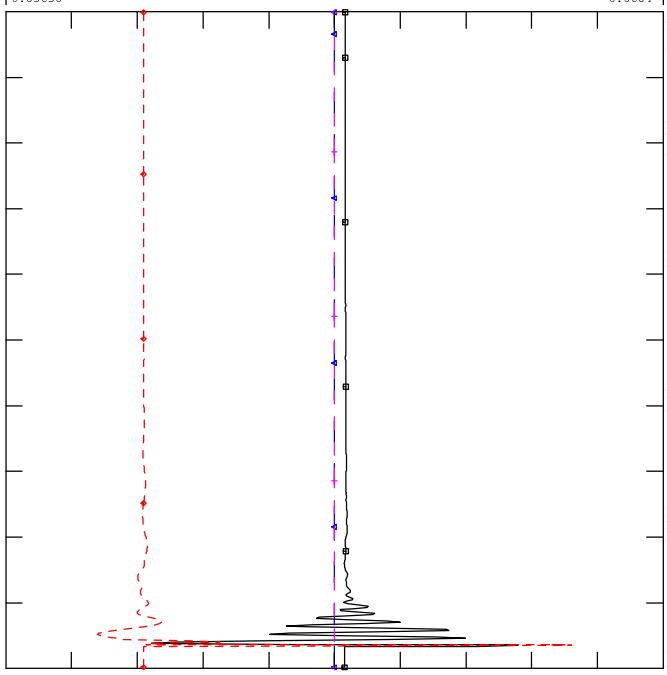


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 135: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 136: [POWR 61736[BSR 4 0.6900]1]
1.6810 0.24540
CHNL# 141: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 109: [POWR 3251[CARSELA2 13.800]2]
0.83630 -0.0684

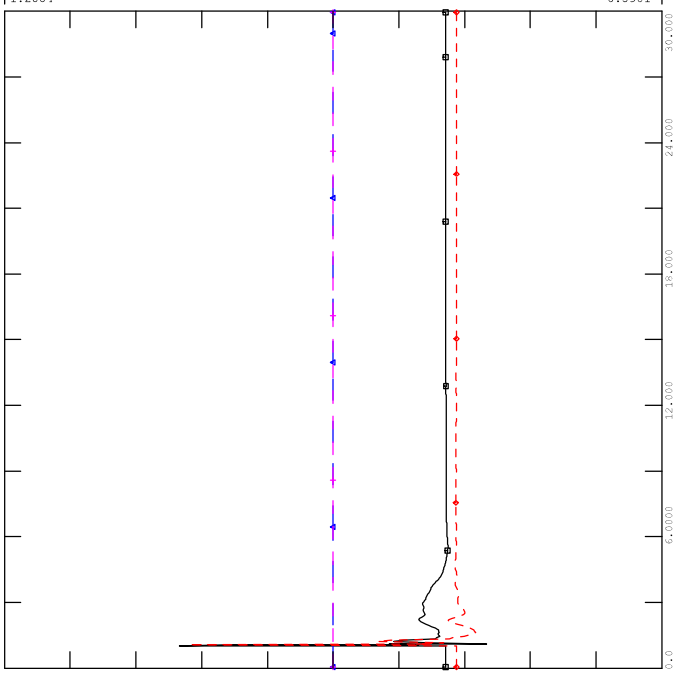


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000
CHNL# 184: [VARS 61736[BSR 4 0.6900]1] 1.1646 -0.6000
CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000
CHNL# 157: [VARS 3251[CARSELA2 13.800]2] 1.2884 -0.5901

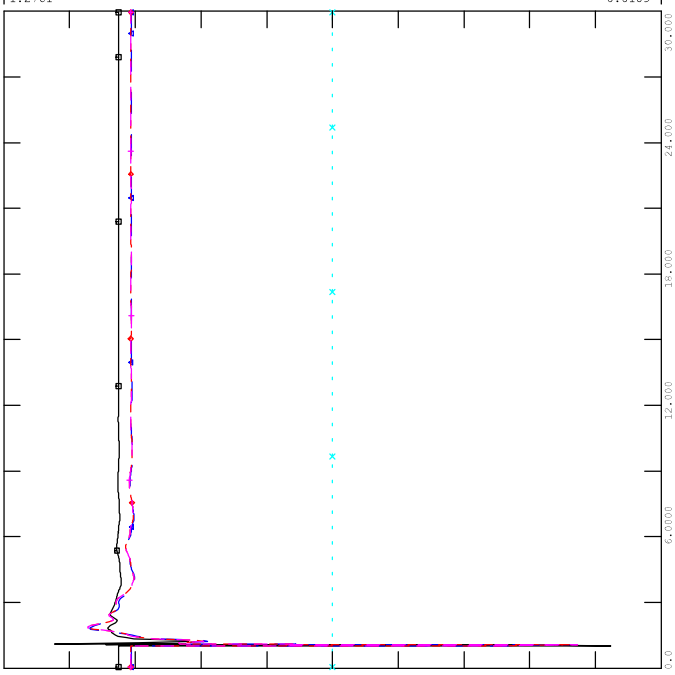


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 244: [ETRM 3187[CECST 13.200]2] 0.10000 -0.1000
CHNL# 243: [ETRM 775[SECCT2 21.000]3] 1.1515 0.36830
CHNL# 242: [ETRM 774[SECCT1 21.000]2] 1.1515 0.36830
CHNL# 241: [ETRM 773[SECST 20.000]1] 1.1483 0.38420
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1] 1.2761 -0.0189

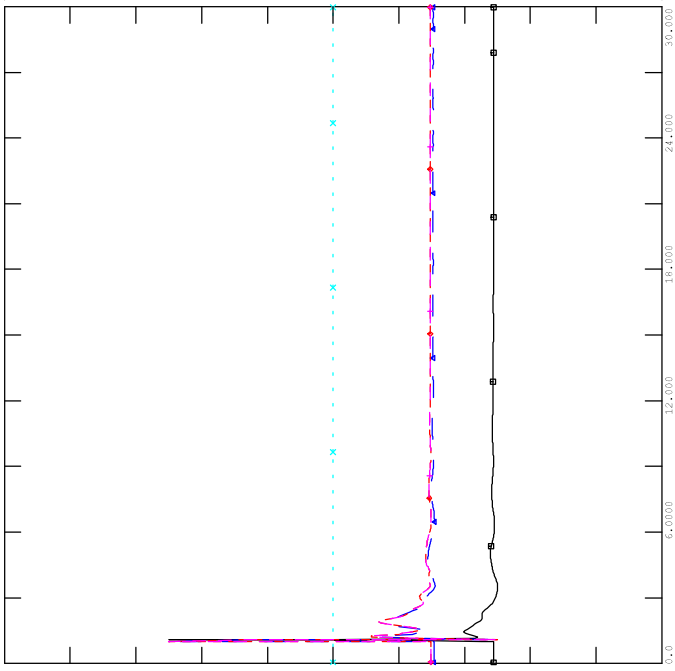


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 148: [VARS 3187[CECST 13.200]2] 0.50000 -0.5000
CHNL# 147: [VARS 775[SECCT2 21.000]3] 6.0410 -3.567
CHNL# 146: [VARS 774[SECCT1 21.000]2] 6.0410 -3.567
CHNL# 145: [VARS 773[SECST 20.000]1] 7.5529 -4.329
CHNL# 170: [VARS992378[NOVAGEN 0.6900]G1] 1.6372 -0.6237

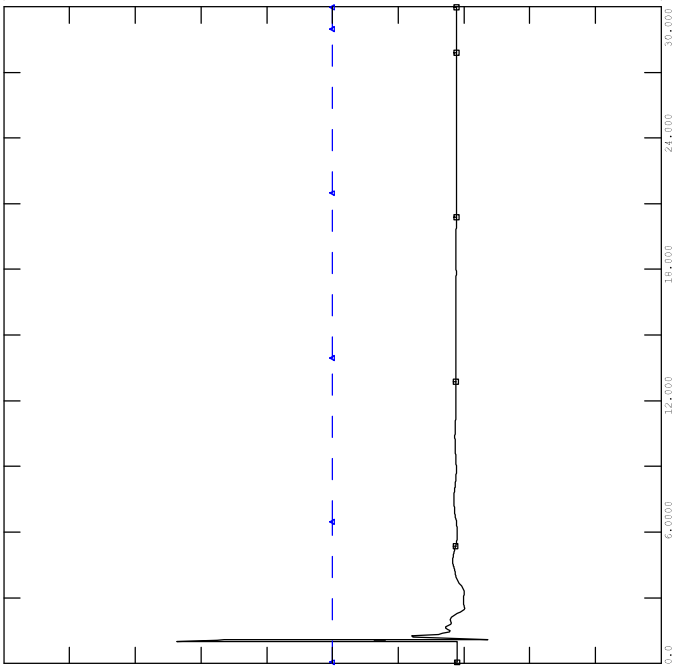


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1] 0.50000 -0.5000
CHNL# 156: [VARS 3247[CAVAL A 13.800]1] 1.3893 -0.5078



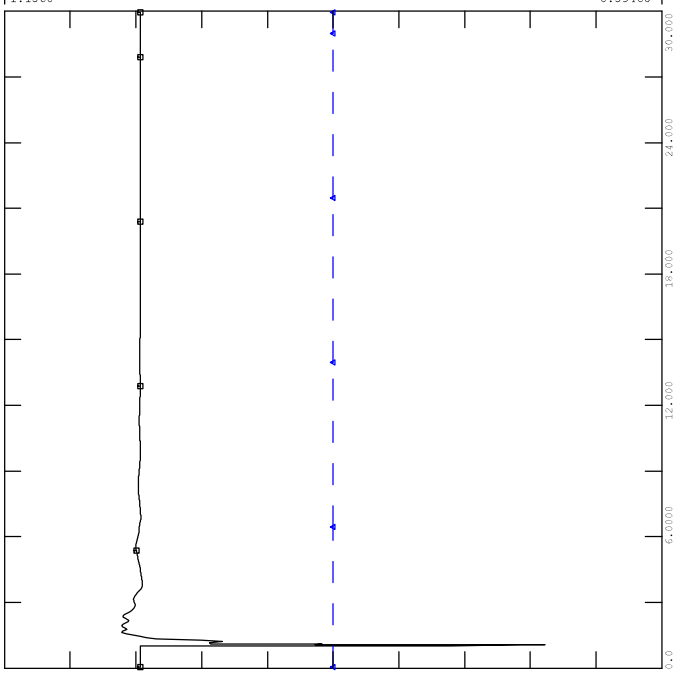
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 288: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 252: [ETRM 3247[CAVAL A 13.800]1]
1.1560 0.59460

TIME (SECONDS)



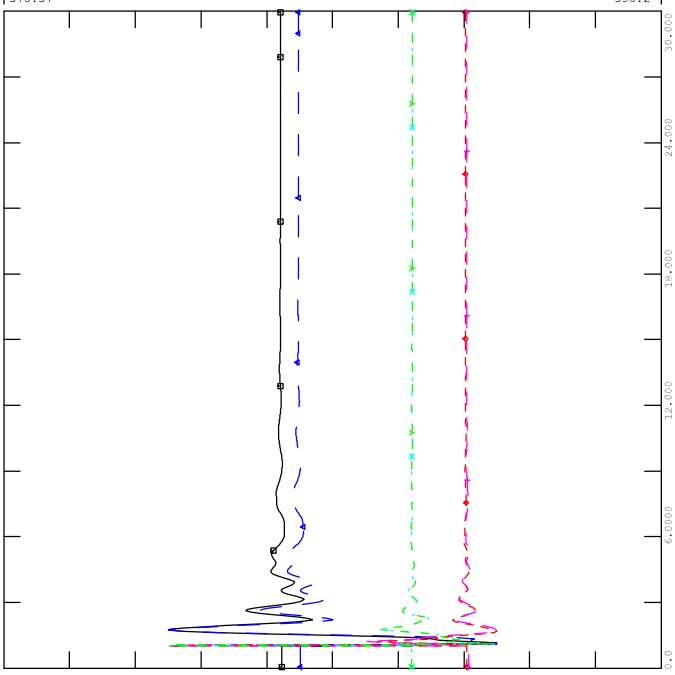
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 333: [1107L P]
122.06 -667.7
CHNL# 311: [1106L P]
122.06 -667.8
CHNL# 323: [1005L P]
99.624 -397.0
CHNL# 335: [1036L P]
78.838 -529.3
CHNL# 327: [935L P]
290.81 -340.6
CHNL# 315: [923L P]
370.37 -390.2

TIME (SECONDS)



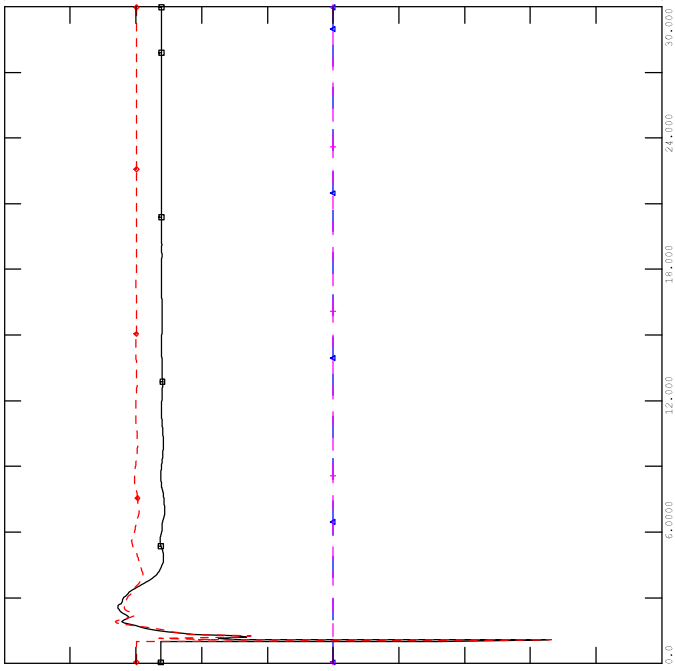
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1191 0.52500
CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1683 0.58760

TIME (SECONDS)



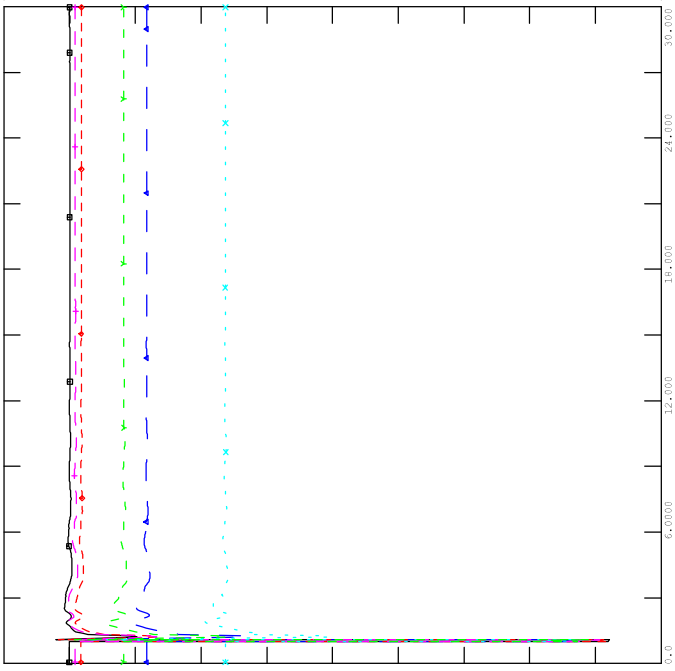
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON

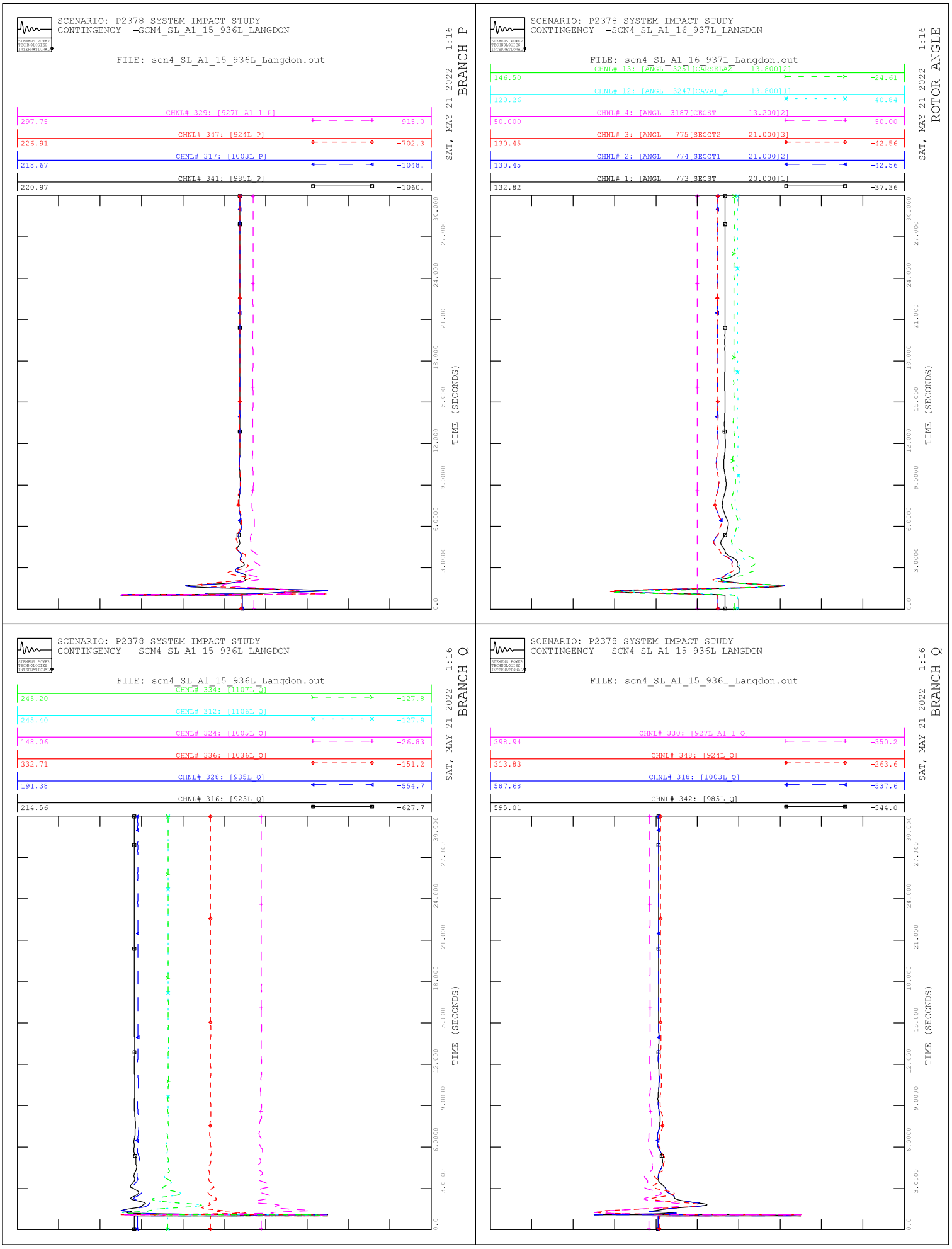
FILE: scn4_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 BUS VOLTAGE

CHNL# 305: [VOLT 451 [MATLB1 240.00]]
1.2080 0.28050
CHNL# 307: [VOLT 918 [CASS01 240.00]]
1.3186 0.51870
CHNL# 303: [VOLT 160 [JANET 4 240.00]]
1.1749 0.10250
CHNL# 310: [VOLT 902378 [927L TAP 240.00]]
1.1907 -0.0111
CHNL# 308: [VOLT 943 [MILO 1 240.00]]
1.2450 0.31640
CHNL# 302: [VOLT 159 [LANGDON4 240.00]]
1.1805 -0.0854

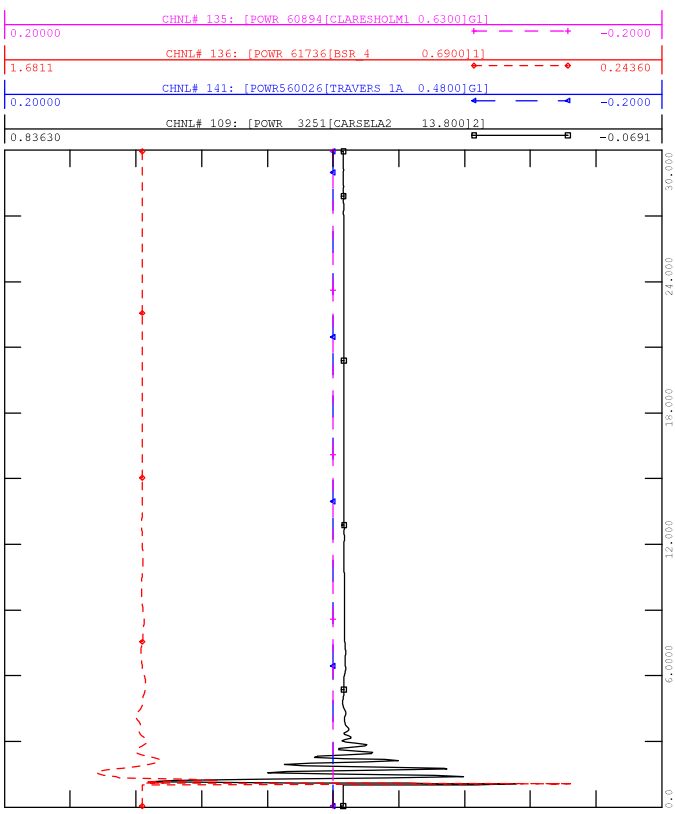
TIME (SECONDS)




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON
FILE: scn4_SL_A1_15_936L_Langdon.out
CHNL# 329: [927L_A1_1_P]
297.75
-915.0
CHNL# 347: [924L_P]
226.91
-702.3
CHNL# 317: [1003L_P]
218.67
-1048.
CHNL# 341: [985L_P]
220.97
-1060.
SAT, MAY 21 2022 1:16
BRANCH P
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON
FILE: scn4_SL_A1_16_937L_Langdon.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
146.50
-24.61
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
120.26
-40.84
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
130.45
-42.56
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
130.45
-42.56
CHNL# 1: [ANGL 773[SECST 20.000]1]
132.82
-37.36
SAT, MAY 21 2022 1:16
ROTOR ANGLE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON
FILE: scn4_SL_A1_15_936L_Langdon.out
CHNL# 334: [1107L_Q]
245.20
-127.8
CHNL# 332: [1106L_Q]
245.40
-127.9
CHNL# 324: [1005L_Q]
148.06
-26.83
CHNL# 336: [1036L_Q]
332.71
-151.2
CHNL# 328: [935L_Q]
191.38
-554.7
CHNL# 316: [923L_Q]
214.56
-627.7
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_15_936L_LANGDON
FILE: scn4_SL_A1_15_936L_Langdon.out
CHNL# 330: [927L_A1_1_Q]
398.94
-350.2
CHNL# 348: [924L_Q]
313.83
-263.6
CHNL# 318: [1003L_Q]
587.68
-537.6
CHNL# 342: [985L_Q]
595.01
-544.0
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

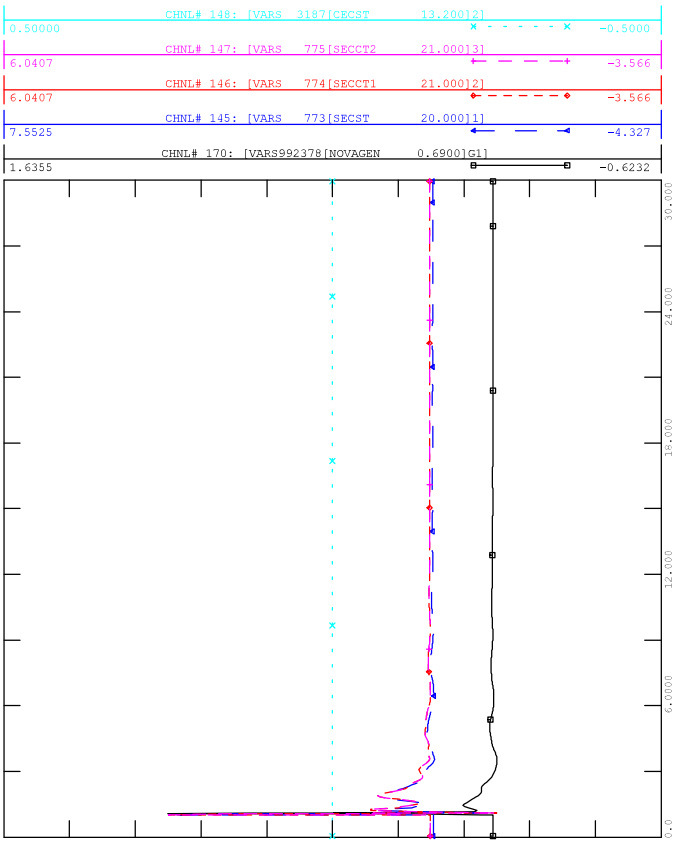
FILE: scn4_SL_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

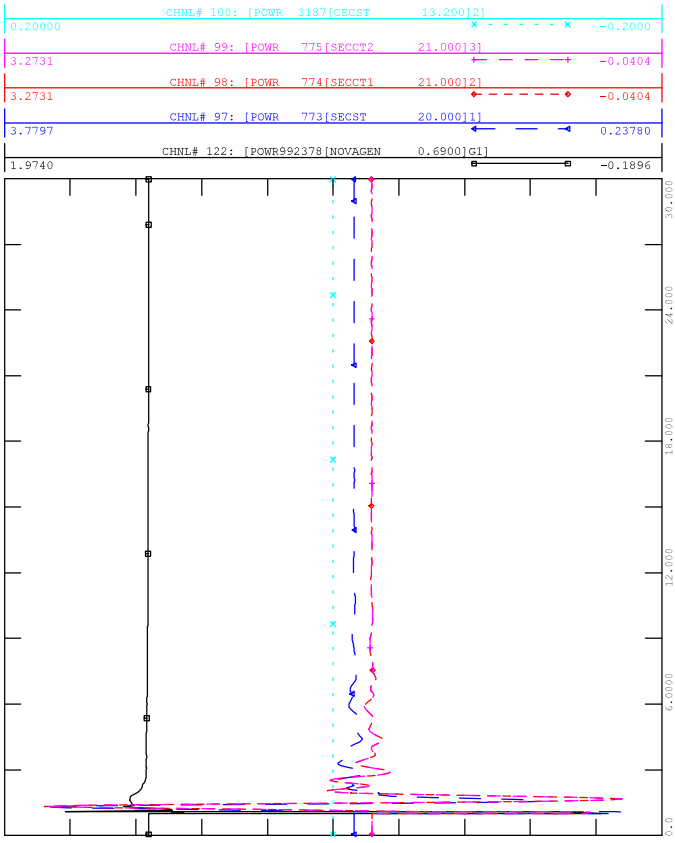
FILE: scn4_SL_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:16
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

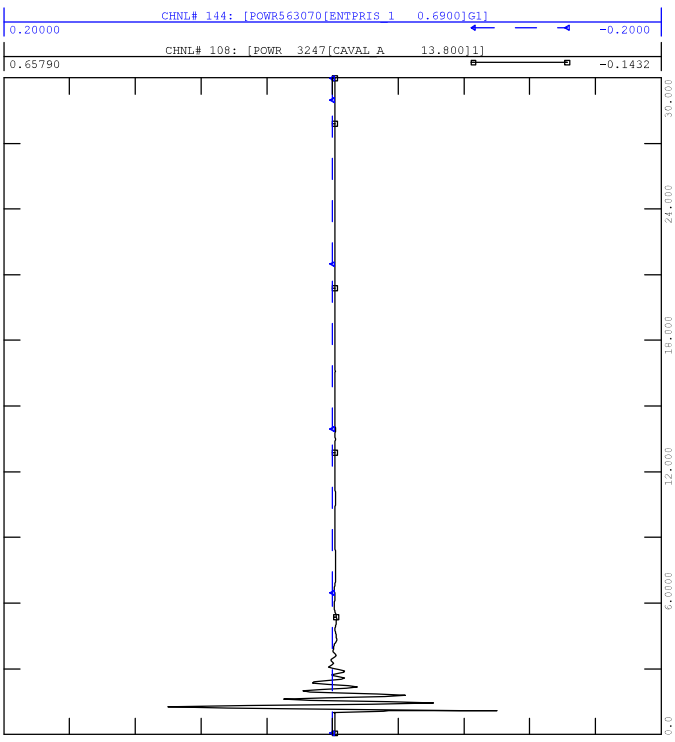
FILE: scn4_SL_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

FILE: scn4_SL_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

FILE: scn4_SL_A1_16_937L_Langdon.out

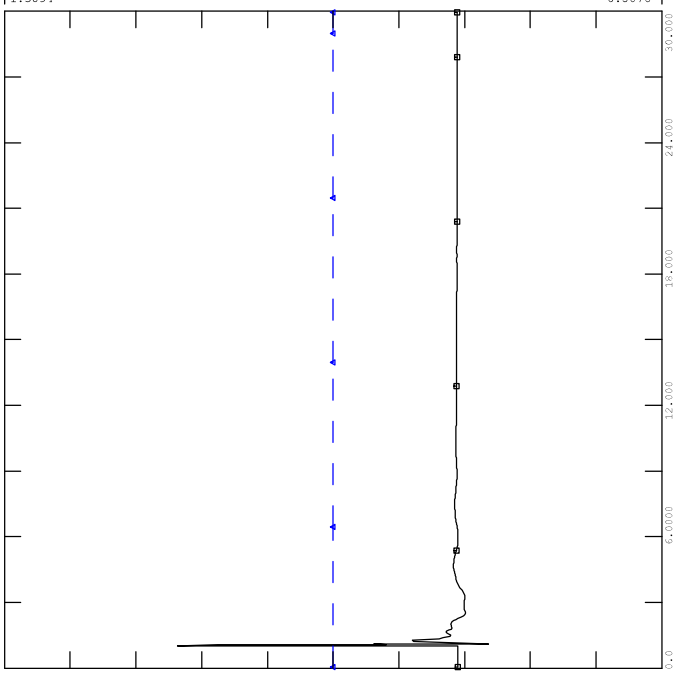
SAT, MAY 21 2022 1:16

REACTIVE POWER

CHNL# 192: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000

CHNL# 156: [VARS 3247[CAVAL A 13.800]1]
1.3894 -0.5076

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

FILE: scn4_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

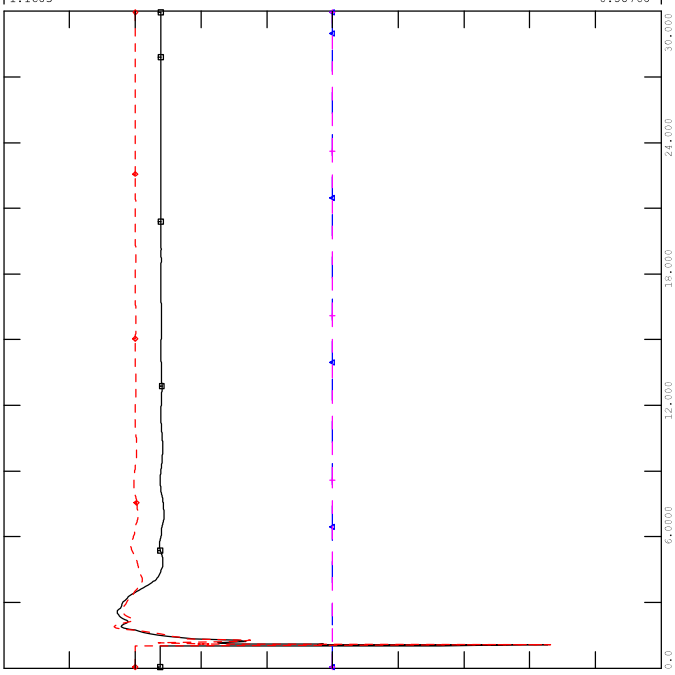
CHNL# 279: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000

CHNL# 280: [ETRM 61736[BSR 4 0.6900]1]
1.1191 0.52440

CHNL# 285: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000

CHNL# 253: [ETRM 3251[CARSELA2 13.800]2]
1.1683 0.58760

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

FILE: scn4_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

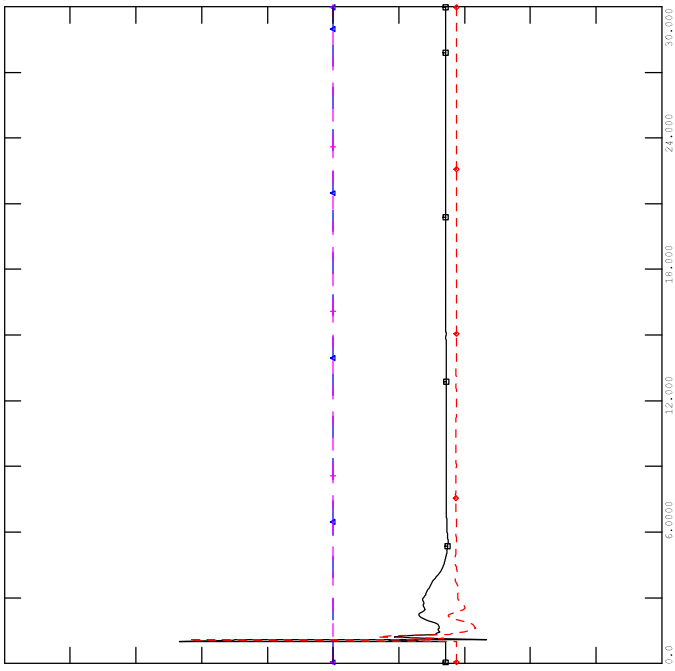
CHNL# 183: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000

CHNL# 184: [VARS 61736[BSR 4 0.6900]1]
1.1646 -0.6000

CHNL# 189: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000

CHNL# 157: [VARS 3251[CARSELA2 13.800]2]
1.2885 -0.5899

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

FILE: scn4_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 244: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000

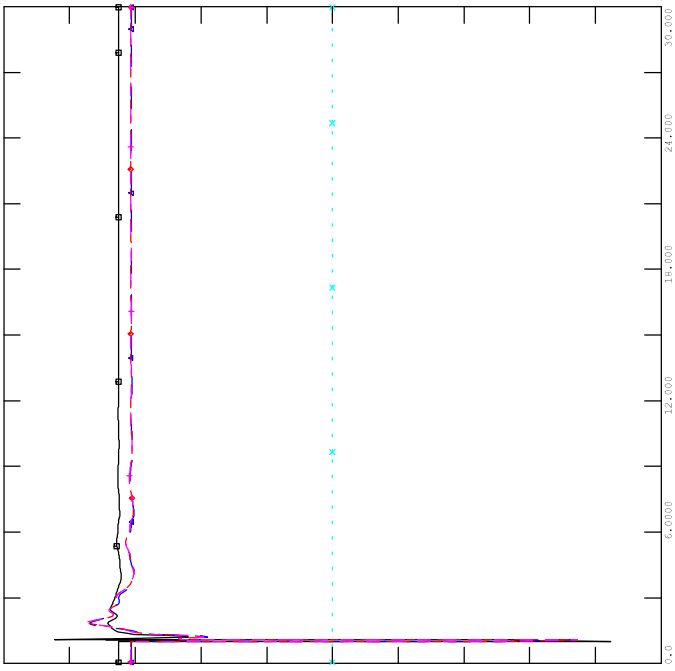
CHNL# 243: [ETRM 775[SECCT2 21.000]3]
1.1515 0.36820

CHNL# 242: [ETRM 774[SECCT1 21.000]2]
1.1515 0.36820

CHNL# 241: [ETRM 773[SECST 20.000]1]
1.1483 0.38410

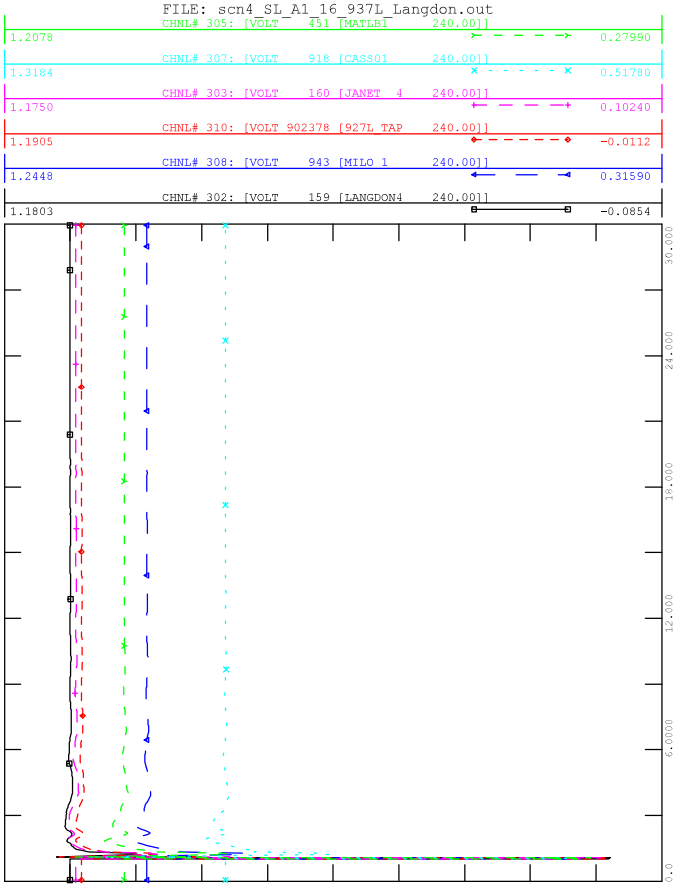
CHNL# 266: [ETRM992378[NOVAGEN 0.6900]G1]
1.2759 -0.0189

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

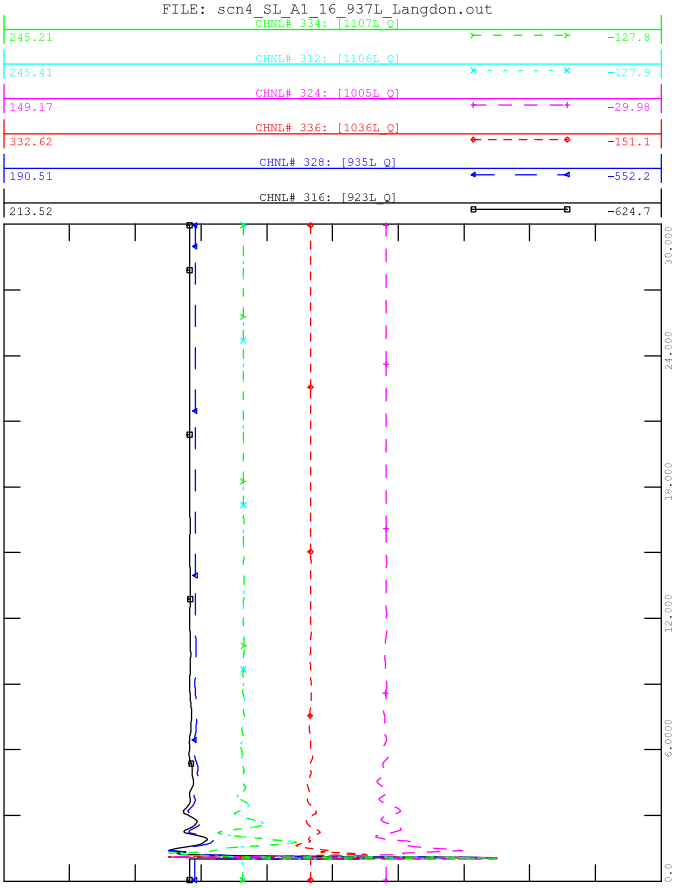
FILE: scn4_SL_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

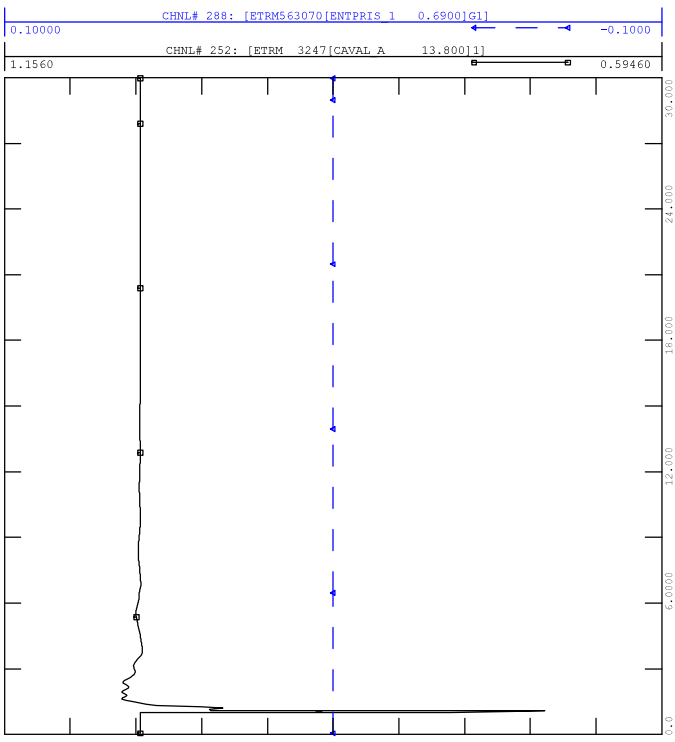
FILE: scn4_SL_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

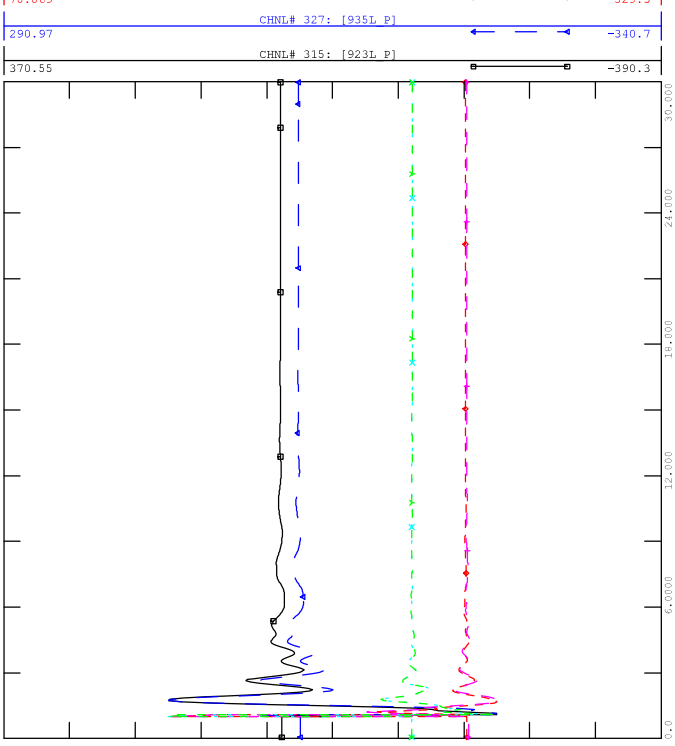
FILE: scn4_SL_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

FILE: scn4_SL_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:16
BRANCH P

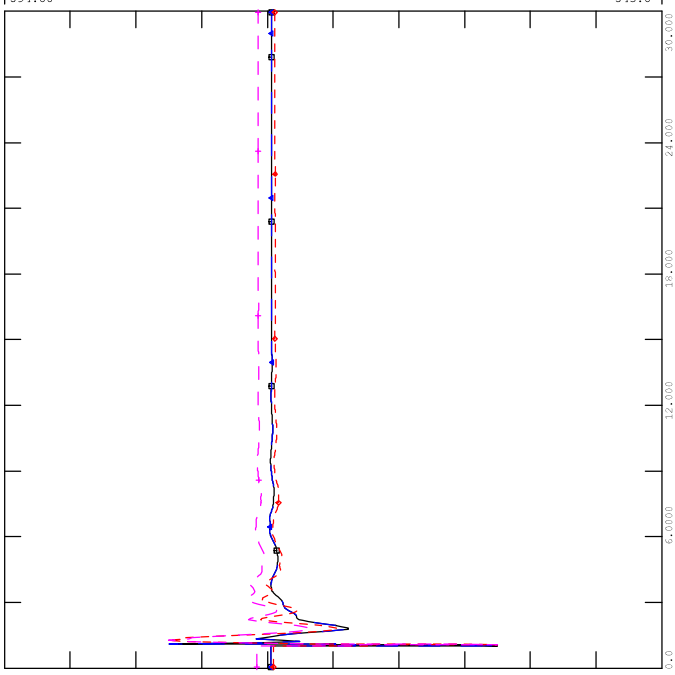
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

FILE: scn4_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

BRANCH Q

CHNL# 330: [927L A1 1 Q] 398.38 -348.5
CHNL# 348: [924L Q] 313.31 -262.0
CHNL# 318: [1003L Q] 587.56 -537.5
CHNL# 342: [985L Q] 594.88 -543.8



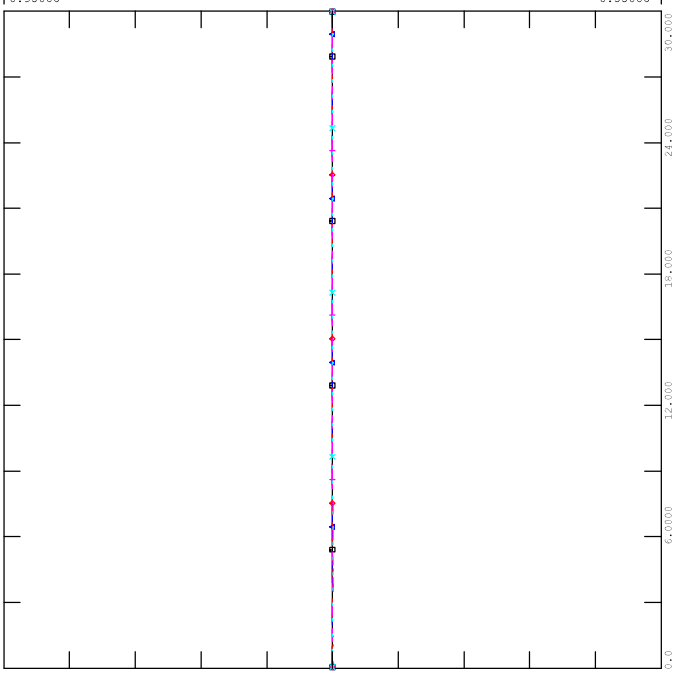
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT

FILE: scn3_SP_A2_nofault.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3] 2.4540 2.0537
CHNL# 100: [POWR 774[SECCT1 21.000]2] 2.4540 2.0537
CHNL# 99: [POWR 773[SECST 20.000]1] 3.2051 2.8048
CHNL# 124: [POWR972378[0.7000]G1] 0.95000 0.55000
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1] 0.95000 0.55000



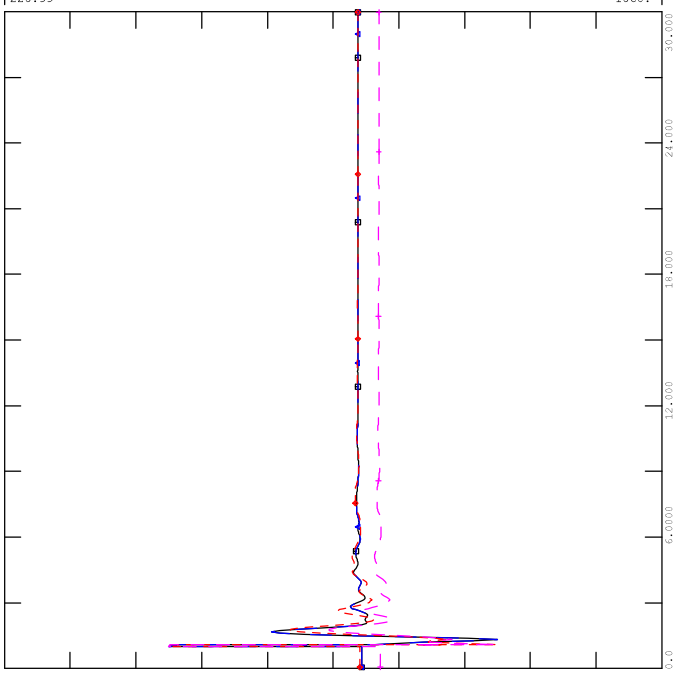
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A1_16_937L_LANGDON

FILE: scn4_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

BRANCH P

CHNL# 329: [927L A1 1 P] 297.77 -915.0
CHNL# 347: [924L P] 226.95 -702.3
CHNL# 317: [1003L P] 218.69 -1048.
CHNL# 341: [985L P] 220.99 -1060.



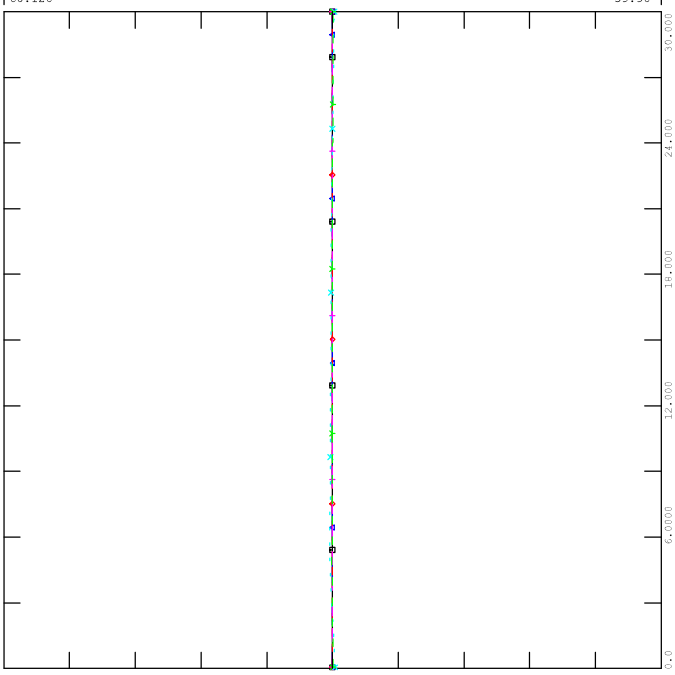
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT

FILE: scn3_SP_A2_nofault.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

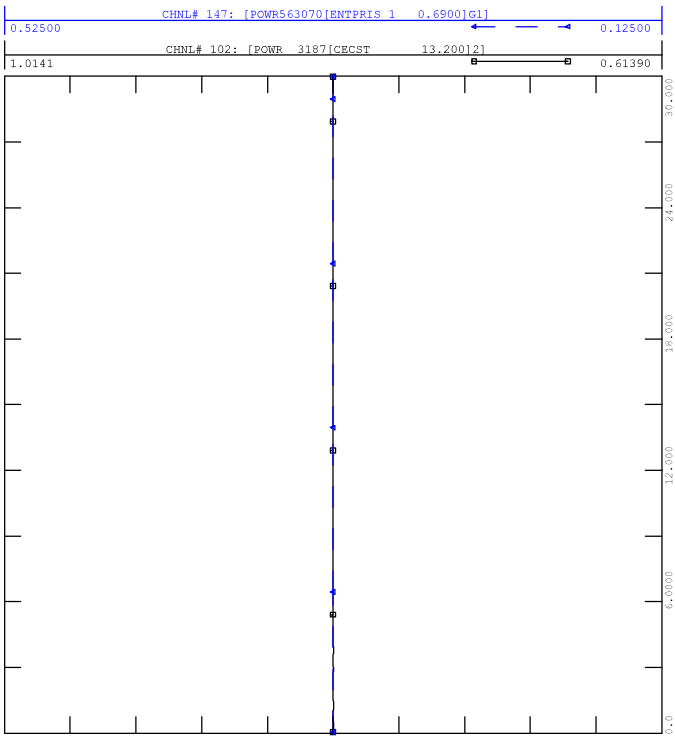
CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2] 51.261 -48.92
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 45.905 -54.91
CHNL# 4: [ANGL 3187[CECST 13.200]2] 45.043 -54.99
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 59.035 -40.99
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 59.035 -40.99
CHNL# 1: [ANGL 773[SECST 20.000]1] 60.120 -39.90



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT

FILE: scn3_SP_A2_nofault.out

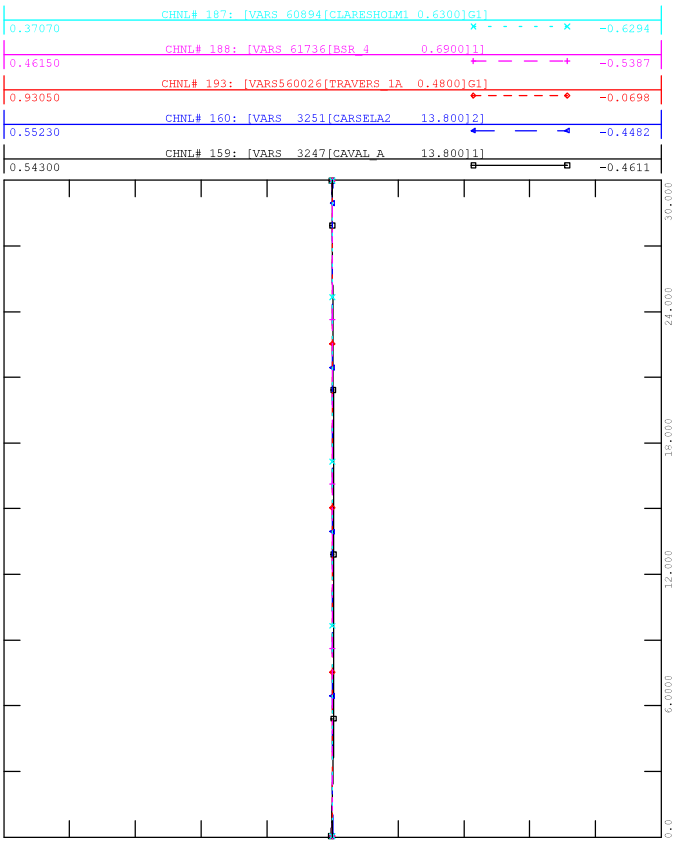
SAT, MAY 21 2022 1:16 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT

FILE: scn3_SP_A2_nofault.out

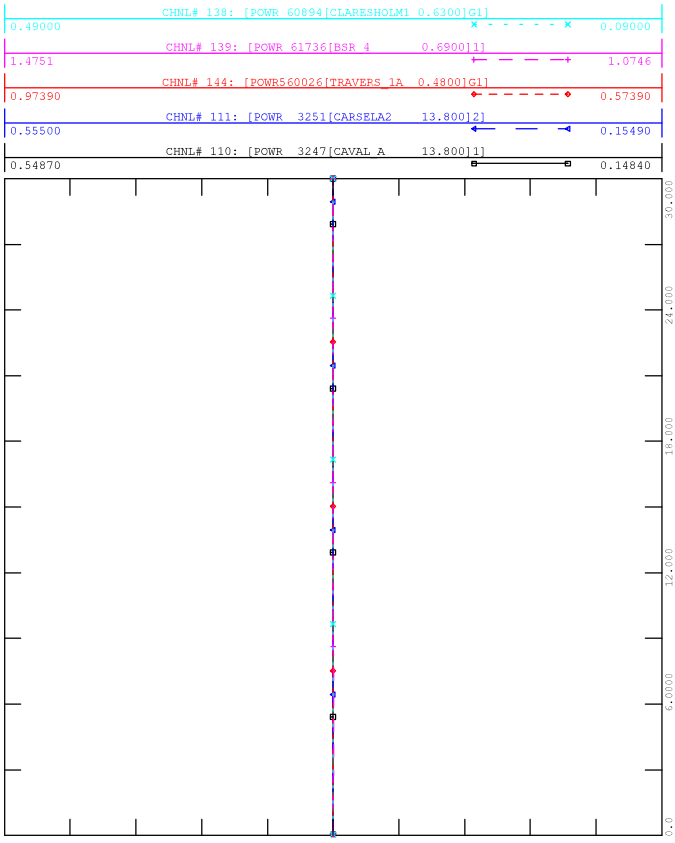
SAT, MAY 21 2022 1:16 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT

FILE: scn3_SP_A2_nofault.out

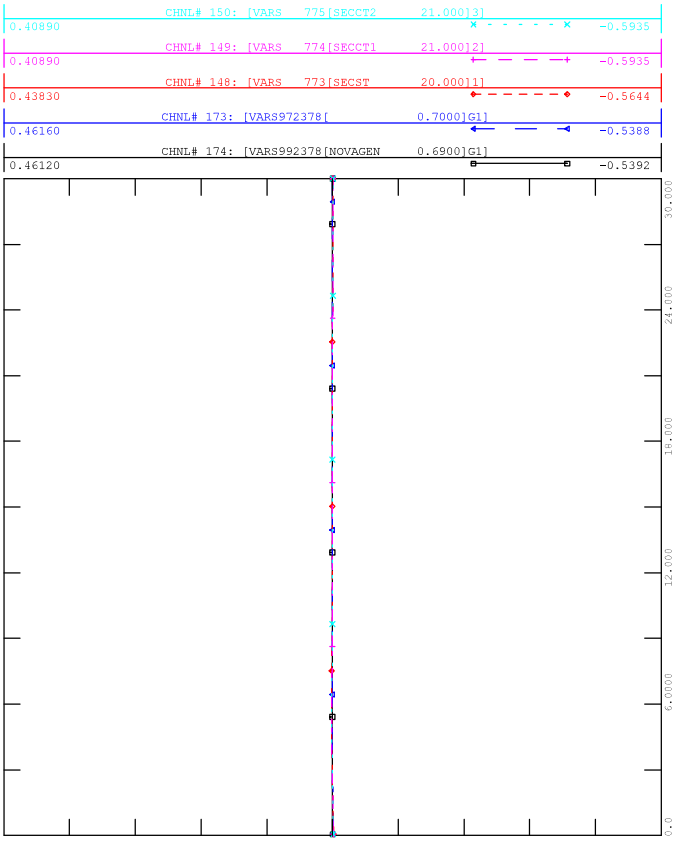
SAT, MAY 21 2022 1:16 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT

FILE: scn3_SP_A2_nofault.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

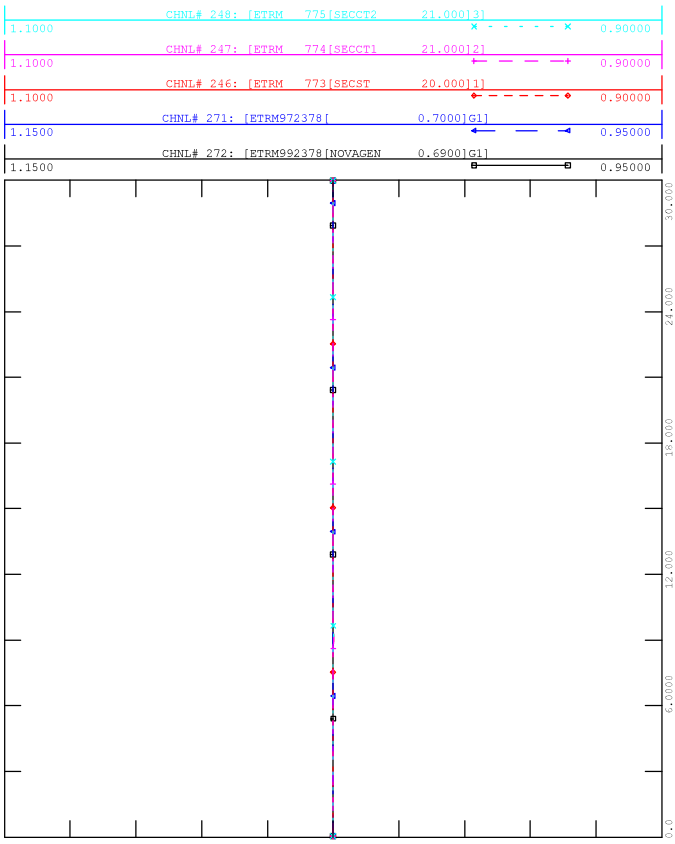


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT

FILE: scn3_SP_A2_nofault.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

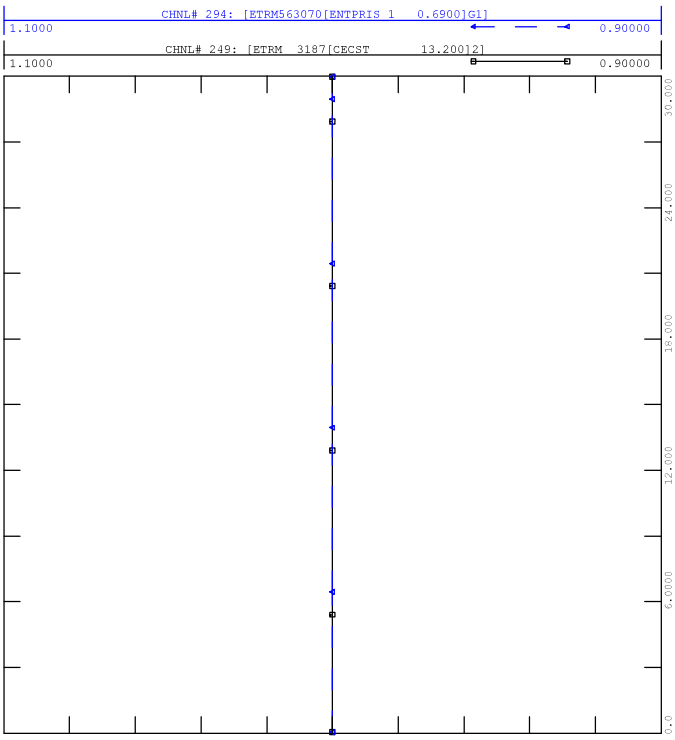


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT

FILE: scn3_SP_A2_nofault.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

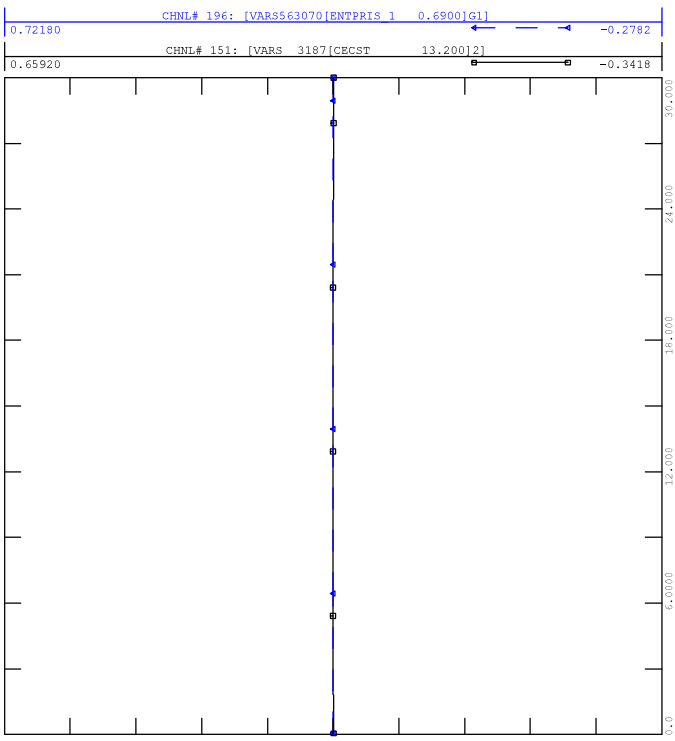


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT

FILE: scn3_SP_A2_nofault.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

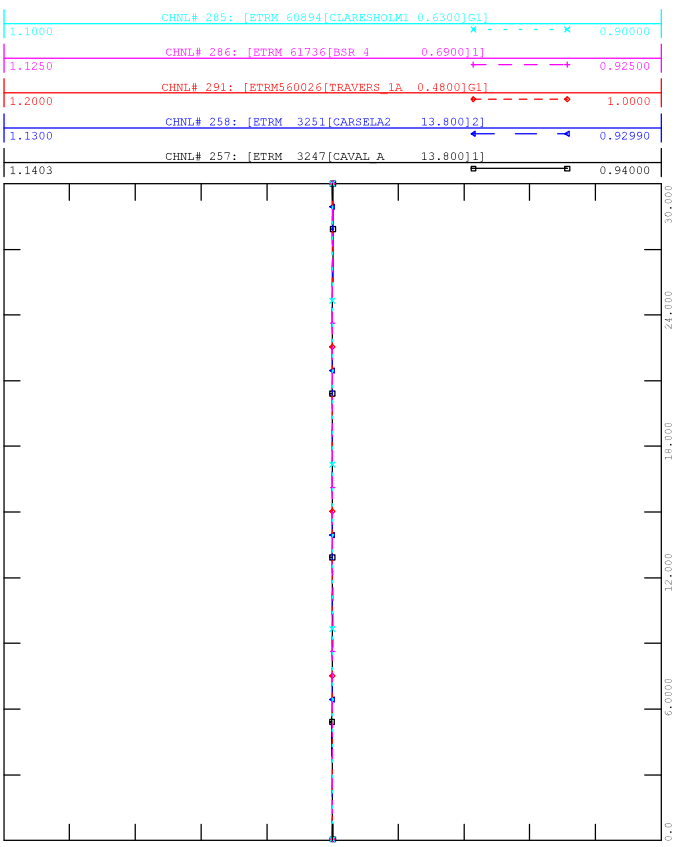


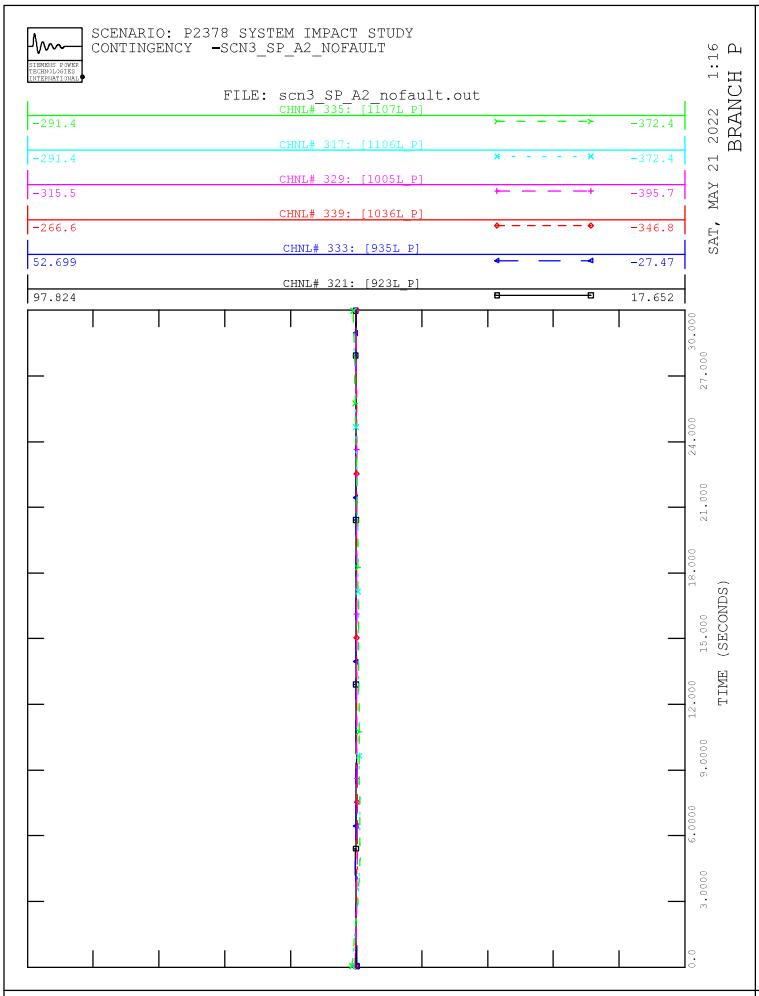
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT

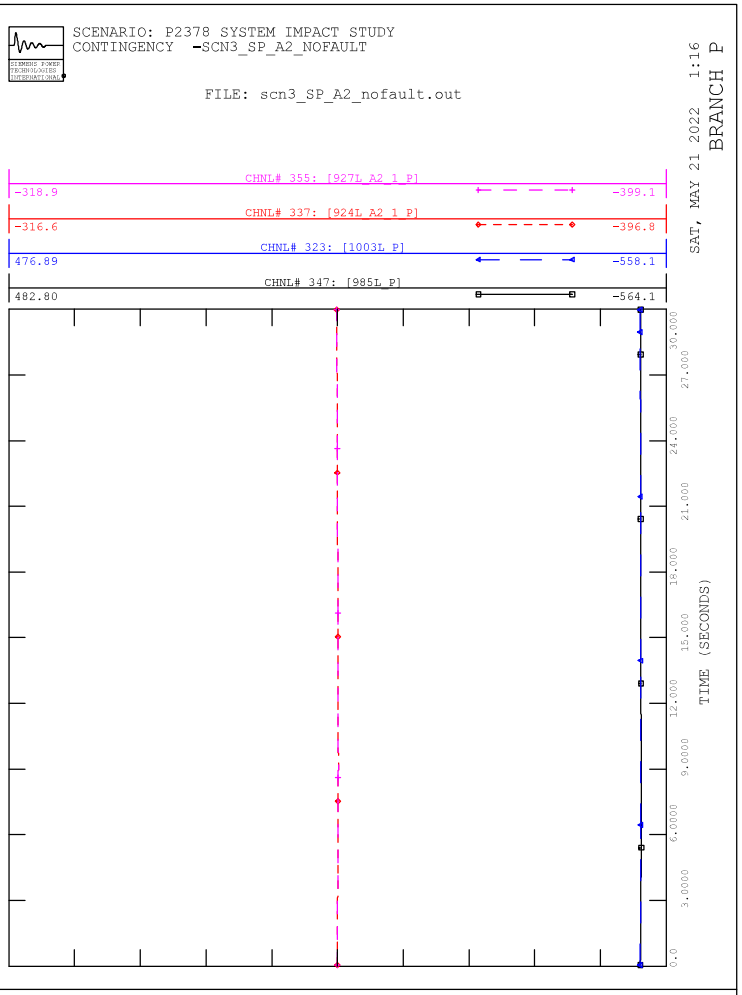
FILE: scn3_SP_A2_nofault.out

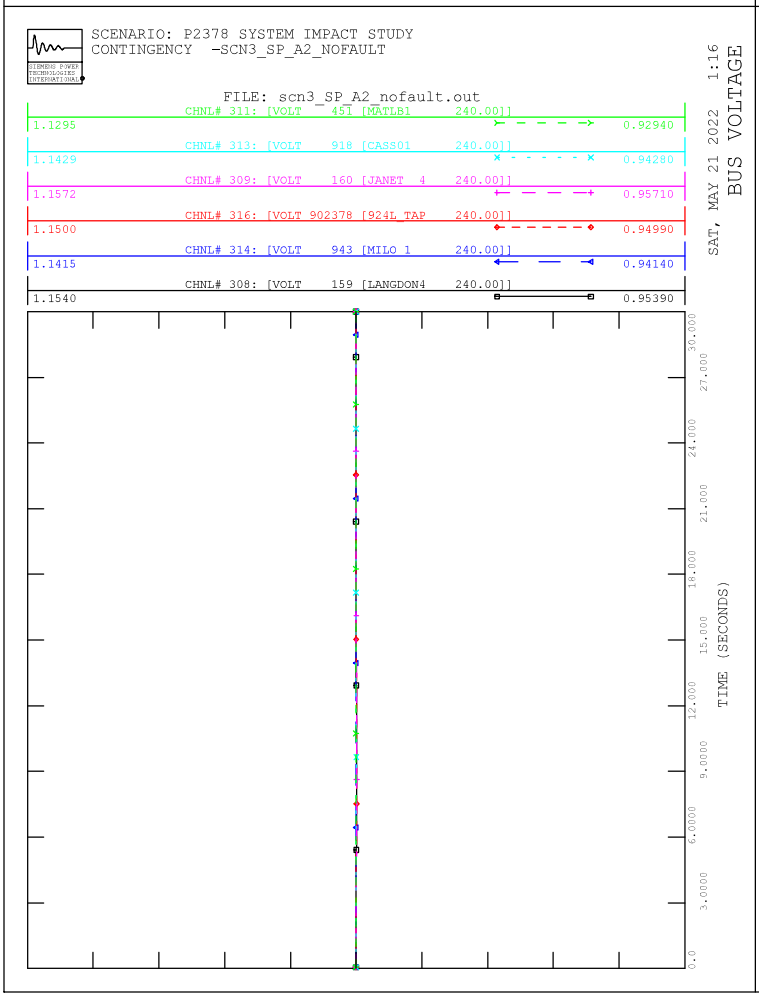
SAT, MAY 21 2022 1:16

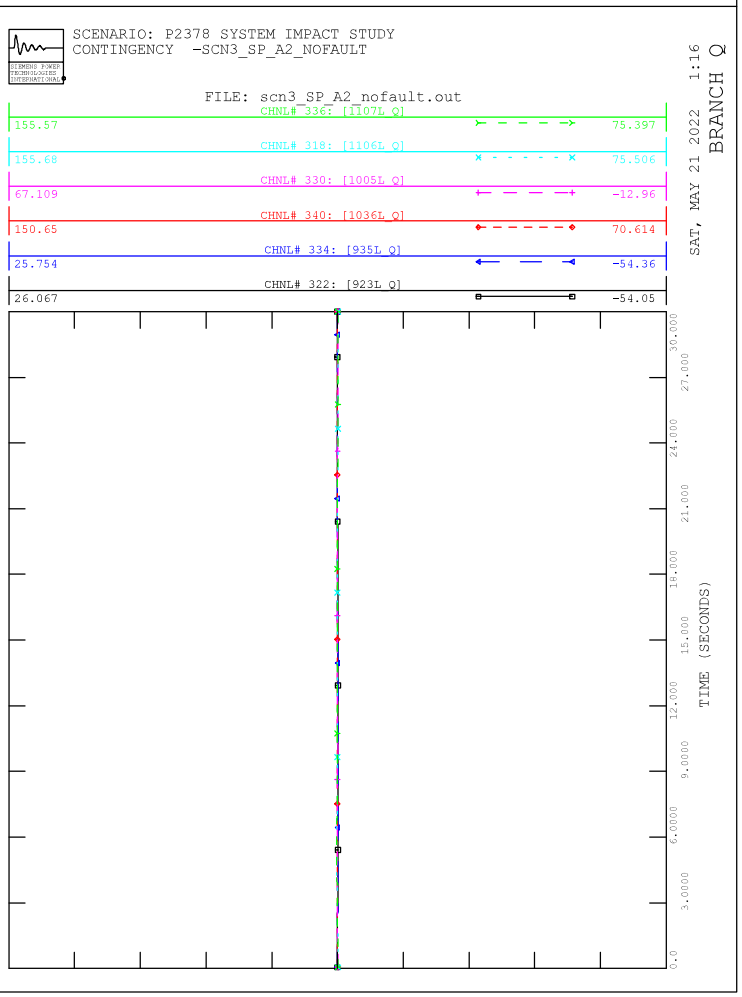
TERMINAL VOLTAGE

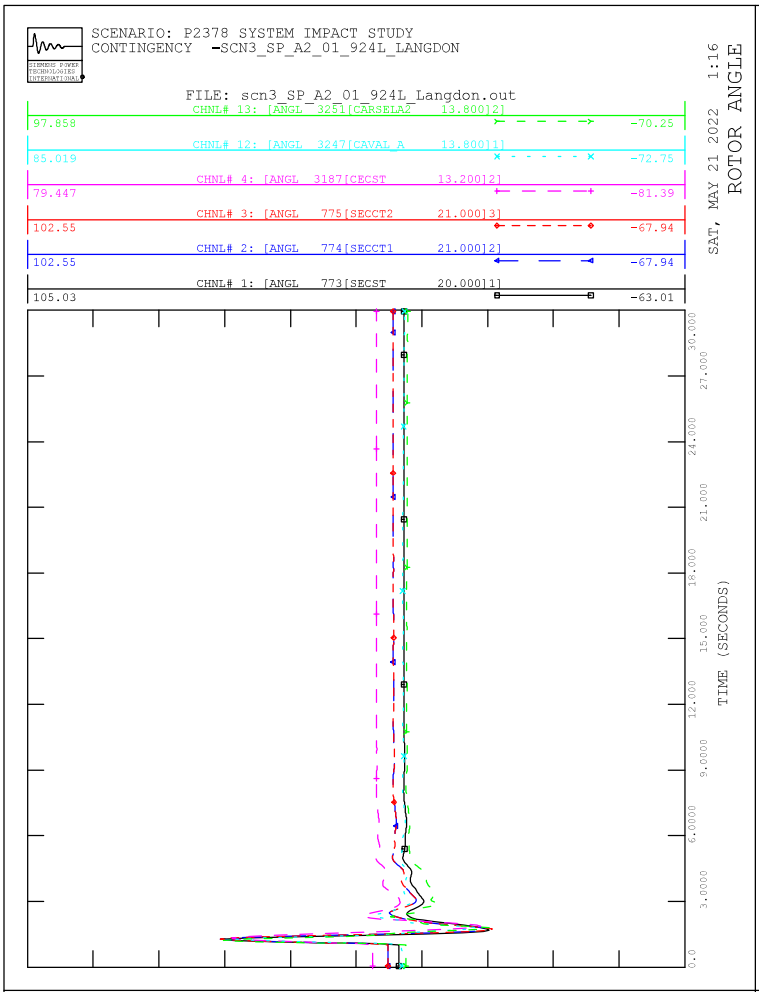


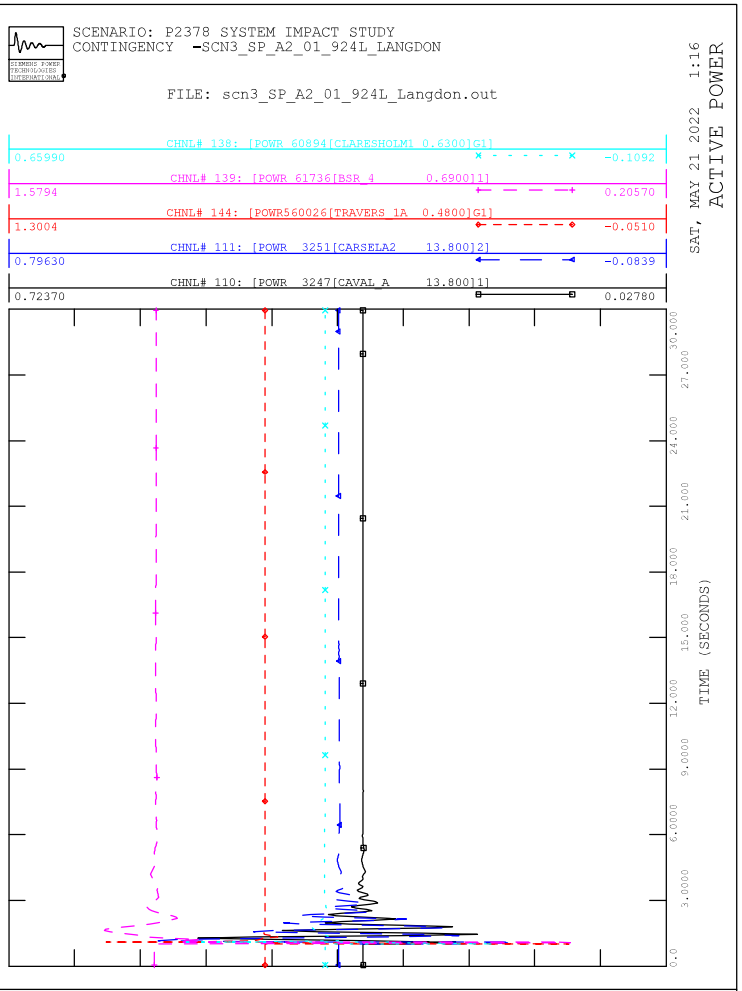

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT
FILE: scn3_SP_A2_nofault.out
CHNL# 335: [1107L P]
-291.4
-372.4
CHNL# 317: [1106L P]
-291.4
-372.4
CHNL# 329: [1005L P]
-315.5
-395.7
CHNL# 339: [1036L P]
-266.6
-346.8
CHNL# 333: [935L P]
52.699
-27.47
CHNL# 321: [923L P]
97.824
17.652
SAT, MAY 21 2022 1:16
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

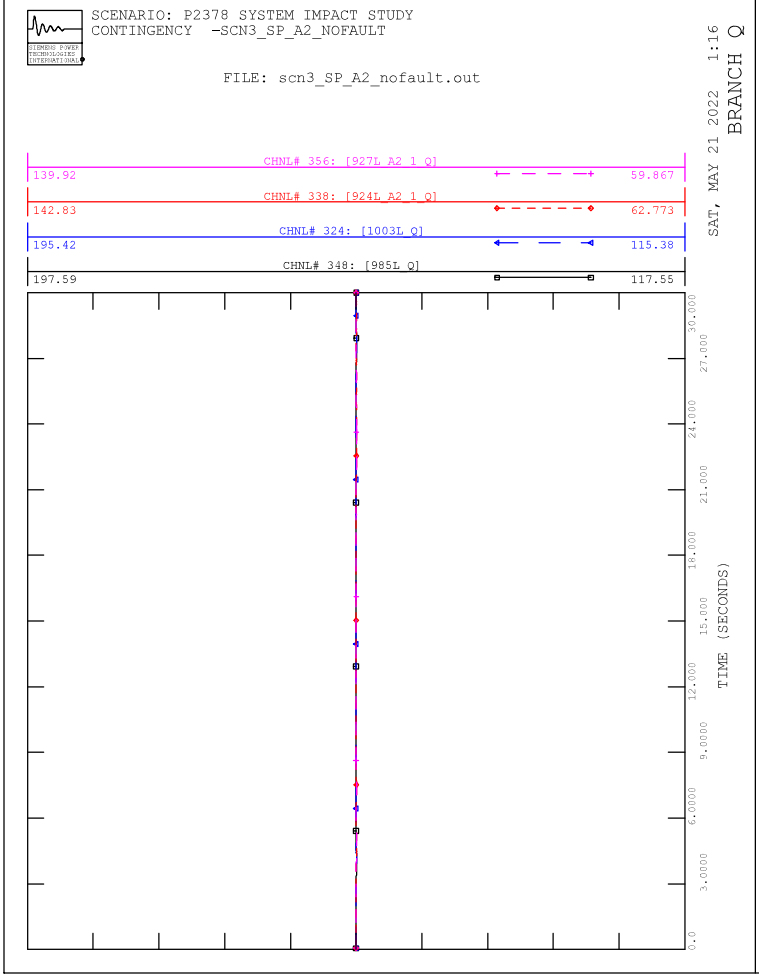

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT
FILE: scn3_SP_A2_nofault.out
CHNL# 355: [927L A2 1 P]
-318.9
-399.1
CHNL# 337: [924L A2 1 P]
-316.6
-396.8
CHNL# 323: [1003L P]
476.89
-558.1
CHNL# 347: [985L P]
482.80
-564.1
SAT, MAY 21 2022 1:16
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

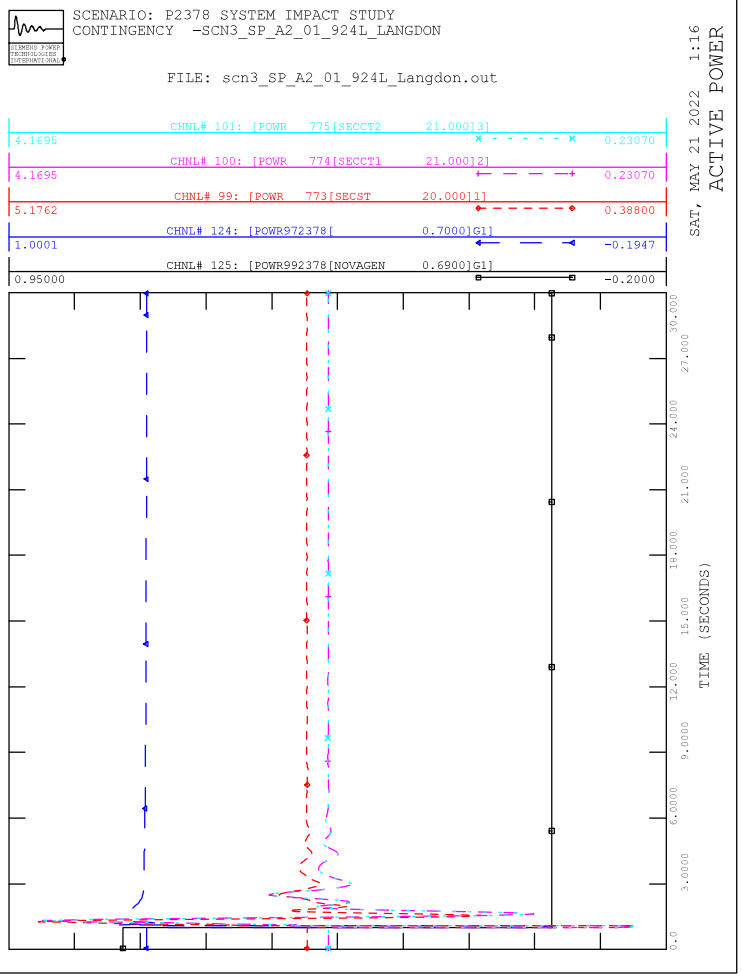

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT
FILE: scn3_SP_A2_nofault.out
CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1295
0.92940
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.1429
0.94280
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1572
0.95710
CHNL# 316: [VOLT 902378 [924L_TAP 240.00]]
1.1500
0.94990
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.1415
0.94140
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1540
0.95390
SAT, MAY 21 2022 1:16
BUS VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT
FILE: scn3_SP_A2_nofault.out
CHNL# 336: [1107L Q]
155.57
75.397
CHNL# 318: [1106L Q]
155.68
75.506
CHNL# 330: [1005L Q]
67.109
-12.96
CHNL# 340: [1036L Q]
150.65
70.614
CHNL# 334: [935L Q]
25.754
-54.36
CHNL# 322: [923L Q]
26.067
-54.05
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON
FILE: scn3_SP_A2_01_924L_Langdon.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
97.858
-70.25
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
85.019
-72.75
CHNL# 4: [ANGL 3187[CECST 13.200]2]
79.447
-81.39
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
102.55
-67.94
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
102.55
-67.94
CHNL# 1: [ANGL 773[SECST 20.000]1]
105.03
-63.01
SAT, MAY 21 2022 1:16
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON
FILE: scn3_SP_A2_01_924L_Langdon.out
CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.65990
-0.1092
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.5794
0.20570
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3004
-0.0510
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.79630
-0.0839
CHNL# 110: [POWR 3247[CAVAL_A 13.800]1]
0.72370
0.02780
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_NOFAULT
FILE: scn3_SP_A2_nofault.out
CHNL# 356: [927L_A2_1 Q]
139.92
59.867
CHNL# 338: [924L_A2_1 Q]
142.83
62.773
CHNL# 324: [1003L Q]
195.42
115.38
CHNL# 348: [985L Q]
197.59
117.55
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

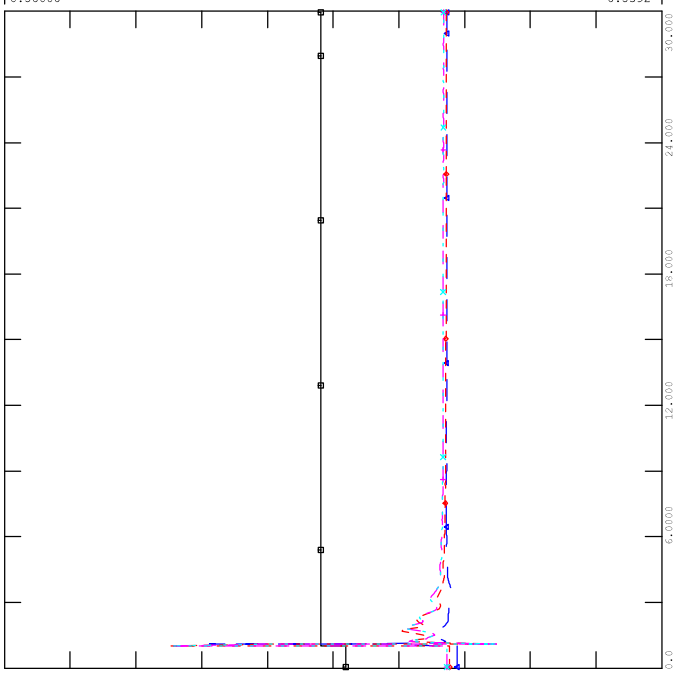

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON
FILE: scn3_SP_A2_01_924L_Langdon.out
CHNL# 101: [POWR 775[SECCT2 21.000]3]
4.1695
0.23070
CHNL# 100: [POWR 774[SECCT1 21.000]2]
4.1695
0.23070
CHNL# 99: [POWR 773[SECST 20.000]1]
5.1762
0.38800
CHNL# 124: [POWR972378[0.7000]G1]
1.0001
-0.1947
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
0.95000
-0.2000
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

FILE: scn3_SP_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3]
5.9758 -3.040
CHNL# 149: [VARS 774[SECCT1 21.000]2]
5.9758 -3.040
CHNL# 148: [VARS 773[SECST 20.000]1]
7.4878 -3.670
CHNL# 173: [VARS972378[0.7000]G1]
1.0671 -0.5388
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
0.50000 -0.5392

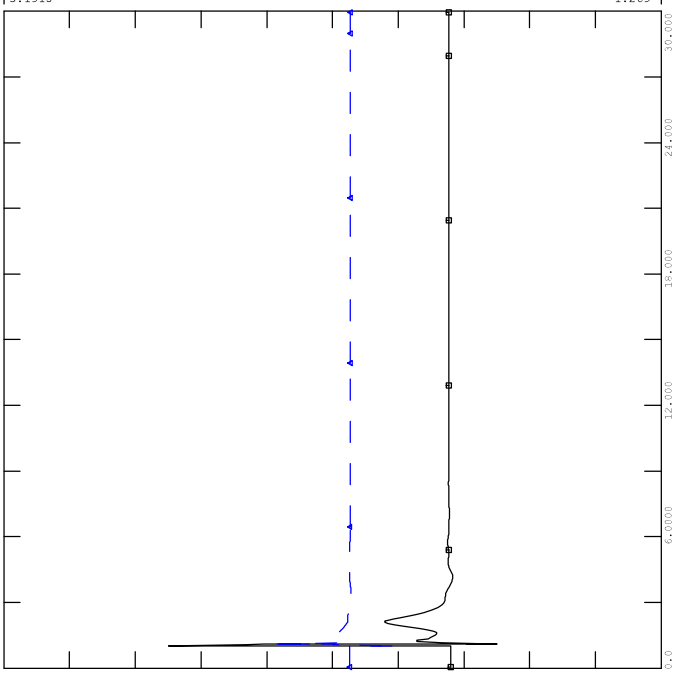


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

FILE: scn3_SP_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
0.87710 -0.3678
CHNL# 151: [VARS 3187[CECST 13.200]2]
3.1915 -1.269

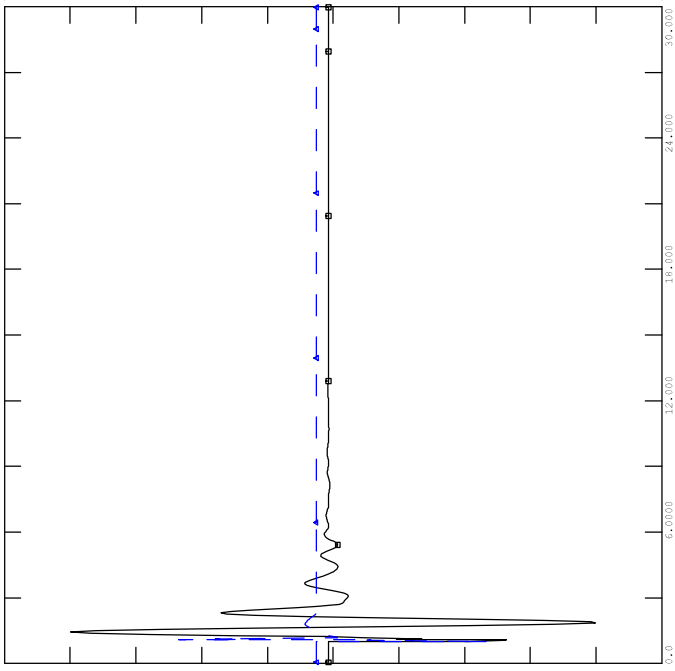


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

FILE: scn3_SP_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.68310 -0.0718
CHNL# 102: [POWR 3187[CECST 13.200]2]
1.7923 -0.1920

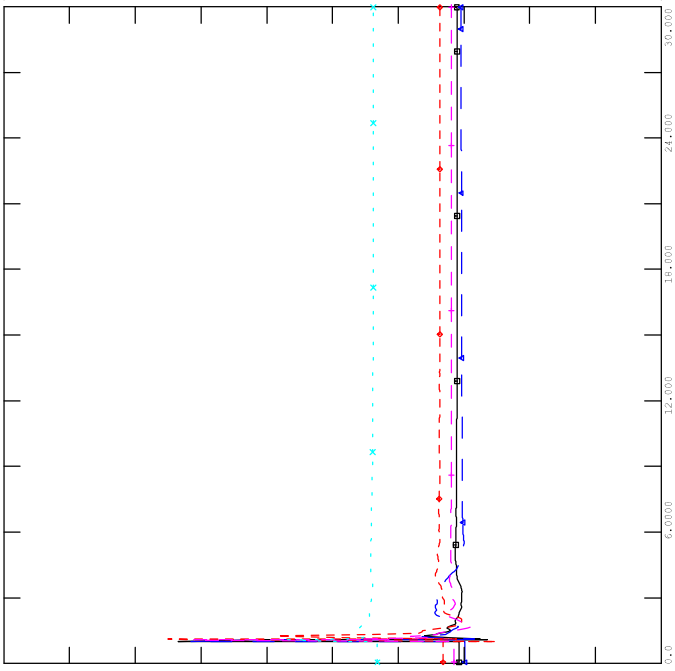


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

FILE: scn3_SP_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.52870 -0.6294
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1447 -0.5838
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
2.1732 -0.4360
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
1.2872 -0.4741
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
1.3509 -0.5380



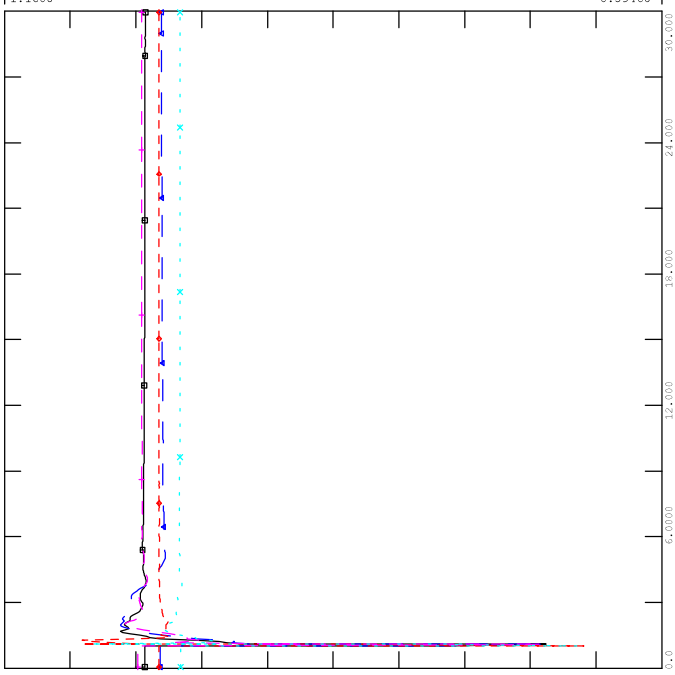
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

FILE: scn3_SP_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1] 1.2083 0.43080
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1] 1.1354 0.59110
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1] 1.2991 0.45310
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2] 1.1640 0.59840
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1] 1.1608 0.59460



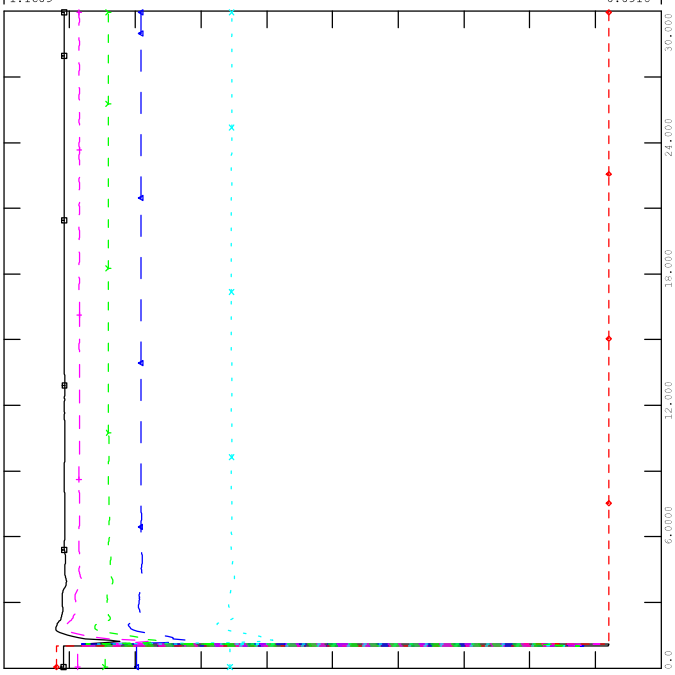
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

FILE: scn3_SP_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16

BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]] 1.1530 0.35230
CHNL# 313: [VOLT 918 [CASS01 240.00]] 1.2928 0.56530
CHNL# 309: [VOLT 160 [JANET 4 240.00]] 1.1774 0.10960
CHNL# 316: [VOLT 902378 [924L TAP 240.00]] 1.1500 -0.1000
CHNL# 314: [VOLT 943 [MILO 1 240.00]] 1.2135 0.36320
CHNL# 308: [VOLT 159 [LANGDON4 240.00]] 1.1689 -0.0916



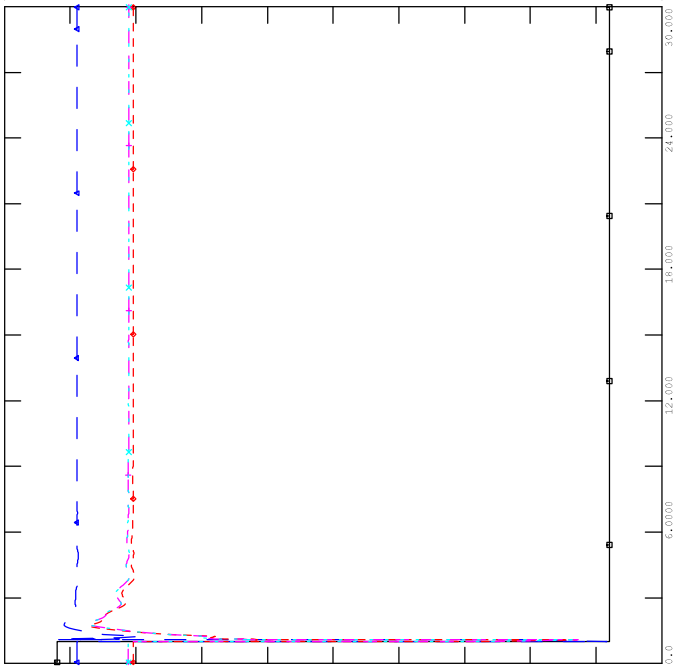
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

FILE: scn3_SP_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3] 1.1481 0.36310
CHNL# 247: [ETRM 774[SECCT1 21.000]2] 1.1481 0.36310
CHNL# 246: [ETRM 773[SECST 20.000]1] 1.1512 0.37930
CHNL# 271: [ETRM972378[0.7000]G1] 1.1823 -0.0180
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1] 1.1500 -0.1000



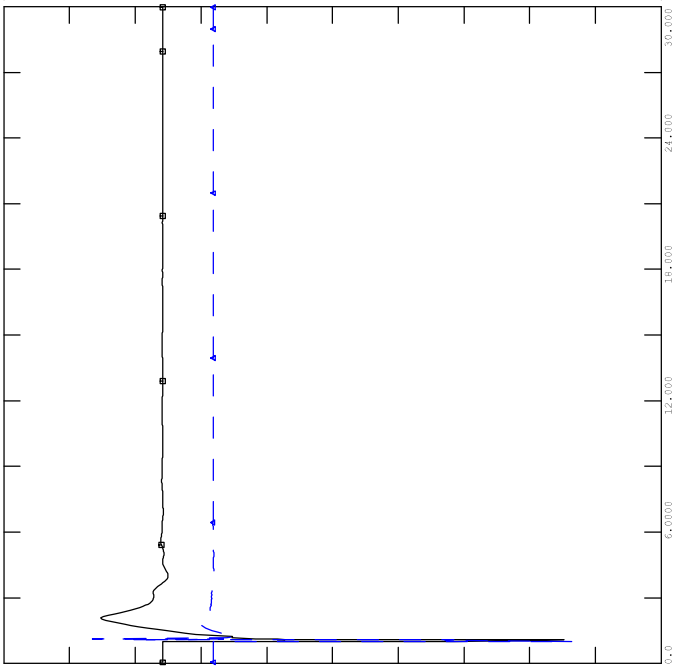
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

FILE: scn3_SP_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16

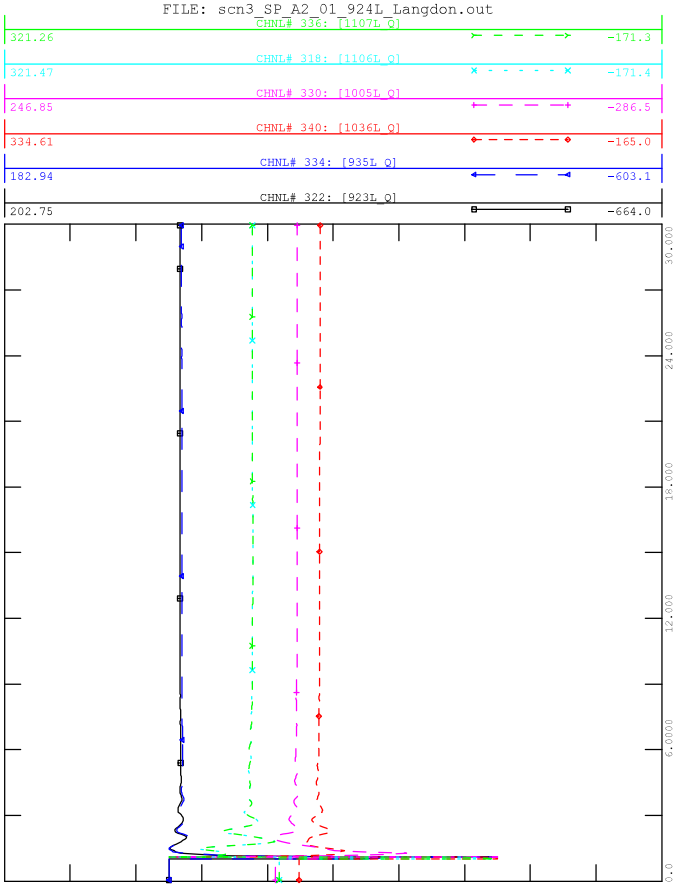
TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1] 1.2362 0.49520
CHNL# 249: [ETRM 3187[CECST 13.200]2] 1.1637 0.48540



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

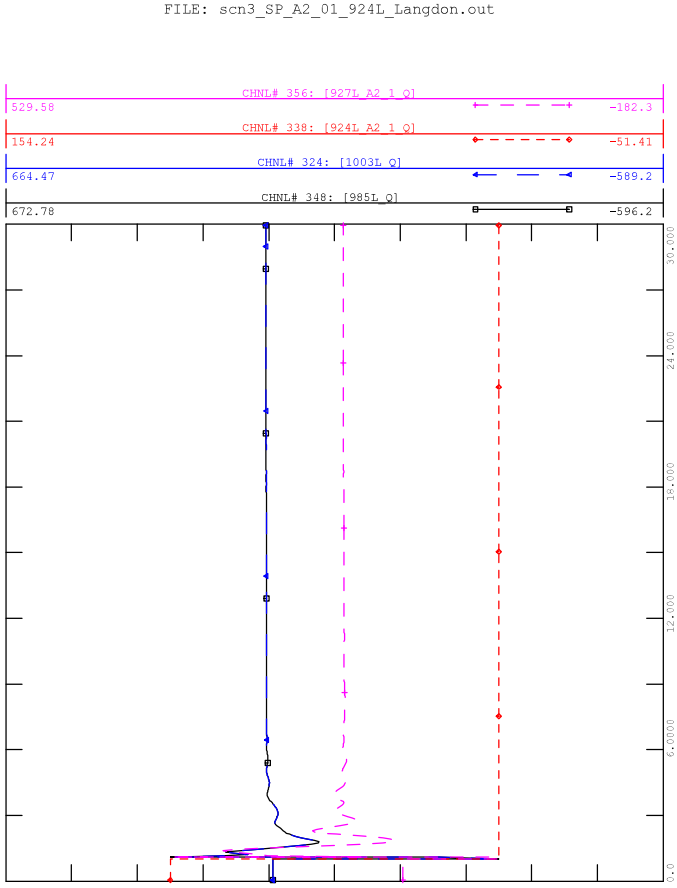
FILE: scn3_SP_A2_01_924L_Langdon.out



SAT, MAY 21 2022 1:16 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

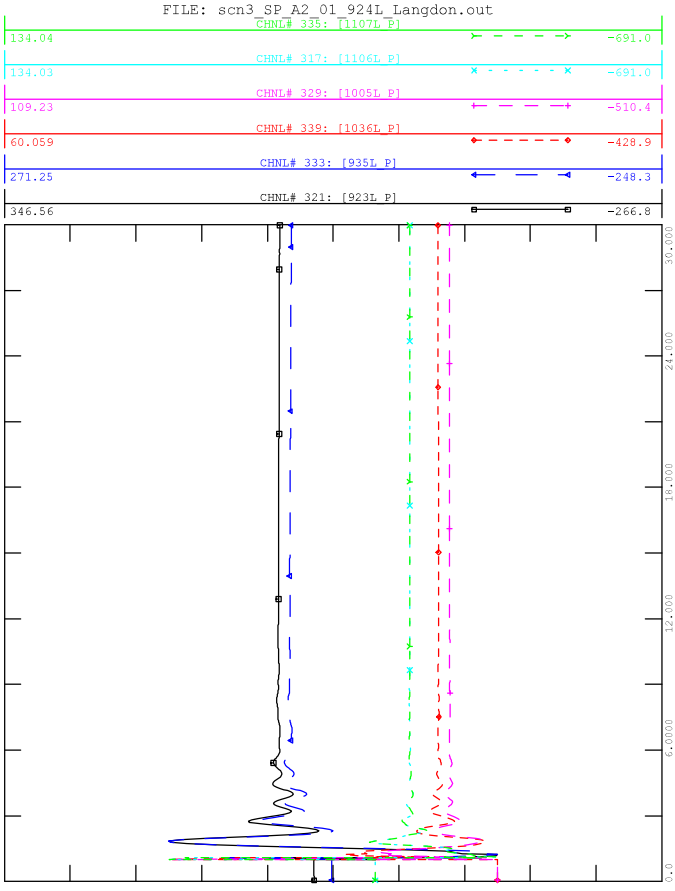
FILE: scn3_SP_A2_01_924L_Langdon.out



SAT, MAY 21 2022 1:16 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

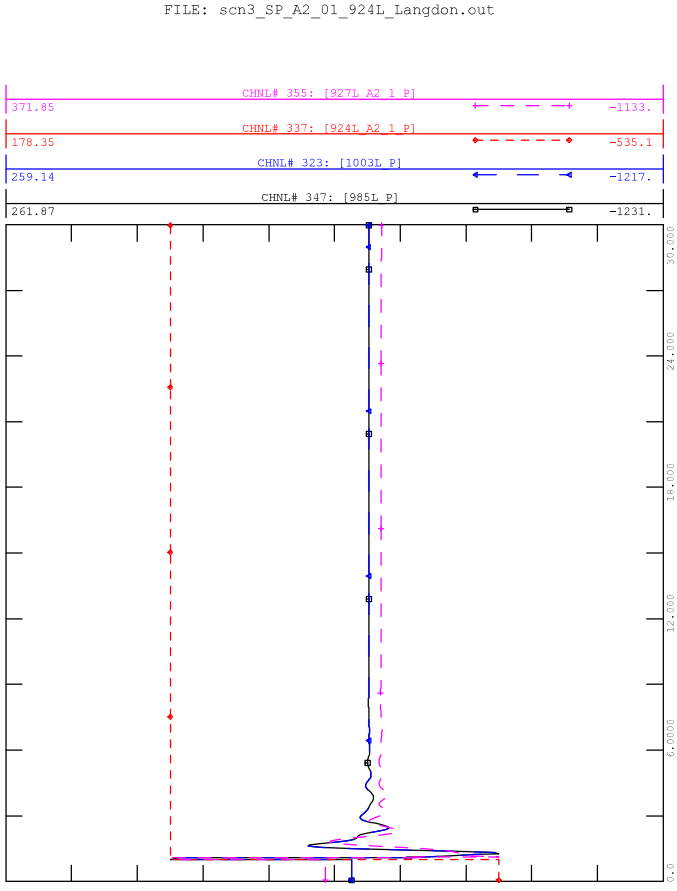
FILE: scn3_SP_A2_01_924L_Langdon.out



SAT, MAY 21 2022 1:16 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_01_924L_LANGDON

FILE: scn3_SP_A2_01_924L_Langdon.out



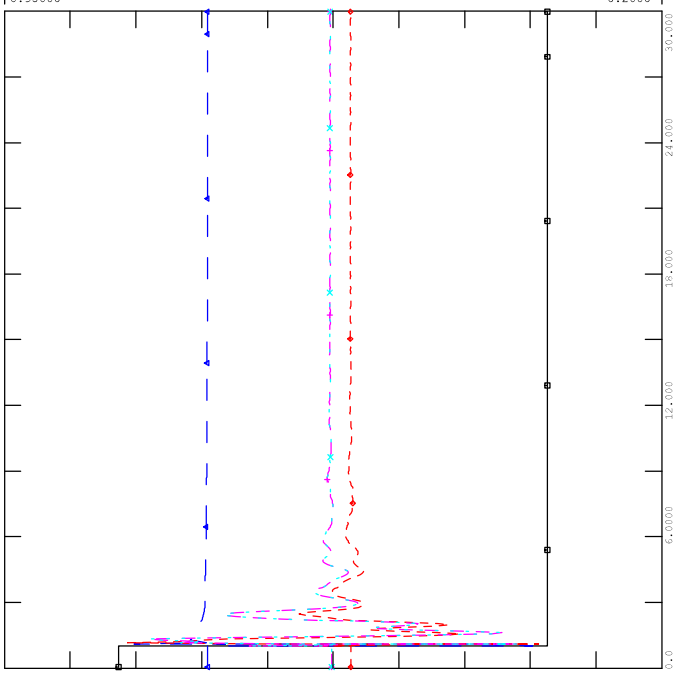
SAT, MAY 21 2022 1:16 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3]
2.7066 1.7967
CHNL# 100: [POWR 774[SECCT1 21.000]2]
2.7066 1.7967
CHNL# 99: [POWR 773[SECST 20.000]1]
3.5670 2.4995
CHNL# 124: [POWR972378[0.7000]G1]
1.0635 0.04820
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
0.95000 -0.2000

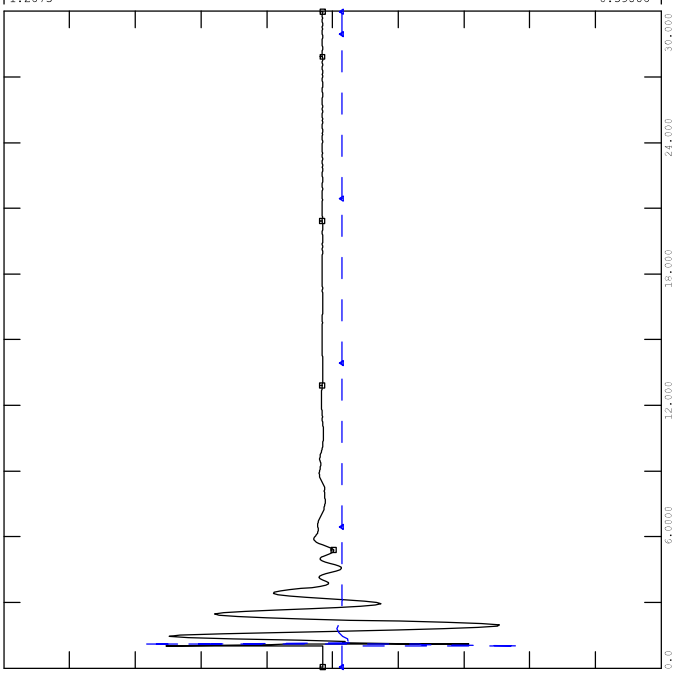


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.81700 -0.1400
CHNL# 102: [POWR 3187[CECST 13.200]2]
1.2073 0.39580

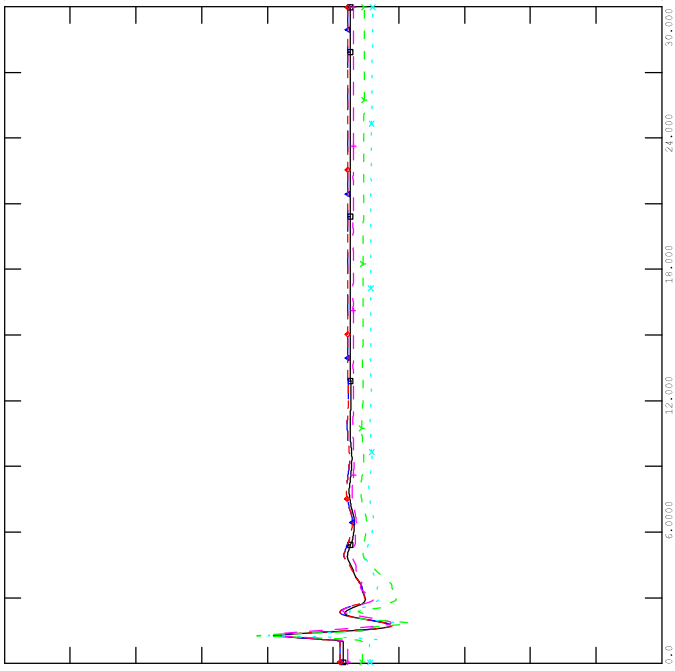


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
72.007 -58.26
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
64.263 -60.20
CHNL# 4: [ANGL 3187[CECST 13.200]2]
58.439 -63.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
71.376 -50.73
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
71.376 -50.73
CHNL# 1: [ANGL 773[SECST 20.000]1]
72.506 -48.60

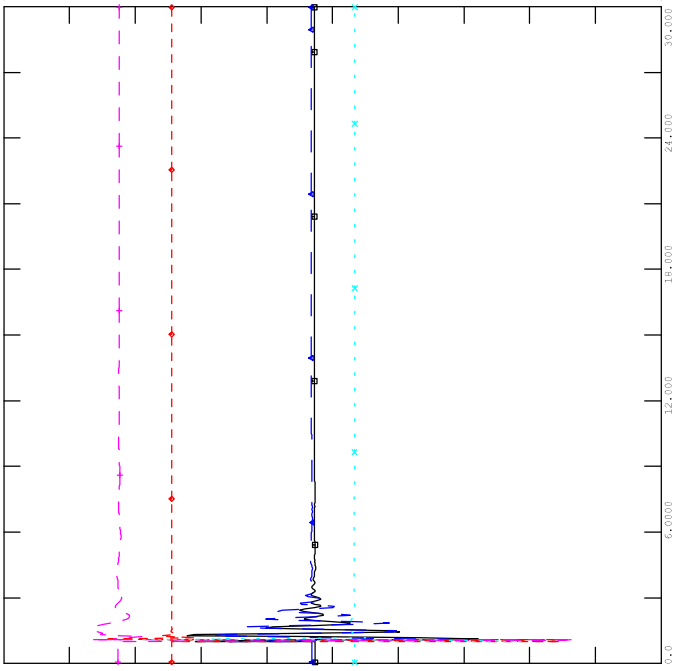


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.80110 -0.1569
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.5403 0.00970
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
1.1077 -0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.65360 0.01620
CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.68870 -0.0301

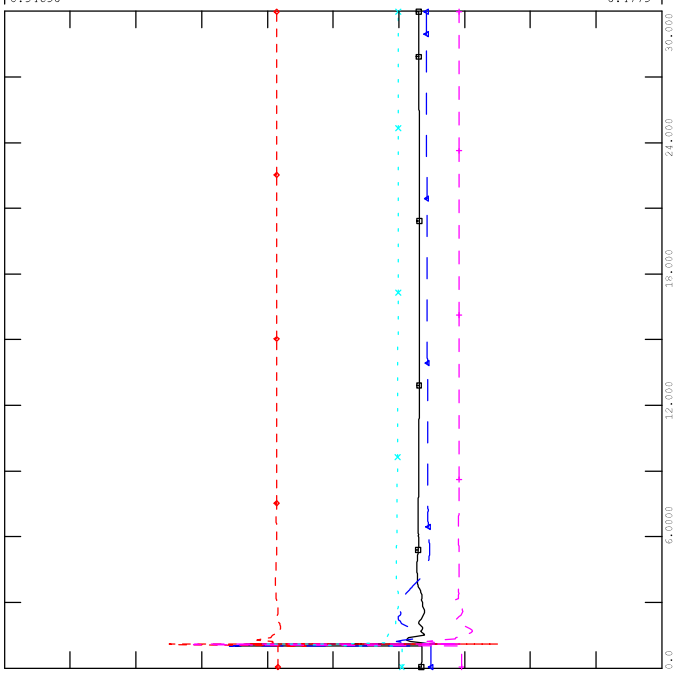


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.63440 -0.6294
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1695 -0.5681
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
3.5669 -3.978
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
1.0005 -0.4612
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
0.94690 -0.4779

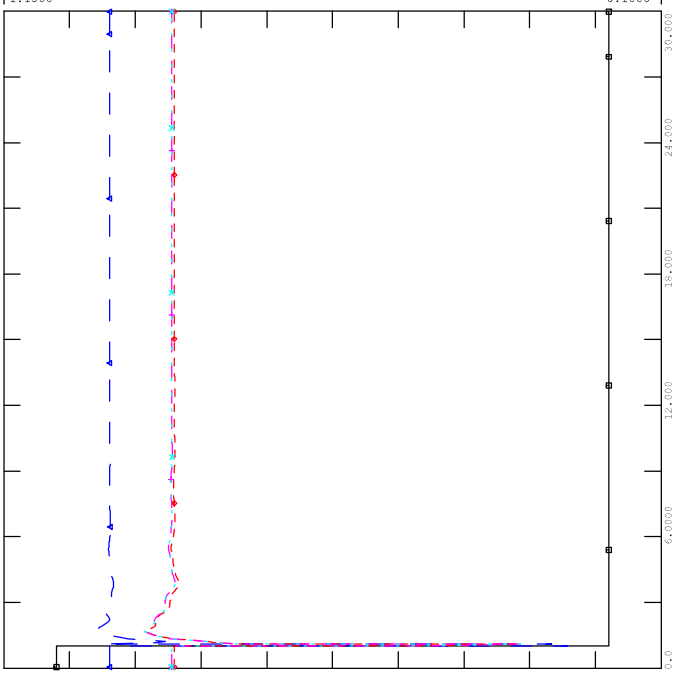


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1193 0.65170
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1193 0.65170
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1198 0.65810
CHNL# 271: [ETRM972378[0.7000]G1]
1.1636 0.45920
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 -0.1000

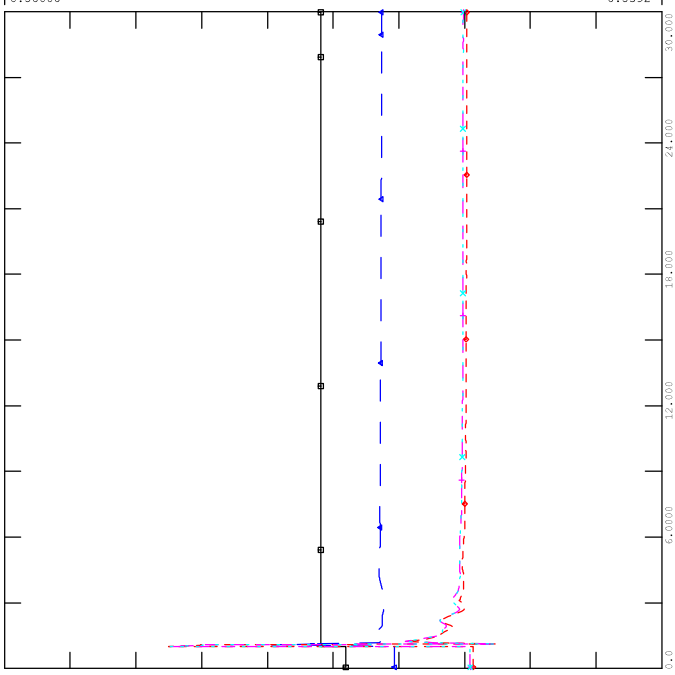


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3]
3.2357 -1.463
CHNL# 149: [VARS 774[SECCT1 21.000]2]
3.2357 -1.463
CHNL# 148: [VARS 773[SECST 20.000]1]
4.0147 -1.705
CHNL# 173: [VARS972378[0.7000]G1]
0.69120 -0.5388
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
0.50000 -0.5392

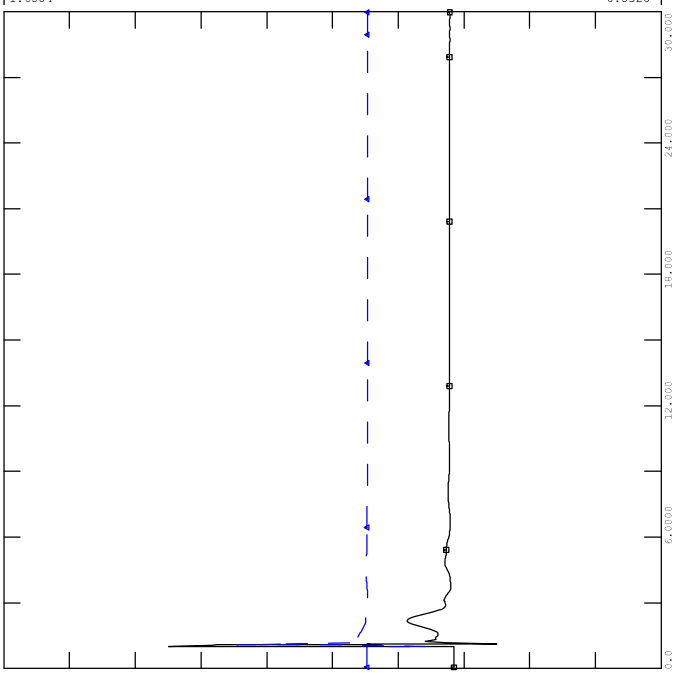


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
1.0008 -0.4096
CHNL# 151: [VARS 3187[CECST 13.200]2]
1.6584 -0.5320

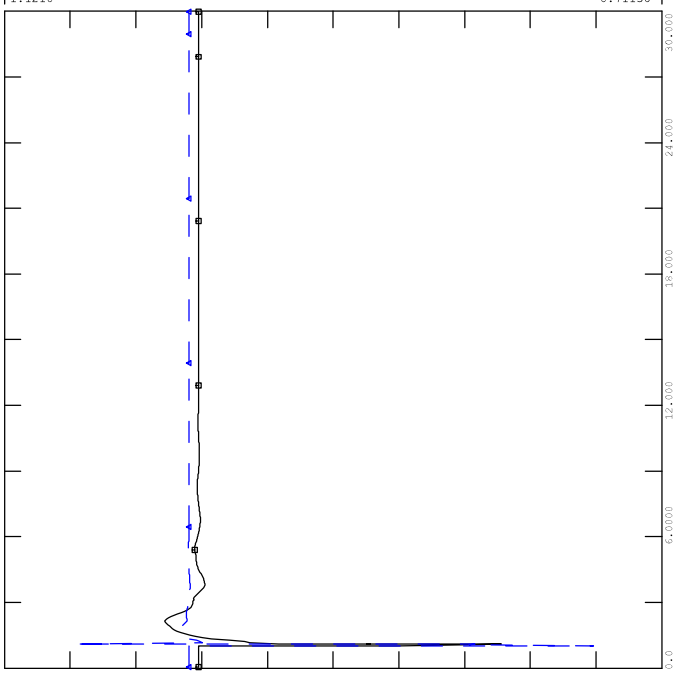


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2696 0.30890
CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1210 0.71130

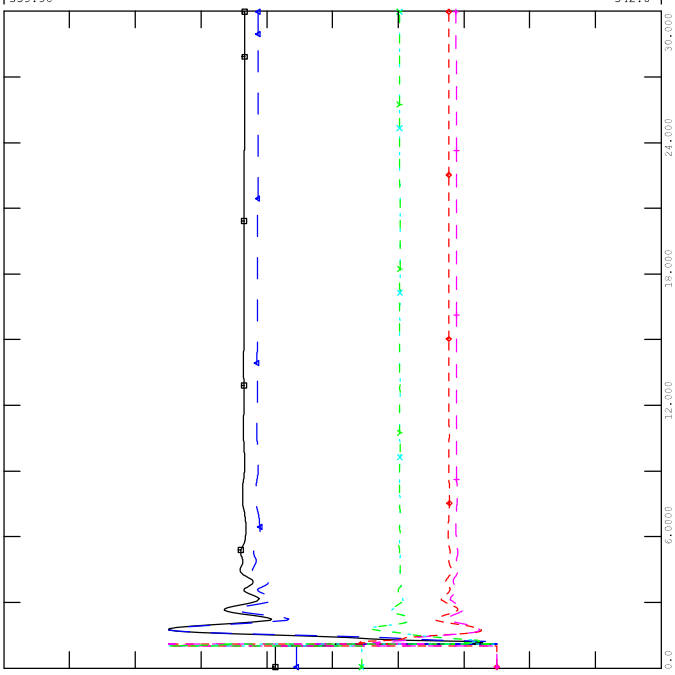


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
BRANCH P

CHNL# 335: [1107L P]
72.895 -670.2
CHNL# 317: [1106L P]
72.973 -670.3
CHNL# 329: [1005L P]
194.88 -539.0
CHNL# 339: [1036L P]
145.68 -457.4
CHNL# 333: [935L P]
257.08 -291.8
CHNL# 321: [923L P]
339.90 -342.8

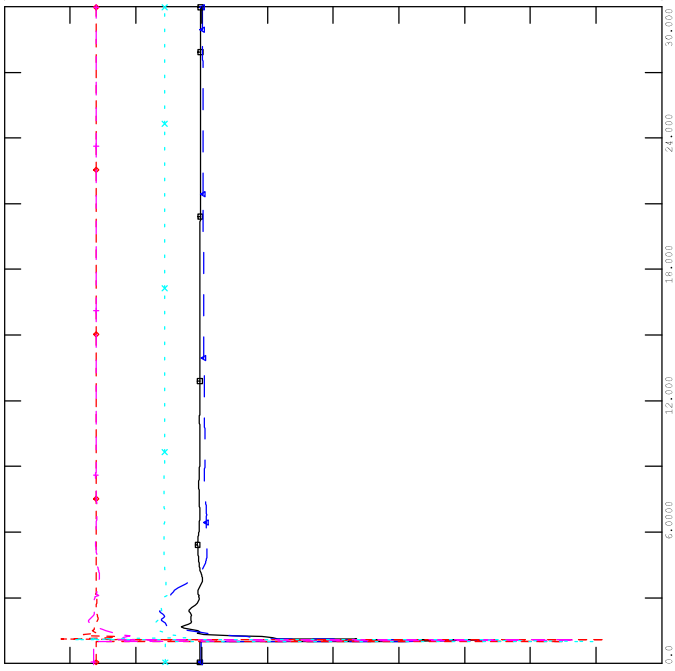


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2374 0.26570
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1306 0.34930
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2627 0.09670
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1566 0.73300
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1503 0.77920

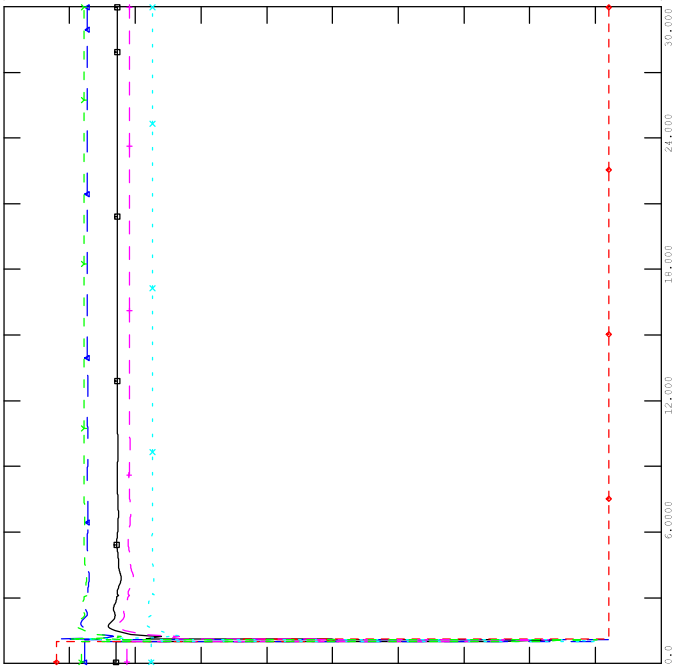


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16
BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1515 0.11820
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.2683 0.26280
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1663 0.58230
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1500 -0.1000
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.1989 -0.0798
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1615 0.53050



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

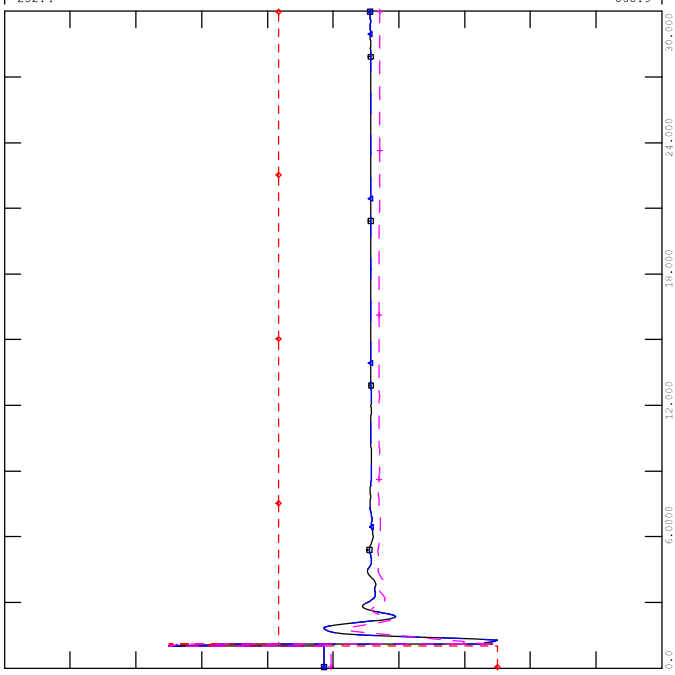
FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16

BRANCH P

CHNL# 355: [927L_A2_1_P]
510.53 -1239.
CHNL# 337: [924L_A2_1_P]
445.61 -624.1
CHNL# 323: [1003L_P]
-249.4 -799.8
CHNL# 347: [985L_P]
-252.4 -808.9

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

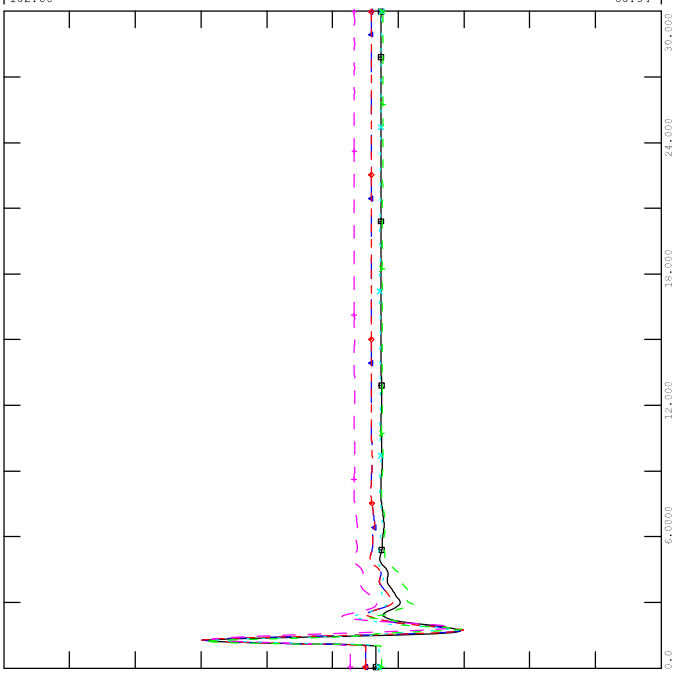
FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
95.838 -69.13
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
83.680 -71.47
CHNL# 4: [ANGL 3187[CECST 13.200]2]
78.145 -79.60
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
100.45 -65.68
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
100.45 -65.68
CHNL# 1: [ANGL 773[SECST 20.000]1]
102.66 -60.94

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

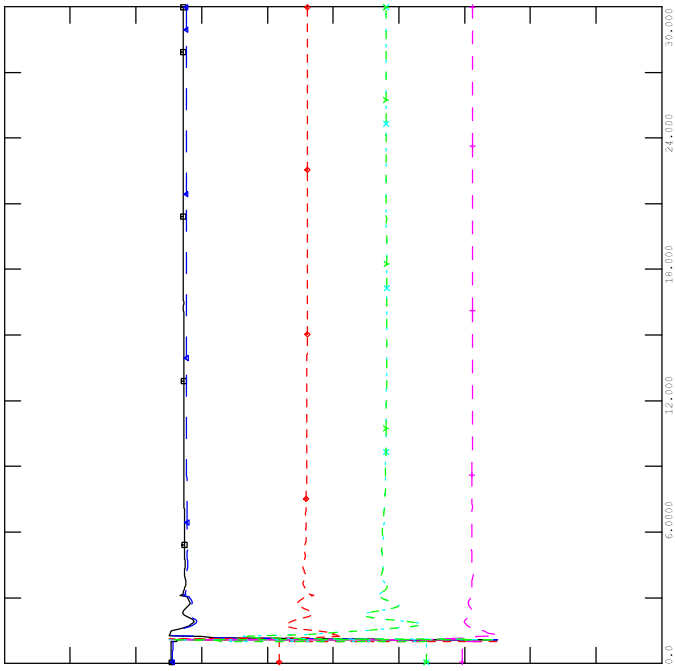
FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16

BRANCH Q

CHNL# 336: [1107L_Q]
326.43 -2.410
CHNL# 318: [1106L_Q]
326.50 -2.262
CHNL# 330: [1005L_Q]
837.53 -326.1
CHNL# 340: [1036L_Q]
265.44 -104.9
CHNL# 334: [935L_Q]
167.30 -542.4
CHNL# 322: [923L_Q]
185.97 -601.5

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_02_924L_MILO

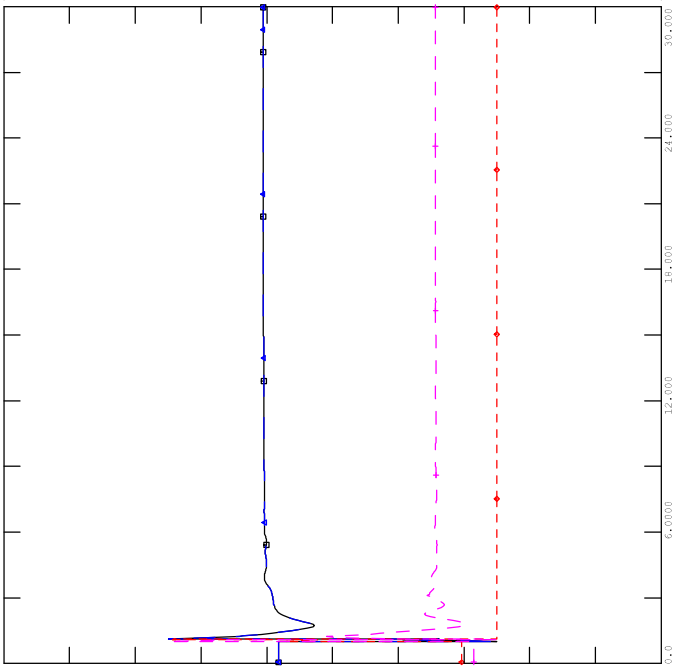
FILE: scn3_SP_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16

BRANCH Q

CHNL# 356: [927L_A2_1_Q]
886.02 -213.7
CHNL# 338: [924L_A2_1_Q]
1446.4 -482.1
CHNL# 324: [1003L_Q]
377.39 -153.7
CHNL# 348: [985L_Q]
382.30 -155.4

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.64290 -0.0993
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.5734 0.24770
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
1.2788 -0.0132
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.78000 -0.0667
CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.72220 0.02540

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3]
5.8338 -2.964
CHNL# 149: [VARS 774[SECCT1 21.000]2]
5.8338 -2.964
CHNL# 148: [VARS 773[SECST 20.000]1]
7.2881 -3.567
CHNL# 173: [VARS972378[0.7000]G1]
0.61400 -0.5388
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
1.0225 -0.5392

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3]
4.0495 0.38450
CHNL# 100: [POWR 774[SECCT1 21.000]2]
4.0495 0.38450
CHNL# 99: [POWR 773[SECST 20.000]1]
4.9936 0.60970
CHNL# 124: [POWR972378[0.7000]G1]
0.95000 -0.2000
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0185 -0.1826

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.66750 -0.0608
CHNL# 102: [POWR 3187[CECST 13.200]2]
1.7420 -0.1315

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
0.85940 -0.3623

CHNL# 151: [VARS 3187[CECST 13.200]2]
3.0542 -1.191

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2094 0.45890

CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1345 0.60520

CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3029 0.48240

CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1642 0.61870

CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1592 0.61770

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.51390 -0.6294

CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1285 -0.5802

CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
2.0538 -0.3809

CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
1.2523 -0.4776

CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
1.3107 -0.5321

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1447 0.39690

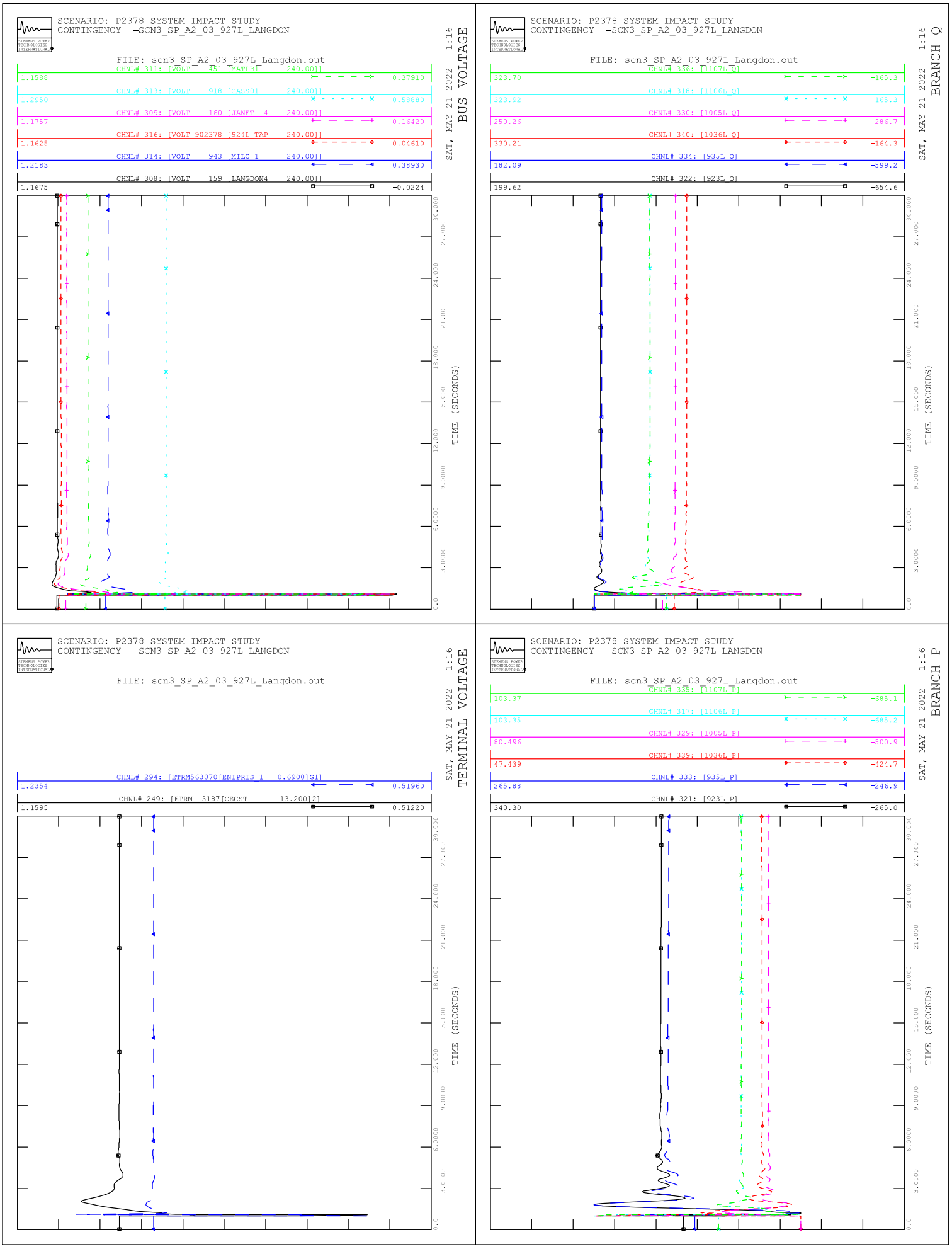
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1447 0.39690

CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1467 0.41180

CHNL# 271: [ETRM972378[0.7000]G1]
1.1500 -0.1000

CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1798 0.04810

TIME (SECONDS)

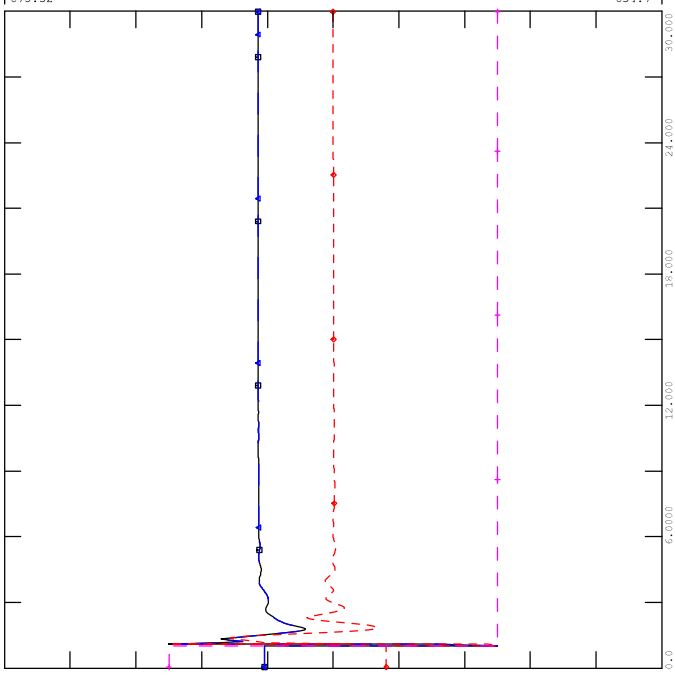

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON
FILE: scn3_SP_A2_03_927L_Langdon.out
CHNL# 311: [VOLT 451 [MATLBI 240.00]]
1.1588
0.37910
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.2950
0.58880
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1757
0.16420
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1625
0.04610
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2183
0.38930
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1675
-0.0224
SAT, MAY 21 2022 1:16
BUS VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON
FILE: scn3_SP_A2_03_927L_Langdon.out
CHNL# 336: [1107L Q]
323.70
-165.3
CHNL# 318: [1106L Q]
323.92
-165.3
CHNL# 330: [1005L Q]
250.26
-286.7
CHNL# 340: [1036L Q]
330.21
-164.3
CHNL# 334: [935L Q]
182.09
-599.2
CHNL# 322: [923L Q]
199.62
-654.6
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON
FILE: scn3_SP_A2_03_927L_Langdon.out
CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2354
0.51960
CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1595
0.51220
SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON
FILE: scn3_SP_A2_03_927L_Langdon.out
CHNL# 335: [1107L P]
103.37
-685.1
CHNL# 317: [1106L P]
103.35
-685.2
CHNL# 329: [1005L P]
80.496
-500.9
CHNL# 339: [1036L P]
47.439
-424.7
CHNL# 333: [935L P]
265.88
-246.9
CHNL# 321: [923L P]
340.30
-265.0
SAT, MAY 21 2022 1:16
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH Q

CHNL# 356: [927L_A2_1_Q] 149.88 -49.96
CHNL# 338: [924L_A2_1_Q] 566.99 -232.0
CHNL# 324: [1003L_Q] 666.99 -627.3
CHNL# 348: [985L_Q] 675.32 -634.7

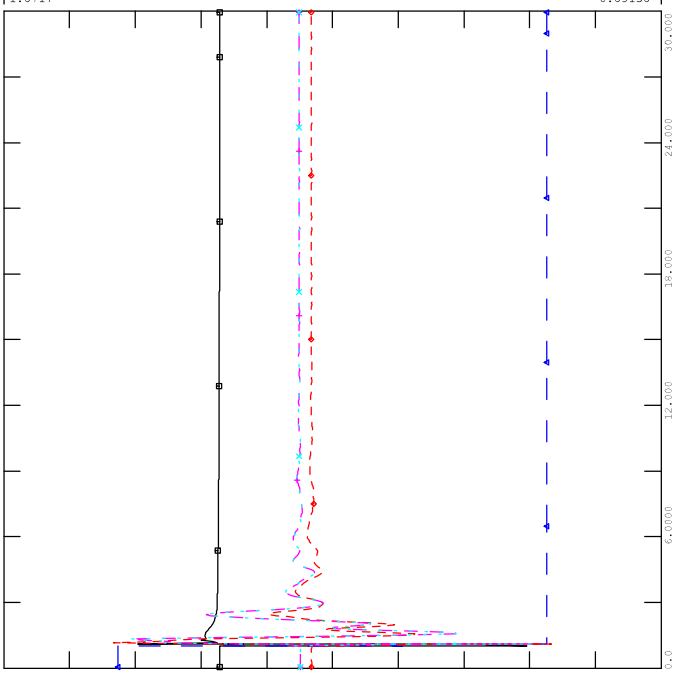


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3] 2.7185 1.6891
CHNL# 100: [POWR 774[SECCT1 21.000]2] 2.7185 1.6891
CHNL# 99: [POWR 773[SECST 20.000]1] 3.5655 2.3678
CHNL# 124: [POWR972378[0.7000]G1] 0.95000 -0.2000
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1] 1.0717 0.09130

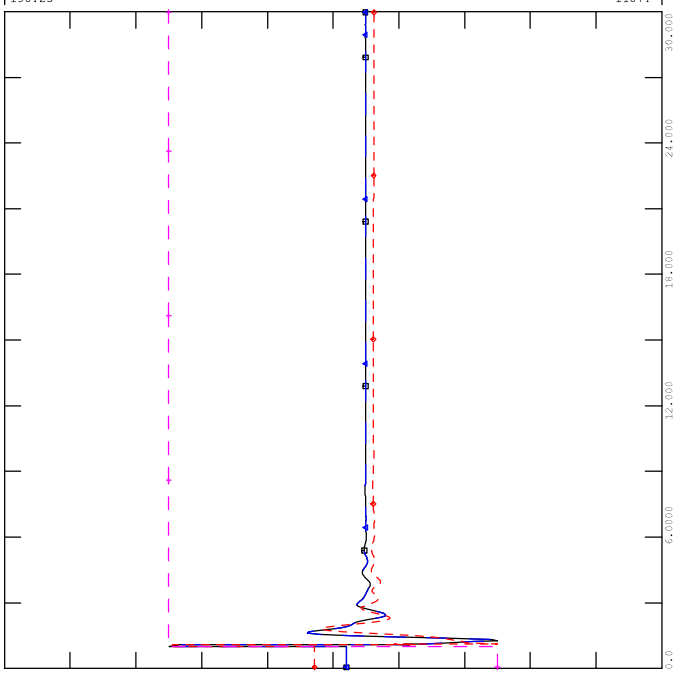


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_03_927L_LANGDON

FILE: scn3_SP_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 355: [927L_A2_1_P] 179.49 -538.5
CHNL# 337: [924L_A2_1_P] 318.02 -1112.
CHNL# 323: [1003L_P] 196.26 -1174.
CHNL# 347: [985L_P] 198.23 -1187.

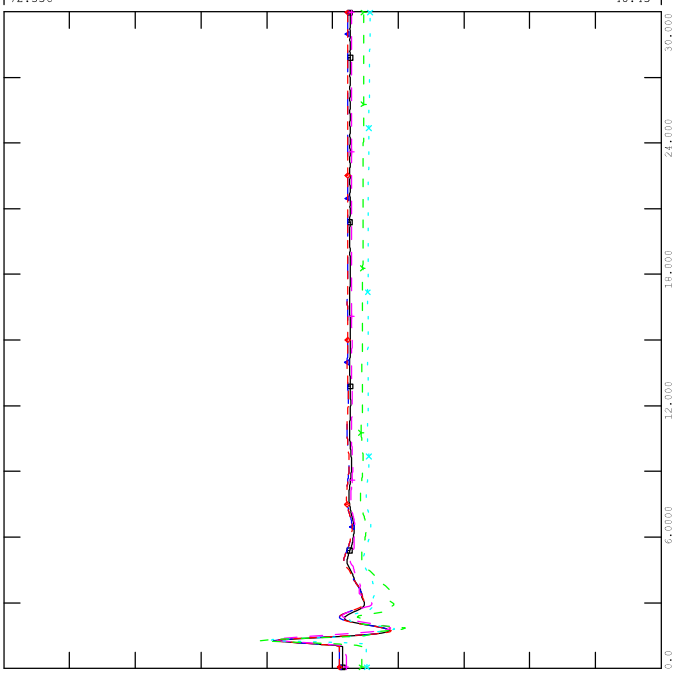


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2] 70.944 -57.38
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1] 63.105 -59.98
CHNL# 4: [ANGL 3187[CECST 13.200]2] 58.230 -63.15
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 71.277 -50.58
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 71.277 -50.58
CHNL# 1: [ANGL 773[SECST 20.000]1] 72.336 -48.43



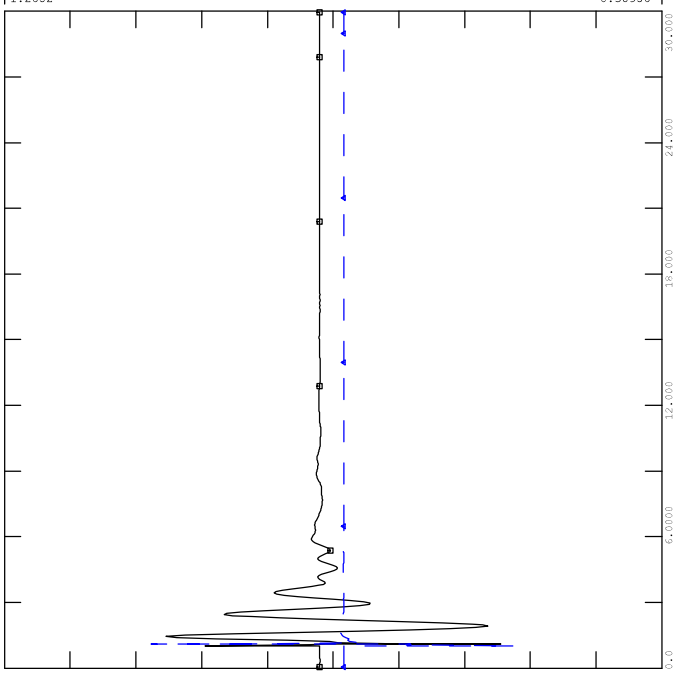
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.78680 -0.1083

CHNL# 102: [POWR 3187[CECST 13.200]2]
1.2052 0.38950



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

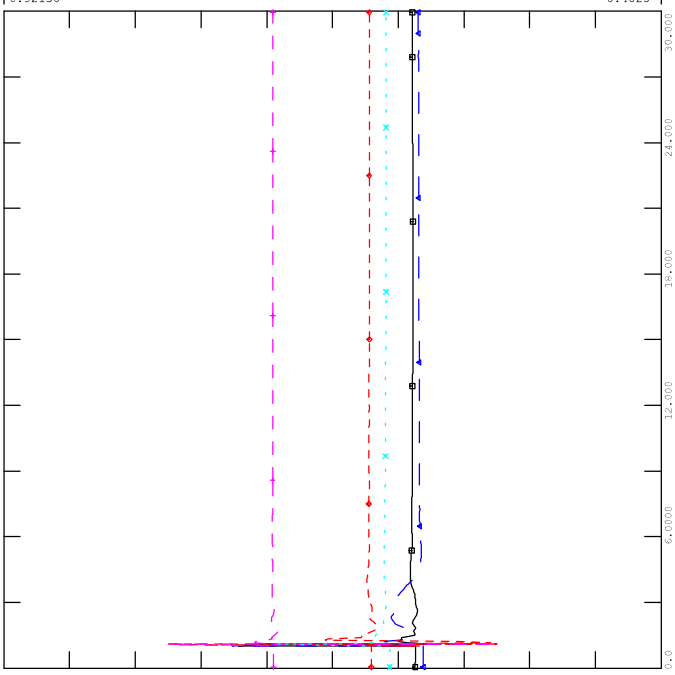
CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.58080 -0.6294

CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.7799 -2.654

CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
2.5388 -1.234

CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
0.96790 -0.4680

CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
0.92130 -0.4825



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

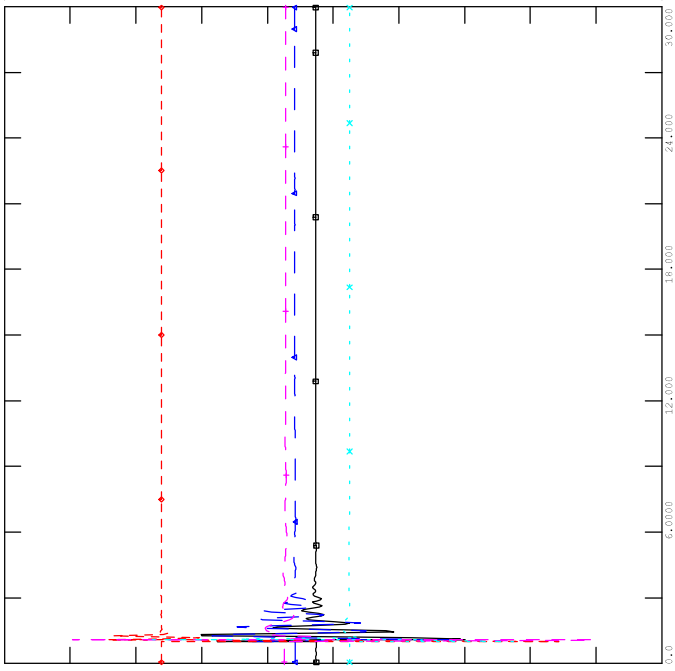
CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.75580 -0.1318

CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
2.0972 0.16740

CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
1.0792 -0.2000

CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.63520 0.00190

CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.66510 -0.0028



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

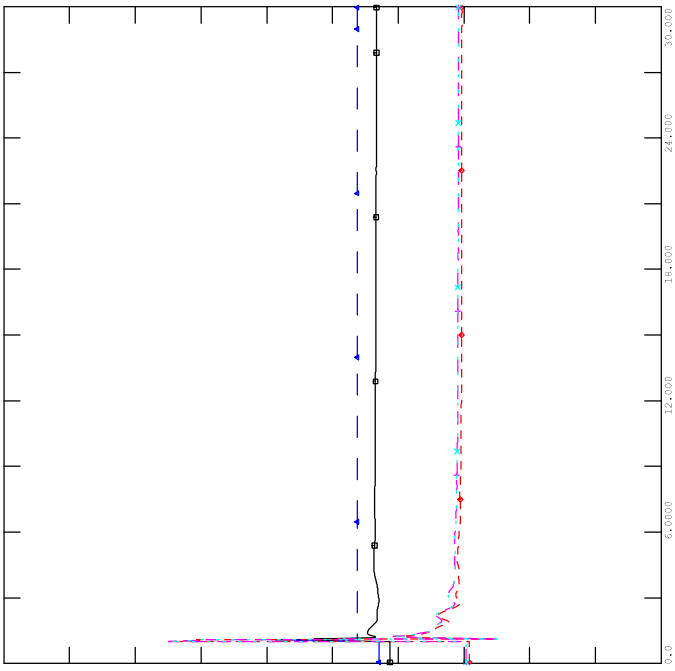
CHNL# 150: [VARS 775[SECCT2 21.000]3]
3.0693 -1.429

CHNL# 149: [VARS 774[SECCT1 21.000]2]
3.0693 -1.429

CHNL# 148: [VARS 773[SECST 20.000]1]
3.8039 -1.659

CHNL# 173: [VARS972378[0.7000]G1]
0.62540 -0.5388

CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
0.67270 -0.5392

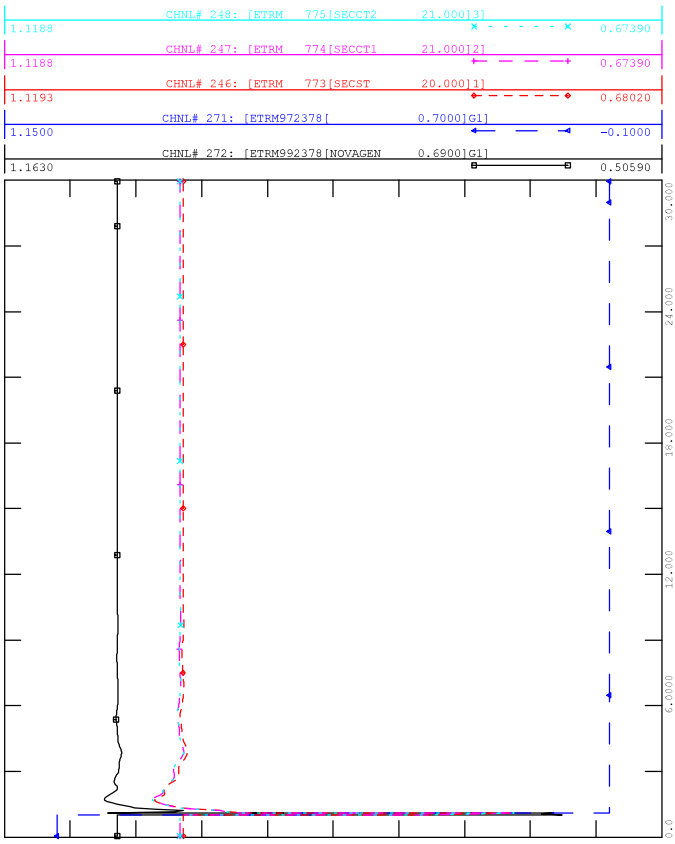


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

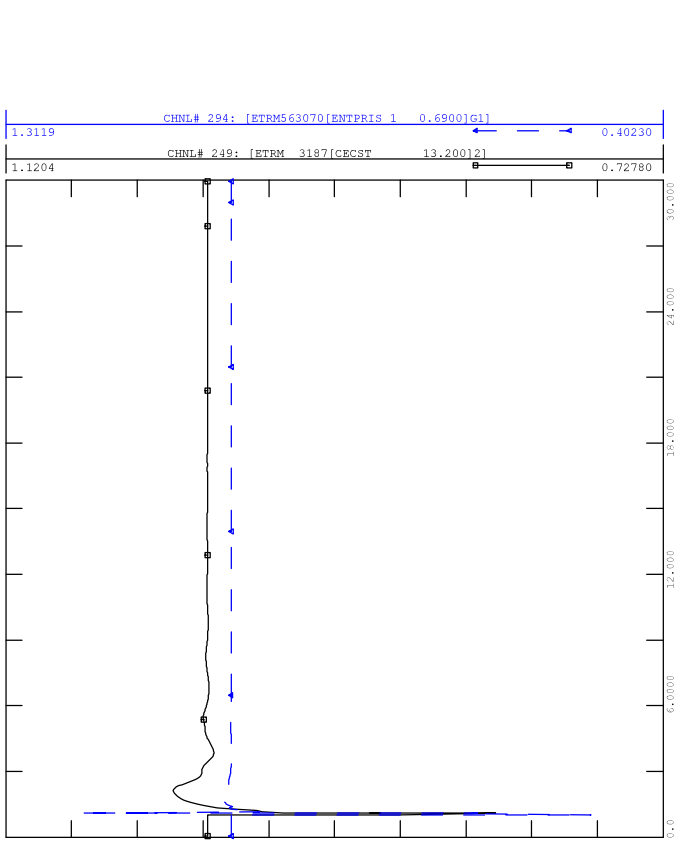


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

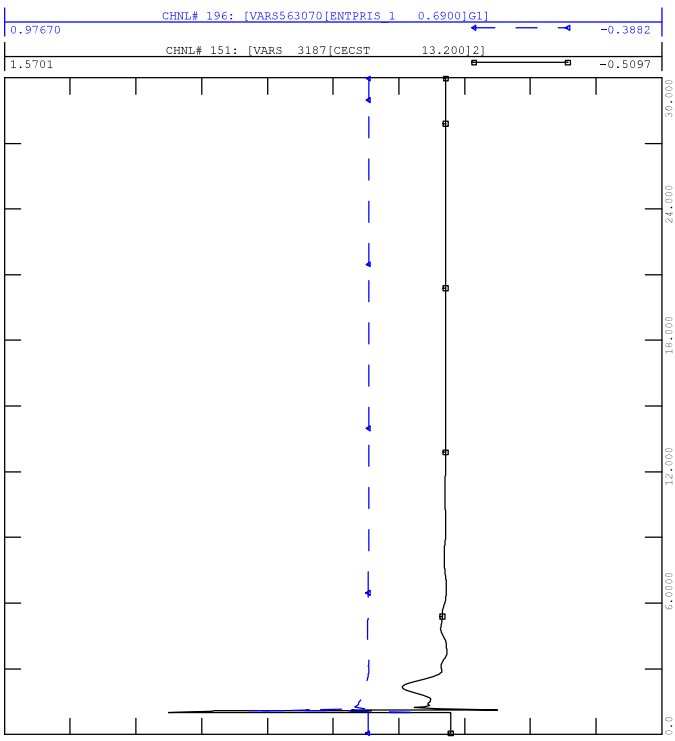


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

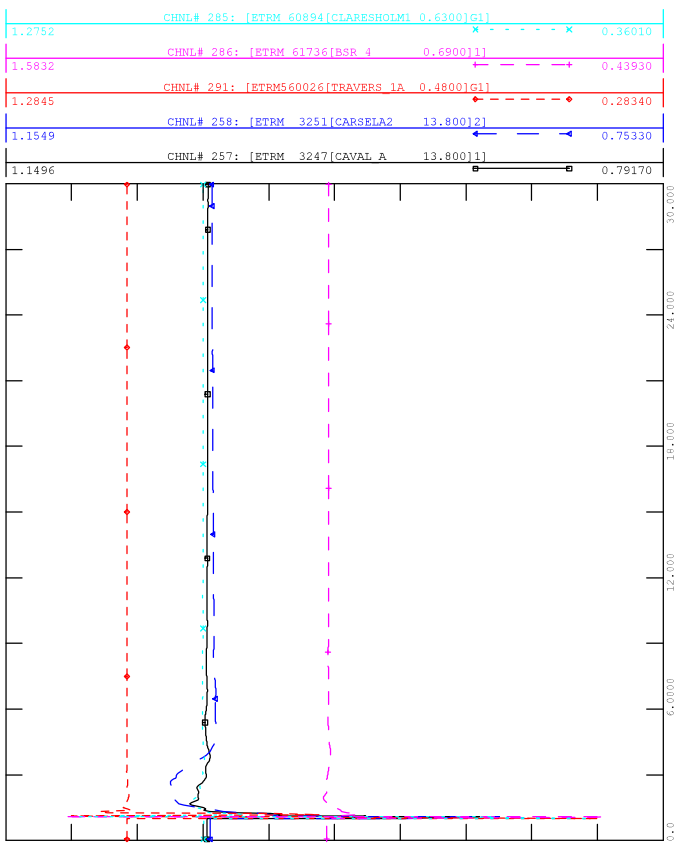


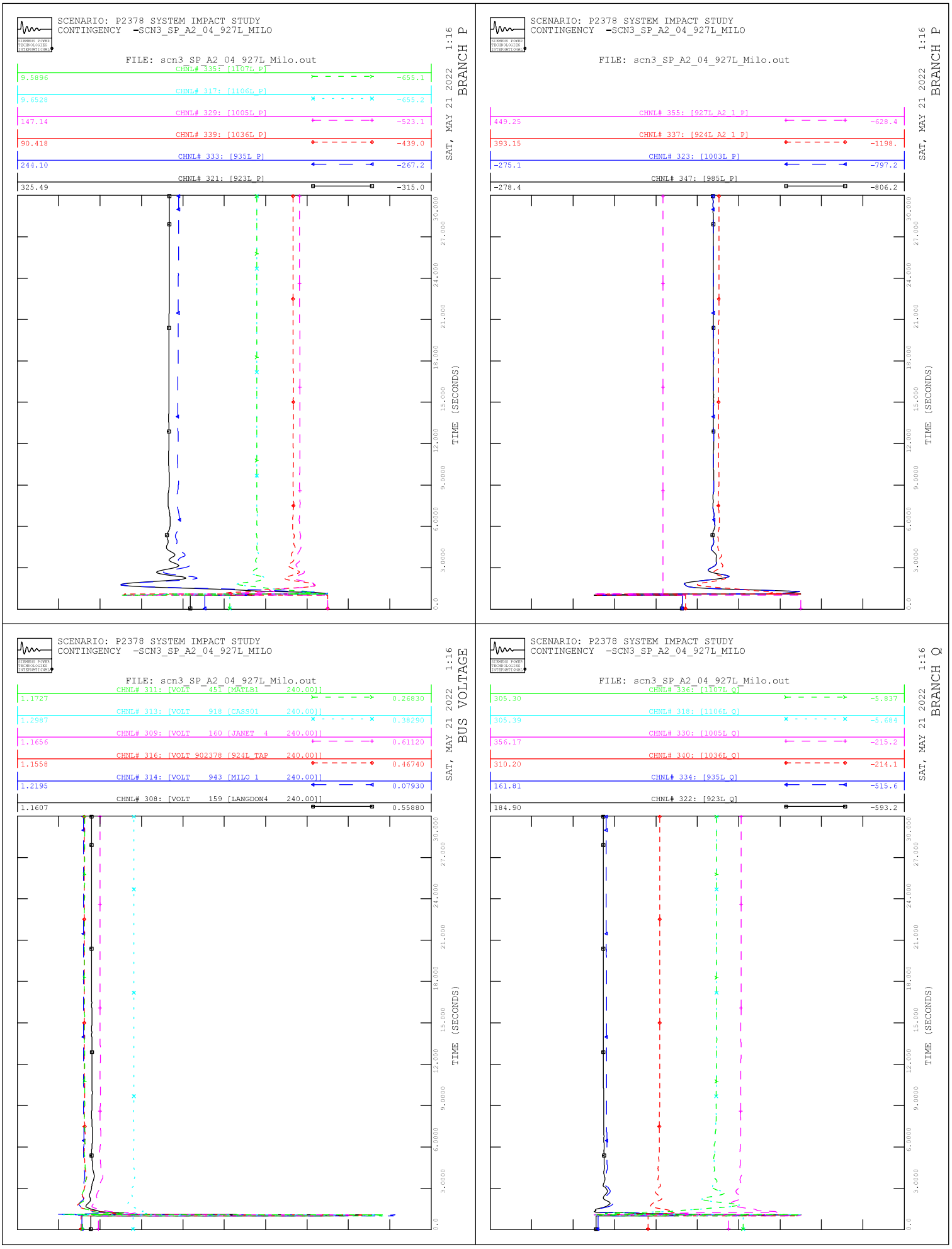
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO
FILE: scn3_SP_A2_04_927L_Milo.out
CHNL# 335: [1107L P]
9.5896
-655.1
CHNL# 317: [1106L P]
9.6528
-655.2
CHNL# 329: [1005L P]
147.14
-523.1
CHNL# 339: [1036L P]
90.418
-439.0
CHNL# 333: [935L P]
244.10
-267.2
CHNL# 321: [923L P]
325.49
-315.0
BRANCH P
SAT, MAY 21 2022 1:16
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO
FILE: scn3_SP_A2_04_927L_Milo.out
CHNL# 355: [927L A2 1 P]
449.25
-628.4
CHNL# 337: [924L A2 1 P]
393.15
-1198.
CHNL# 323: [1003L P]
-275.1
-797.2
CHNL# 347: [985L P]
-278.4
-806.2
BRANCH P
SAT, MAY 21 2022 1:16
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO
FILE: scn3_SP_A2_04_927L_Milo.out
CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1727
0.26830
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.2987
0.38290
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1656
0.61120
CHNL# 316: [VOLT 902378 [924L_TAP 240.00]]
1.1558
0.46740
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2195
0.07930
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1607
0.55880
BUS VOLTAGE
SAT, MAY 21 2022 1:16
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO
FILE: scn3_SP_A2_04_927L_Milo.out
CHNL# 336: [1107L Q]
305.30
-5.837
CHNL# 318: [1106L Q]
305.39
-5.684
CHNL# 330: [1005L Q]
356.17
-215.2
CHNL# 340: [1036L Q]
310.20
-214.1
CHNL# 334: [935L Q]
161.81
-515.6
CHNL# 322: [923L Q]
184.90
-593.2
BRANCH Q
SAT, MAY 21 2022 1:16
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
70.309 -58.27

CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
64.116 -60.61

CHNL# 4: [ANGL 3187[CECST 13.200]2]
58.568 -63.65

CHNL# 3: [ANGL 775[SECCT2 21.000]3]
71.393 -51.00

CHNL# 2: [ANGL 774[SECCT1 21.000]2]
71.393 -51.00

CHNL# 1: [ANGL 773[SECST 20.000]1]
72.460 -48.64

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.77970 -0.1581

CHNL# 139: [POWR 61736[BSR_4 0.6900]1]
1.5240 0.01800

CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
0.97390 -0.2000

CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.65620 0.04290

CHNL# 110: [POWR 3247[CAVAL_A 13.800]1]
0.70560 -0.0522

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_04_927L_MILO

FILE: scn3_SP_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16

BRANCH Q

CHNL# 356: [927L_A2_1 Q]
1565.0 -521.7

CHNL# 338: [924L_A2_1 Q]
759.49 -184.5

CHNL# 324: [1003L Q]
374.43 -156.4

CHNL# 348: [985L Q]
379.31 -158.0

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3]
2.8043 1.7637

CHNL# 100: [POWR 774[SECCT1 21.000]2]
2.8043 1.7637

CHNL# 99: [POWR 773[SECST 20.000]1]
3.5502 2.5940

CHNL# 124: [POWR972378[0.7000]G1]
1.0723 0.04320

CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0723 0.04320

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

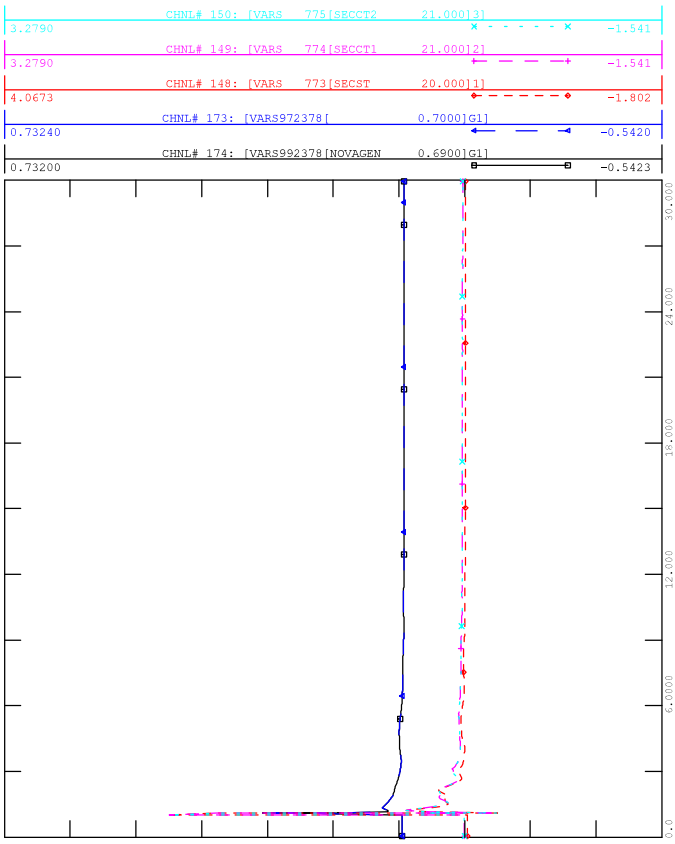
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

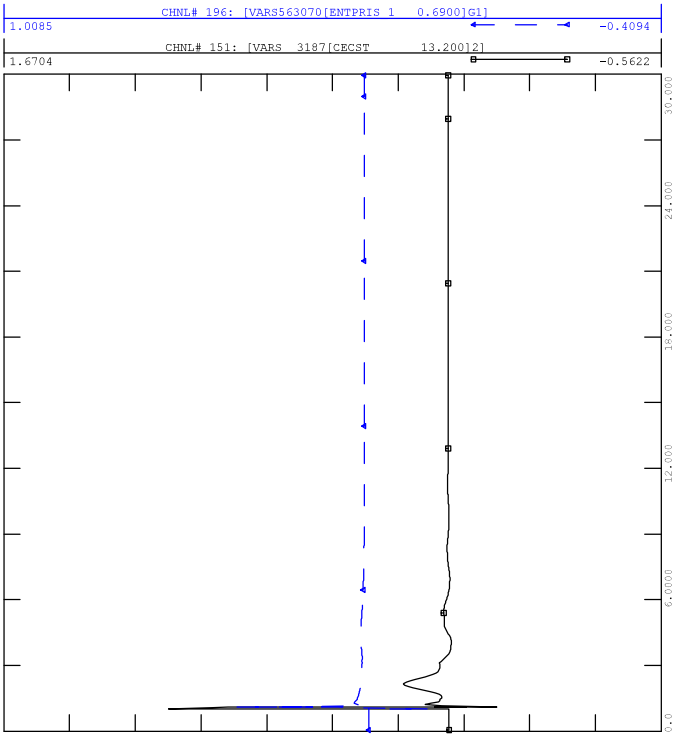


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

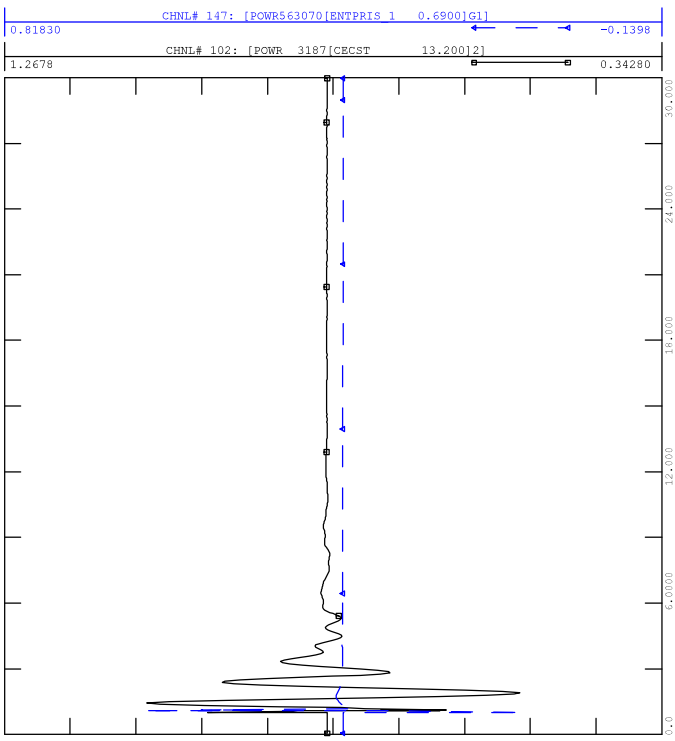


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

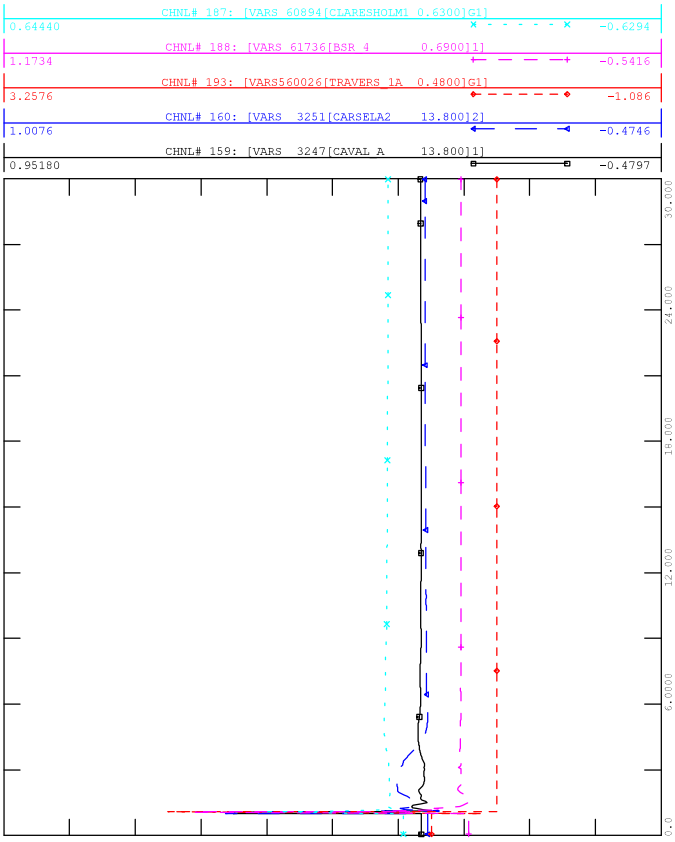


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

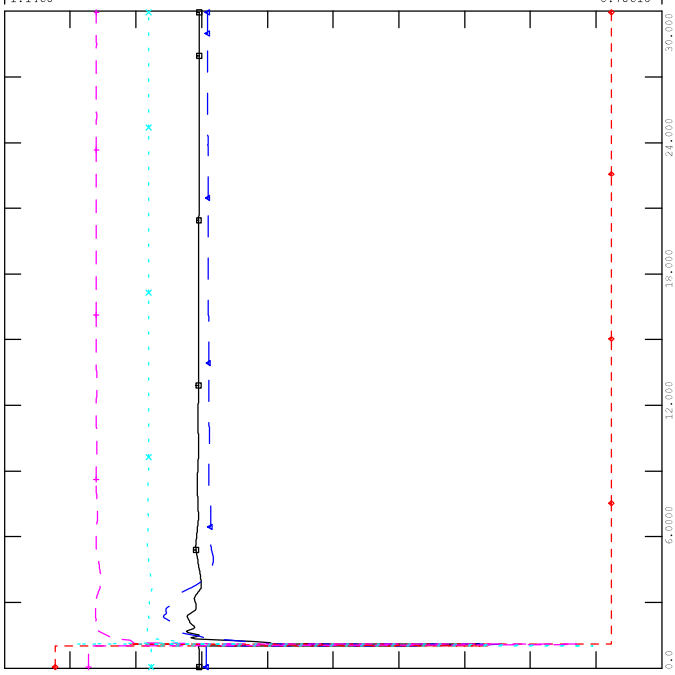
CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2120 0.26070

CHNL# 286: [ETRM 61736[BSR_4 0.6900]1]
1.1250 0.34190

CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2000 -0.1000

CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1571 0.74320

CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1468 0.78610



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1295 0.16510

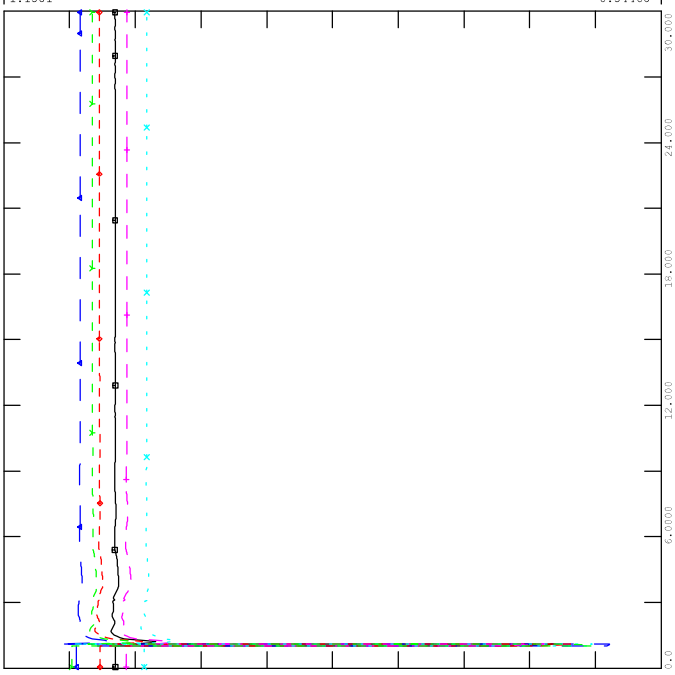
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.2537 0.26700

CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1624 0.59780

CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1559 0.43370

CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.1821 -0.0884

CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1581 0.54460



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

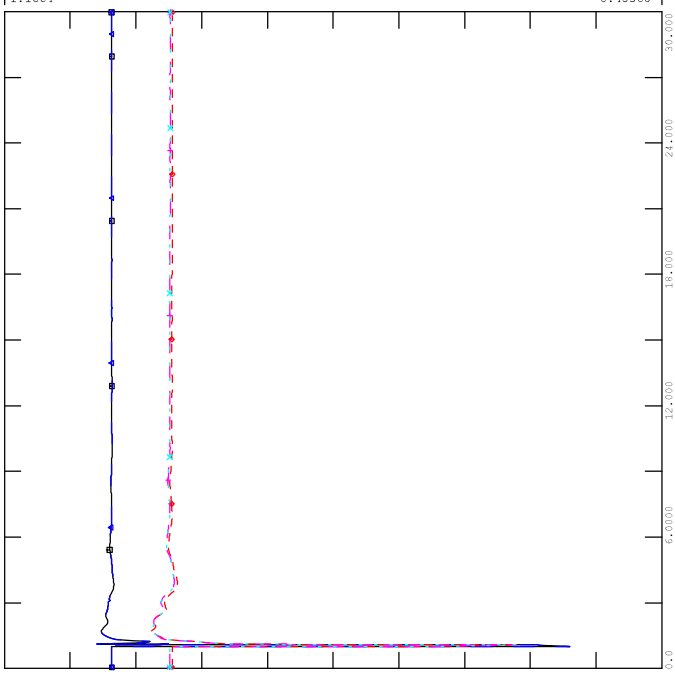
CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1142 0.66070

CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1142 0.66070

CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1140 0.66680

CHNL# 271: [ETRM972378[0.7000]G1]
1.1664 0.45360

CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1664 0.45360



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

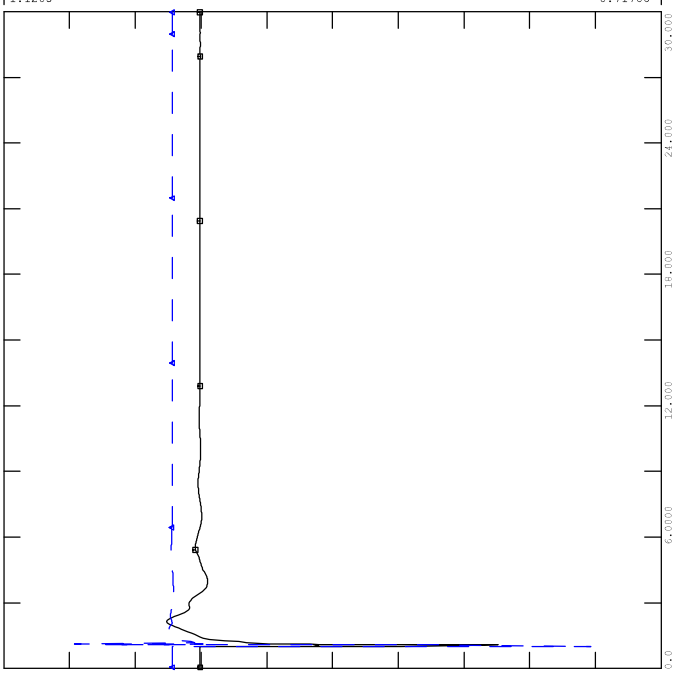
FILE: scn3_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2395 0.30600

CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1205 0.71700



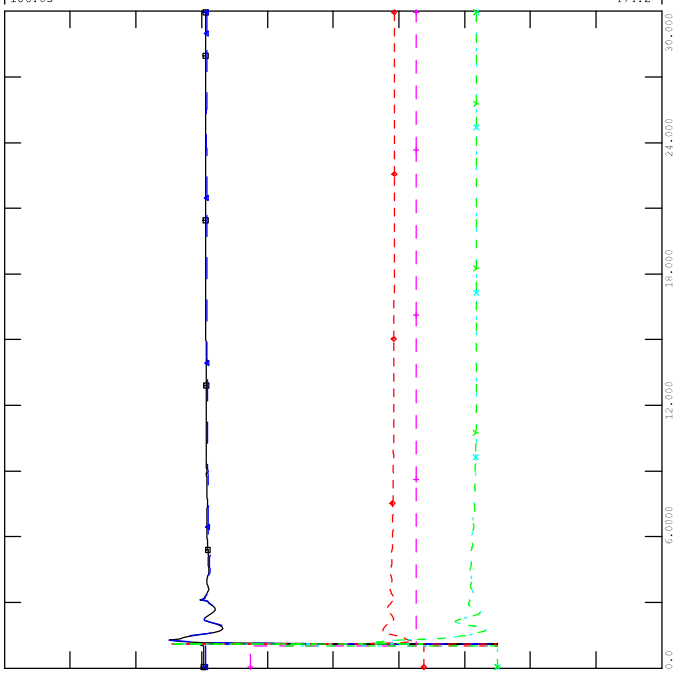
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

CHNL# 336: [1107L Q] 385.17 25.474
CHNL# 318: [1106L Q] 385.31 25.572
CHNL# 330: [1005L Q] 67.059 -40.00
CHNL# 340: [1036L Q] 786.35 -273.2
CHNL# 334: [935L Q] 158.22 -404.8
CHNL# 322: [923L Q] 186.03 -474.2

SAT, MAY 21 2022 1:16 BRANCH Q

TIME (SECONDS)



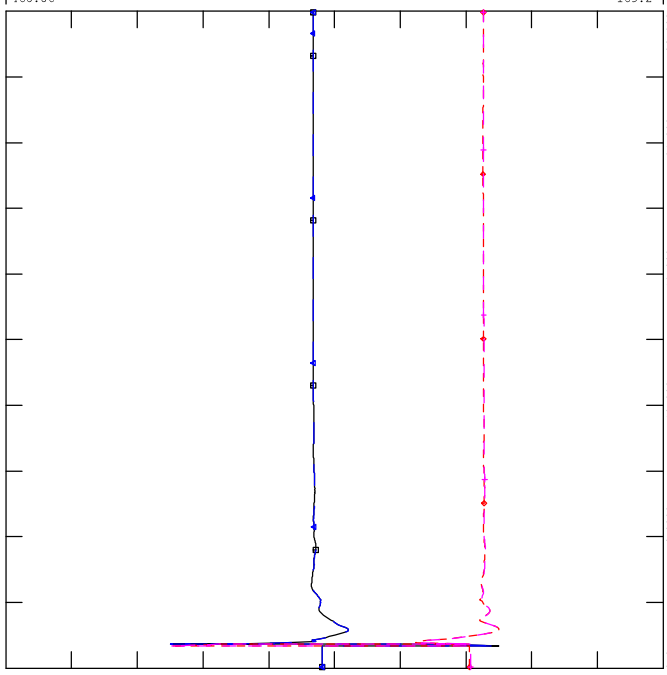
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

CHNL# 356: [927L A2 1 Q] 899.45 -231.2
CHNL# 338: [924L A2 1 Q] 893.53 -227.2
CHNL# 324: [1003L Q] 455.18 -167.4
CHNL# 348: [985L Q] 460.86 -169.2

SAT, MAY 21 2022 1:16 BRANCH Q

TIME (SECONDS)



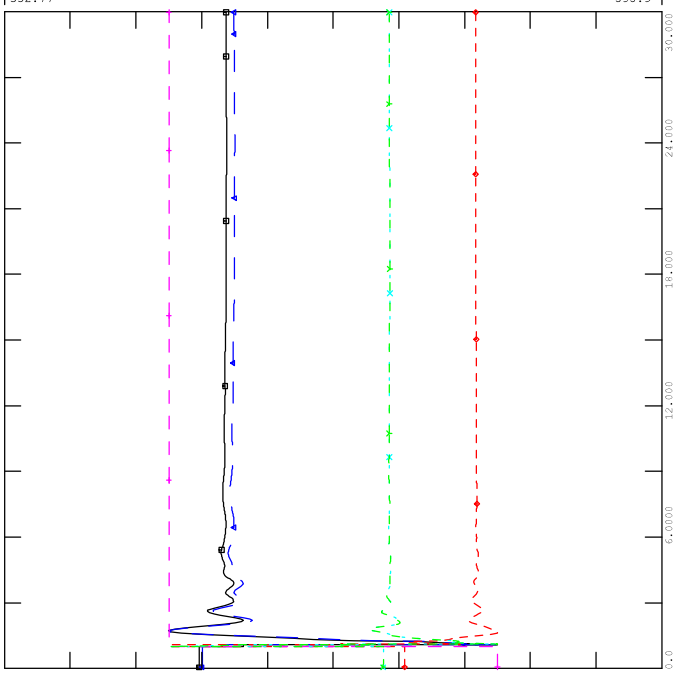
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

CHNL# 335: [1107L P] 26.201 -594.5
CHNL# 317: [1106L P] 26.276 -594.6
CHNL# 329: [1005L P] 177.76 -533.3
CHNL# 339: [1036L P] 206.71 -636.7
CHNL# 333: [935L P] 244.31 -526.5
CHNL# 321: [923L P] 332.77 -595.9

SAT, MAY 21 2022 1:16 BRANCH P

TIME (SECONDS)



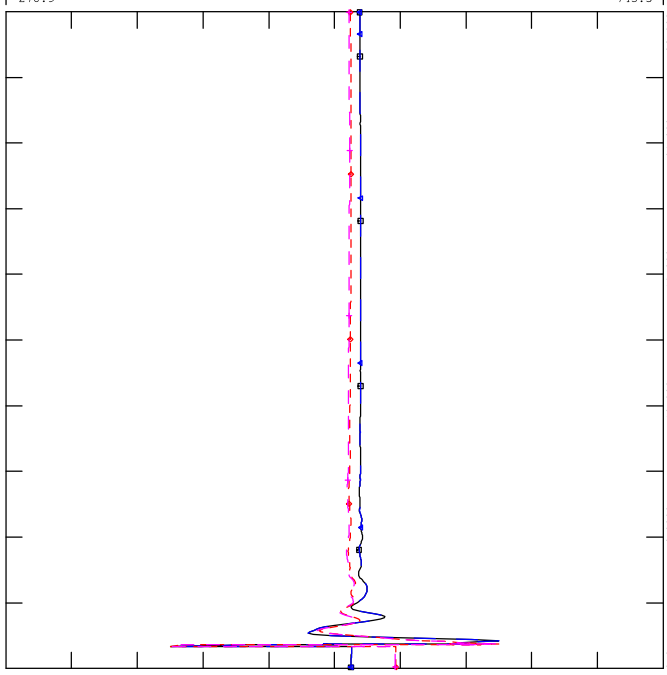
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_05_1005L_MILO

FILE: scn3_SP_A2_05_1005L_Milo.out

CHNL# 355: [927L A2 1 P] 393.95 -877.4
CHNL# 337: [924L A2 1 P] 401.83 -875.9
CHNL# 323: [1003L P] -275.7 -734.9
CHNL# 347: [985L P] -278.9 -743.3

SAT, MAY 21 2022 1:16 BRANCH P

TIME (SECONDS)

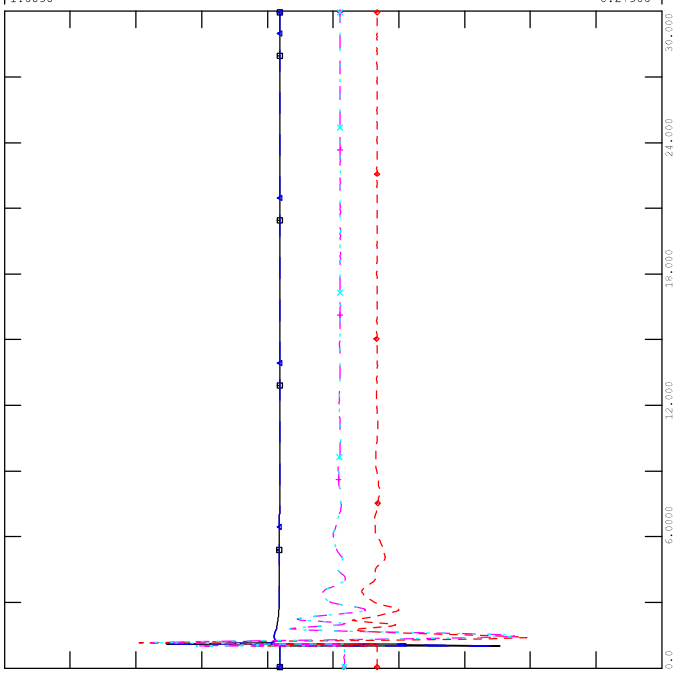


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3]
2.7159 1.8219
CHNL# 100: [POWR 774[SECCT1 21.000]2]
2.7159 1.8219
CHNL# 99: [POWR 773[SECST 20.000]1]
3.5584 2.5825
CHNL# 124: [POWR972378[0.7000]G1]
1.0898 0.27900
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0898 0.27900

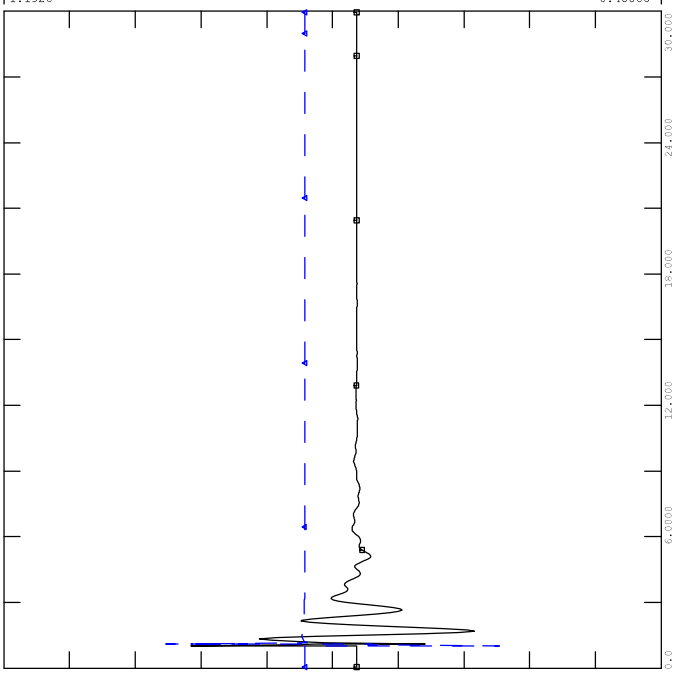


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.69710 -0.1156
CHNL# 102: [POWR 3187[CECST 13.200]2]
1.1920 0.48800

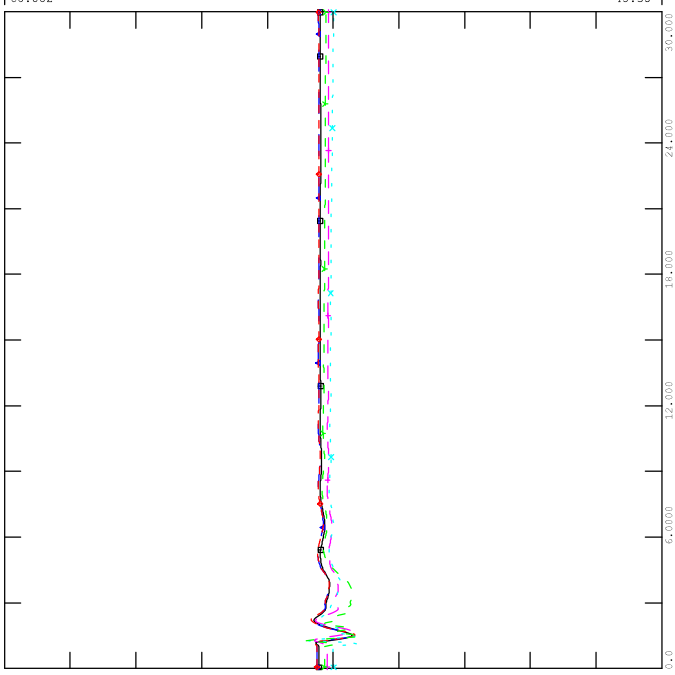


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16
ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
54.199 -54.78
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
49.172 -58.77
CHNL# 4: [ANGL 3187[CECST 13.200]2]
47.105 -59.02
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
59.964 -47.12
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
59.964 -47.12
CHNL# 1: [ANGL 773[SECST 20.000]1]
60.882 -45.35

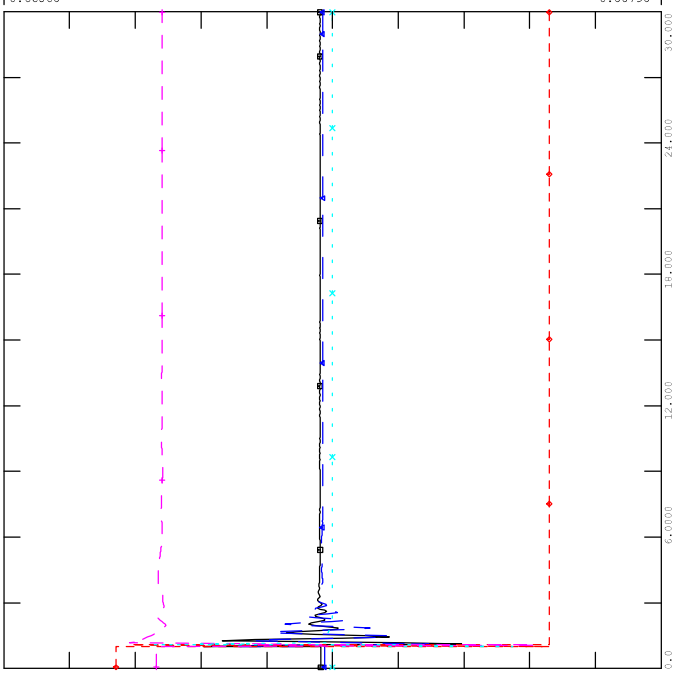


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.73300 -0.1533
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.5184 0.46940
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
0.97390 -0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.63470 0.06130
CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.66560 0.00790

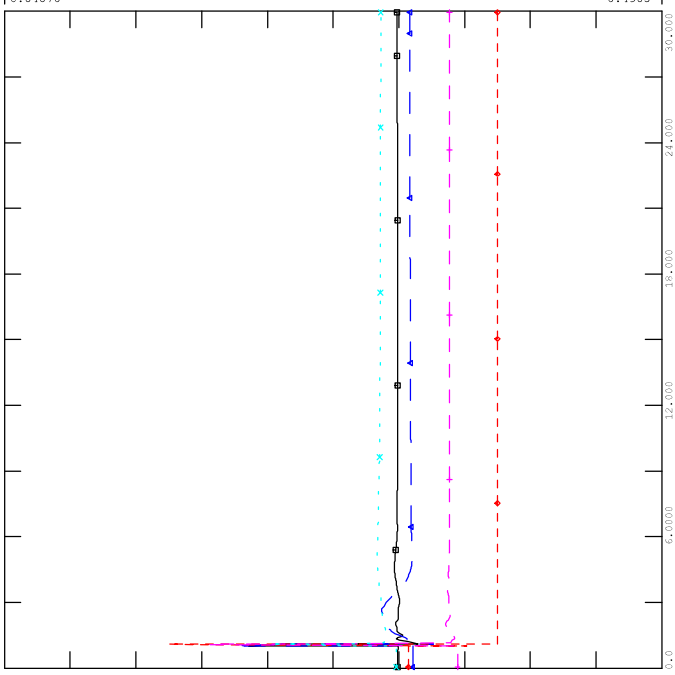


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.60910 -0.6294
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.0694 -0.5387
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
2.3737 -0.7912
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
0.94620 -0.4940
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
0.84870 -0.4985

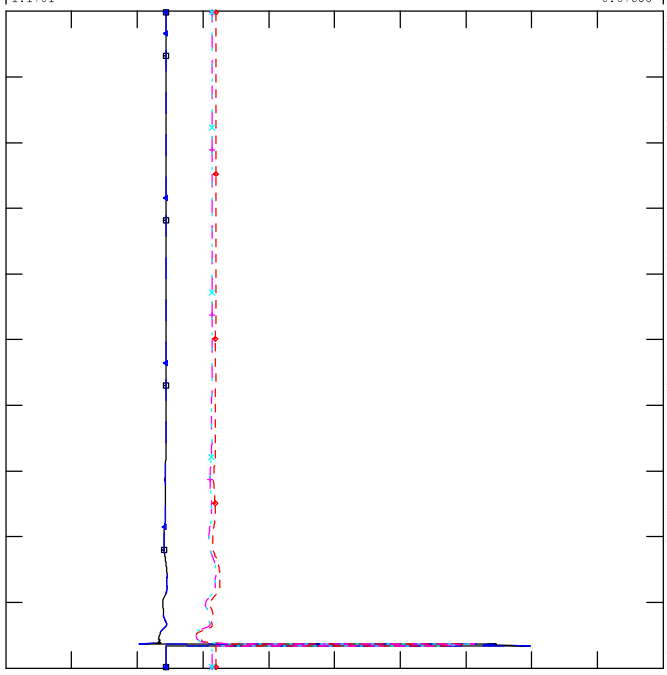


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1094 0.76070
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1094 0.76070
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1104 0.76470
CHNL# 271: [ETRM972378[0.7000]G1]
1.1701 0.67690
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1701 0.67680

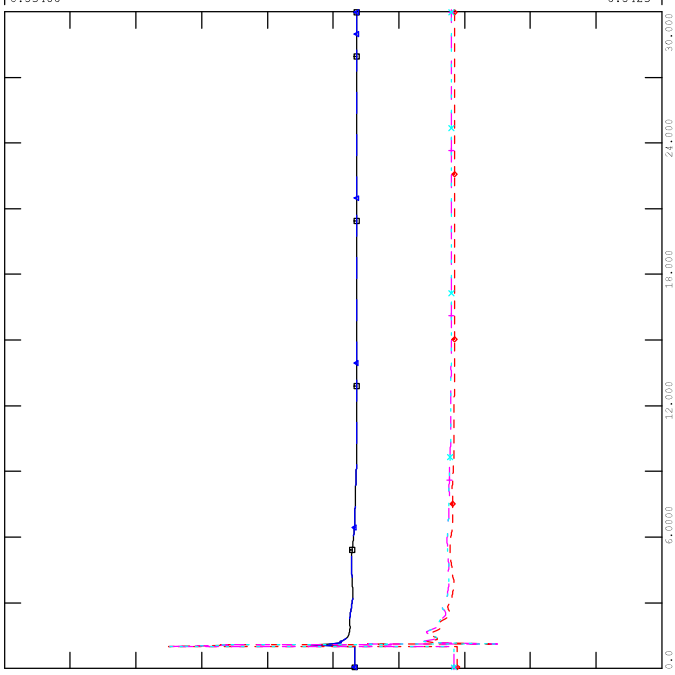


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3]
2.3538 -1.225
CHNL# 149: [VARS 774[SECCT1 21.000]2]
2.3538 -1.225
CHNL# 148: [VARS 773[SECST 20.000]1]
2.9256 -1.416
CHNL# 173: [VARS972378[0.7000]G1]
0.53510 -0.5419
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
0.53480 -0.5423

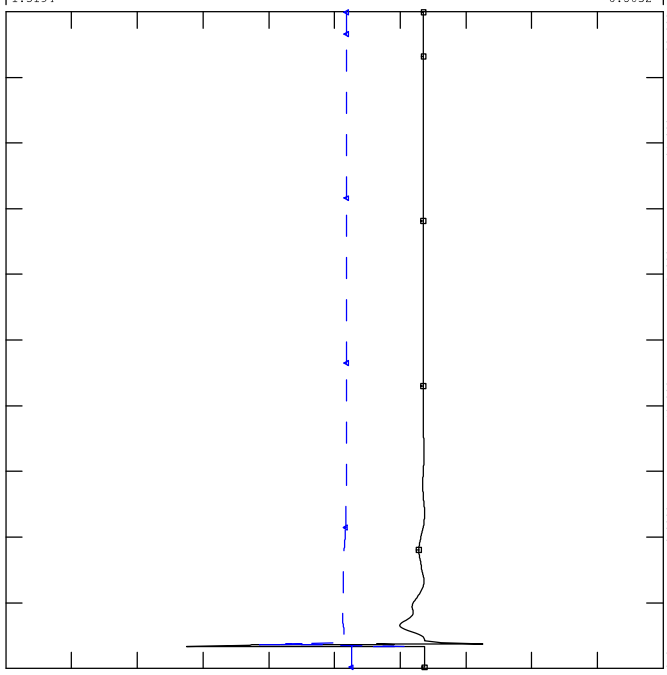


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
0.90330 -0.3928
CHNL# 151: [VARS 3187[CECST 13.200]2]
1.3194 -0.5032



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.1991 0.38200
CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1064 0.79470

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 335: [1107L P]
57.022 -539.2
CHNL# 317: [1106L P]
57.157 -539.3
CHNL# 329: [1005L P]
393.20 -605.1
CHNL# 339: [1036L P]
83.425 -610.3
CHNL# 333: [935L P]
67.614 -152.4
CHNL# 321: [923L P]
121.47 -133.5

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.1852 0.28070
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1250 0.52300
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2000 -0.1000
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1530 0.78660
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1447 0.83830

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out

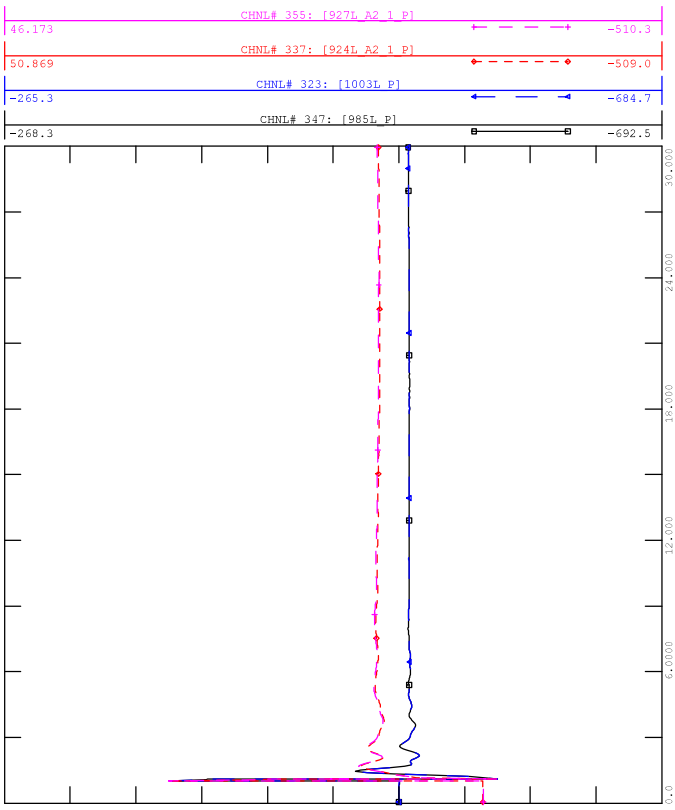
SAT, MAY 21 2022 1:16 BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATTB1 240.00]]
1.1295 -0.0944
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.1908 0.55720
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1603 0.74790
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1624 0.68280
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.1636 0.45740
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1638 0.73280

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

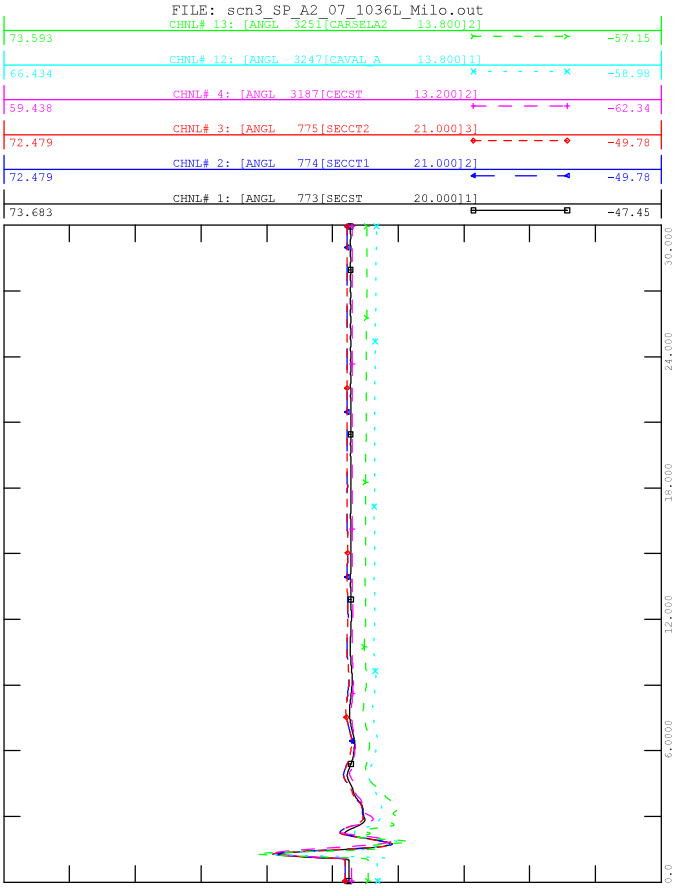
FILE: scn3_SP_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

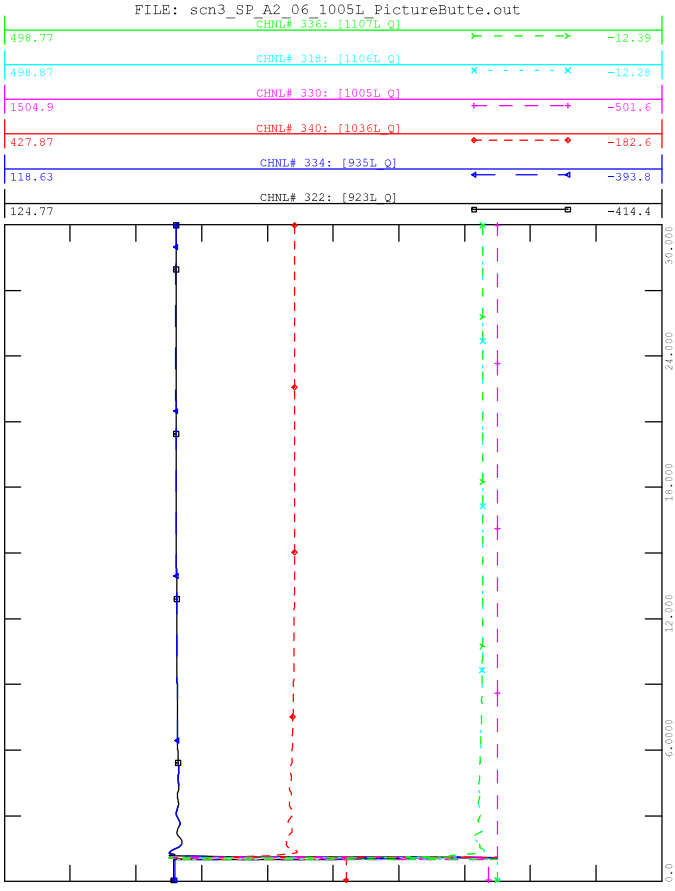
FILE: scn3_SP_A2_07_1036L_Milo.out



SAT, MAY 21 2022 1:16
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

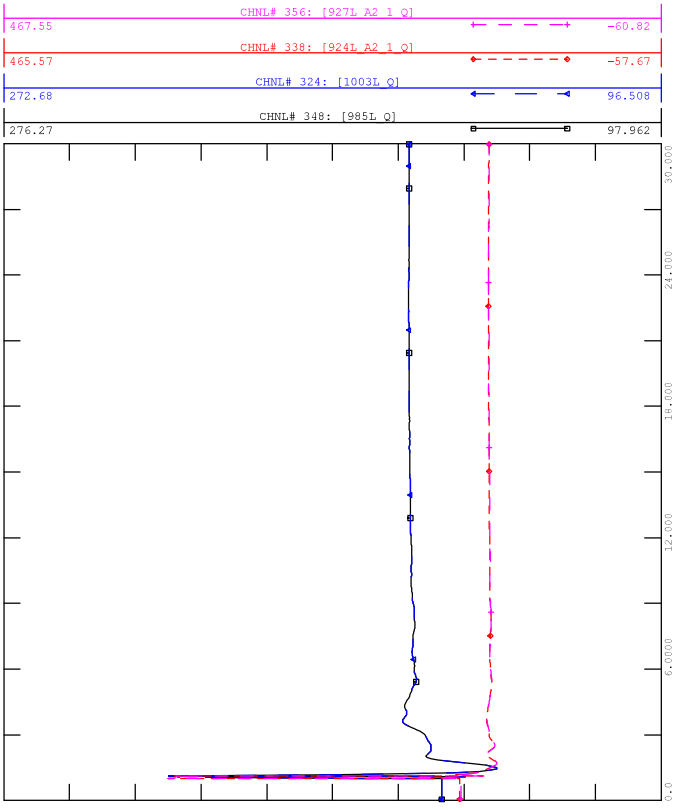
FILE: scn3_SP_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn3_SP_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:16
BRANCH Q

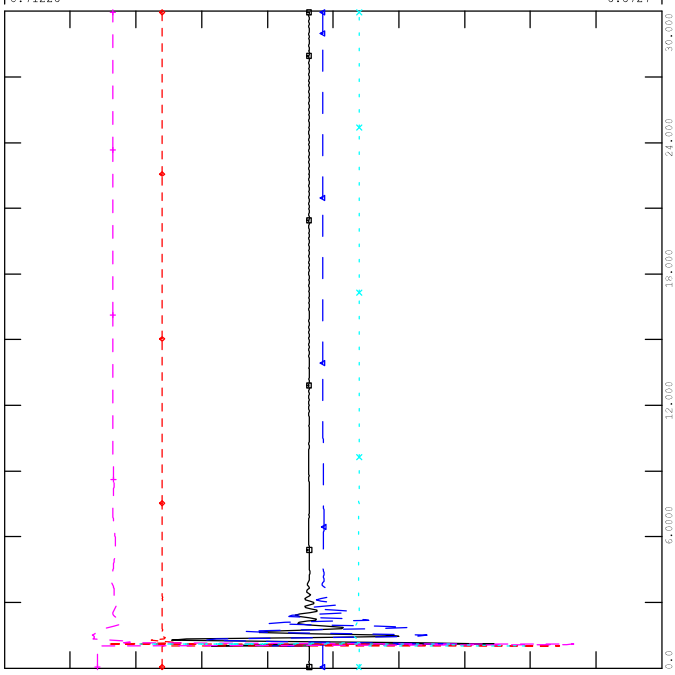
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.81430 -0.1581
CHNL# 139: [POWR 61736[BSR 4 0.6900]1] 1.4861 -0.0079
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1] 1.0815 -0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2] 0.67220 0.01680
CHNL# 110: [POWR 3247[CAVAL A 13.800]1] 0.71220 -0.0727

TIME (SECONDS)



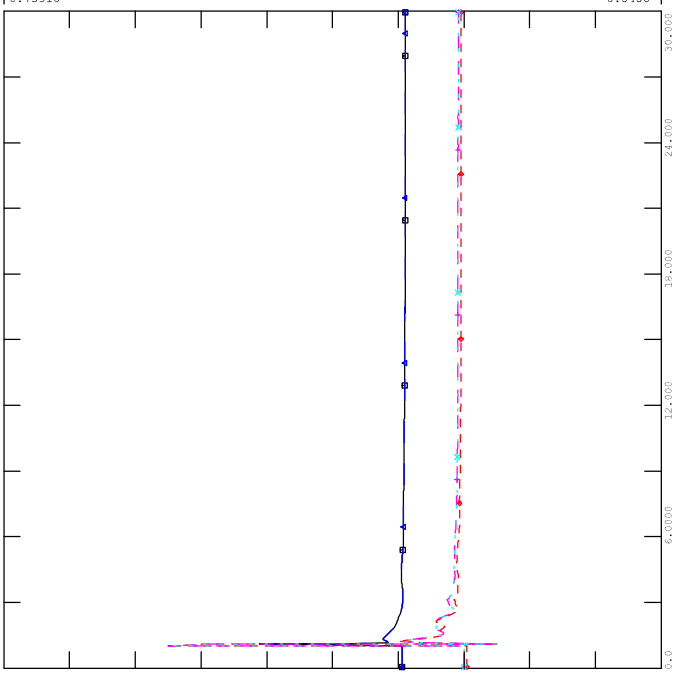
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3] 3.2782 -1.539
CHNL# 149: [VARS 774[SECCT1 21.000]2] 3.2782 -1.539
CHNL# 148: [VARS 773[SECST 20.000]1] 4.0666 -1.802
CHNL# 173: [VARS972378[0.7000]G1] 0.73940 -0.5455
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1] 0.73910 -0.5458

TIME (SECONDS)



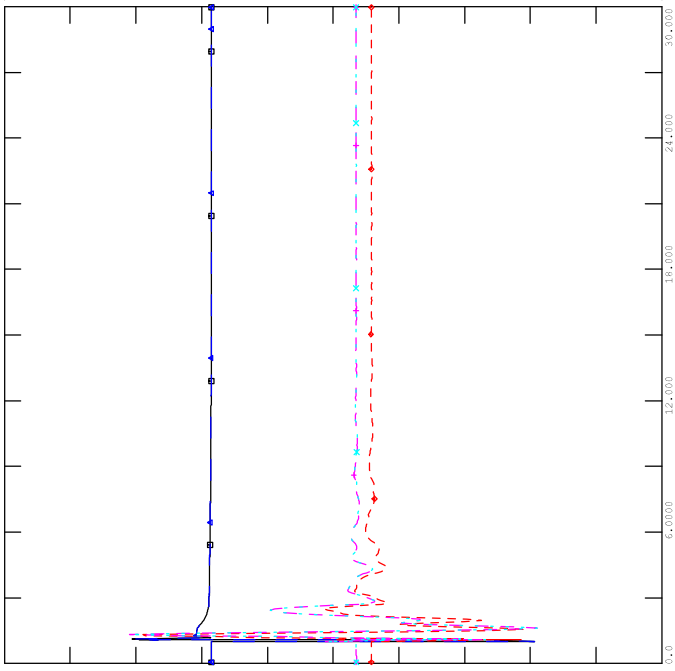
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3] 2.8177 1.7643
CHNL# 100: [POWR 774[SECCT1 21.000]2] 2.8177 1.7643
CHNL# 99: [POWR 773[SECST 20.000]1] 3.5350 2.5857
CHNL# 124: [POWR972378[0.7000]G1] 1.0749 0.04330
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1] 1.0750 0.04330

TIME (SECONDS)



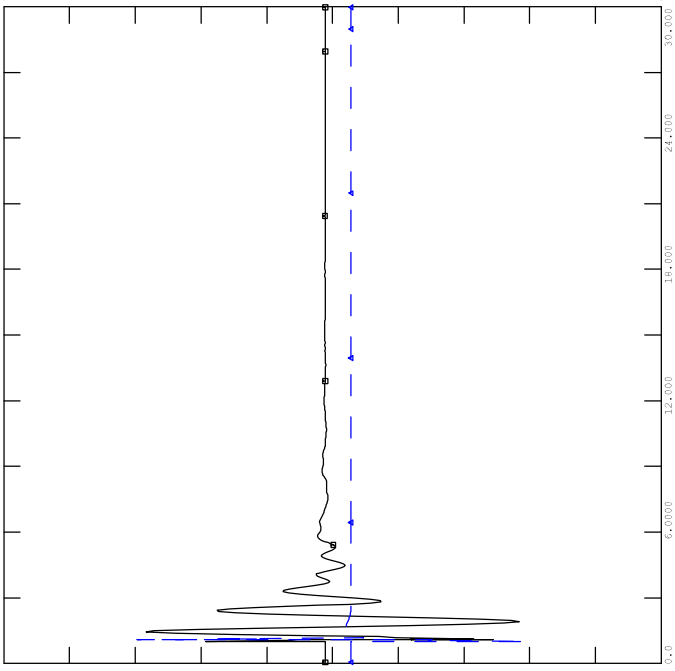
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1] 0.84580 -0.1398
CHNL# 102: [POWR 3187[CECST 13.200]2] 1.2665 0.34070

TIME (SECONDS)

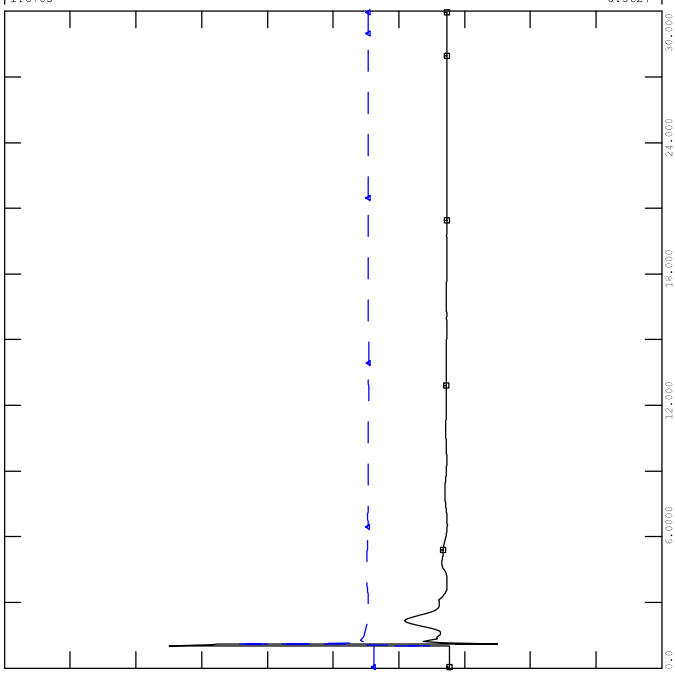


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
1.0311 -0.4094
CHNL# 151: [VARS 3187[CECST 13.200]2]
1.6705 -0.5627

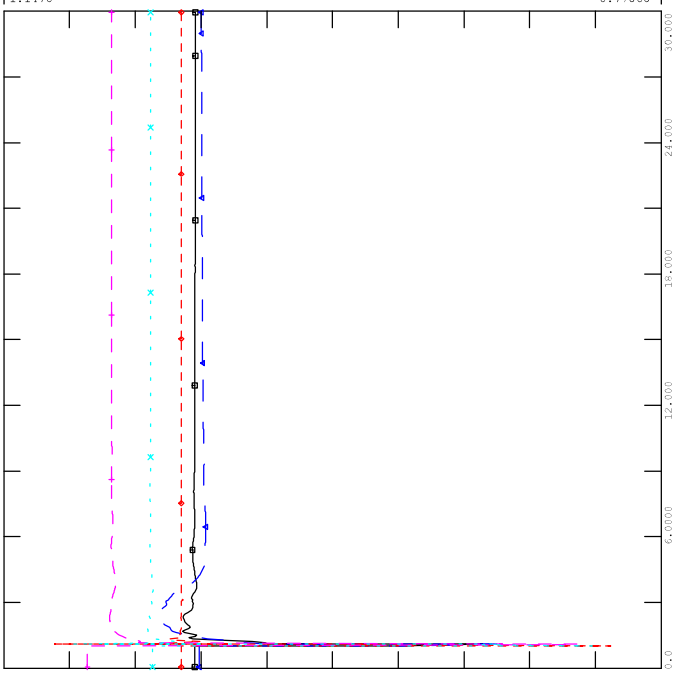


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2160 0.26070
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1250 0.33960
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.4501 0.15310
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1564 0.73130
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1470 0.77860

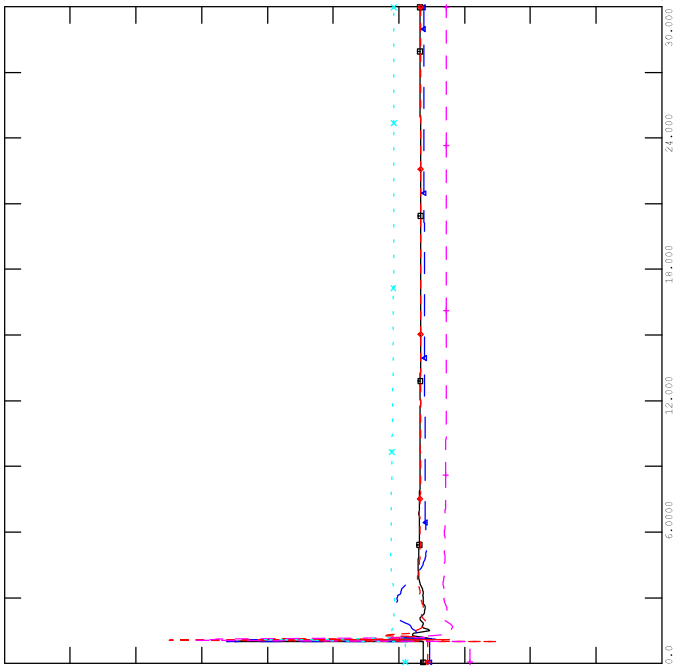


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.65250 -0.6294
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1729 -0.5387
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
2.4359 -0.6800
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
1.0075 -0.4702
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
0.95180 -0.4760

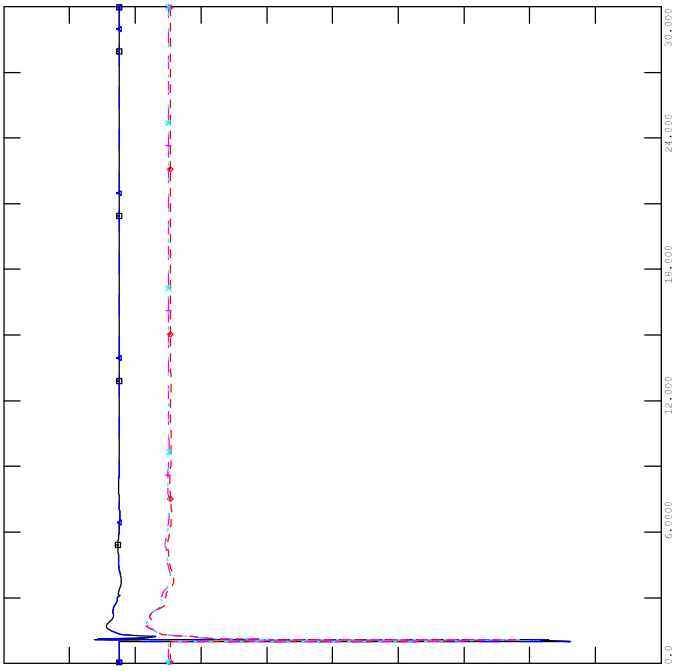


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1161 0.65180
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1161 0.65180
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1161 0.65820
CHNL# 271: [ETRM972378[0.7000]G1]
1.1771 0.45370
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1771 0.45360



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1413 0.11830
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.2864 0.25890
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1637 0.58290
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1597 0.42300
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2059 -0.0898
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1603 0.53180

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

CHNL# 336: [1107L Q]
370.08 30.505
CHNL# 318: [1106L Q]
370.23 30.598
CHNL# 330: [1005L Q]
604.31 -211.0
CHNL# 340: [1036L Q]
165.93 -55.31
CHNL# 334: [935L Q]
159.93 -358.5
CHNL# 322: [923L Q]
190.75 -433.3

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2494 0.30590
CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1219 0.71130

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

CHNL# 335: [1107L P]
39.310 -633.7
CHNL# 317: [1106L P]
39.386 -633.8
CHNL# 329: [1005L P]
257.68 -784.6
CHNL# 339: [1036L P]
153.32 -460.0
CHNL# 333: [935L P]
242.83 -500.4
CHNL# 321: [923L P]
332.14 -572.2

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
BRANCH P

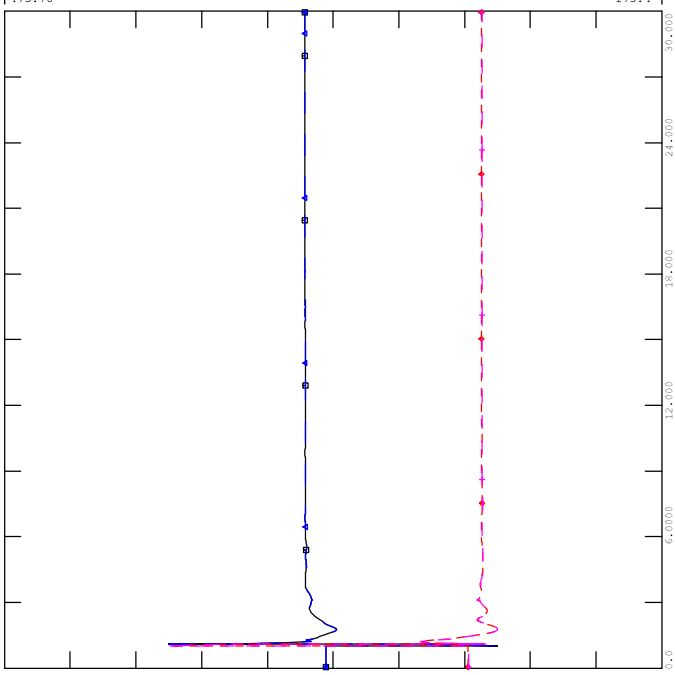
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16

BRANCH Q

CHNL# 356: [927L A2 1 Q] 899.92 -233.4
CHNL# 338: [924L A2 1 Q] 893.76 -228.7
CHNL# 324: [1003L Q] 467.93 -171.6
CHNL# 348: [985L Q] 473.78 -173.4



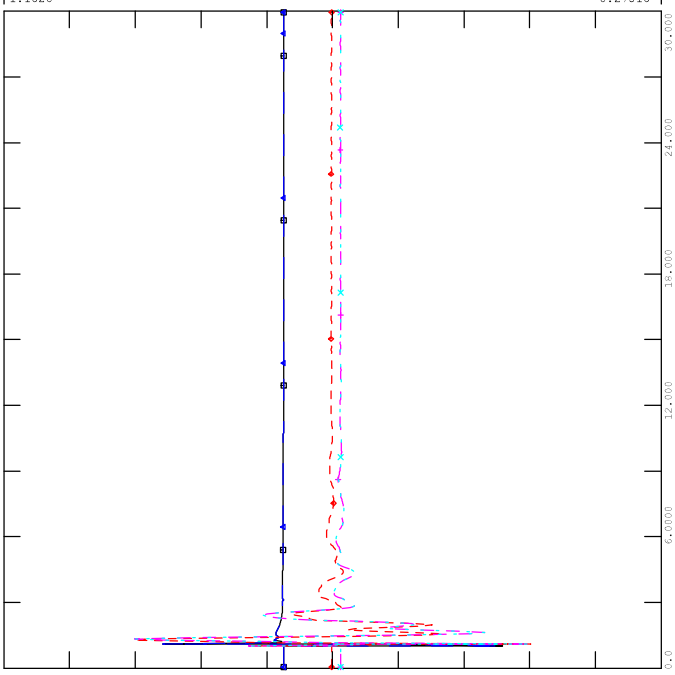
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3] 2.7698 1.7633
CHNL# 100: [POWR 774[SECCT1 21.000]2] 2.7698 1.7633
CHNL# 99: [POWR 773[SECST 20.000]1] 3.5069 2.4996
CHNL# 124: [POWR972378[0.7000]G1] 1.1020 0.27510
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1] 1.1020 0.27510



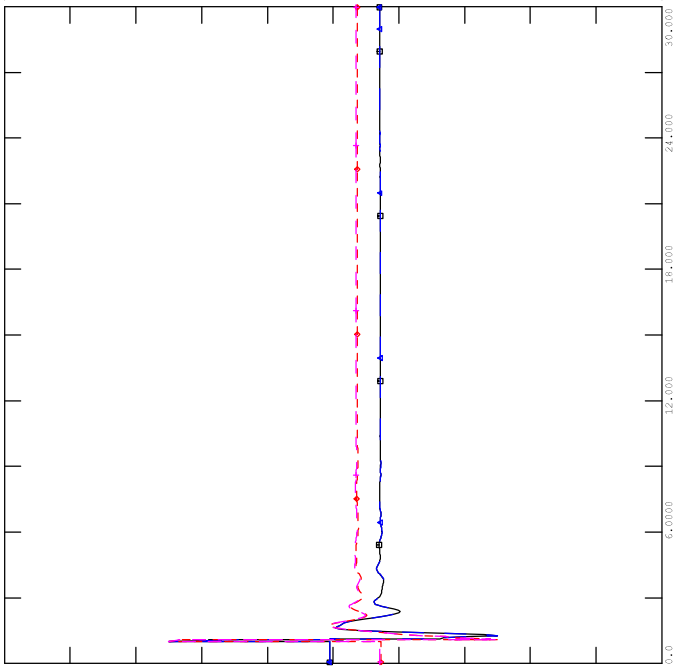
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_07_1036L_MILO

FILE: scn3_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16

BRANCH P

CHNL# 355: [927L A2 1 P] 415.89 -940.6
CHNL# 337: [924L A2 1 P] 423.79 -939.2
CHNL# 323: [1003L P] -261.6 -777.9
CHNL# 347: [985L P] -264.7 -786.7



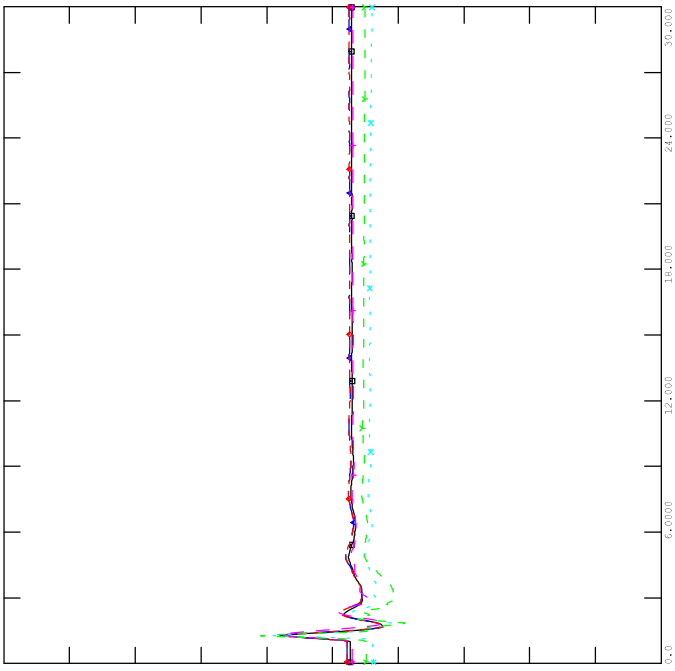
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

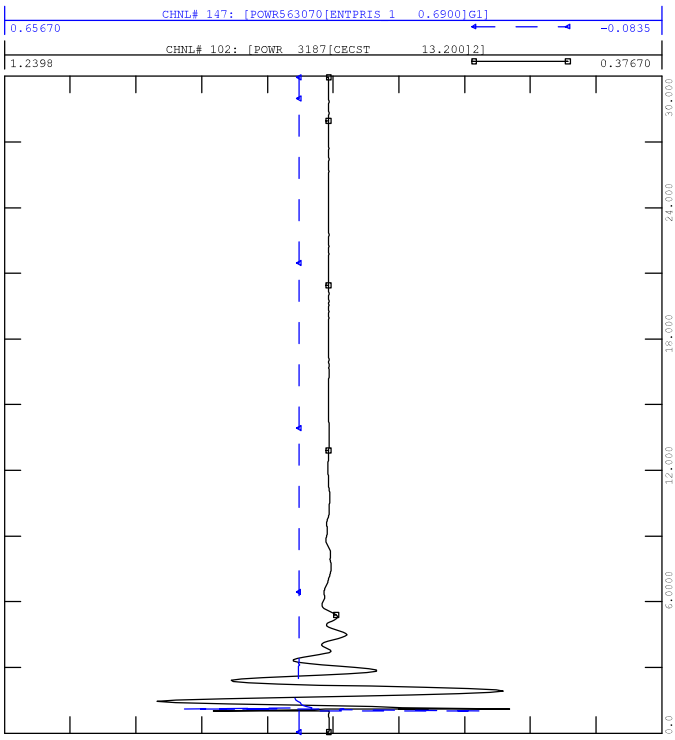
CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2] 71.674 -56.28
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 63.817 -58.39
CHNL# 4: [ANGL 3187[CECST 13.200]2] 57.875 -60.65
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 71.157 -47.85
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 71.157 -47.85
CHNL# 1: [ANGL 773[SECST 20.000]1] 72.202 -45.72



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

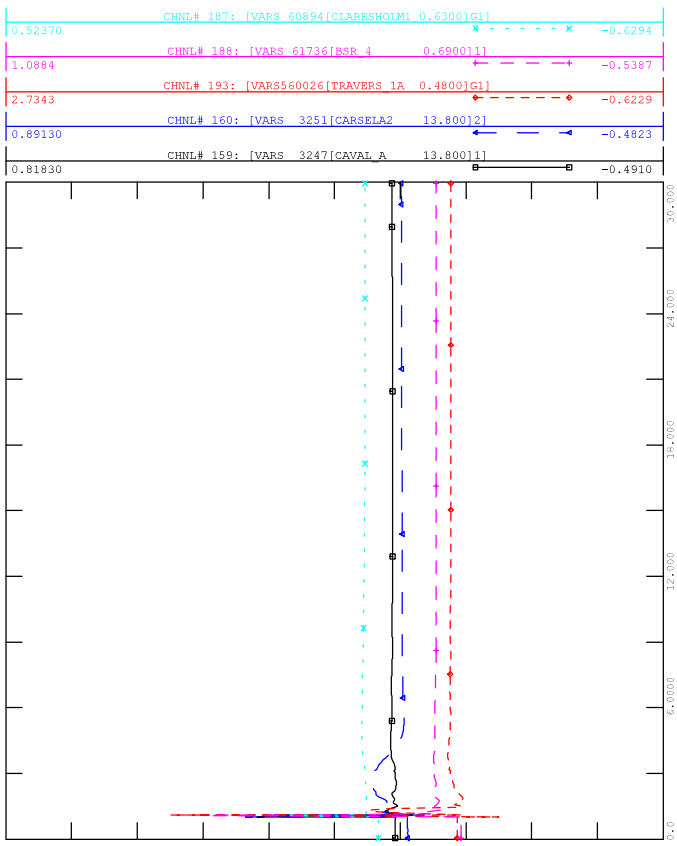
SAT, MAY 21 2022 1:16 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

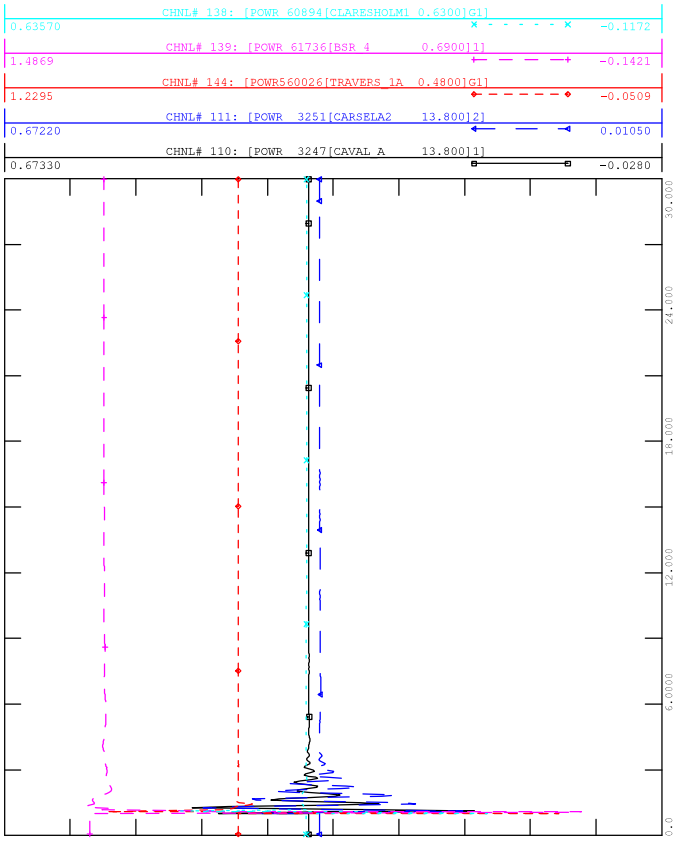
SAT, MAY 21 2022 1:16 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

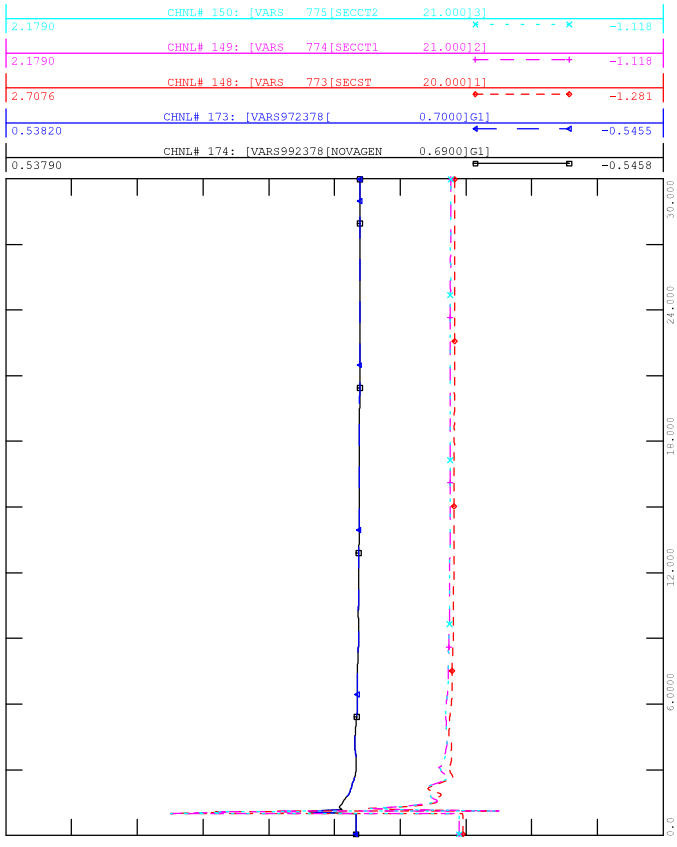
SAT, MAY 21 2022 1:16 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

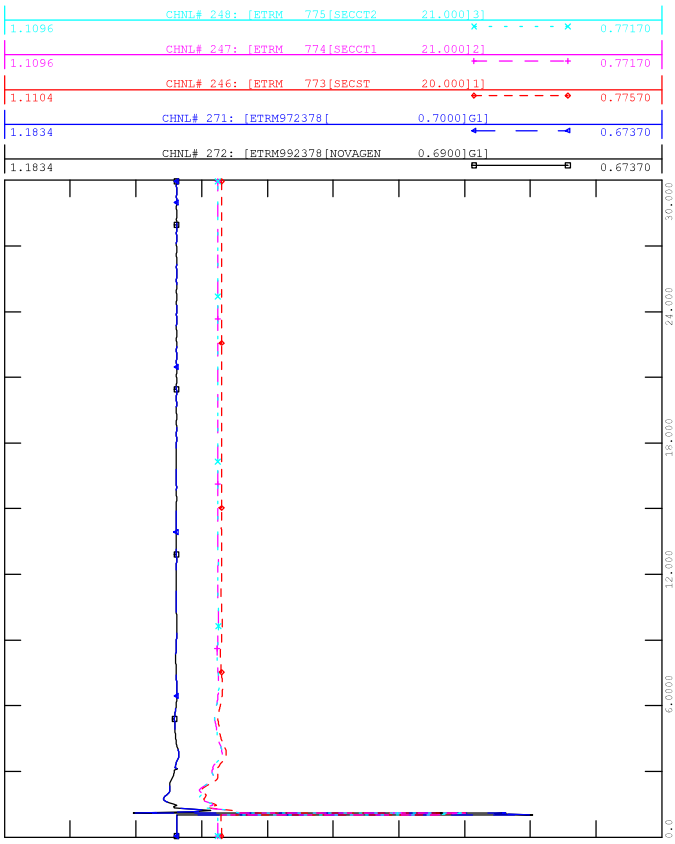


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

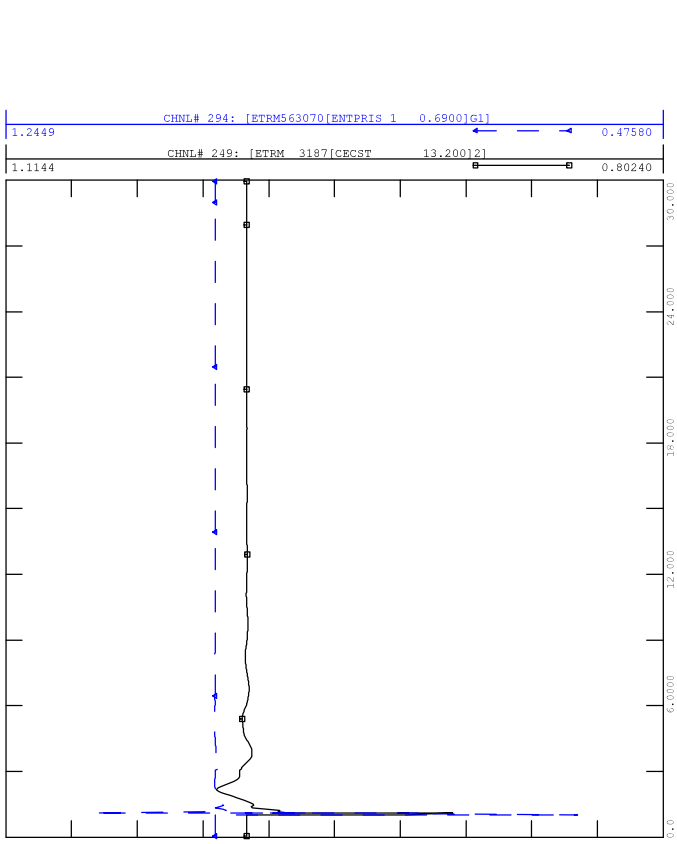


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

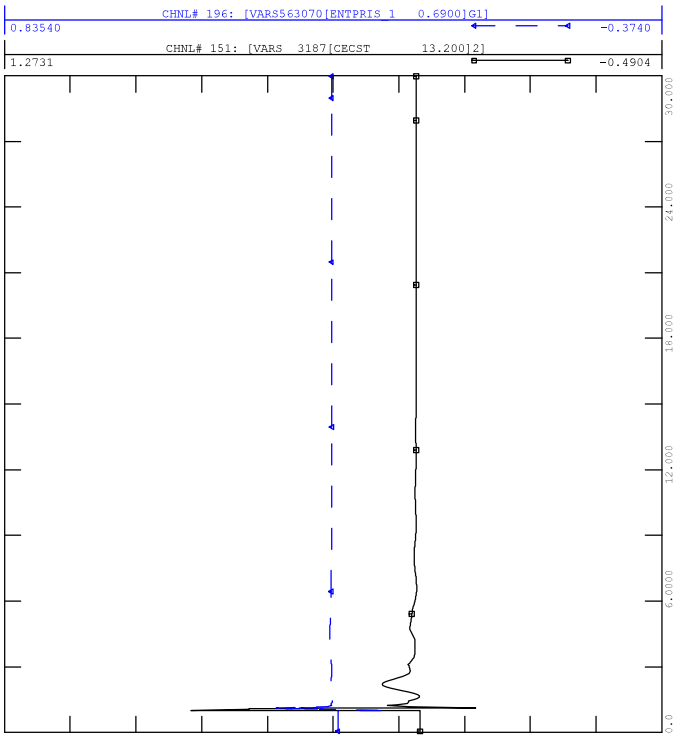


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

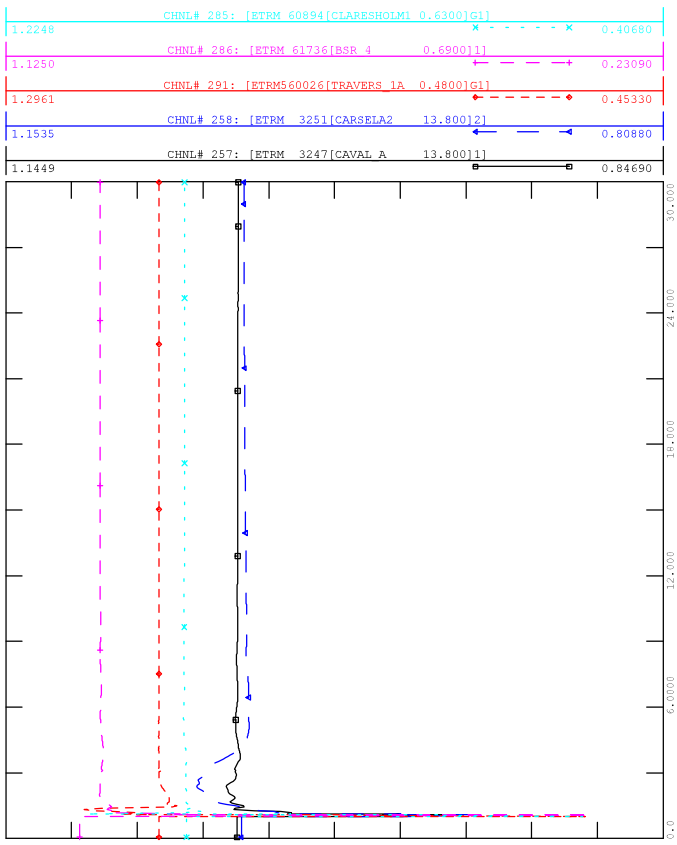


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

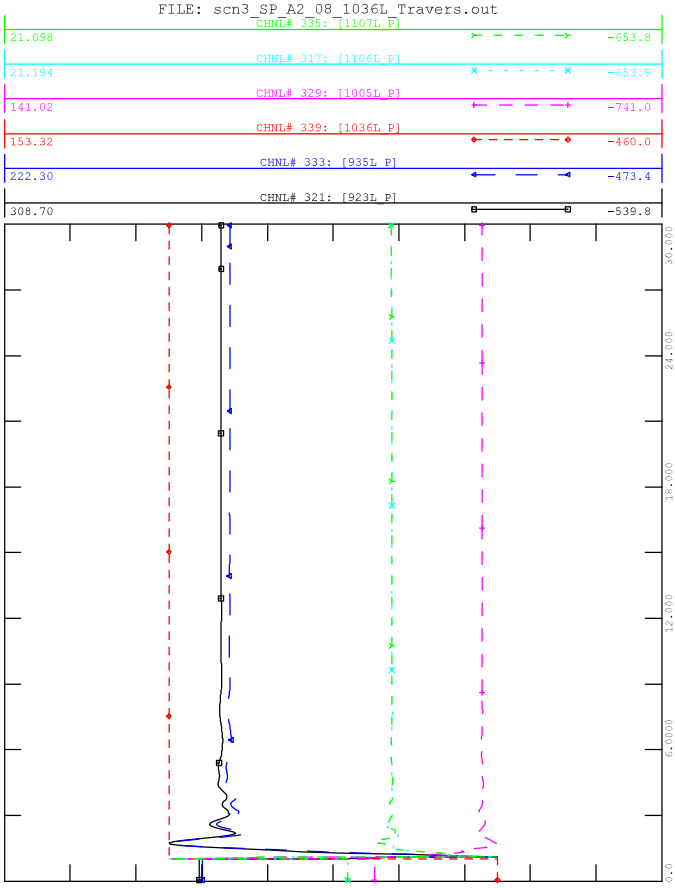
SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

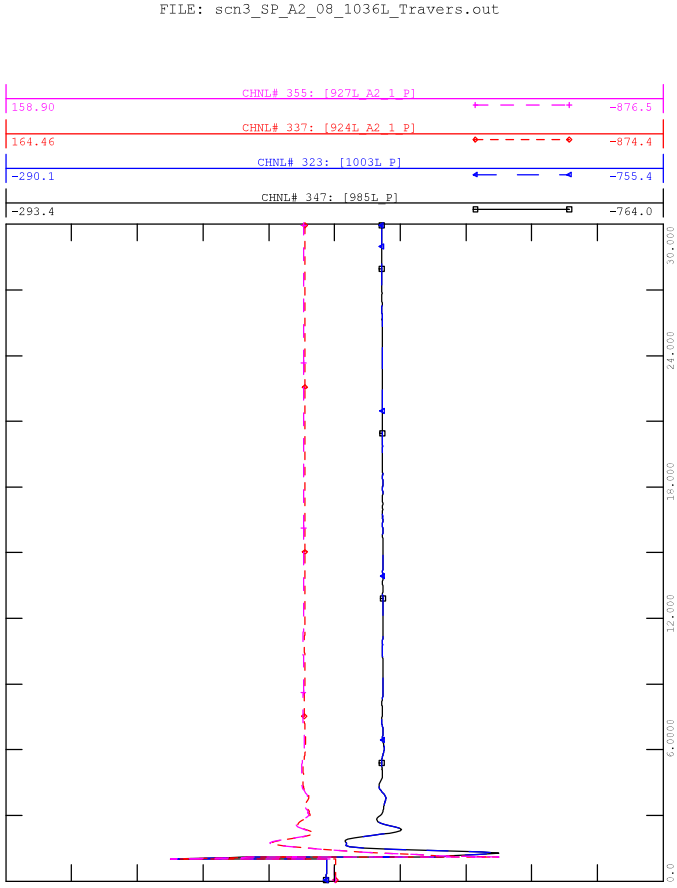
FILE: scn3_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

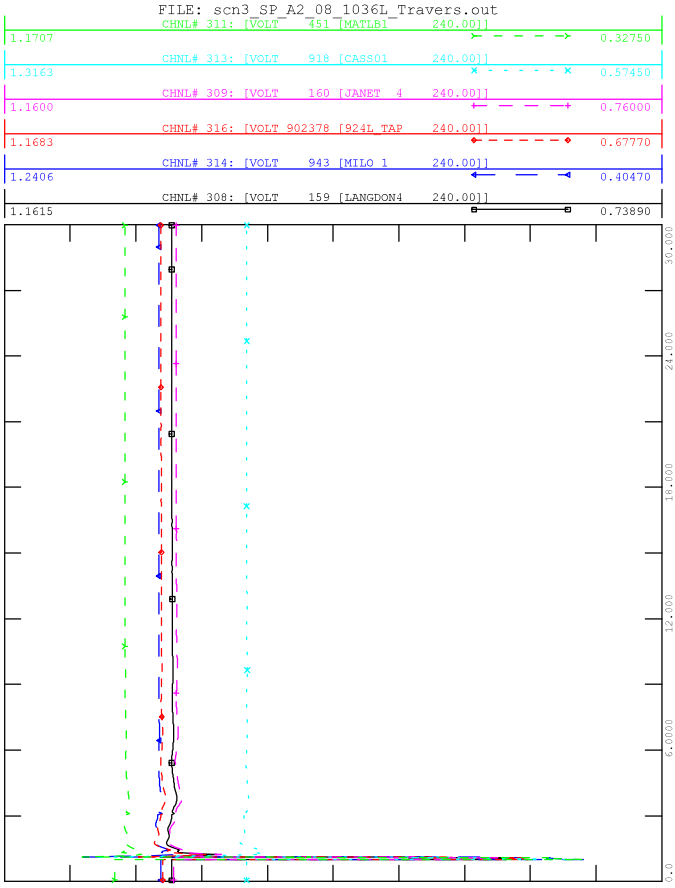
FILE: scn3_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

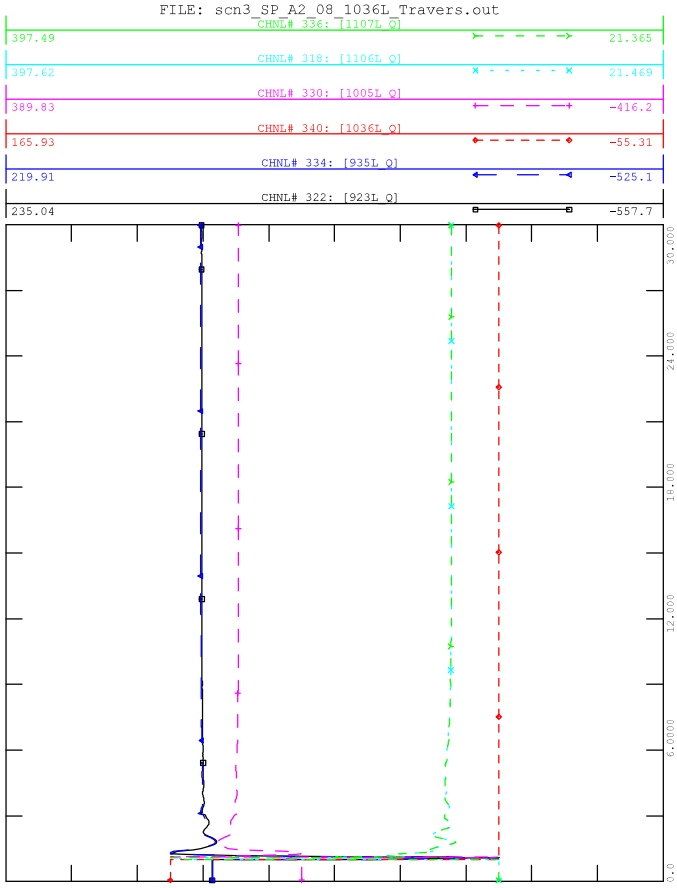
FILE: scn3_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
71.391 -57.51
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
65.444 -58.98
CHNL# 4: [ANGL 3187[CECST 13.200]2]
59.133 -61.80
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
72.072 -48.89
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
72.072 -48.89
CHNL# 1: [ANGL 773[SECST 20.000]1]
73.234 -46.76

SAT, MAY 21 2022 1:16
ROTOR ANGLE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.77080 -0.1578
CHNL# 139: [POWR 61736[BSR_4 0.6900]1]
1.5263 0.00380
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
1.0780 -0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.65270 0.03250
CHNL# 110: [POWR 3247[CAVAL_A 13.800]1]
0.70290 -0.0703

SAT, MAY 21 2022 1:16
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_08_1036L_TRAVERS

FILE: scn3_SP_A2_08_1036L_Travers.out

CHNL# 356: [927L_A2_1_Q]
622.69 -136.1
CHNL# 338: [924L_A2_1_Q]
622.85 -133.5
CHNL# 324: [1003L_Q]
296.98 48.250
CHNL# 348: [985L_Q]
300.86 49.162

SAT, MAY 21 2022 1:16
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

CHNL# 101: [POWR 775[SECCT2 21.000]3]
2.7471 1.8226
CHNL# 100: [POWR 774[SECCT1 21.000]2]
2.7471 1.8226
CHNL# 99: [POWR 773[SECST 20.000]1]
3.4823 2.6135
CHNL# 124: [POWR972378[0.7000]G1]
1.0819 0.04390
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0819 0.04390

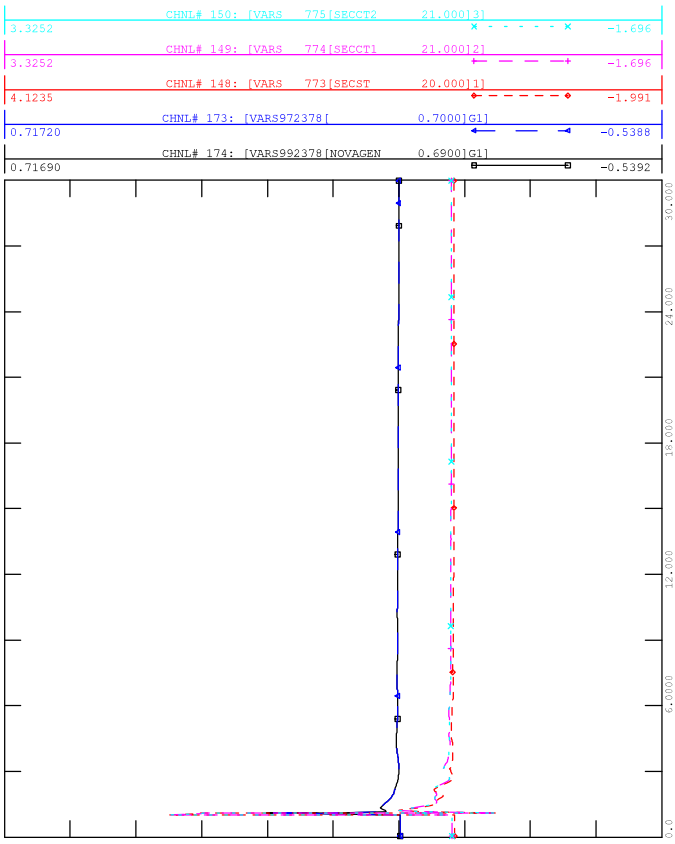
SAT, MAY 21 2022 1:16
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

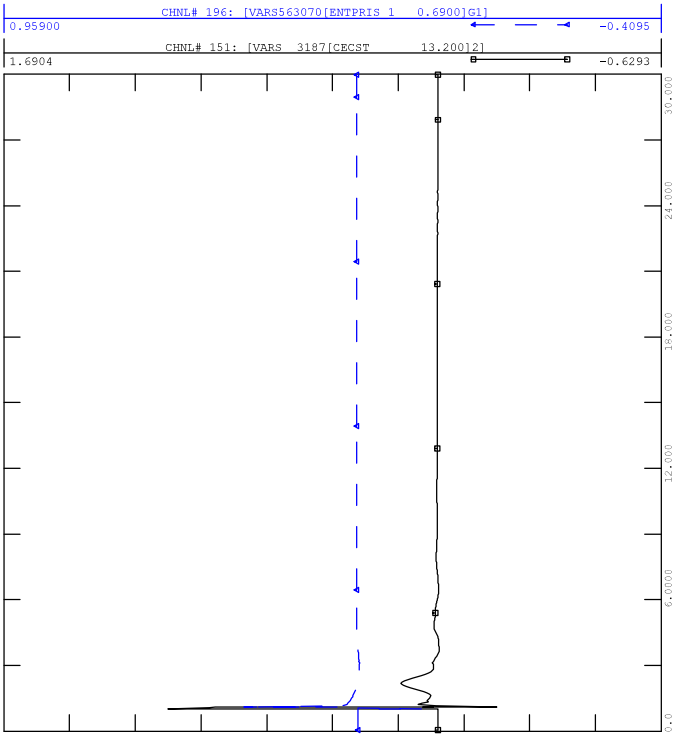
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

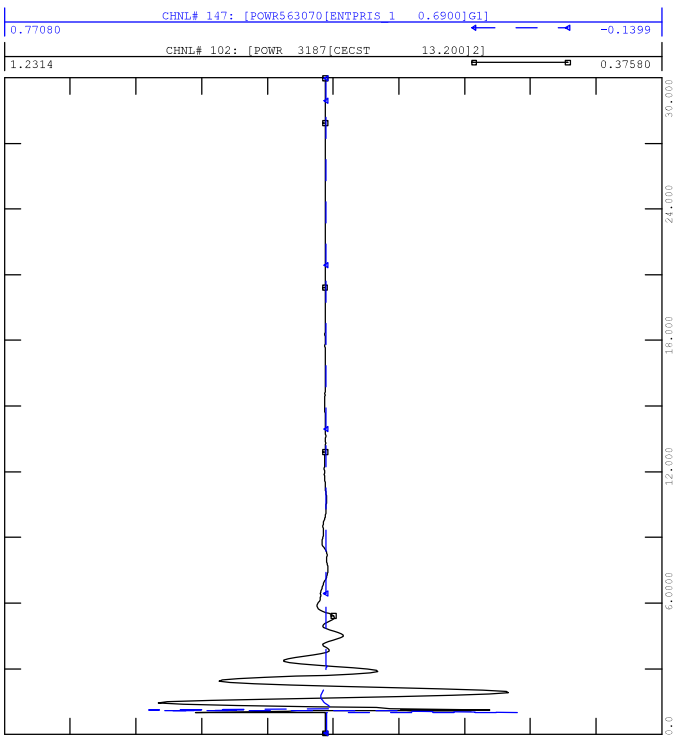
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

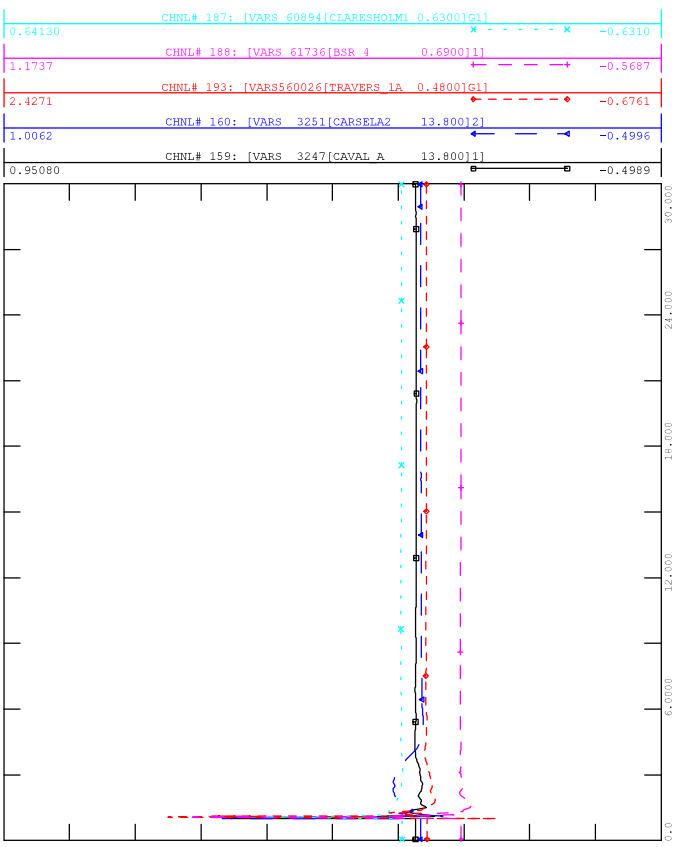
SAT, MAY 21 2022 1:16
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

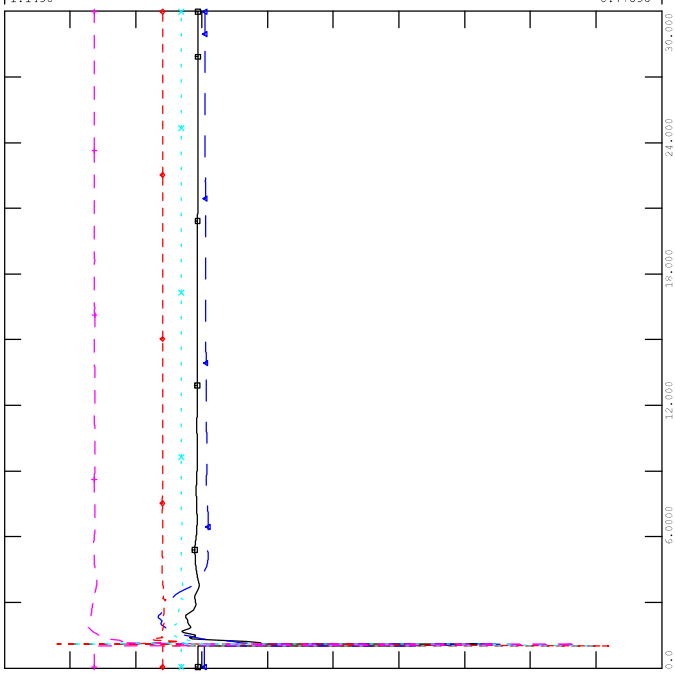
SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2721 0.26170
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1322 0.34520
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3989 0.15500
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1603 0.73210
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1490 0.77890

1.0000 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

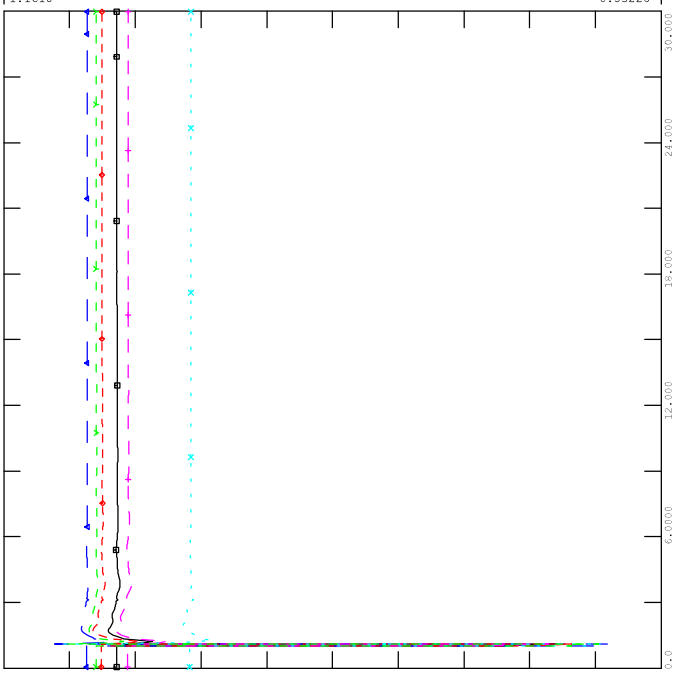
SAT, MAY 21 2022 1:16

BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1766 0.12810
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3558 0.24940
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1673 0.58340
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1593 0.42340
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2038 -0.0895
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1618 0.53220

1.0000 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

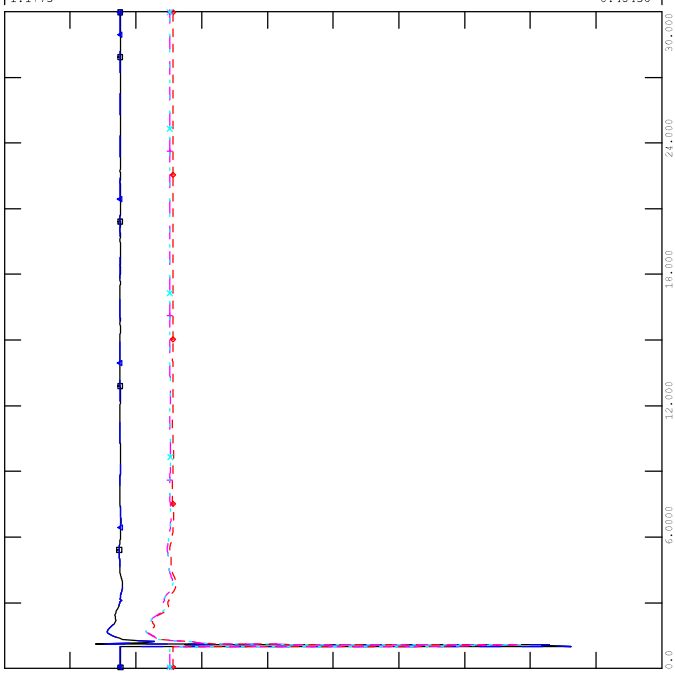
SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1170 0.65220
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1170 0.65220
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1174 0.65870
CHNL# 271: [ETRM972378[0.7000]G1]
1.1772 0.45430
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1773 0.45430

1.0000 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

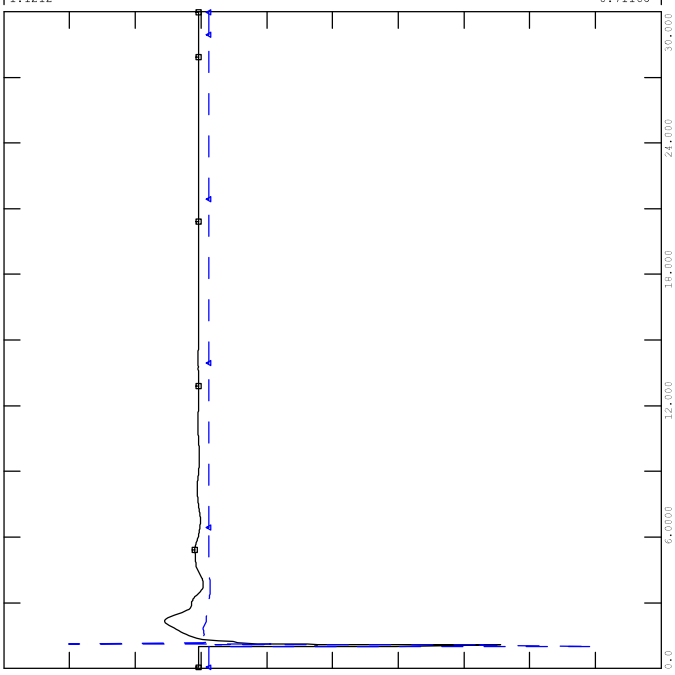
SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3146 0.30560
CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1212 0.71160

1.0000 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

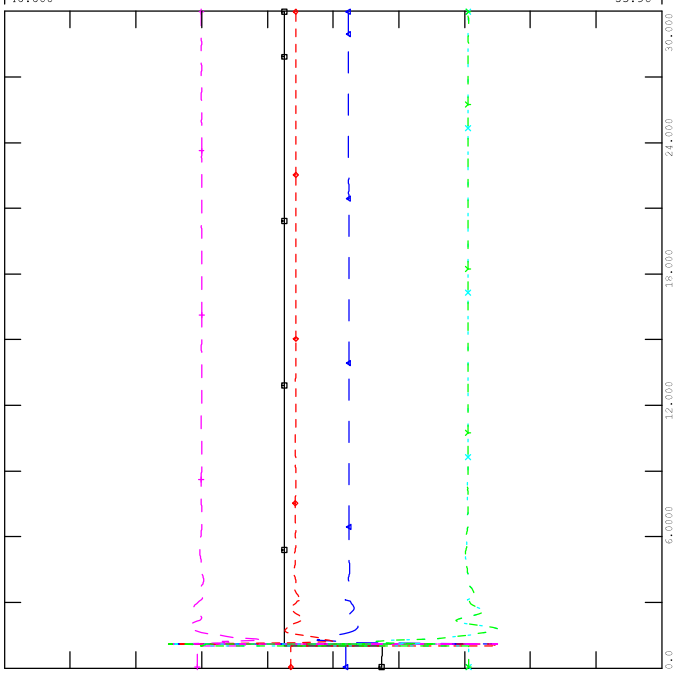
TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

CHNL# 336: [1107L Q]
317.53 31.342
CHNL# 318: [1106L Q]
317.62 31.447
CHNL# 330: [1005L Q]
154.94 -281.5
CHNL# 340: [1036L Q]
275.97 -103.4
CHNL# 334: [935L Q]
753.09 -724.7
CHNL# 322: [923L Q]
40.000 -53.96

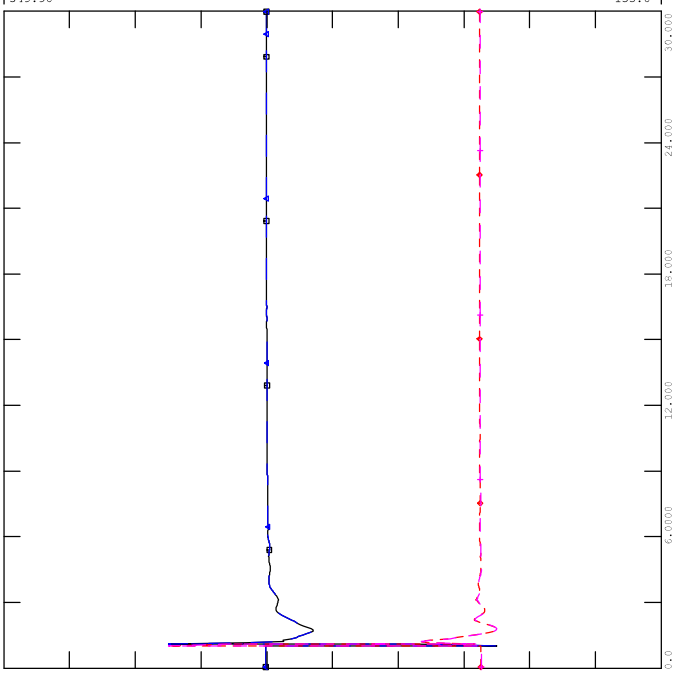


SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

CHNL# 356: [927L A2 1 Q]
888.25 -196.7
CHNL# 338: [924L A2 1 Q]
881.84 -191.3
CHNL# 324: [1003L Q]
345.41 -131.6
CHNL# 348: [985L Q]
349.90 -133.0

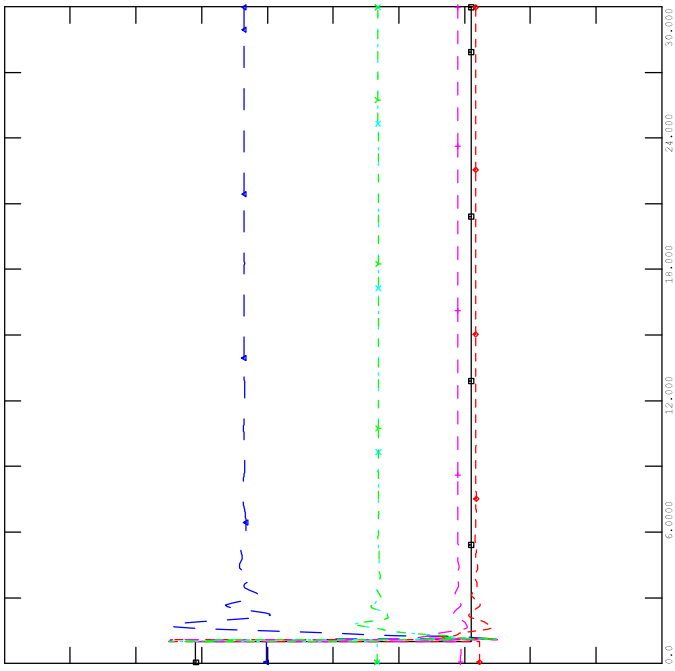


SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

CHNL# 335: [1107L P]
28.989 -606.7
CHNL# 317: [1106L P]
29.068 -606.8
CHNL# 329: [1005L P]
195.33 -598.5
CHNL# 339: [1036L P]
156.52 -484.6
CHNL# 333: [935L P]
520.69 -753.4
CHNL# 321: [923L P]
97.724 -40.00

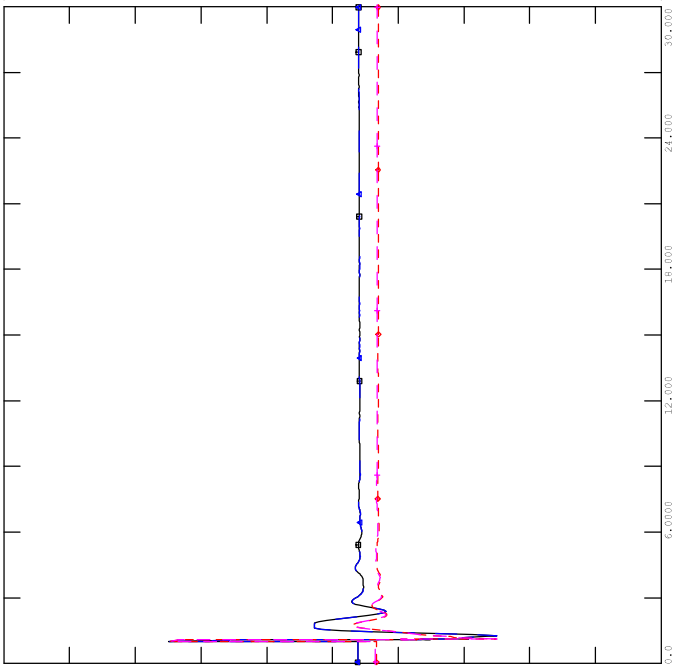


SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_09_923L_MILO

FILE: scn3_SP_A2_09_923L_Milo.out

CHNL# 355: [927L A2 1 P]
421.99 -959.4
CHNL# 337: [924L A2 1 P]
429.72 -957.5
CHNL# 323: [1003L P]
-282.8 -717.7
CHNL# 347: [985L P]
-286.1 -725.9



SAT, MAY 21 2022 1:16
BRANCH P

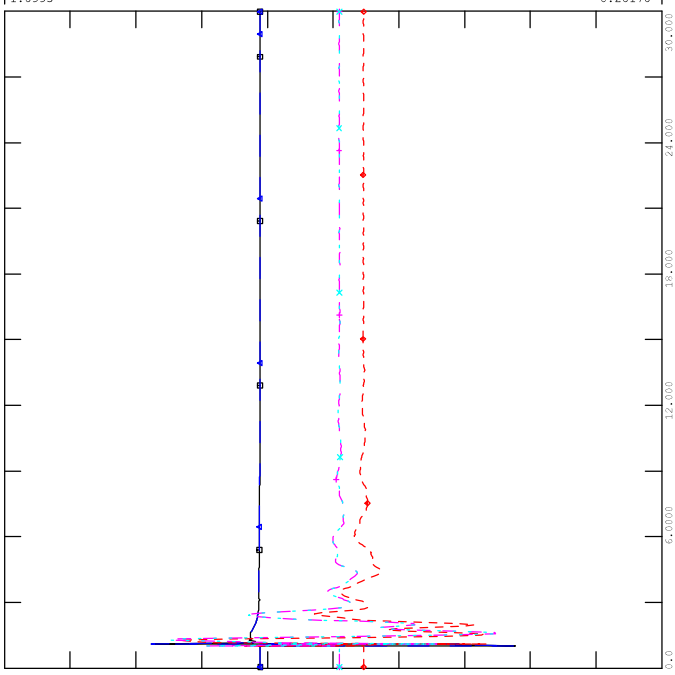
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3]
2.6559 1.8665
CHNL# 100: [POWR 774[SECCT1 21.000]2]
2.6559 1.8665
CHNL# 99: [POWR 773[SECST 20.000]1]
3.4150 2.6641
CHNL# 124: [POWR972378[0.7000]G1]
1.0992 0.20170
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0993 0.20170



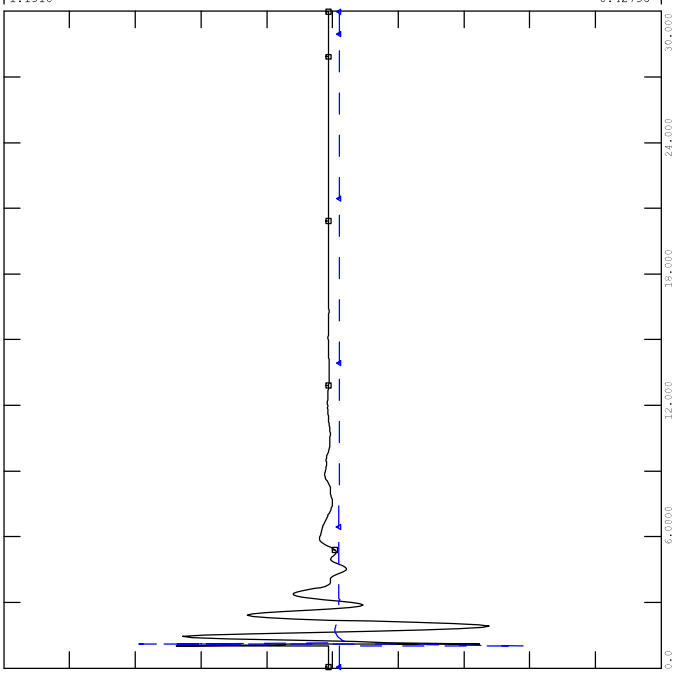
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.82070 -0.1510
CHNL# 102: [POWR 3187[CECST 13.200]2]
1.1910 0.42790



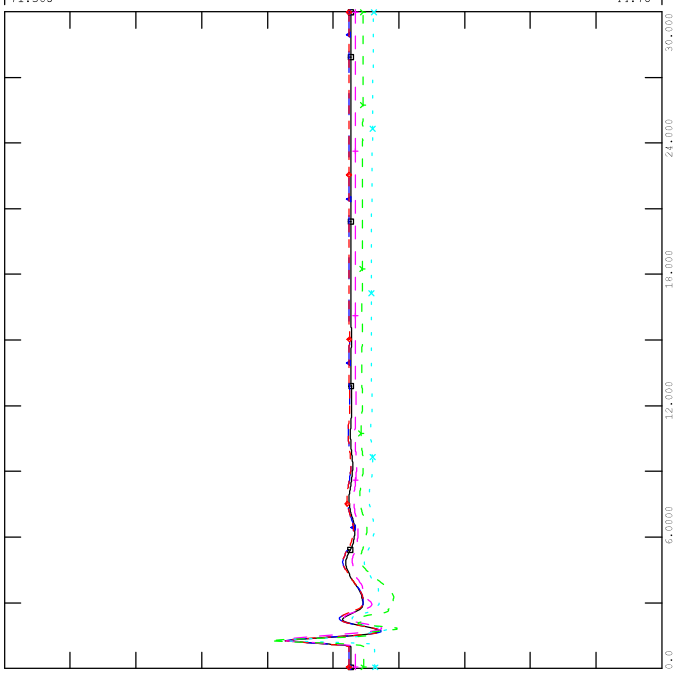
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

CHNL# 13: [ANGL 325[CARSELA2 13.800]2]
68.978 -55.23
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
62.866 -57.41
CHNL# 4: [ANGL 3187[CECST 13.200]2]
57.650 -59.67
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
70.352 -46.70
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
70.352 -46.70
CHNL# 1: [ANGL 773[SECST 20.000]1]
71.305 -44.78



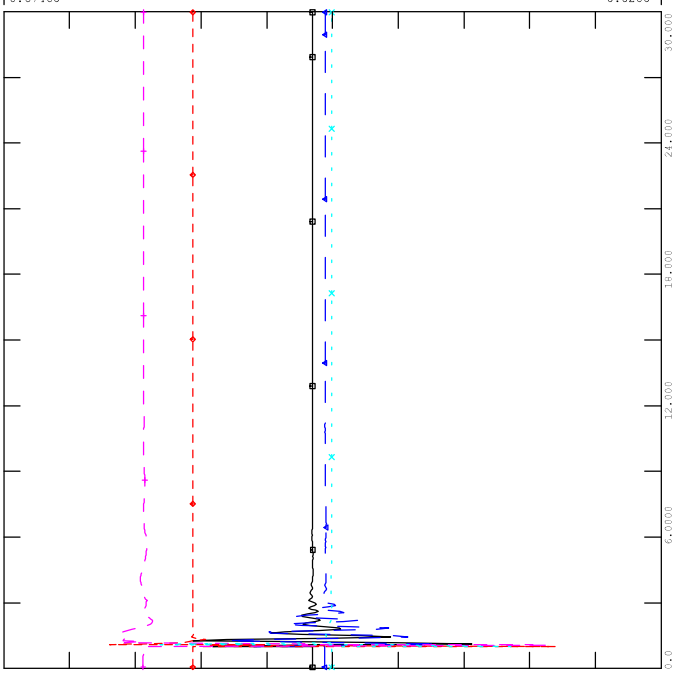
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

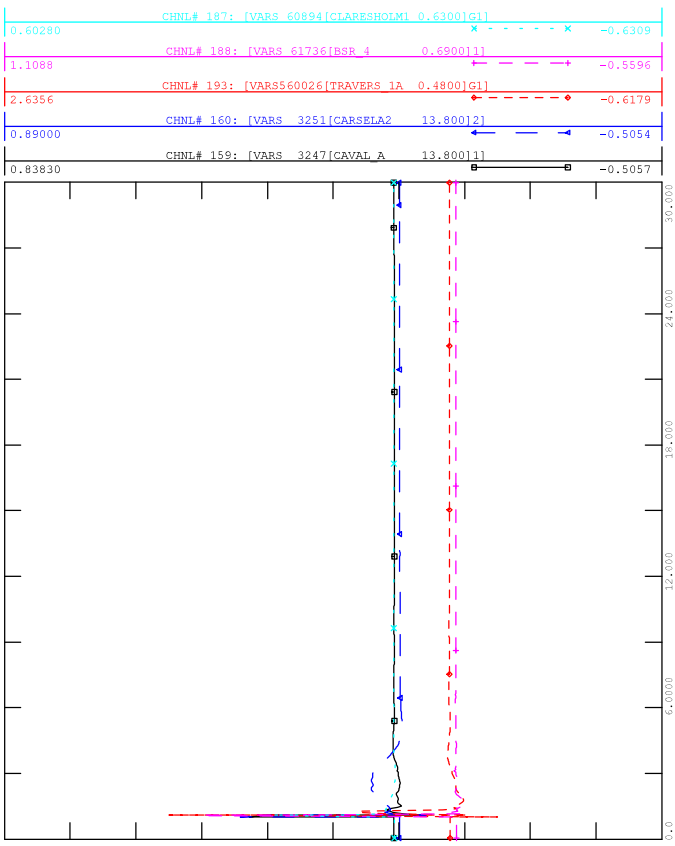
CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.72700 -0.1493
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.5158 0.37990
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
1.1318 -0.1123
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.64570 0.05030
CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.67460 -0.0200



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

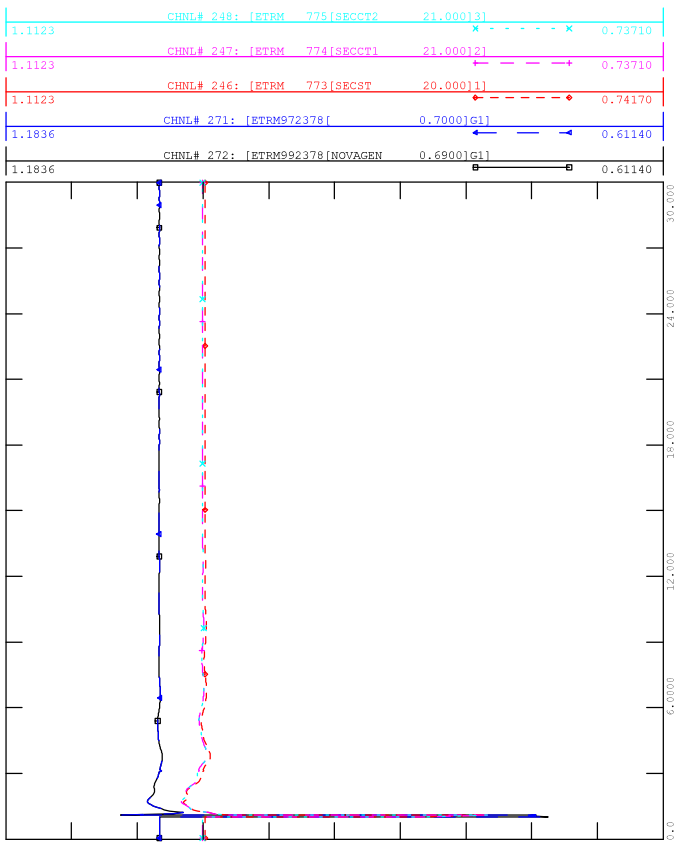
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

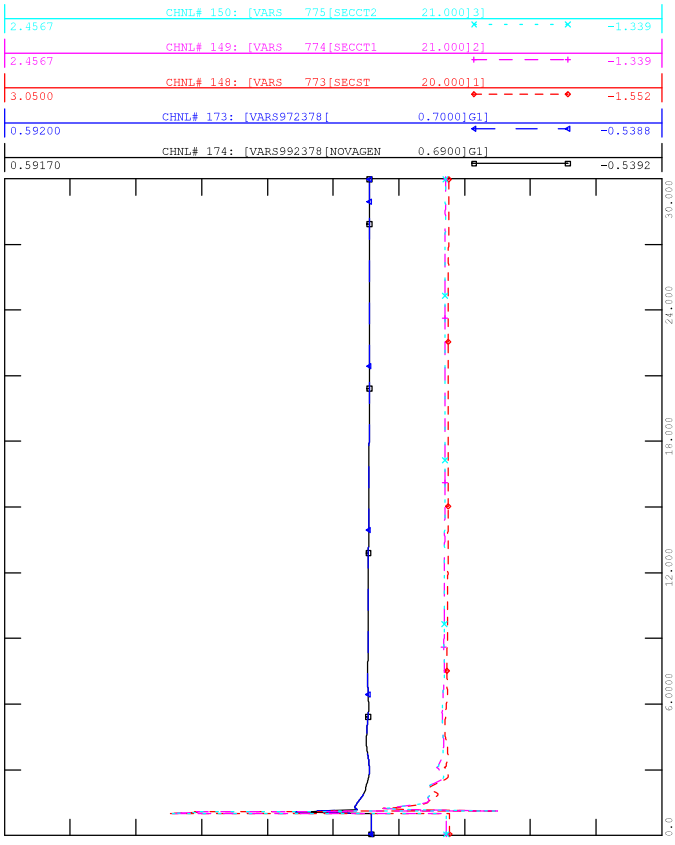
SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

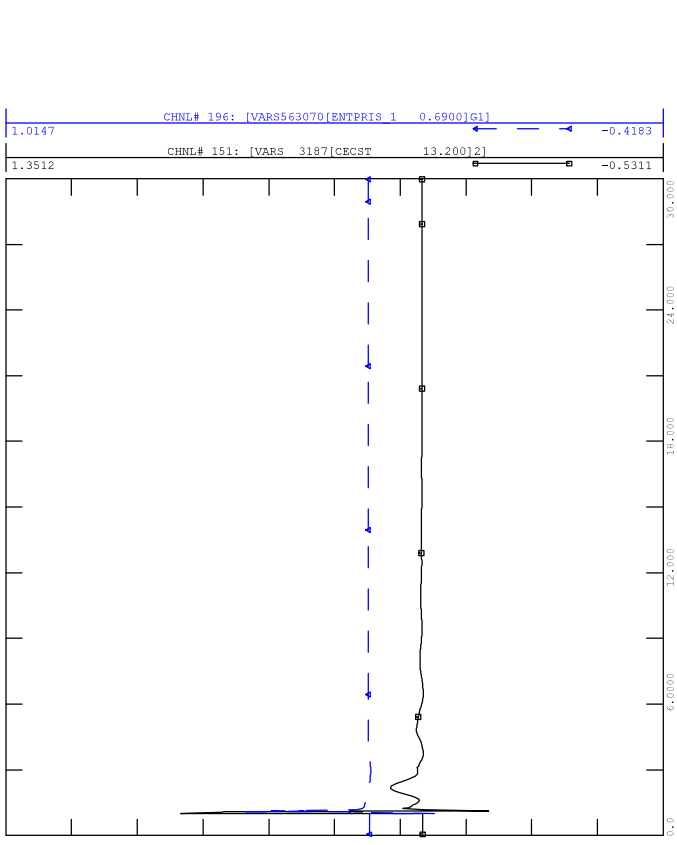
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3103 0.26710
CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1153 0.77390

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 335: [1107L P]
-35.54 -578.4
CHNL# 317: [1106L P]
-35.47 -578.5
CHNL# 329: [1005L P]
69.826 -521.7
CHNL# 339: [1036L P]
0.53280 -429.9
CHNL# 333: [935L P]
433.48 -620.4
CHNL# 321: [923L P]
97.724 -40.00

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2690 0.29690
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1303 0.51010
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3000 0.39970
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1576 0.79820
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1459 0.83080

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16 BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1855 0.36810
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3405 -0.0160
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1638 0.70760
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1640 0.59480
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2099 0.24800
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1619 0.67320

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16

BRANCH P

CHNL# 355: [927L_A2_1_P]
236.19 -855.5
CHNL# 337: [924L_A2_1_P]
242.81 -853.6
CHNL# 323: [1003L_P]
-352.5 -672.6
CHNL# 347: [985L_P]
-356.5 -680.3

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
71.415 -57.57
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
65.465 -59.01
CHNL# 4: [ANGL 3187[CECST 13.200]2]
59.140 -61.83
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
72.094 -48.93
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
72.094 -48.93
CHNL# 1: [ANGL 773[SECST 20.000]1]
73.257 -46.79

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16

BRANCH Q

CHNL# 336: [1107L_Q]
288.50 44.392
CHNL# 318: [1106L_Q]
288.58 44.502
CHNL# 330: [1005L_Q]
212.42 -382.2
CHNL# 340: [1036L_Q]
295.00 -239.5
CHNL# 334: [935L_Q]
659.81 -1005.
CHNL# 322: [923L_Q]
40.000 -53.96

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_10_923L_NEWELL

FILE: scn3_SP_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16

BRANCH Q

CHNL# 356: [927L_A2_1_Q]
718.61 -133.1
CHNL# 338: [924L_A2_1_Q]
714.47 -128.3
CHNL# 324: [1003L_Q]
293.80 -40.02
CHNL# 348: [985L_Q]
297.68 -40.25

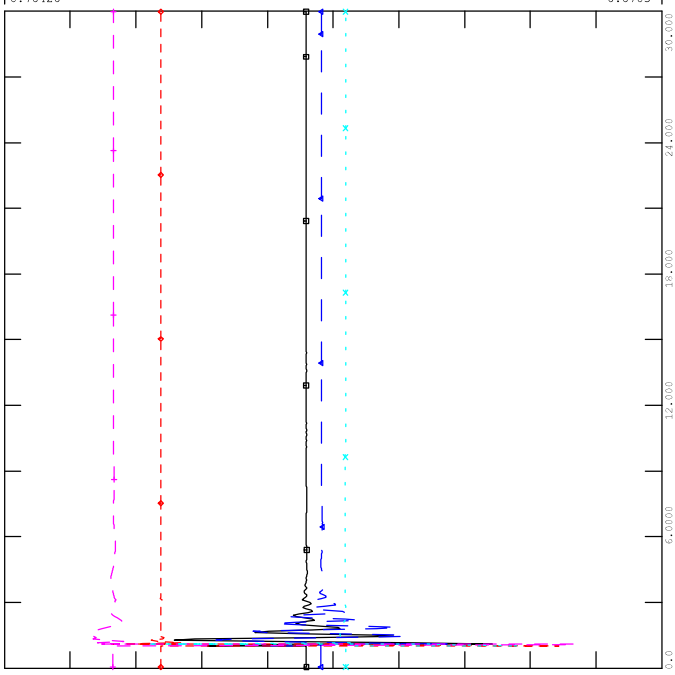
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.77270 -0.1577
CHNL# 139: [POWR 61736[BSR 4 0.6900]1] 1.5256 0.00560
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1] 1.0776 -0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2] 0.65420 0.03280
CHNL# 110: [POWR 3247[CAVAL A 13.800]1] 0.70420 -0.0703

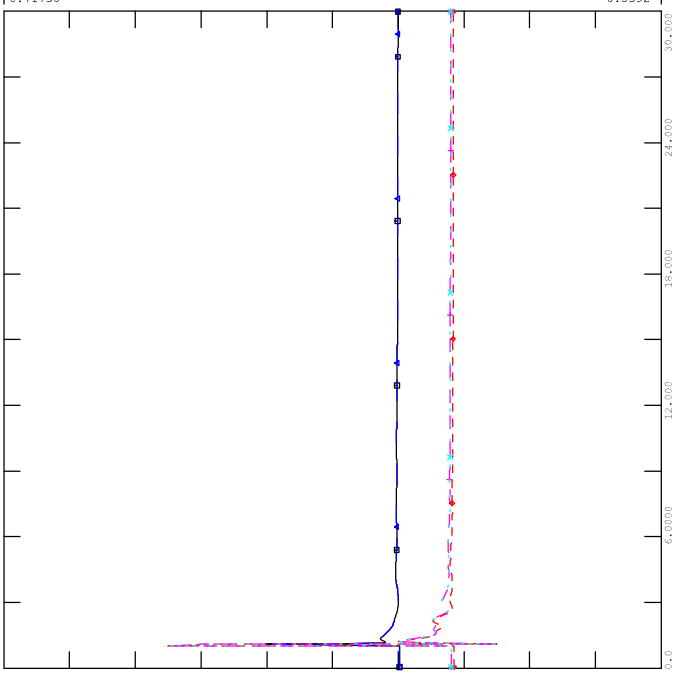


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3] 3.3226 -1.695
CHNL# 149: [VARS 774[SECCT1 21.000]2] 3.3226 -1.695
CHNL# 148: [VARS 773[SECST 20.000]1] 4.1202 -1.990
CHNL# 173: [VARS972378[0.7000]G1] 0.71760 -0.5388
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1] 0.71730 -0.5392

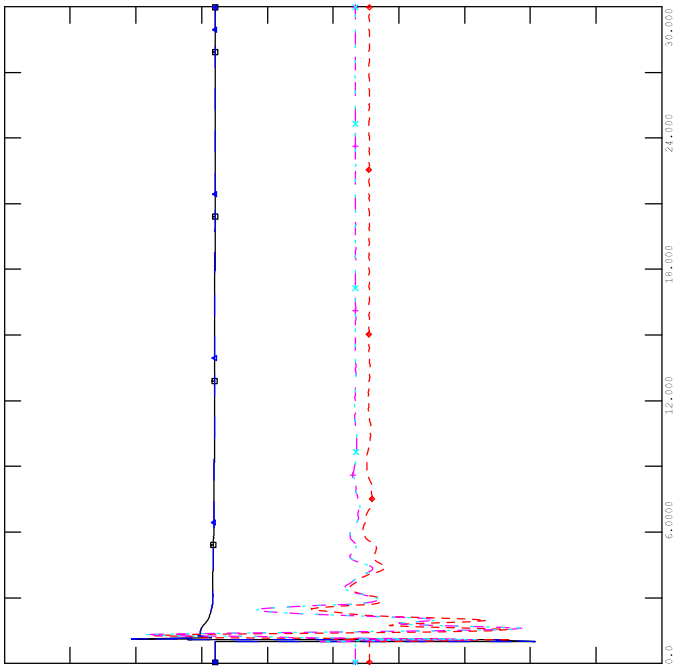


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3] 2.7548 1.8163
CHNL# 100: [POWR 774[SECCT1 21.000]2] 2.7548 1.8163
CHNL# 99: [POWR 773[SECST 20.000]1] 3.4918 2.6143
CHNL# 124: [POWR972378[0.7000]G1] 1.0825 0.04430
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1] 1.0826 0.04430

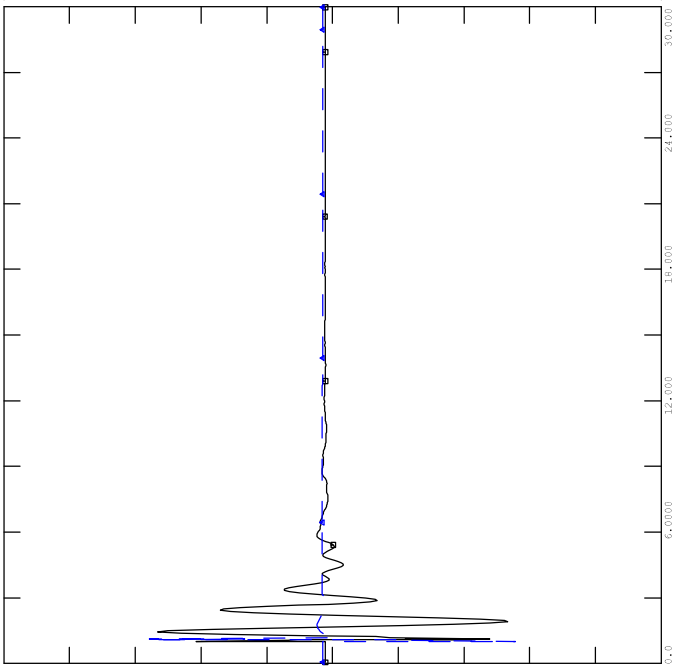


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1] 0.76210 -0.1397
CHNL# 102: [POWR 3187[CECST 13.200]2] 1.2327 0.37610

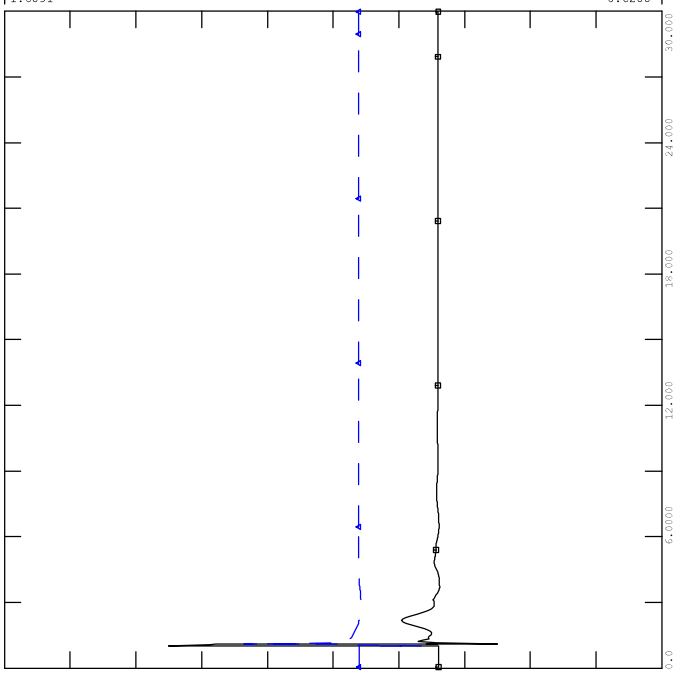


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
0.96110 -0.4094
CHNL# 151: [VARS 3187[CECST 13.200]2]
1.6891 -0.6288

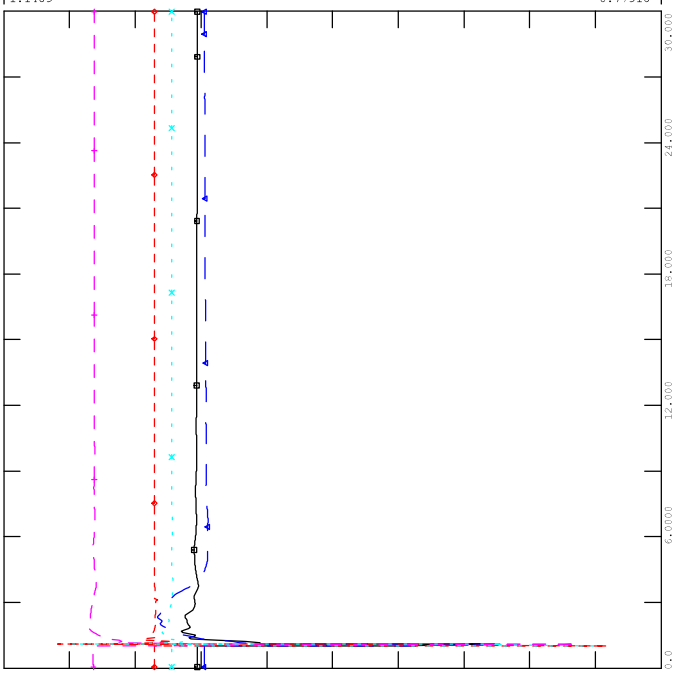


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2535 0.26230
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1319 0.34640
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3801 0.15580
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1603 0.73250
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1489 0.77910

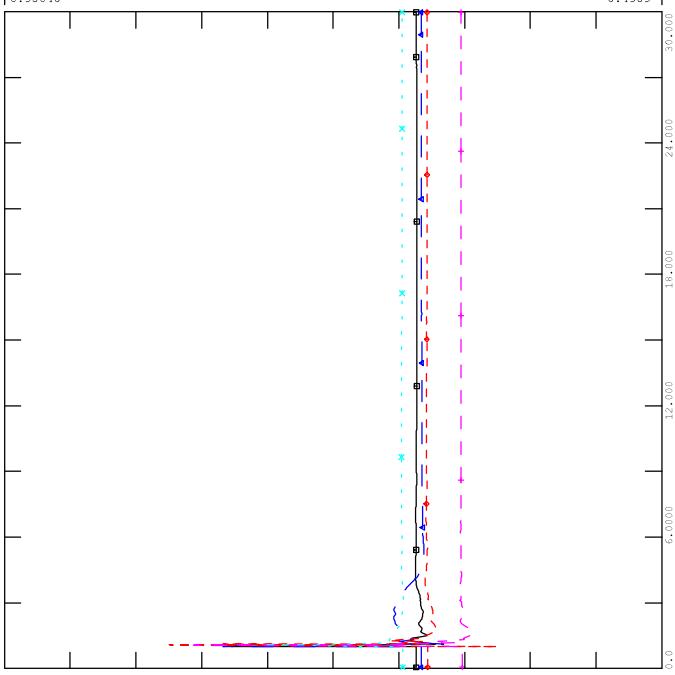


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.64160 -0.6310
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1737 -0.5680
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
2.4375 -0.6791
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
1.0058 -0.4993
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
0.95040 -0.4989

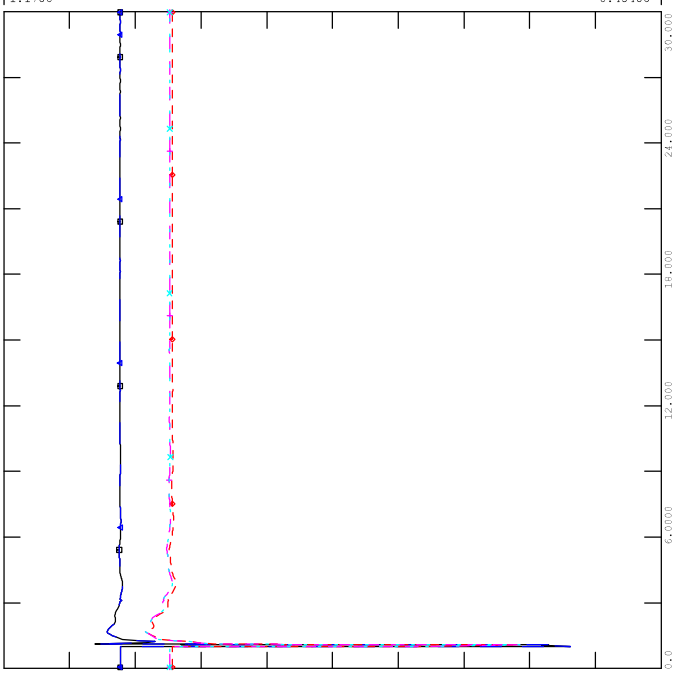


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1170 0.65270
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1170 0.65270
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1175 0.65910
CHNL# 271: [ETRM972378[0.7000]G1]
1.1780 0.45480
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1780 0.45480



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1759 0.13220
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3478 0.24940
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1672 0.58390
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1593 0.42400
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2062 -0.0886
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1618 0.53280

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

CHNL# 336: [1107L Q]
317.10 31.662
CHNL# 318: [1106L Q]
317.19 31.767
CHNL# 330: [1005L Q]
163.69 -275.9
CHNL# 340: [1036L Q]
283.88 -106.7
CHNL# 334: [935L Q]
40.000 -54.27
CHNL# 322: [923L Q]
738.44 -745.0

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2866 0.30610
CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1211 0.71190

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

CHNL# 335: [1107L P]
28.301 -605.4
CHNL# 317: [1106L P]
28.380 -605.4
CHNL# 329: [1005L P]
190.32 -584.1
CHNL# 339: [1036L P]
155.09 -481.6
CHNL# 333: [935L P]
52.602 -40.00
CHNL# 321: [923L P]
540.41 -771.2

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
BRANCH P

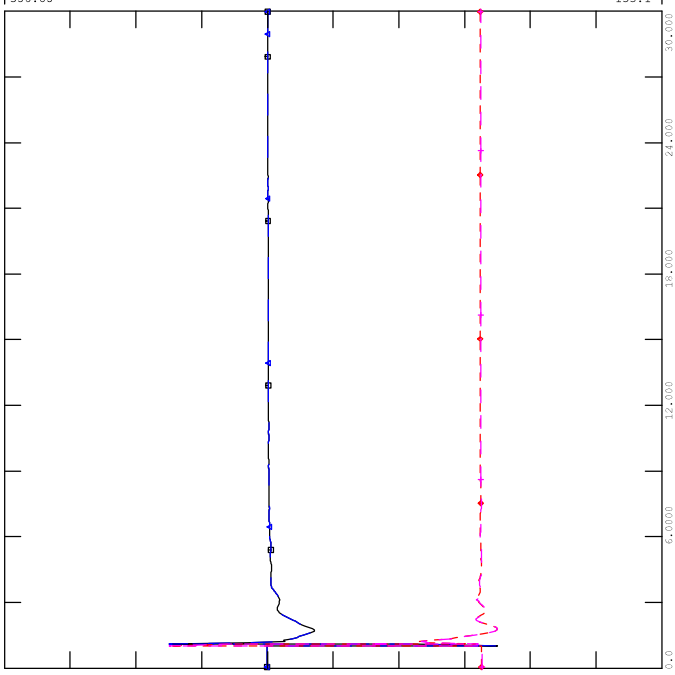
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16

BRANCH Q

CHNL# 356: [927L_A2_1_Q] 888.18 -197.1
CHNL# 338: [924L_A2_1_Q] 881.80 -191.7
CHNL# 324: [1003L_Q] 346.35 -131.8
CHNL# 348: [985L_Q] 350.85 -133.1



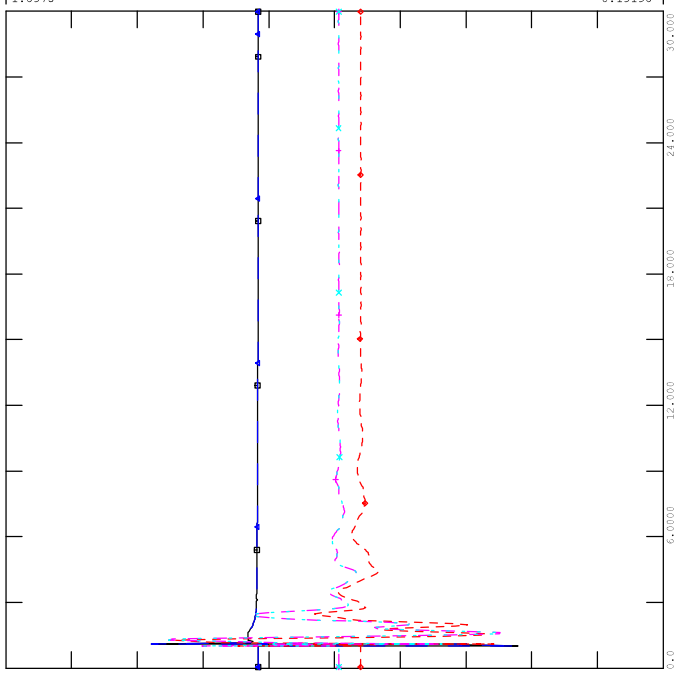
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3] 2.6625 1.8555
CHNL# 100: [POWR 774[SECCT1 21.000]2] 2.6625 1.8555
CHNL# 99: [POWR 773[SECST 20.000]1] 3.4240 2.6478
CHNL# 124: [POWR972378[0.7000]G1] 1.0975 0.19190
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1] 1.0975 0.19190



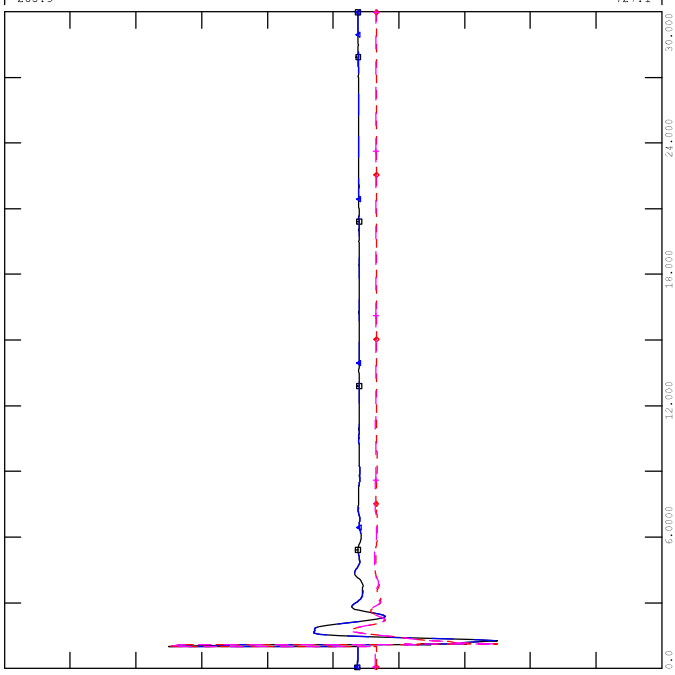
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_11_935L_MILO

FILE: scn3_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16

BRANCH P

CHNL# 355: [927L_A2_1_P] 422.48 -962.4
CHNL# 337: [924L_A2_1_P] 430.21 -960.5
CHNL# 323: [1003L_P] -282.6 -718.8
CHNL# 347: [985L_P] -285.9 -727.1



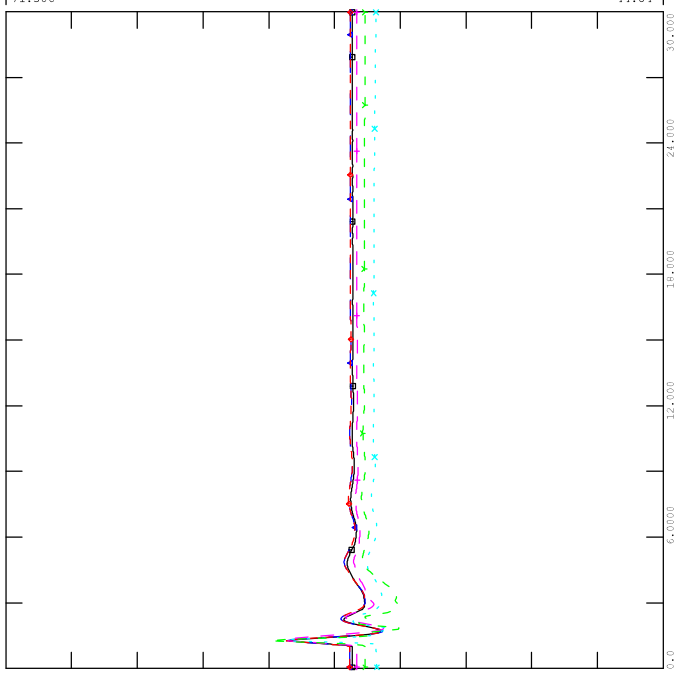
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSBLAZ 13.800]2] 69.121 -55.29
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1] 63.028 -57.36
CHNL# 4: [ANGL 3187[CECST 13.200]2] 57.701 -59.72
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 70.345 -46.80
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 70.345 -46.80
CHNL# 1: [ANGL 773[SECST 20.000]1] 71.306 -44.84

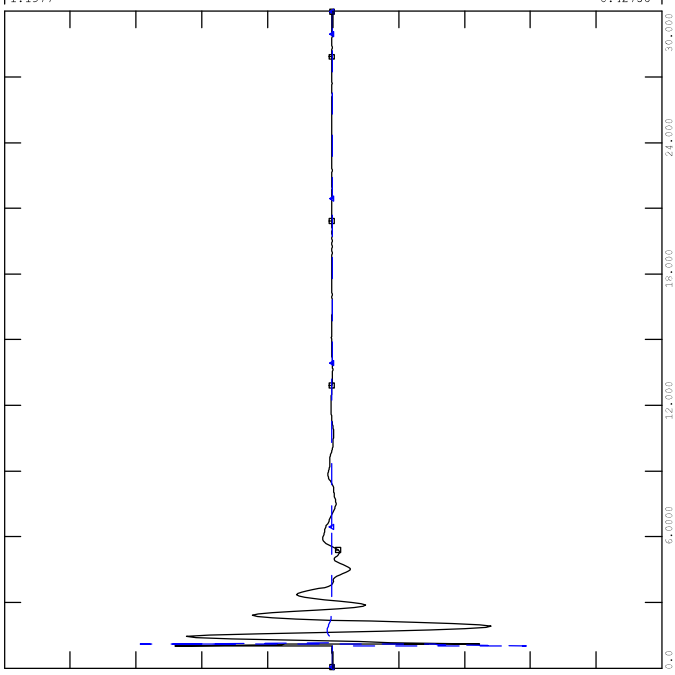


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.80700 -0.1602
CHNL# 102: [POWR 3187[CECST 13.200]2]
1.1977 0.42750

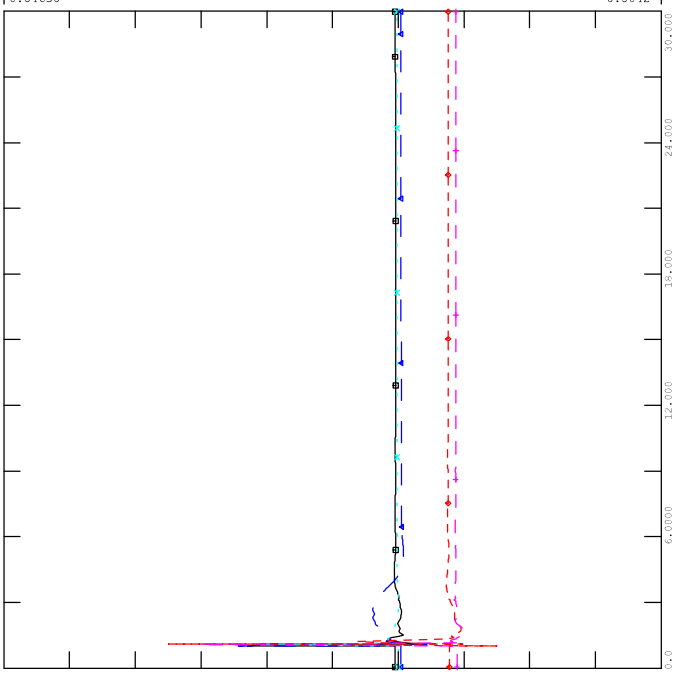


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.62170 -0.6311
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1154 -0.5594
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
2.6742 -0.6382
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
0.89890 -0.5039
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
0.84630 -0.5042

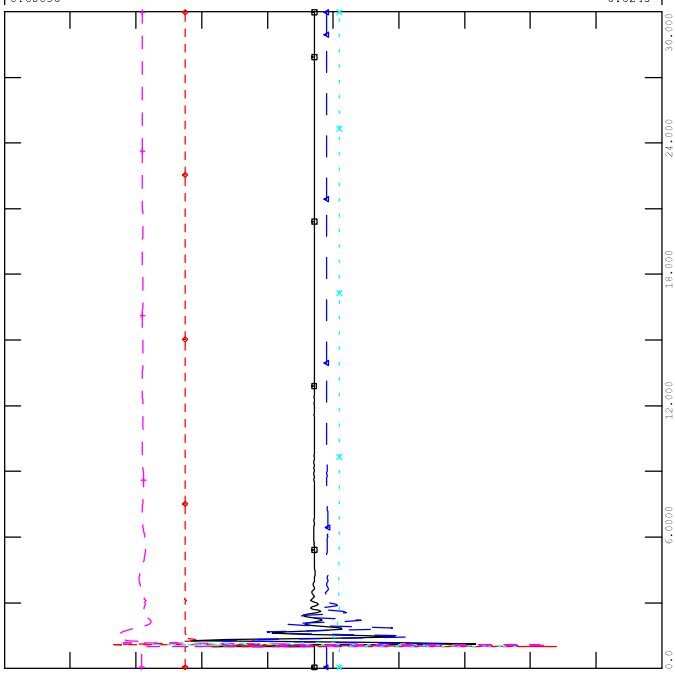


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.75350 -0.1566
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.5159 0.36250
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
1.1157 -0.1270
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.64960 0.04810
CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.68090 -0.0245

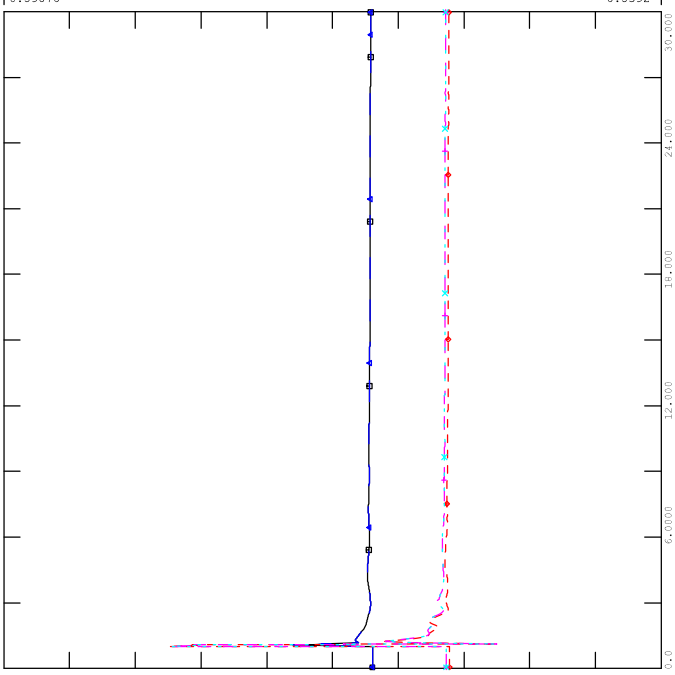


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3]
2.5178 -1.362
CHNL# 149: [VARS 774[SECCT1 21.000]2]
2.5178 -1.362
CHNL# 148: [VARS 773[SECST 20.000]1]
3.1258 -1.580
CHNL# 173: [VARS972378[0.7000]G1]
0.59900 -0.5388
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
0.59870 -0.5392



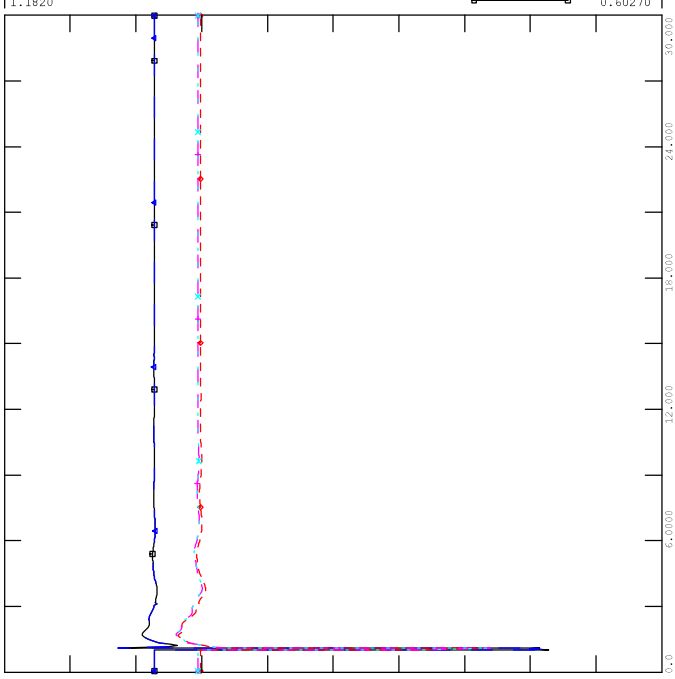
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1127 0.72960
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1127 0.72960
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1128 0.73440
CHNL# 271: [ETRM972378[0.7000]G1]
1.1820 0.60270
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1820 0.60270



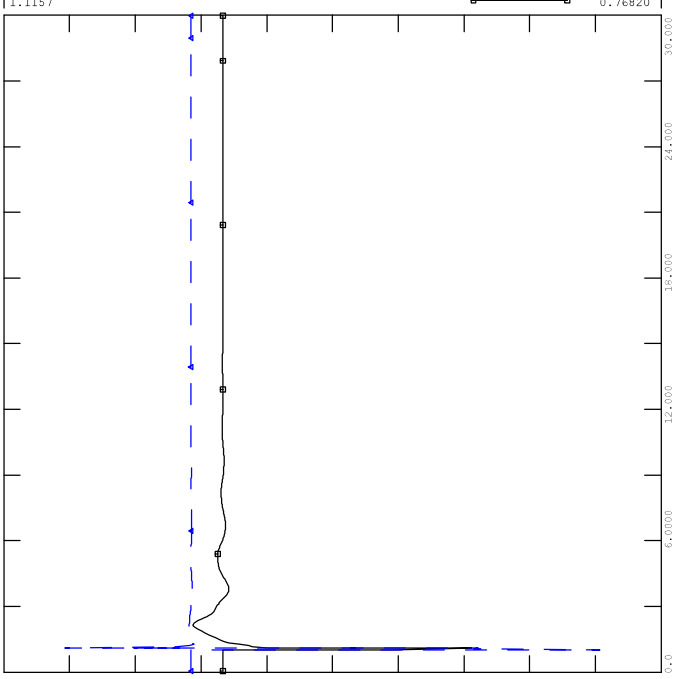
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3066 0.23080
CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1157 0.76820



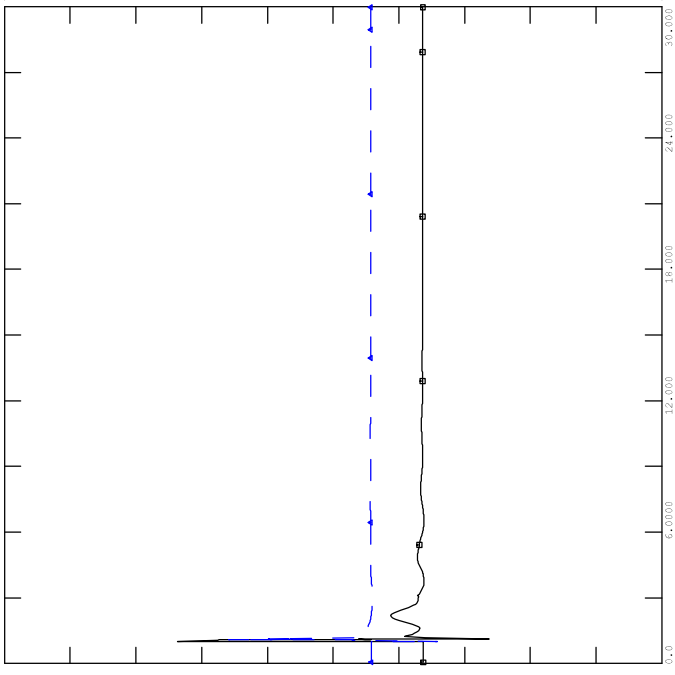
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
1.0389 -0.4264
CHNL# 151: [VARS 3187[CECST 13.200]2]
1.3706 -0.5319



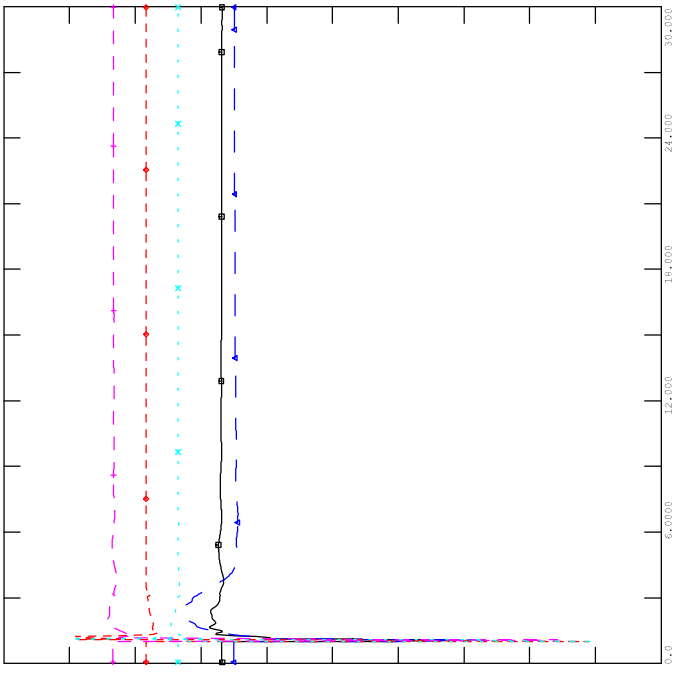
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2647 0.26720
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1301 0.49490
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2974 0.38550
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1579 0.79240
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1461 0.82640



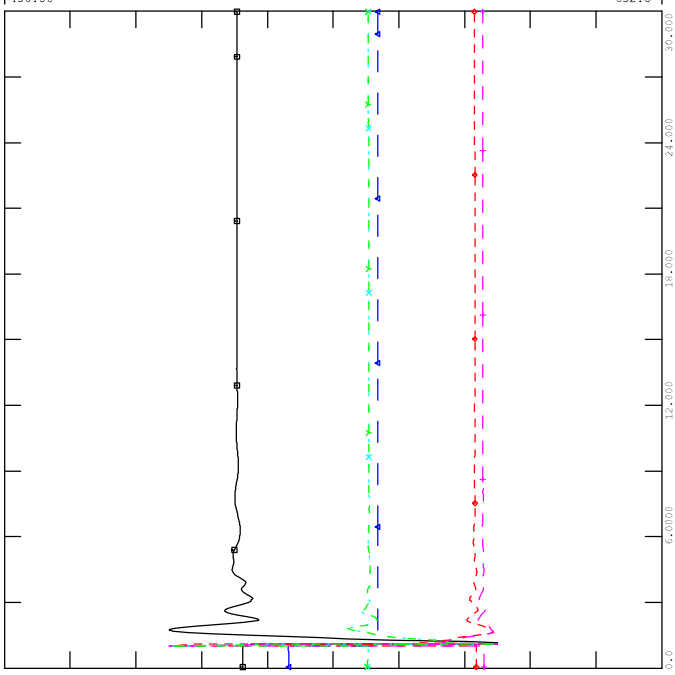
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

CHNL# 335: [1107L P]
-28.57 -576.5
CHNL# 317: [1106L P]
-28.50 -576.6
CHNL# 329: [1005L P]
73.568 -514.6
CHNL# 339: [1036L P]
5.3752 -429.3
CHNL# 333: [935L P]
52.602 -40.00
CHNL# 321: [923L P]
450.50 -632.8

SAT, MAY 21 2022 1:16
BRANCH P

TIME (SECONDS)



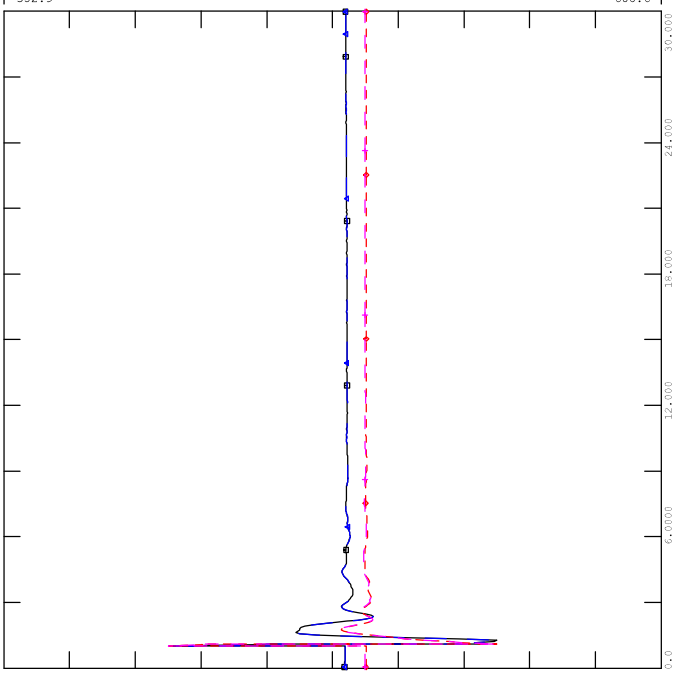
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

CHNL# 355: [927L A2 1 P]
249.94 -858.7
CHNL# 337: [924L A2 1 P]
256.58 -856.8
CHNL# 323: [1003L P]
-348.8 -672.9
CHNL# 347: [985L P]
-352.9 -680.6

SAT, MAY 21 2022 1:16
BRANCH P

TIME (SECONDS)



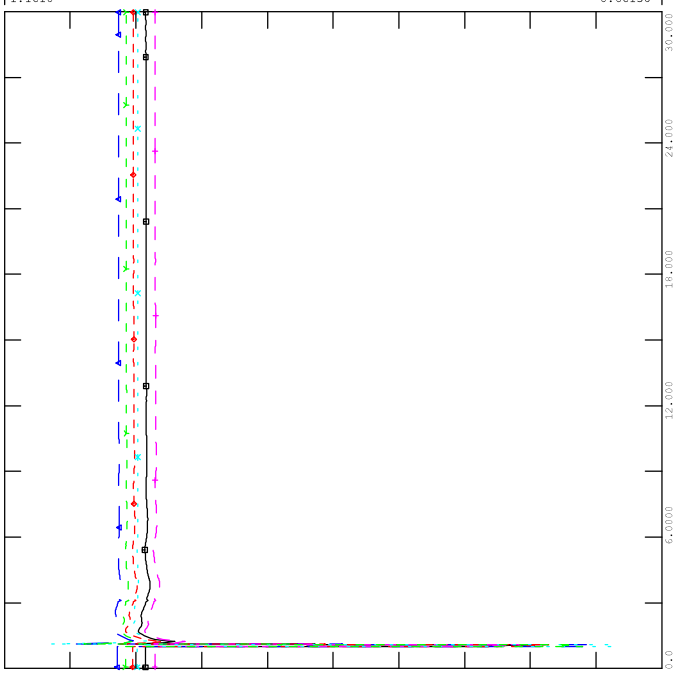
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1823 0.35340
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3288 -0.0866
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1641 0.69650
CHNL# 316: [VOLT 902378 [924L_TAP 240.00]]
1.1634 0.58170
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2102 0.22740
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1610 0.66130

SAT, MAY 21 2022 1:16
BUS VOLTAGE

TIME (SECONDS)



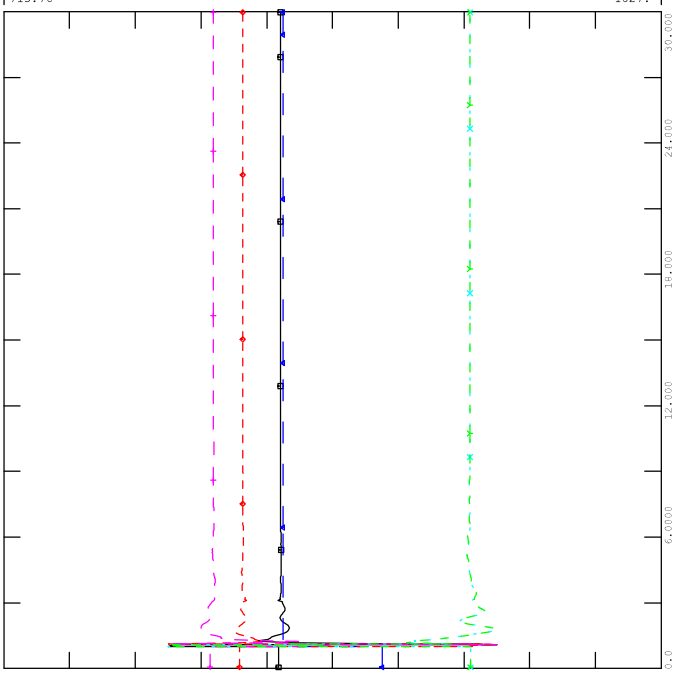
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

CHNL# 336: [1107L Q]
290.44 44.005
CHNL# 318: [1106L Q]
290.52 44.116
CHNL# 330: [1005L Q]
216.81 -387.5
CHNL# 340: [1036L Q]
300.44 -228.7
CHNL# 334: [935L Q]
40.000 -54.27
CHNL# 322: [923L Q]
713.76 -1027.

SAT, MAY 21 2022 1:16
BRANCH Q

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
98.774 -71.14
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
87.298 -72.89
CHNL# 4: [ANGL 3187[CECST 13.200]2]
81.081 -81.40
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
104.21 -67.69
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
104.21 -67.69
CHNL# 1: [ANGL 773[SECST 20.000]1]
107.43 -62.63

SAT, MAY 21 2022 1:16
ROTOR ANGLE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.63180 -0.1095
CHNL# 139: [POWR 61736[BSR_4 0.6900]1]
1.5717 0.20070
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3072 -0.0514
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.80240 -0.0863
CHNL# 110: [POWR 3247[CAVAL_A 13.800]1]
0.74190 0.00760

SAT, MAY 21 2022 1:16
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_12_935L_CASSILS

FILE: scn3_SP_A2_12_935L_Cassils.out

CHNL# 356: [927L_A2_1 Q]
722.69 -135.0
CHNL# 338: [924L_A2_1 Q]
718.40 -130.2
CHNL# 324: [1003L Q]
298.12 -45.03
CHNL# 348: [985L Q]
302.05 -45.33

SAT, MAY 21 2022 1:16
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out

CHNL# 101: [POWR 775[SECCT2 21.000]3]
4.2980 0.21410
CHNL# 100: [POWR 774[SECCT1 21.000]2]
4.2980 0.21410
CHNL# 99: [POWR 773[SECST 20.000]1]
5.2163 0.36340
CHNL# 124: [POWR972378[0.7000]G1]
1.0252 -0.1949
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0254 -0.1949

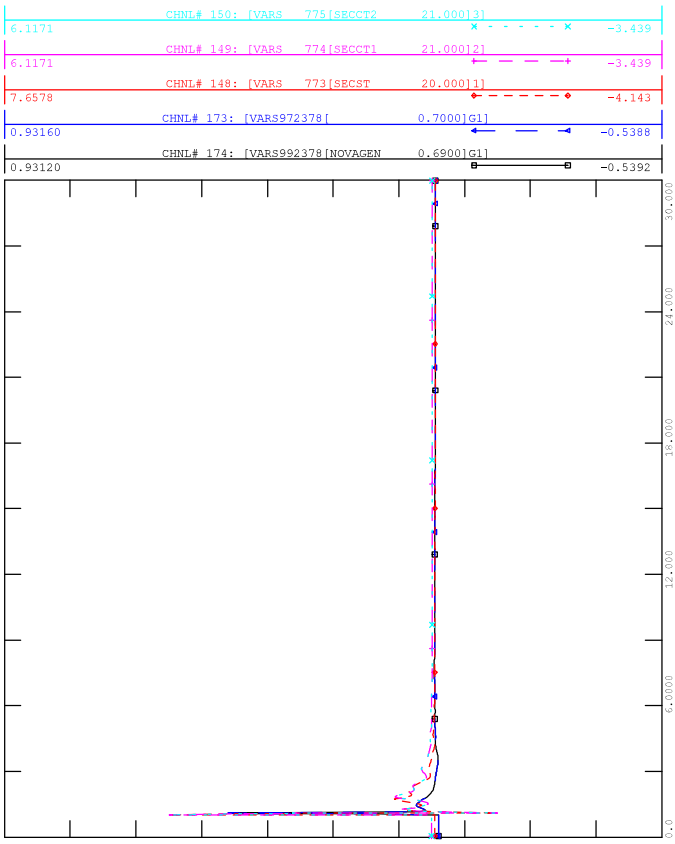
SAT, MAY 21 2022 1:16
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out

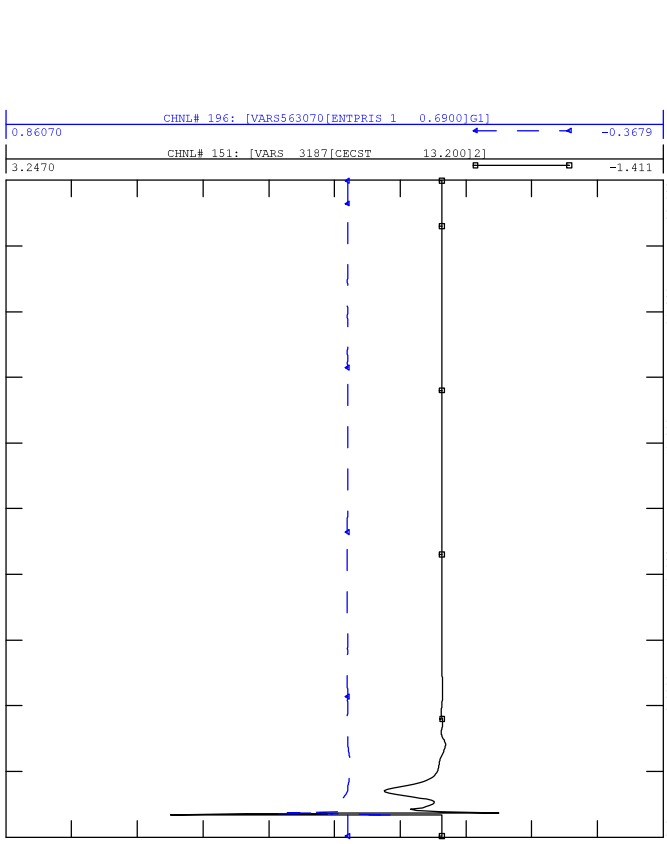
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out

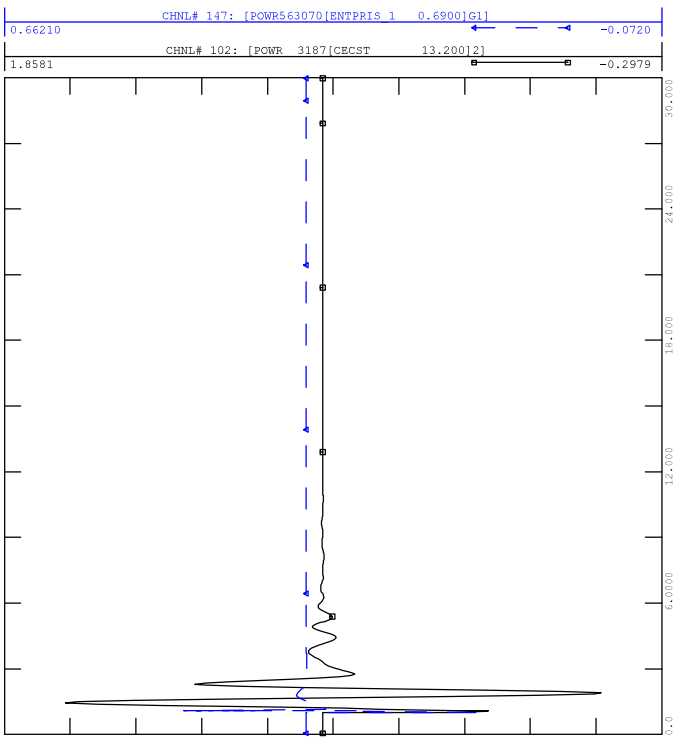
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out

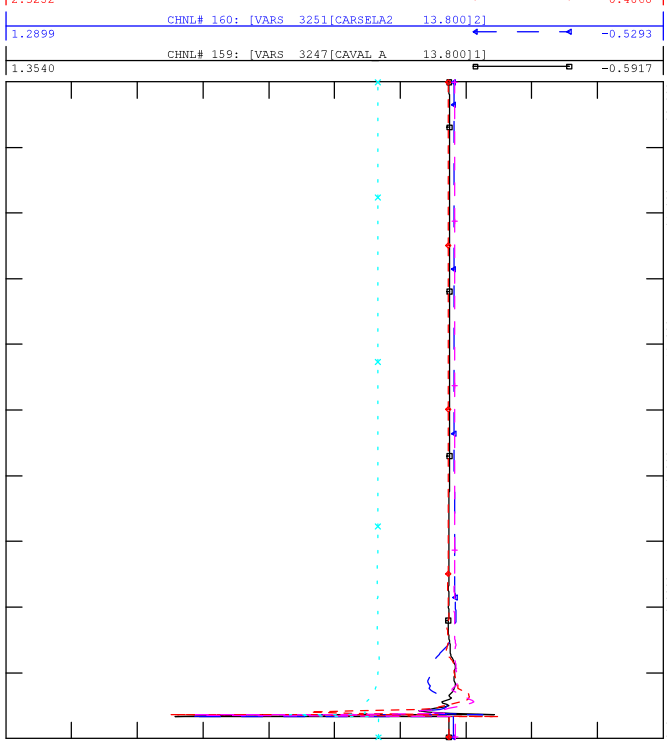
SAT, MAY 21 2022 1:16
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

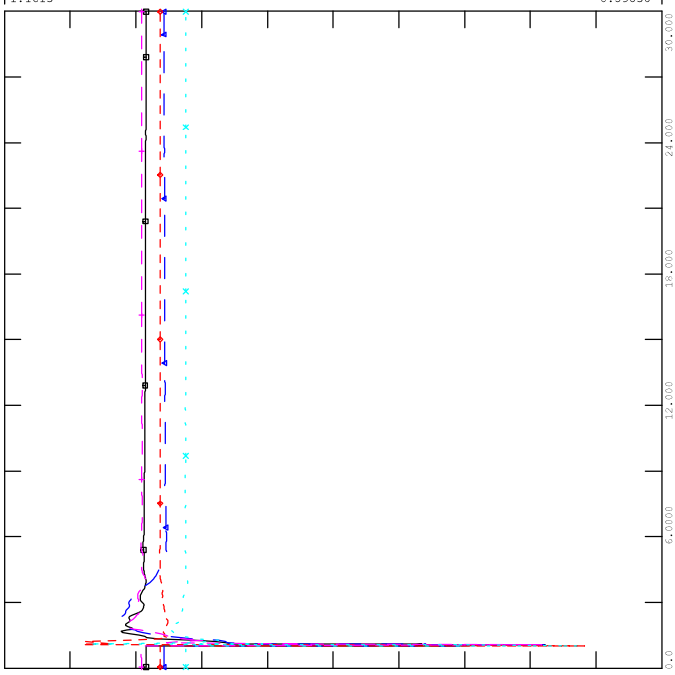
CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2168 0.43000

CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1386 0.59280

CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3006 0.45280

CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1673 0.60130

CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1613 0.59830



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16

BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1710 0.35150

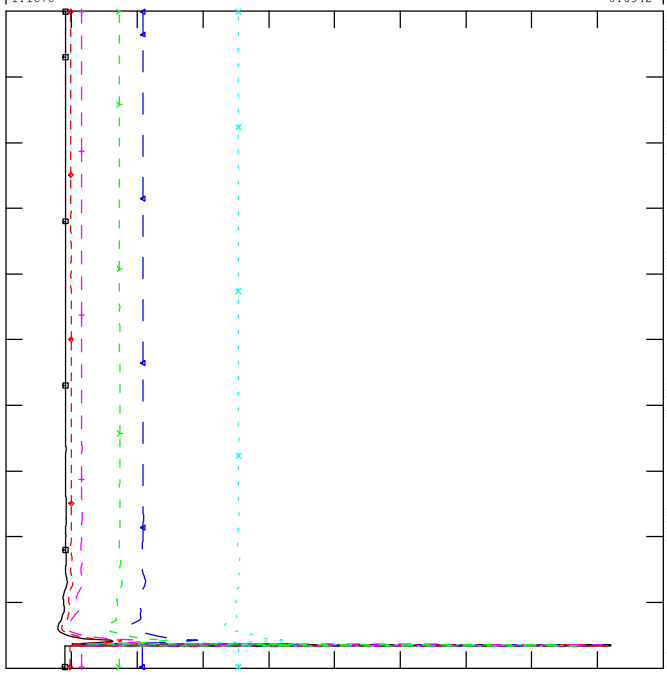
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3039 0.56530

CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1812 0.10830

CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1651 -0.0118

CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2191 0.36350

CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1670 -0.0942



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

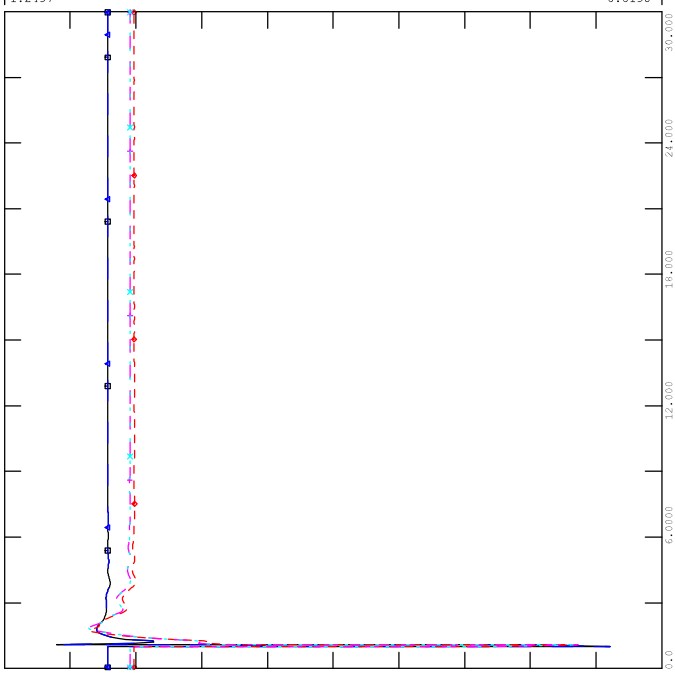
CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1495 0.36590

CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1495 0.36590

CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1519 0.38240

CHNL# 271: [ETRM972378[0.7000]G1]
1.2497 -0.0198

CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.2497 -0.0198



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

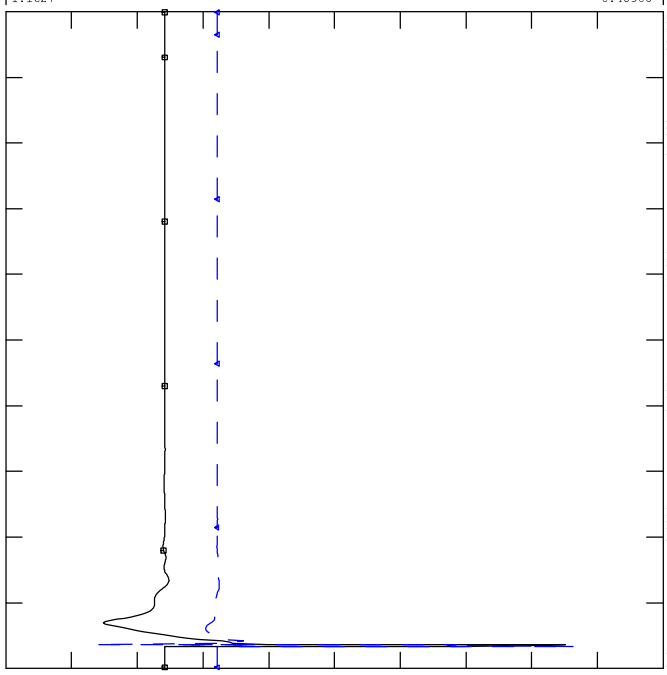
FILE: scn3_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

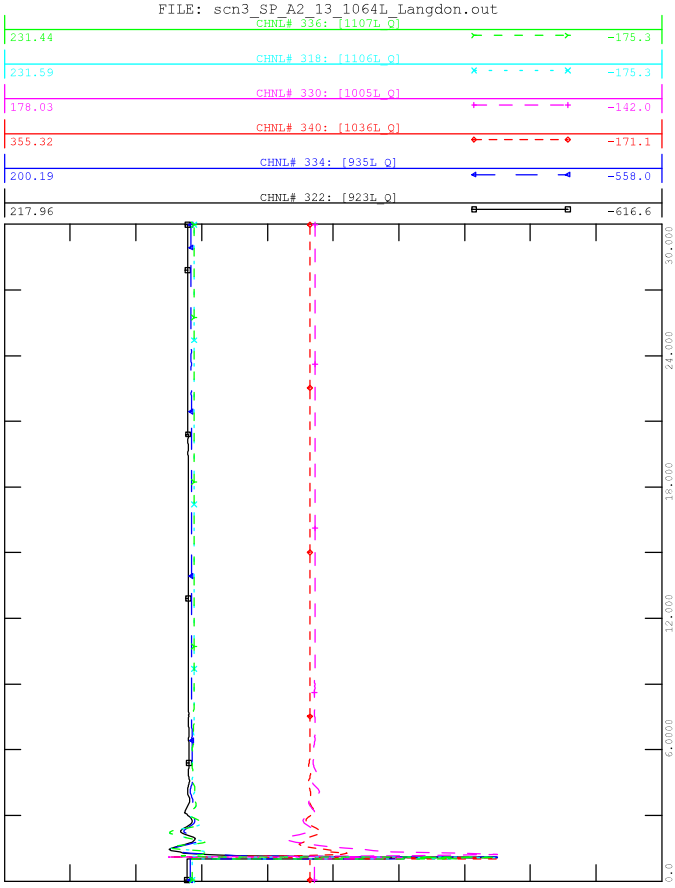
CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2396 0.49460

CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1627 0.48900



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

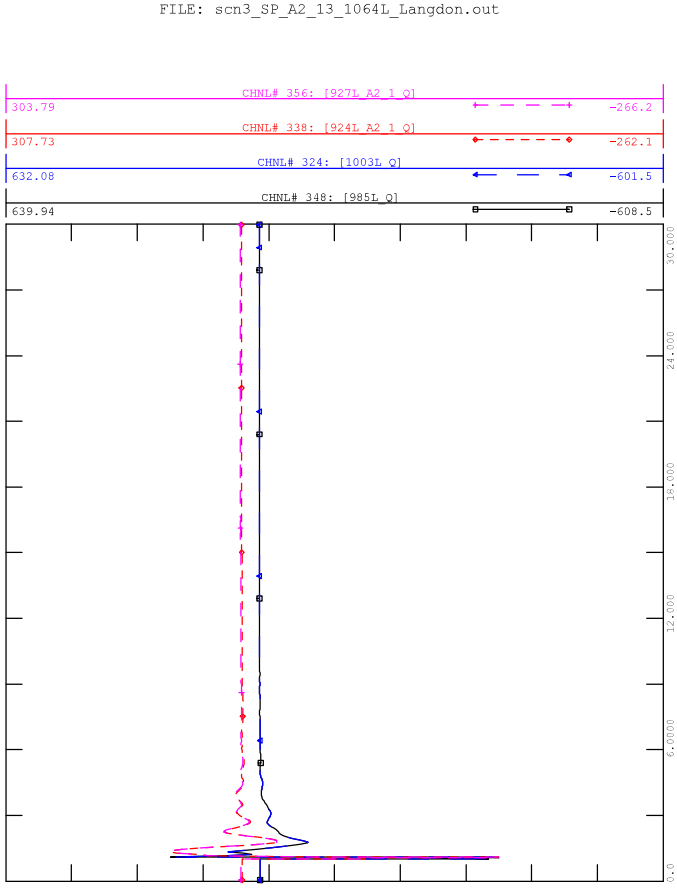
FILE: scn3_SP_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:16 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

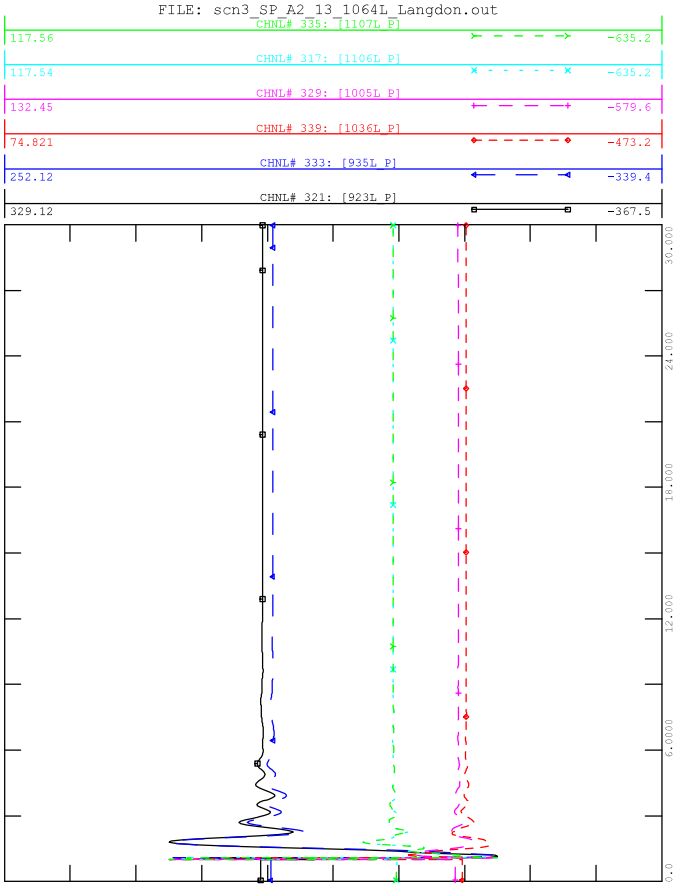
FILE: scn3_SP_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:16 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

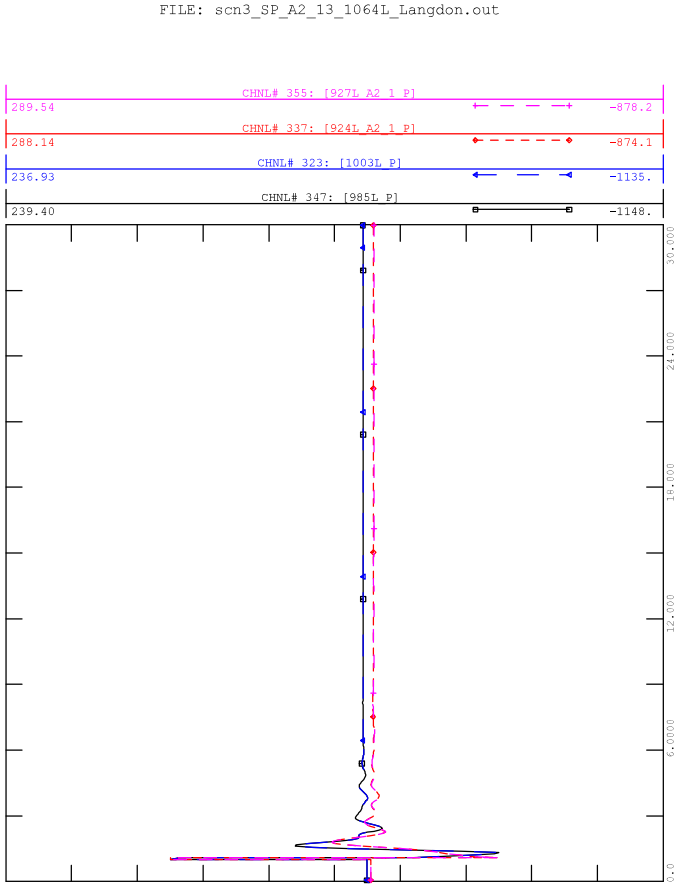
FILE: scn3_SP_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:16 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_13_1064L_LANGDON

FILE: scn3_SP_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:16 BRANCH P

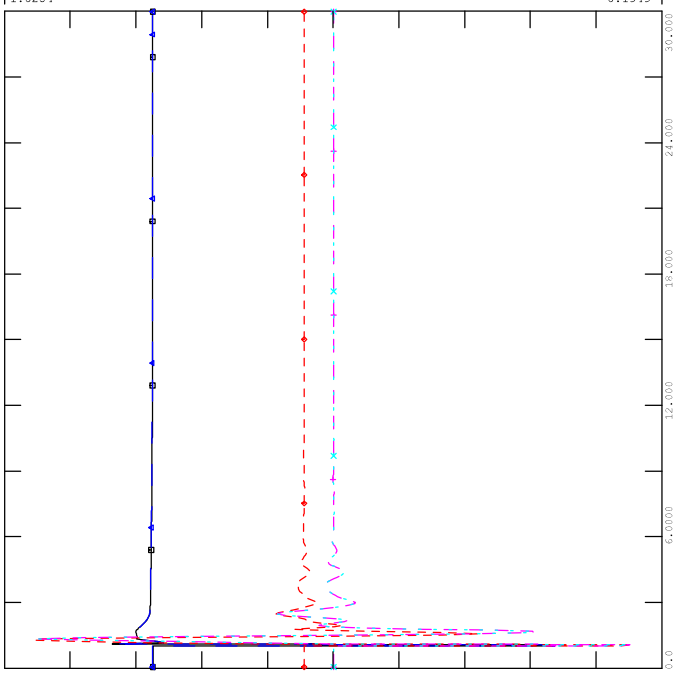
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3]
4.2980 0.21410
CHNL# 100: [POWR 774[SECCT1 21.000]2]
4.2980 0.21410
CHNL# 99: [POWR 773[SECST 20.000]1]
5.2163 0.36340
CHNL# 124: [POWR972378[0.7000]G1]
1.0252 -0.1949
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0254 -0.1949



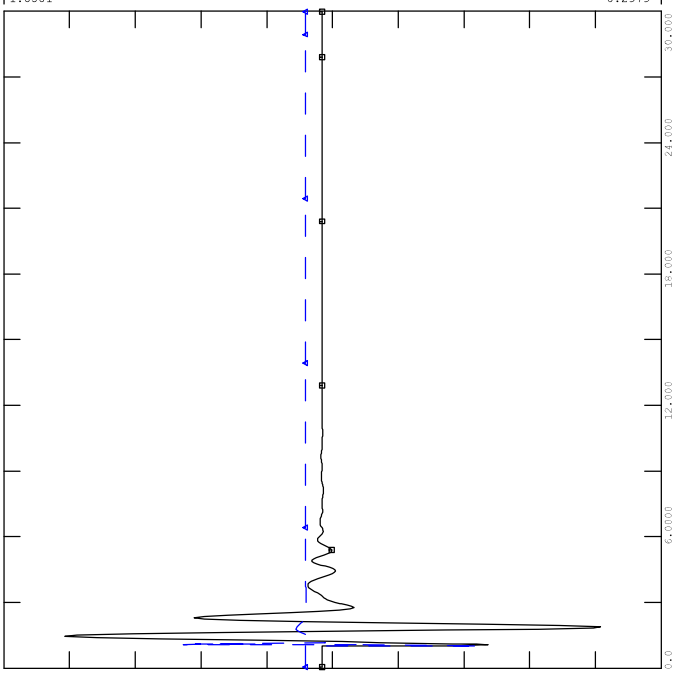
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.66210 -0.0720
CHNL# 102: [POWR 3187[CECST 13.200]2]
1.8581 -0.2979



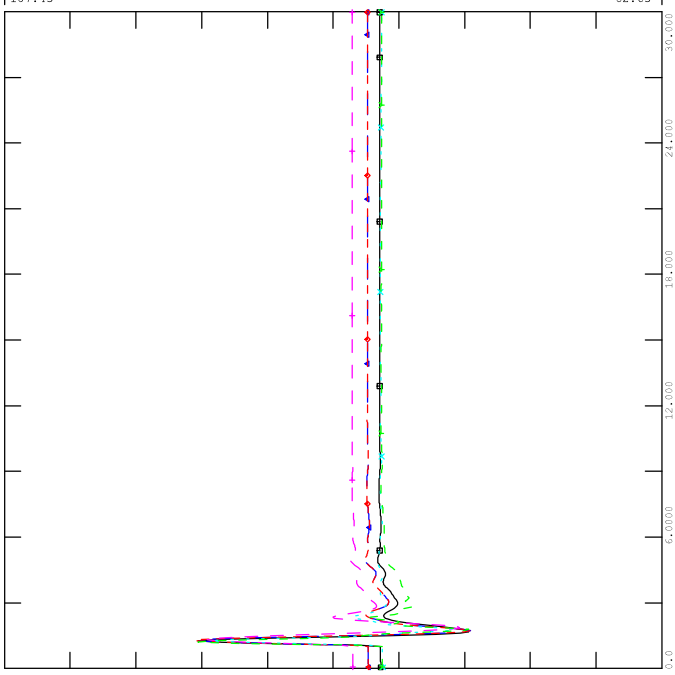
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
98.774 -71.14
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
87.298 -72.89
CHNL# 4: [ANGL 3187[CECST 13.200]2]
81.081 -81.40
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
104.21 -67.69
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
104.21 -67.69
CHNL# 1: [ANGL 773[SECST 20.000]1]
107.43 -62.63



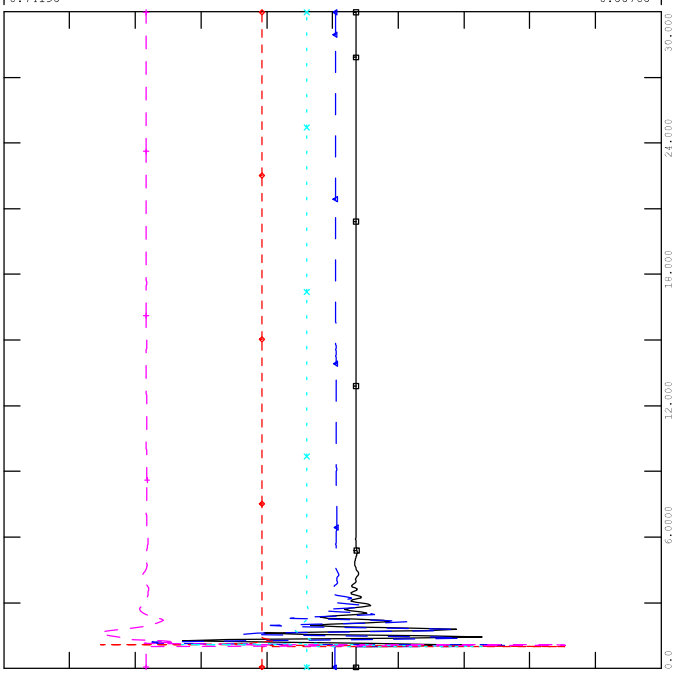
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.63180 -0.1095
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.5717 0.20070
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3072 -0.0514
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.80240 -0.0863
CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.74190 0.00760

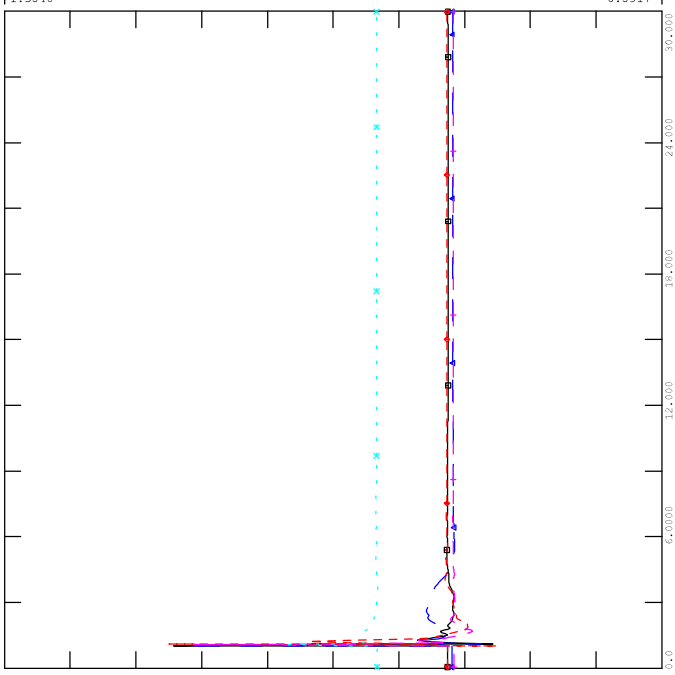


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.52660 -0.6314
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1462 -0.5877
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
2.3252 -0.4868
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
1.2899 -0.5293
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
1.3540 -0.5917

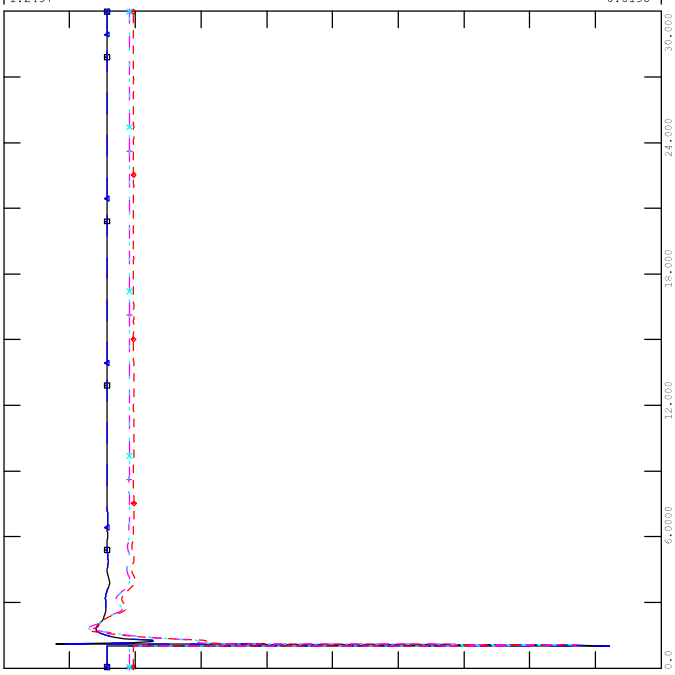


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1495 0.36590
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1495 0.36590
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1519 0.38240
CHNL# 271: [ETRM972378[0.7000]G1]
1.2497 -0.0198
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.2497 -0.0198

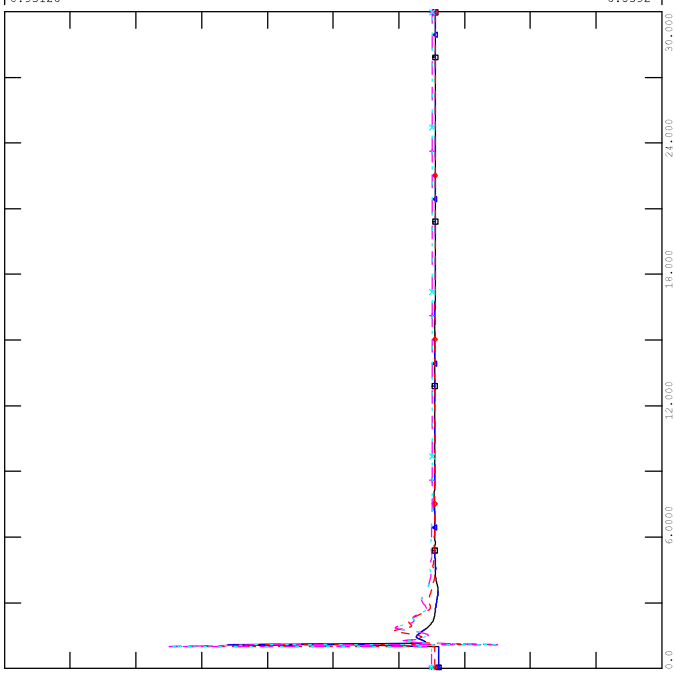


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3]
6.1171 -3.439
CHNL# 149: [VARS 774[SECCT1 21.000]2]
6.1171 -3.439
CHNL# 148: [VARS 773[SECST 20.000]1]
7.6578 -4.143
CHNL# 173: [VARS972378[0.7000]G1]
0.93160 -0.5388
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
0.93120 -0.5392

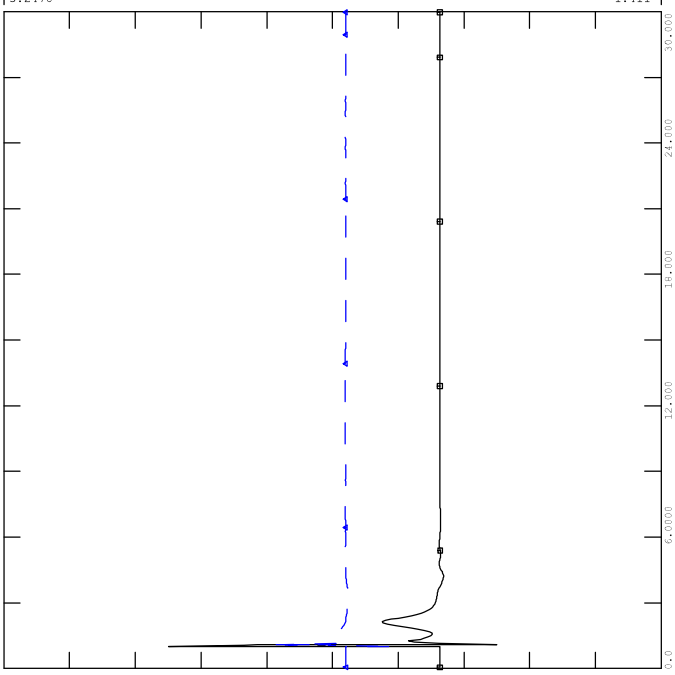


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
0.86070 -0.3679
CHNL# 151: [VARS 3187[CECST 13.200]2]
3.2470 -1.411

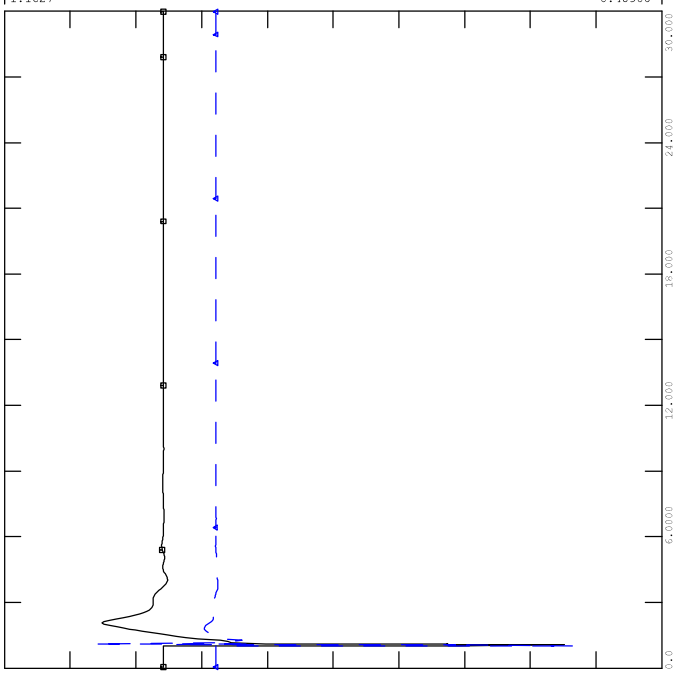


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2396 0.49460
CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1627 0.48900

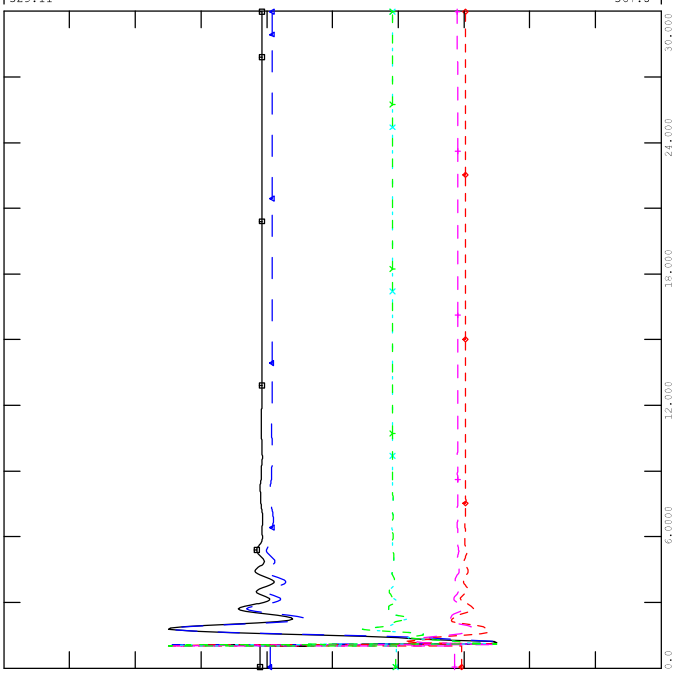


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
BRANCH P

CHNL# 335: [1107L P]
117.56 -635.2
CHNL# 317: [1106L P]
117.54 -635.2
CHNL# 329: [1005L P]
132.45 -579.6
CHNL# 339: [1036L P]
74.821 -473.2
CHNL# 333: [935L P]
252.12 -339.4
CHNL# 321: [923L P]
329.11 -367.5

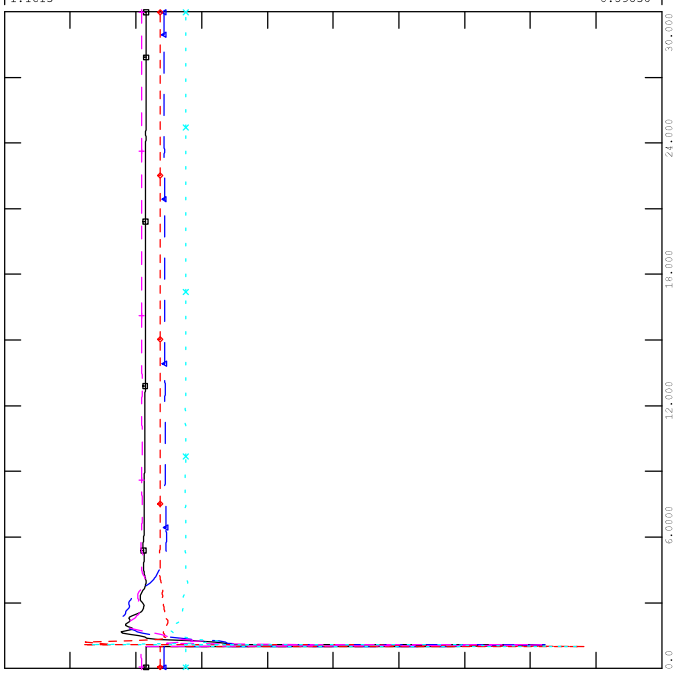


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2168 0.43000
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1386 0.59280
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3006 0.45280
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1673 0.60130
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1613 0.59830

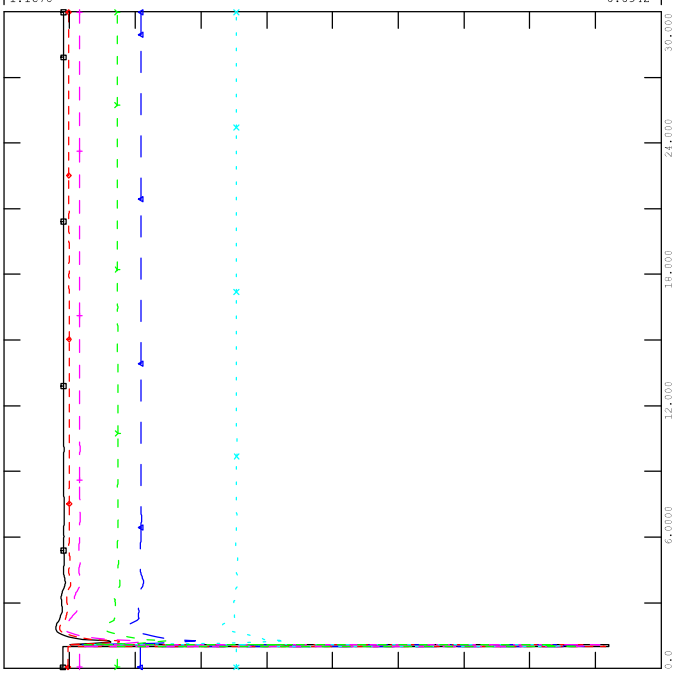


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1710 0.35150
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3039 0.56530
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1812 0.10830
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1651 -0.0118
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2191 0.36350
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1670 -0.0942

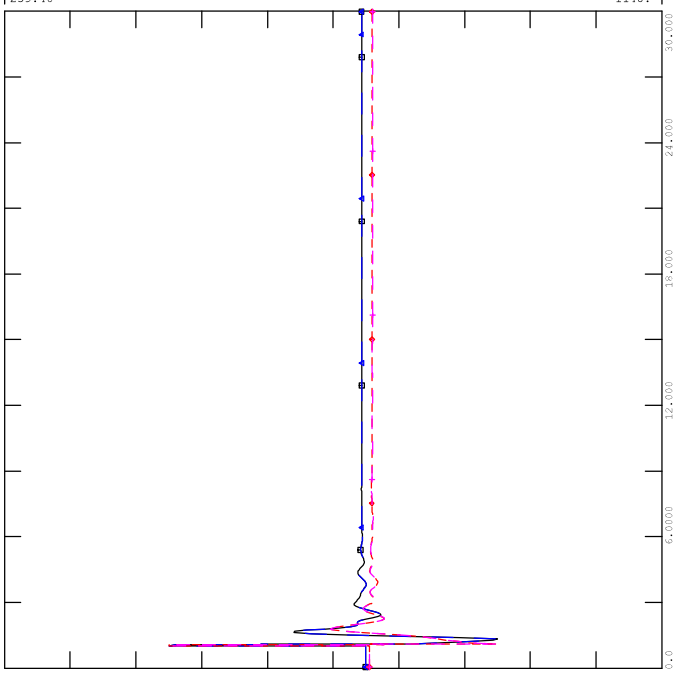


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 355: [927L_A2_1_P] 289.54 -878.2
CHNL# 337: [924L_A2_1_P] 288.14 -874.1
CHNL# 323: [1003L_P] 236.93 -1135.
CHNL# 347: [985L_P] 239.40 -1148.

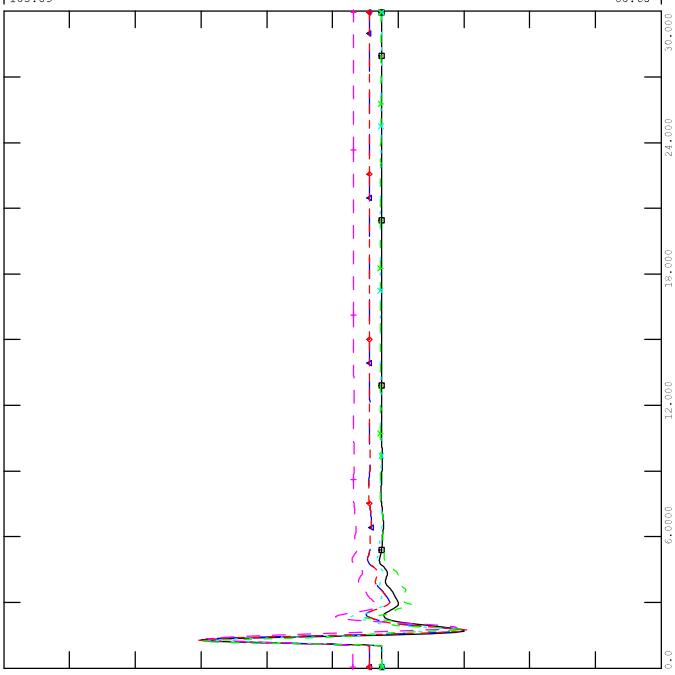


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2] 97.344 -70.06
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1] 86.221 -72.02
CHNL# 4: [ANGL 3187[CECST 13.200]2] 80.464 -80.38
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 103.05 -65.92
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 103.05 -65.92
CHNL# 1: [ANGL 773[SECST 20.000]1] 105.89 -60.65

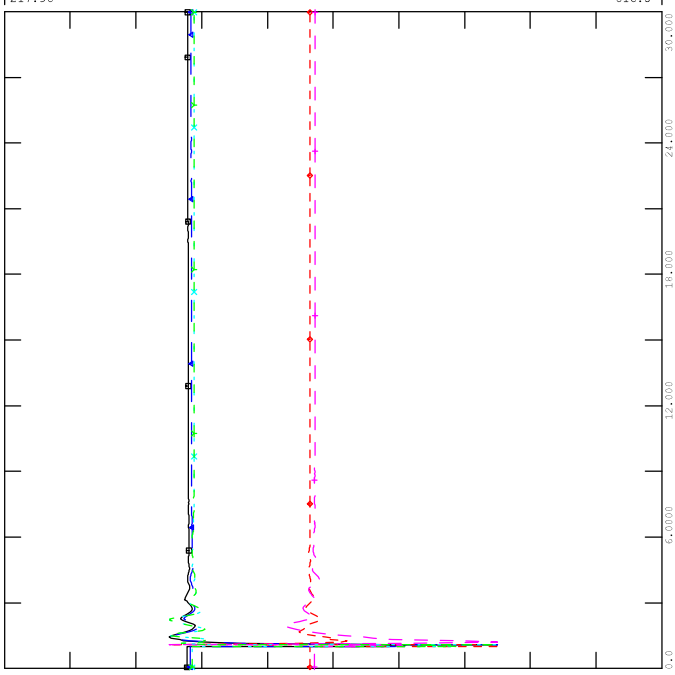


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH Q

CHNL# 336: [1107L_Q] 231.44 -175.3
CHNL# 318: [1106L_Q] 231.59 -175.3
CHNL# 330: [1005L_Q] 178.03 -142.0
CHNL# 340: [1036L_Q] 355.32 -171.1
CHNL# 334: [935L_Q] 200.19 -558.0
CHNL# 322: [923L_Q] 217.96 -616.5

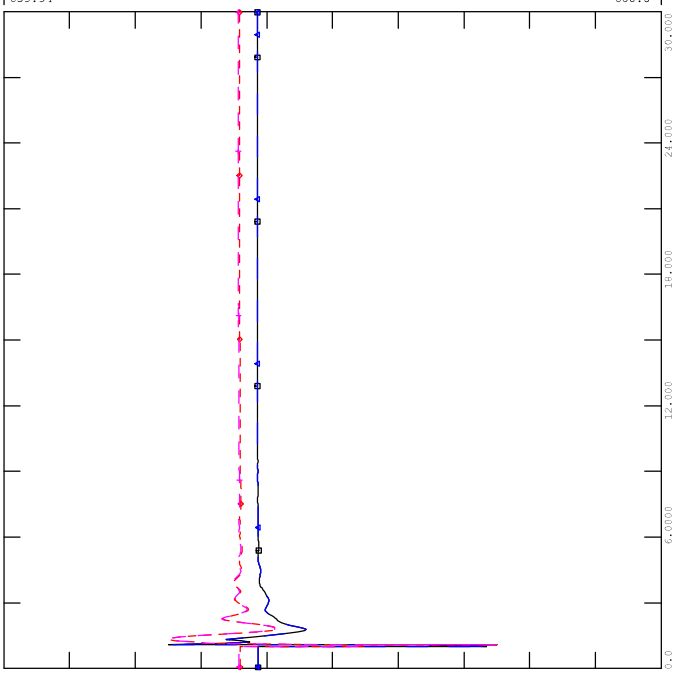


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_14_1065L_LANGDON

FILE: scn3_SP_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH Q

CHNL# 356: [927L_A2_1_Q] 303.79 -266.2
CHNL# 338: [924L_A2_1_Q] 307.73 -262.1
CHNL# 324: [1003L_Q] 632.08 -601.5
CHNL# 348: [985L_Q] 639.94 -608.5

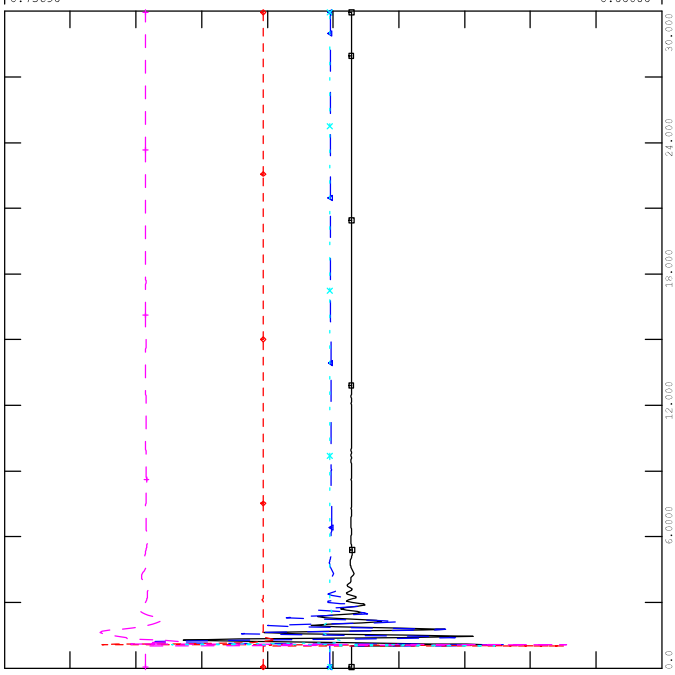


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.67970 -0.1071
CHNL# 139: [POWR 61736[BSR_4 0.6900]1]
1.5704 0.19530
CHNL# 144: [POWR560026[TRAVERS_1A 0.4800]G1]
1.3031 -0.0423
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.78700 -0.0862
CHNL# 110: [POWR 3247[CAVAL_A 13.800]1]
0.73690 0.00080

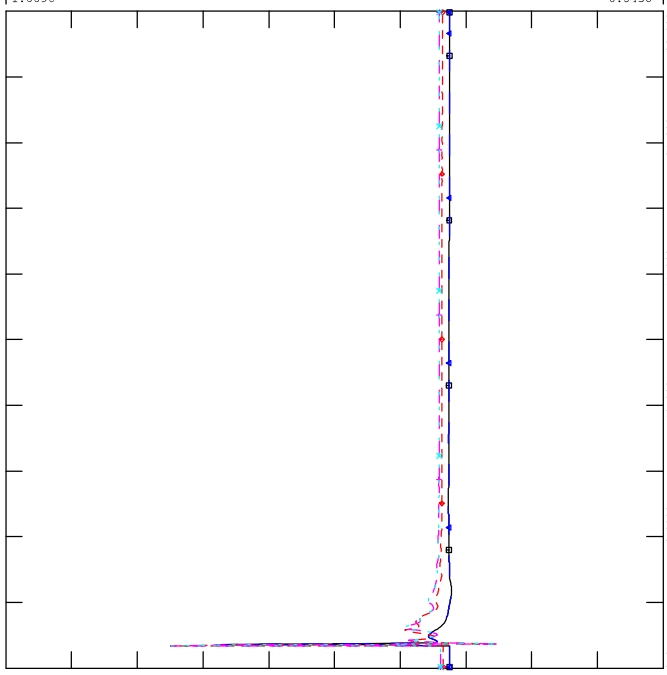


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3]
6.0327 -3.235
CHNL# 149: [VARS 774[SECCT1 21.000]2]
6.0327 -3.235
CHNL# 148: [VARS 773[SECST 20.000]1]
7.5511 -3.897
CHNL# 173: [VARS972378[0.7000]G1]
1.0098 -0.5434
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
1.0096 -0.5438

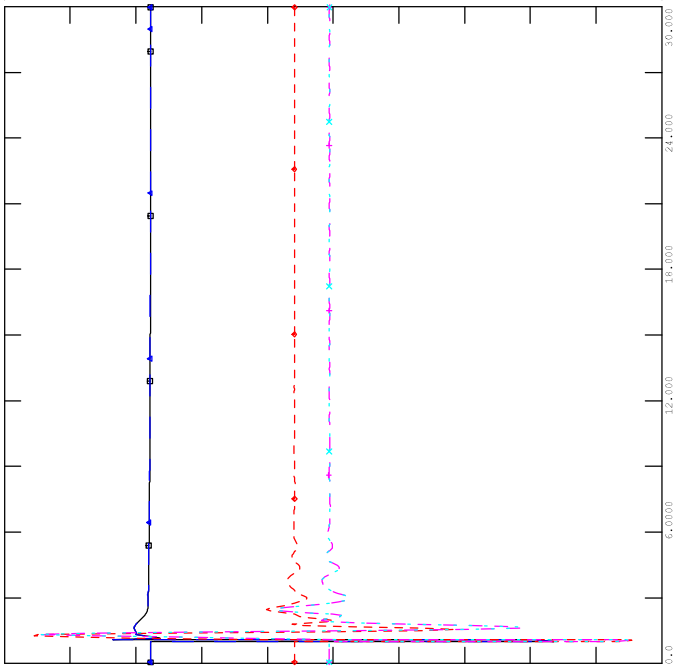


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3]
4.2345 0.22750
CHNL# 100: [POWR 774[SECCT1 21.000]2]
4.2345 0.22750
CHNL# 99: [POWR 773[SECST 20.000]1]
5.0673 0.39070
CHNL# 124: [POWR972378[0.7000]G1]
1.0193 -0.1935
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0195 -0.1935

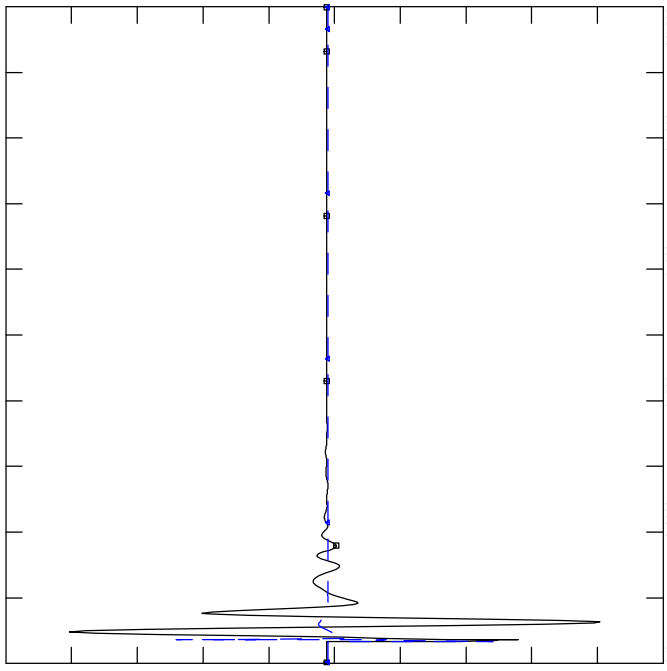


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16
ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS_1 0.6900]G1]
0.70330 -0.0693
CHNL# 102: [POWR 3187[CECST 13.200]2]
1.8262 -0.2471



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
0.89310 -0.3666
CHNL# 151: [VARS 3187[CECST 13.200]2]
3.1982 -1.313

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2156 0.43690
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1395 0.59260
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2955 0.46010
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1650 0.60390
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1587 0.60140

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.52970 -0.6323
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1476 -0.5879
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
1.5964 -0.2810
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
1.2839 -0.5088
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
1.3481 -0.5595

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

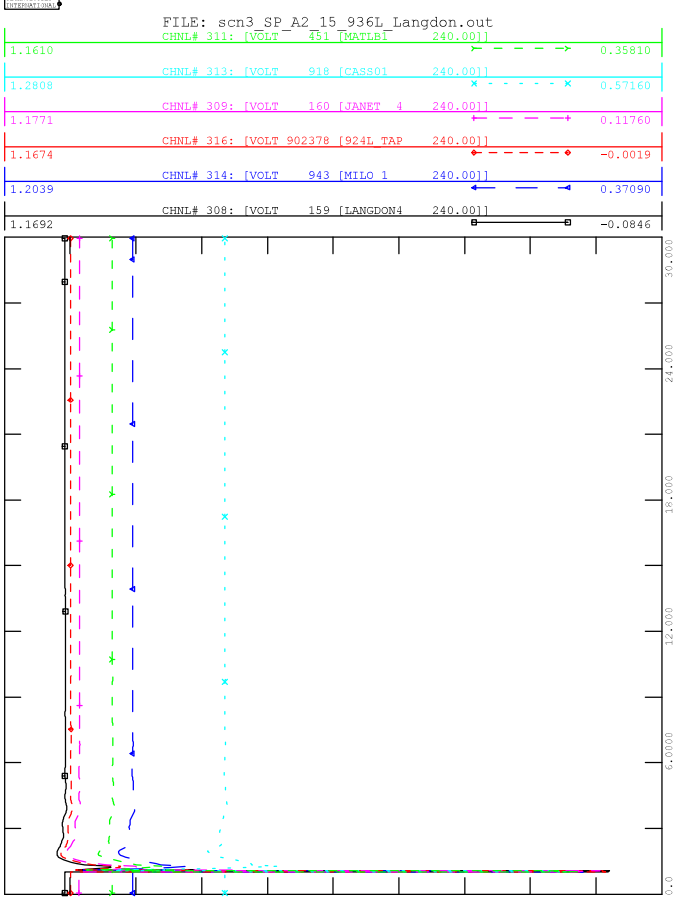
SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1451 0.37170
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1451 0.37170
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1456 0.38790
CHNL# 271: [ETRM972378[0.7000]G1]
1.1999 -0.0097
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1999 -0.0098

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

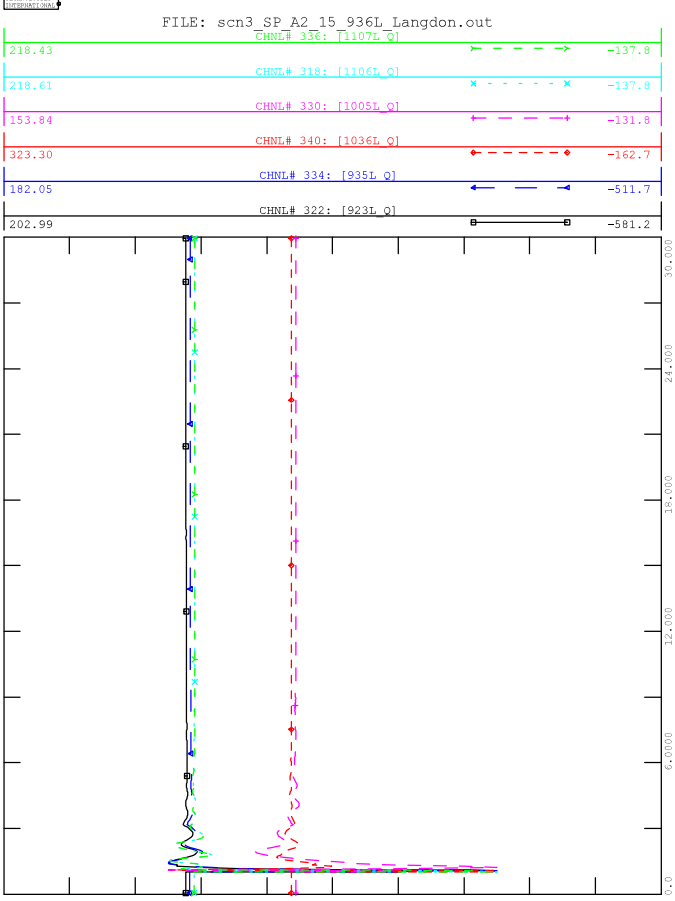
FILE: scn3_SP_A2_15_936L_Langdon.out



SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

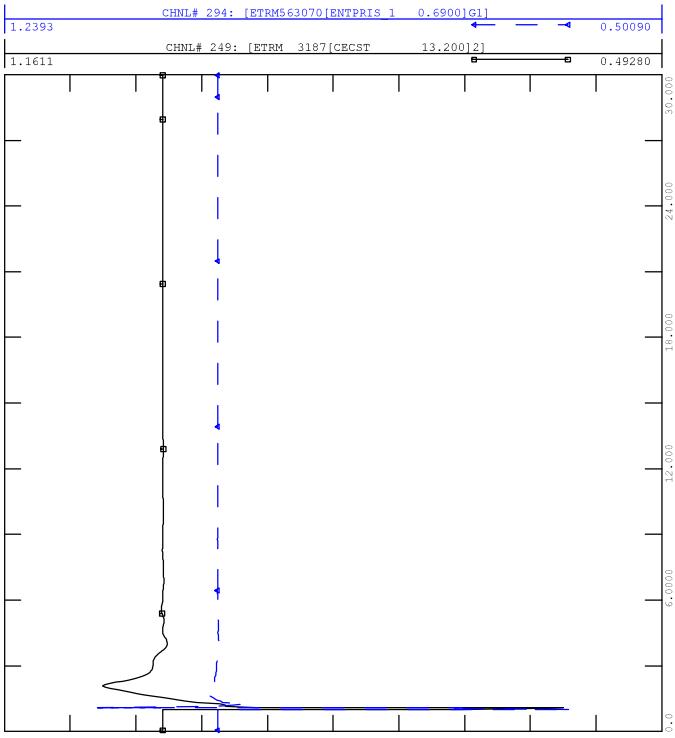
FILE: scn3_SP_A2_15_936L_Langdon.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

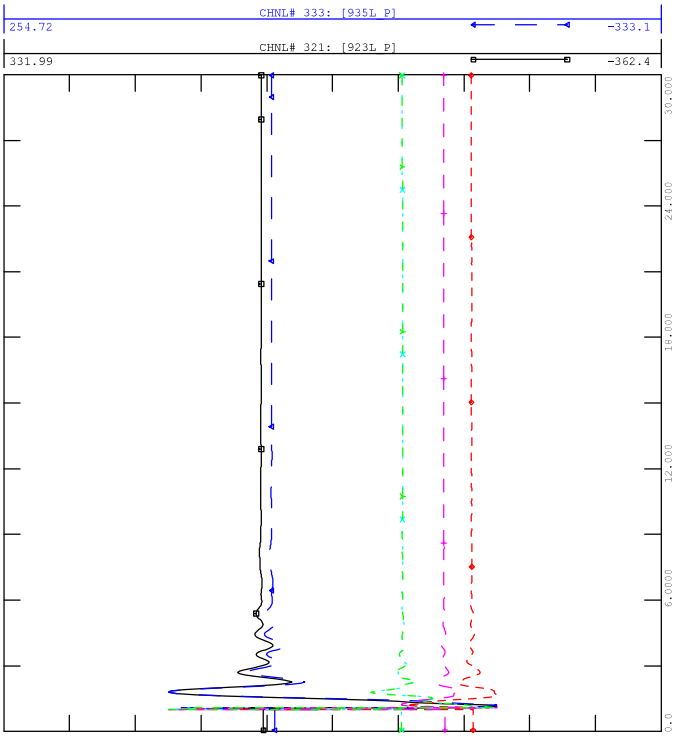
FILE: scn3_SP_A2_15_936L_Langdon.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out



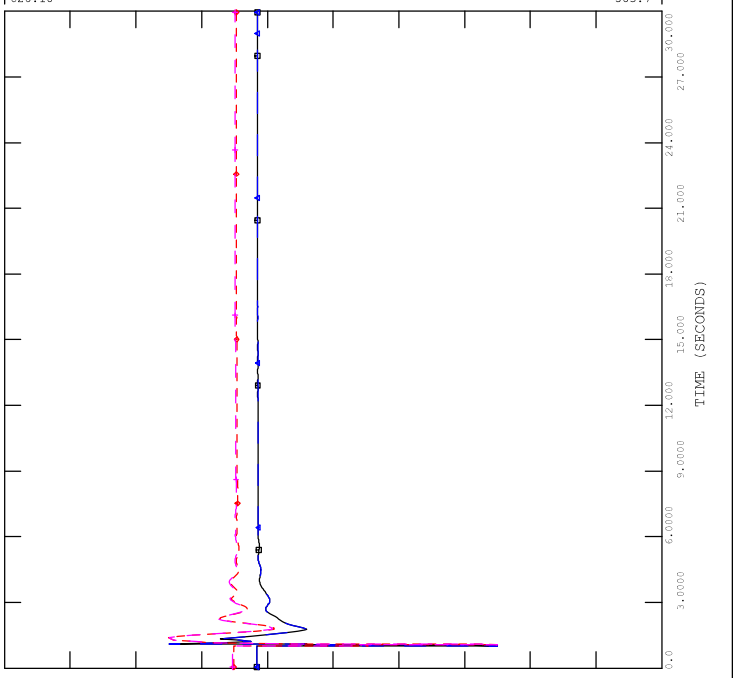
SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH Q

CHNL# 356: [927L A2 1 Q] 290.38 -258.7
CHNL# 338: [924L A2 1 Q] 293.42 -253.0
CHNL# 324: [1003L Q] 612.52 -576.9
CHNL# 348: [985L Q] 620.18 -583.7

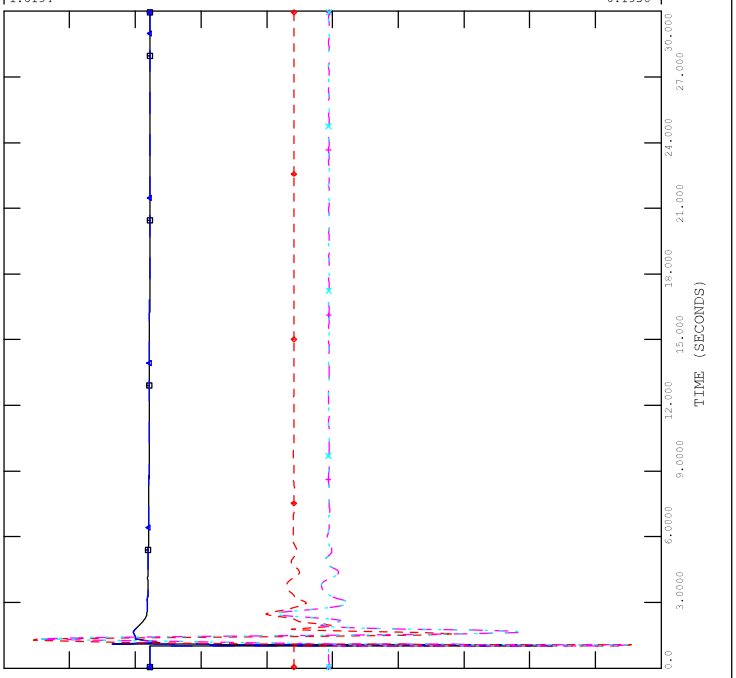


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3] 4.2349 0.22750
CHNL# 100: [POWR 774[SECCT1 21.000]2] 4.2349 0.22750
CHNL# 99: [POWR 773[SECST 20.000]1] 5.0678 0.39060
CHNL# 124: [POWR972378[0.7000]G1] 1.0193 -0.1935
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1] 1.0194 -0.1936

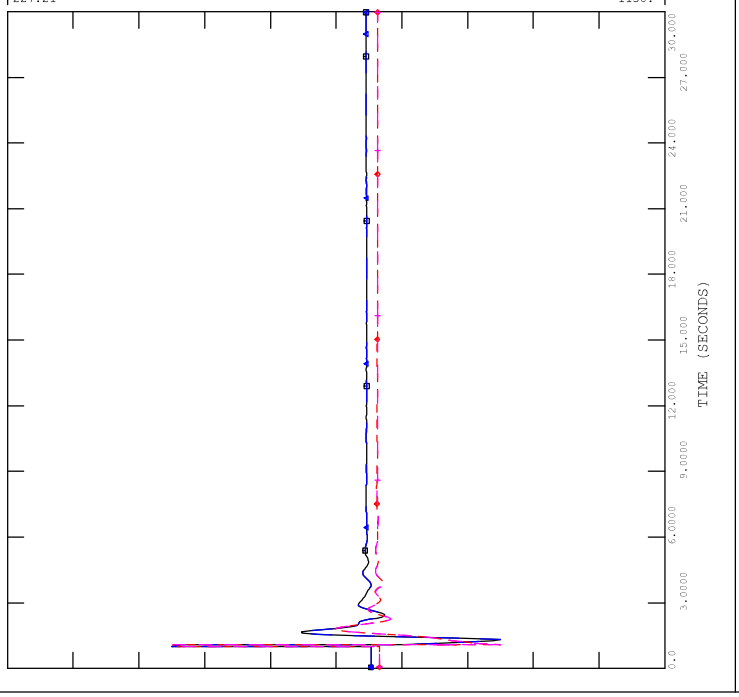


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_15_936L_LANGDON

FILE: scn3_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 355: [927L A2 1 P] 271.99 -842.2
CHNL# 337: [924L A2 1 P] 270.55 -838.2
CHNL# 323: [1003L P] 224.89 -1117.
CHNL# 347: [985L P] 227.21 -1130.

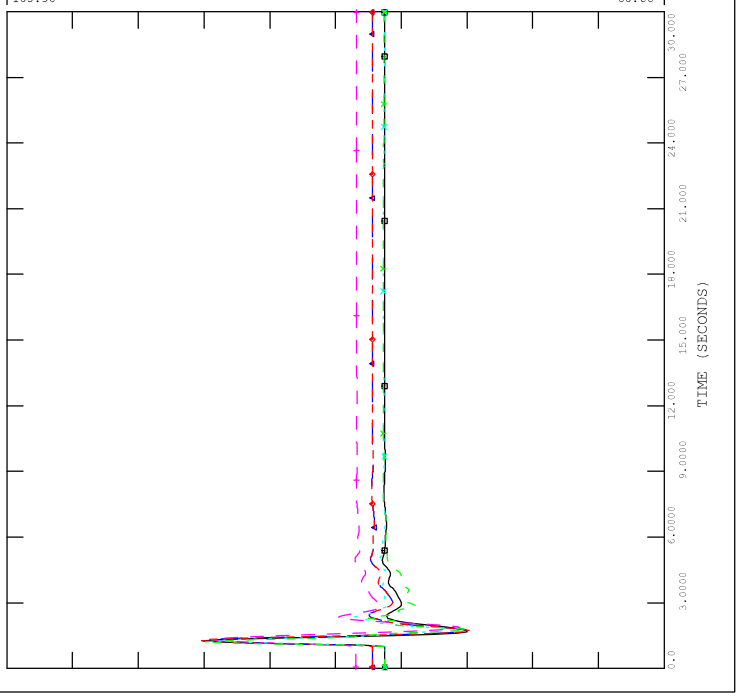


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSBLAZ 13.800]2] 97.352 -70.06
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 86.224 -72.02
CHNL# 4: [ANGL 3187[CECST 13.200]2] 80.467 -80.38
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 103.06 -65.93
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 103.06 -65.93
CHNL# 1: [ANGL 773[SECST 20.000]1] 105.90 -60.66



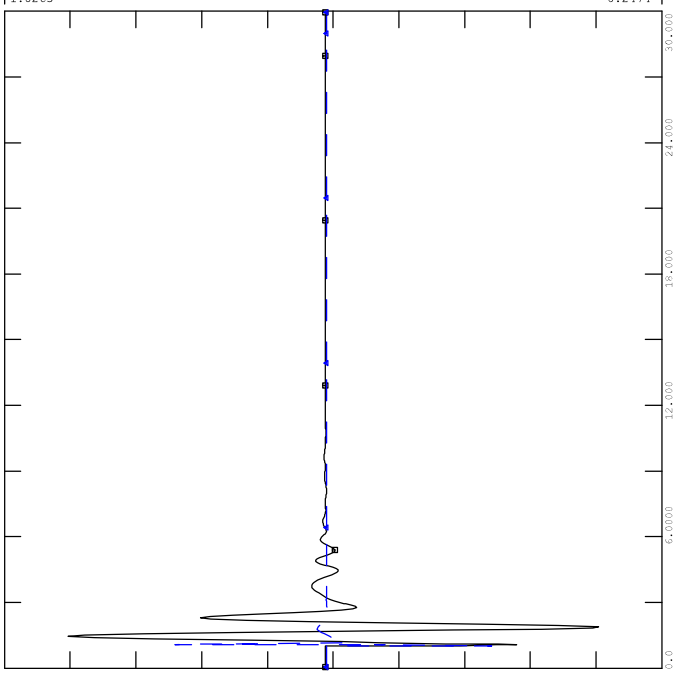
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.70320 -0.0693
CHNL# 102: [POWR 3187[CECST 13.200]2]
1.8263 -0.2474

TIME (SECONDS)



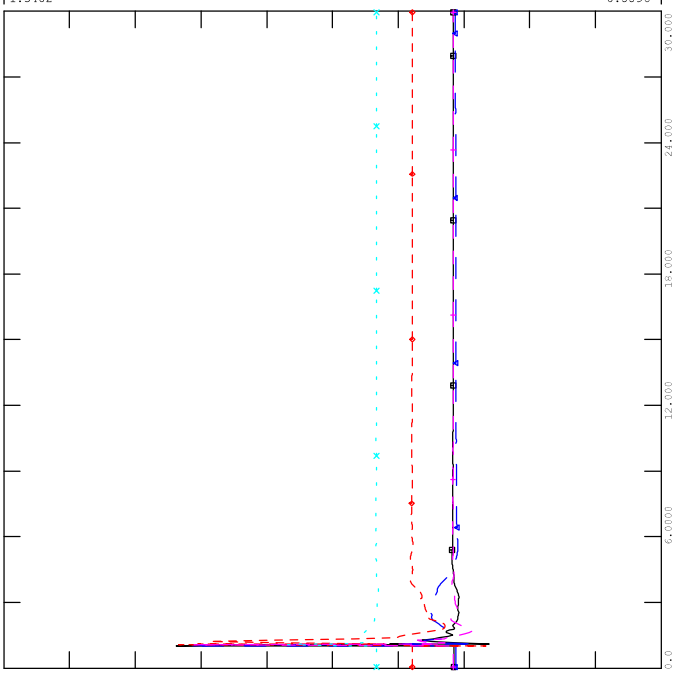
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.52970 -0.6323
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1477 -0.5880
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
1.5961 -0.2810
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
1.2839 -0.5088
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
1.3482 -0.5596

TIME (SECONDS)



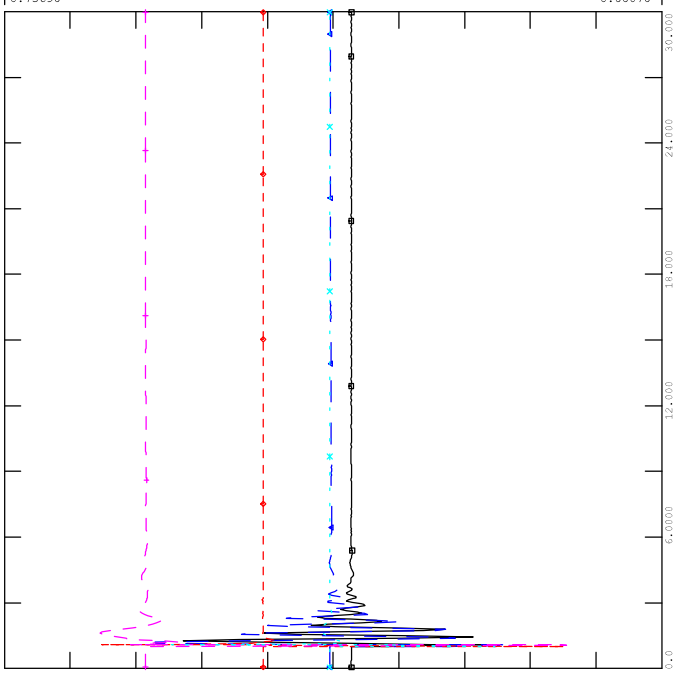
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.67960 -0.1071
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.5704 0.19520
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3029 -0.0424
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.78710 -0.0862
CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.73690 0.00070

TIME (SECONDS)



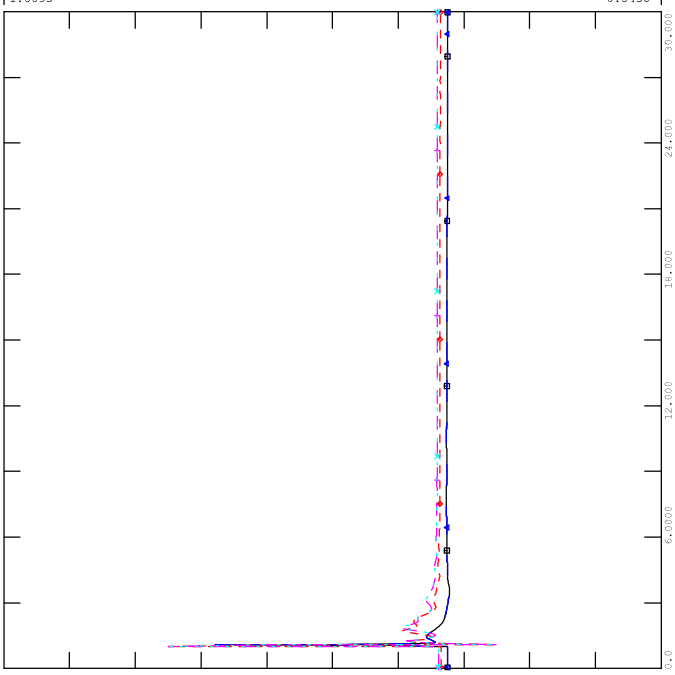
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3]
6.0329 -3.236
CHNL# 149: [VARS 774[SECCT1 21.000]2]
6.0329 -3.236
CHNL# 148: [VARS 773[SECST 20.000]1]
7.5513 -3.897
CHNL# 173: [VARS972378[0.7000]G1]
1.0096 -0.5435
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
1.0093 -0.5438

TIME (SECONDS)



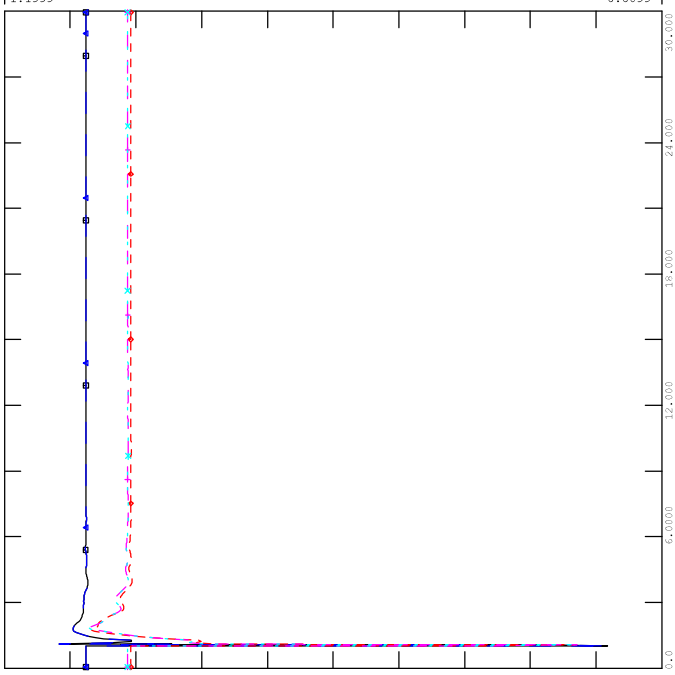
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1451 0.37160
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1451 0.37160
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1456 0.38790
CHNL# 271: [ETRM972378[0.7000]G1]
1.1999 -0.0098
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1999 -0.0099



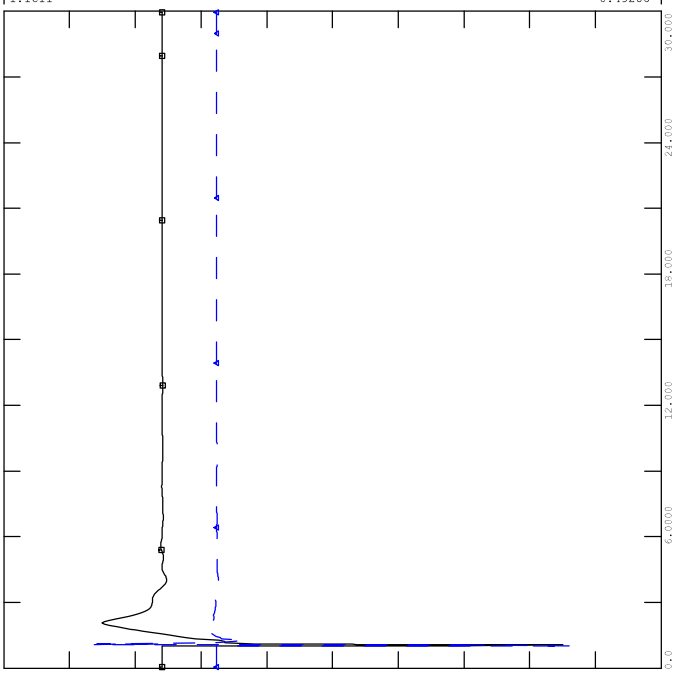
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2391 0.50090
CHNL# 249: [ETRM 3187[CECST 13.200]2]
1.1611 0.49280



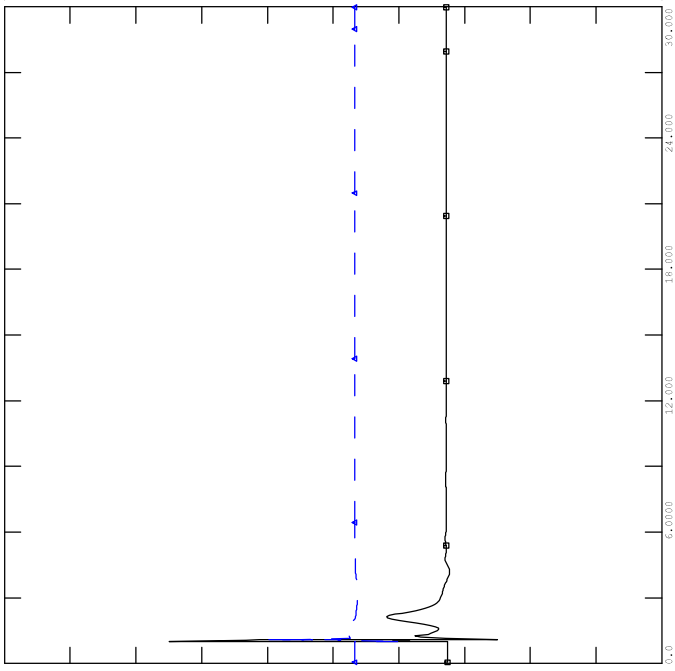
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
0.89300 -0.3666
CHNL# 151: [VARS 3187[CECST 13.200]2]
3.1984 -1.313



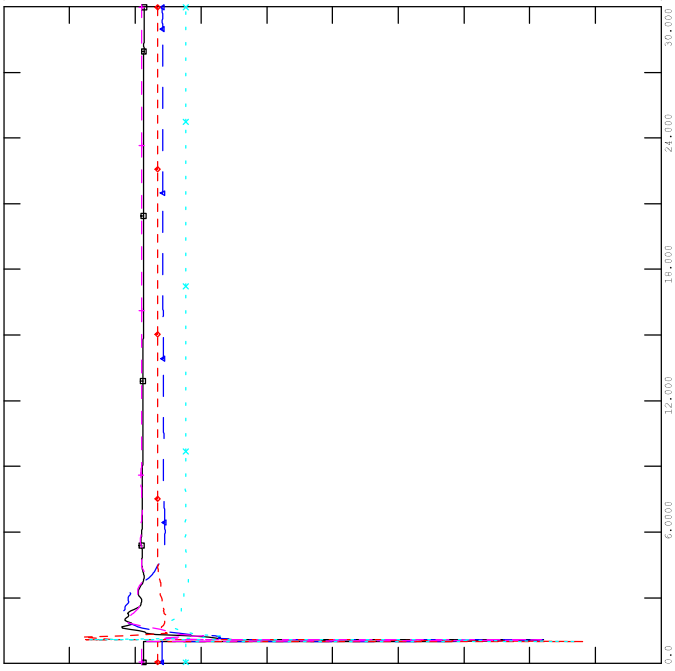
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

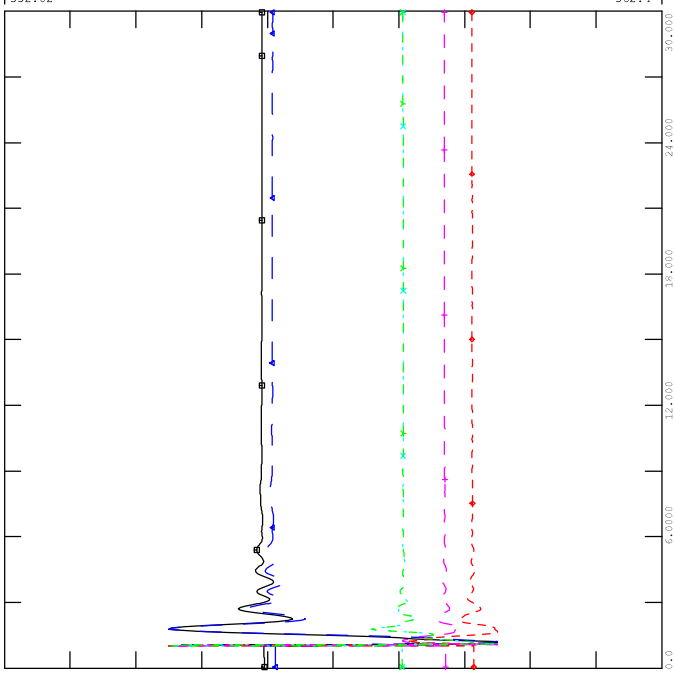
CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2153 0.43690
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1395 0.59250
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2956 0.46000
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1650 0.60390
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1587 0.60130



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

CHNL# 335: [1107L P]
107.08 -617.7
CHNL# 317: [1106L P]
107.07 -617.7
CHNL# 329: [1005L P]
130.63 -593.6
CHNL# 339: [1036L P]
65.964 -456.0
CHNL# 333: [935L P]
254.76 -333.1
CHNL# 321: [923L P]
332.02 -362.4

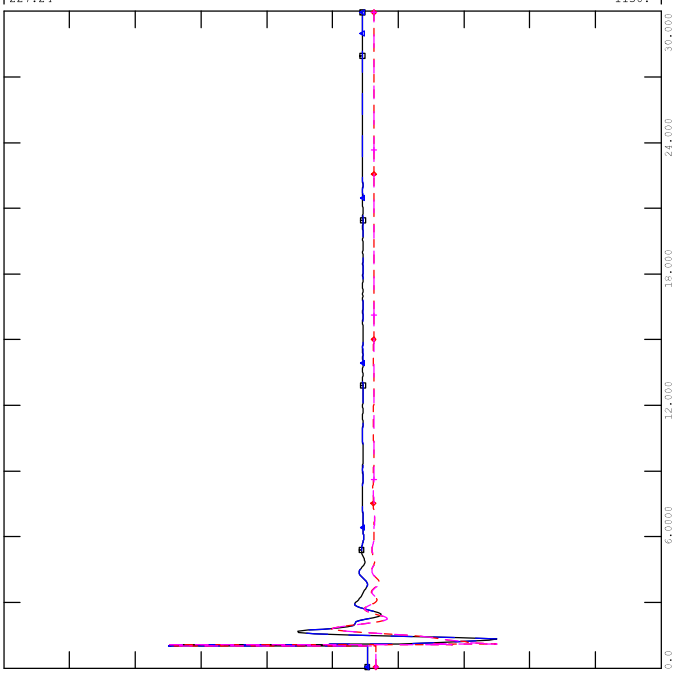


SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

CHNL# 355: [927L A2 1 P]
272.01 -842.2
CHNL# 337: [924L A2 1 P]
270.57 -838.1
CHNL# 323: [1003L P]
224.91 -1117.
CHNL# 347: [985L P]
227.24 -1130.

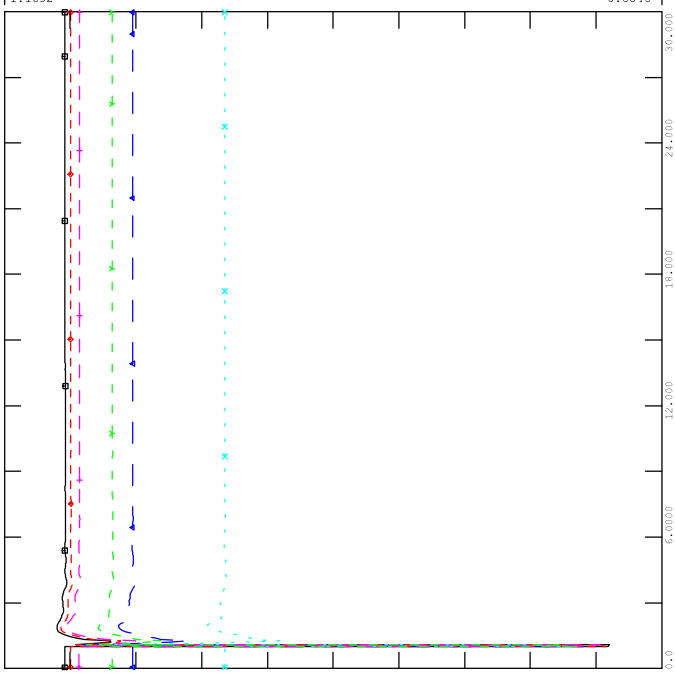


SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

FILE: scn3_SP_A2_16_937L_Langdon.out

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1610 0.35810
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.2808 0.57160
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1771 0.11750
CHNL# 316: [VOLT 902378 [924L_TAP 240.00]]
1.1674 -0.0019
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2039 0.37080
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1692 -0.0846

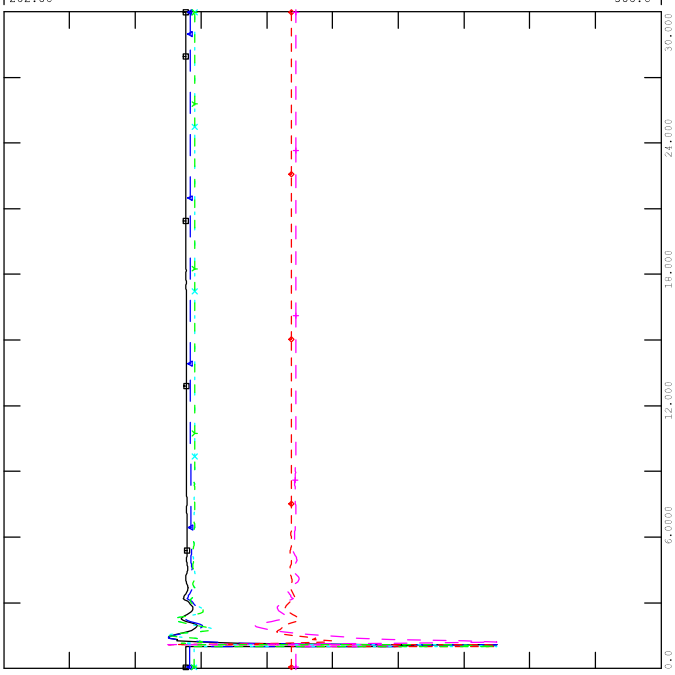


SAT, MAY 21 2022 1:16
BUS VOLTAGE

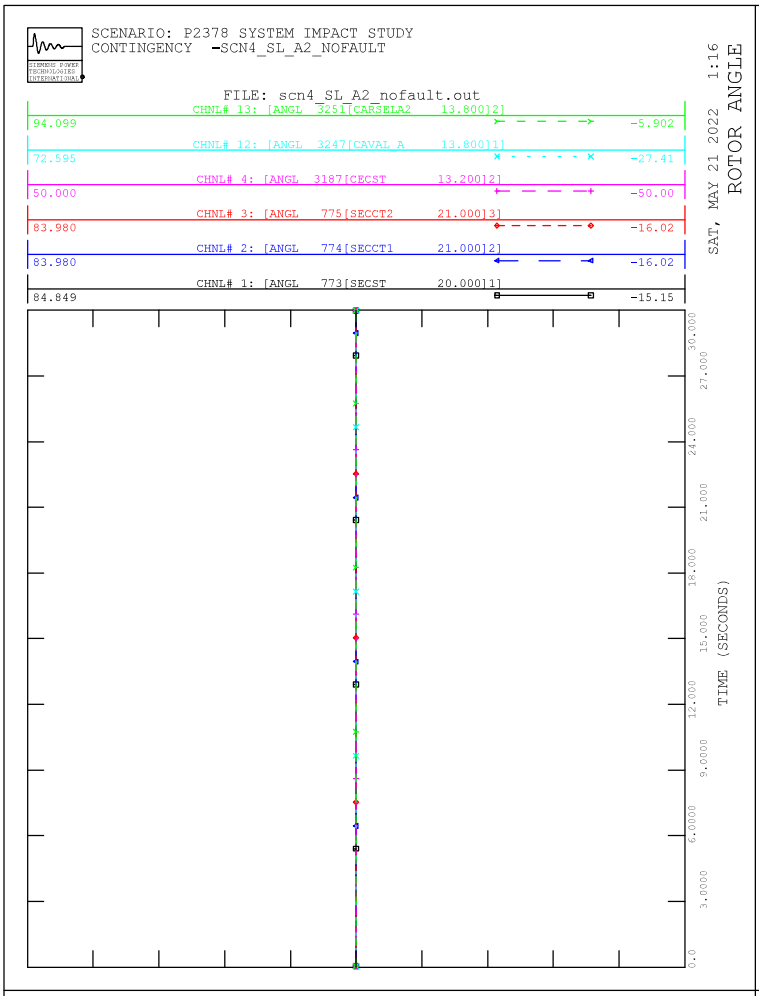
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON

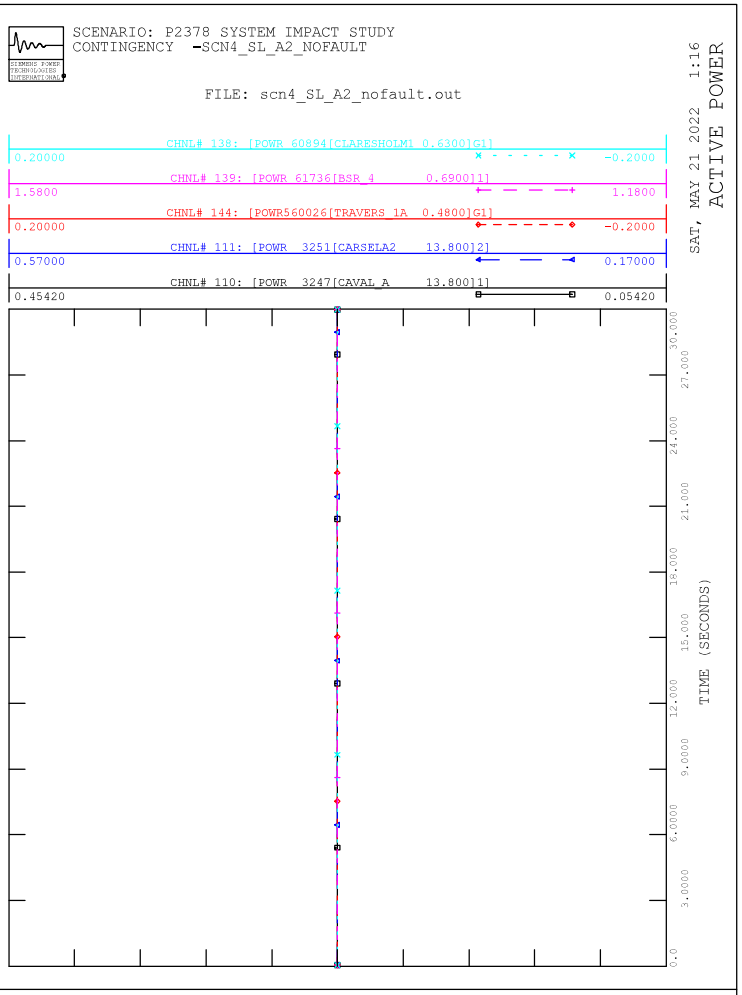
FILE: scn3_SP_A2_16_937L_Langdon.out

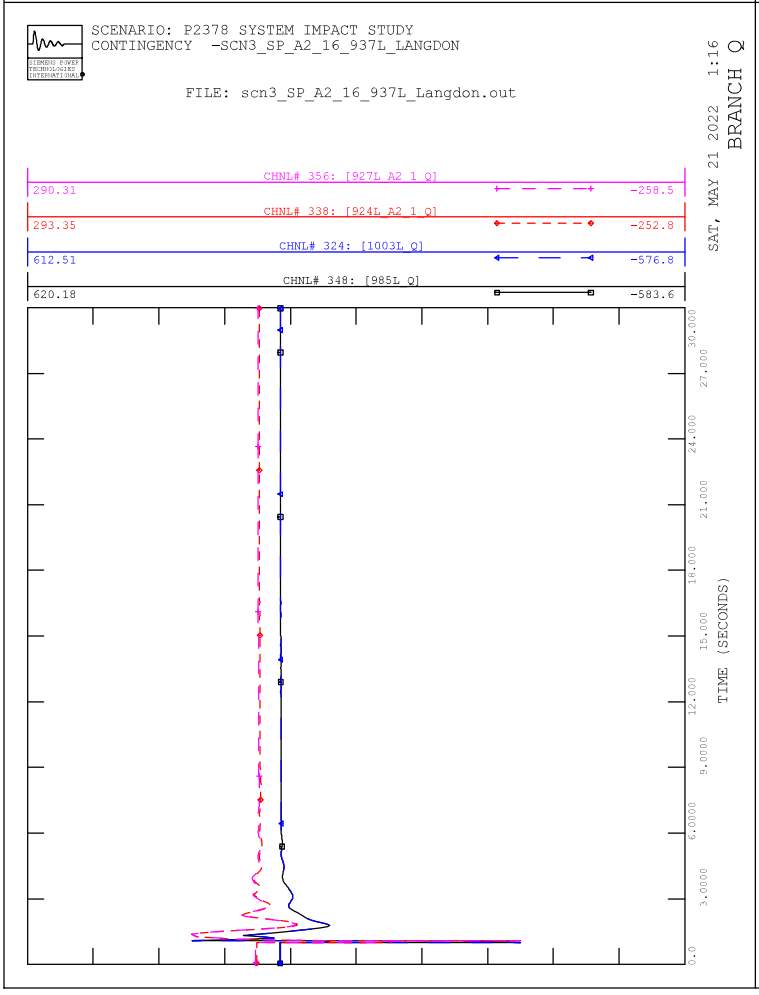
CHNL# 336: [1107L Q]
218.45 -137.8
CHNL# 318: [1106L Q]
218.62 -137.8
CHNL# 330: [1005L Q]
153.79 -131.8
CHNL# 340: [1036L Q]
323.33 -162.7
CHNL# 334: [935L Q]
181.90 -511.2
CHNL# 322: [923L Q]
202.80 -580.6

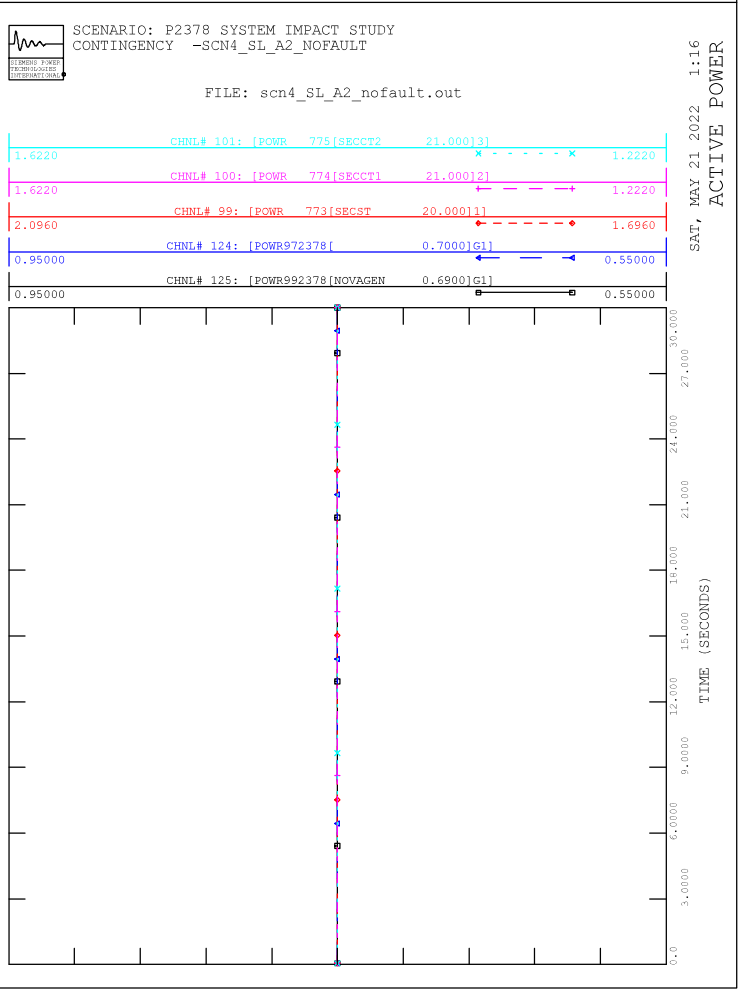


SAT, MAY 21 2022 1:16
BRANCH Q


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT
FILE: scn4_SL_A2_nofault.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
94.099
-5.902
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
72.595
-27.41
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
83.980
-16.02
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
83.980
-16.02
CHNL# 1: [ANGL 773[SECST 20.000]1]
84.849
-15.15
SAT, MAY 21 2022 1:16
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT
FILE: scn4_SL_A2_nofault.out
CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.5800
1.1800
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.57000
0.17000
CHNL# 110: [POWR 3247[CAVAL_A 13.800]1]
0.45420
0.05420
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

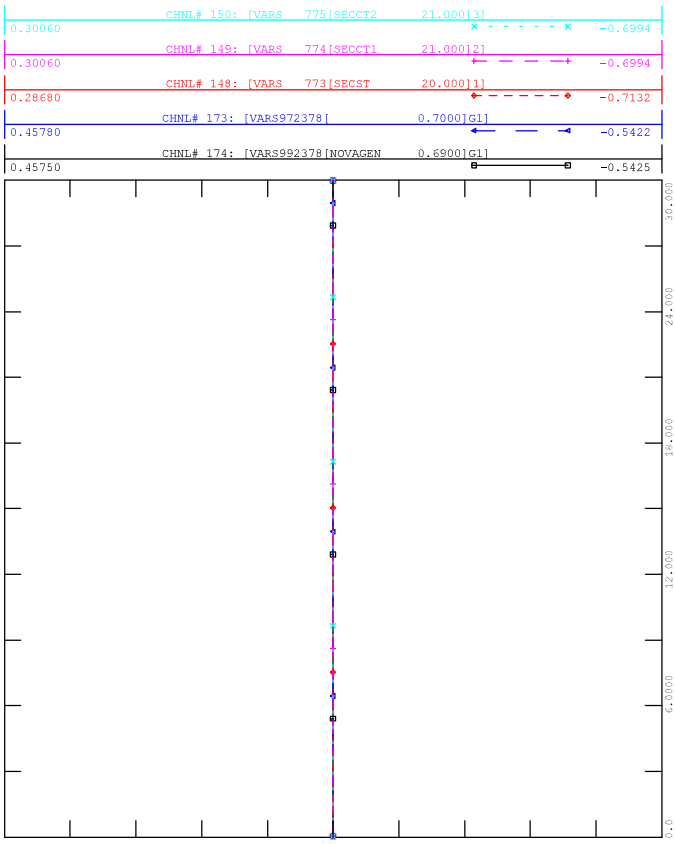

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN3_SP_A2_16_937L_LANGDON
FILE: scn3_SP_A2_16_937L_Langdon.out
CHNL# 356: [927L A2 1 Q]
290.31
-258.5
CHNL# 338: [924L_A2 1 Q]
293.35
-252.8
CHNL# 324: [1003L Q]
612.51
-576.8
CHNL# 348: [985L Q]
620.18
-583.6
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT
FILE: scn4_SL_A2_nofault.out
CHNL# 101: [POWR 775[SECCT2 21.000]3]
1.6220
1.2220
CHNL# 100: [POWR 774[SECCT1 21.000]2]
1.6220
1.2220
CHNL# 99: [POWR 773[SECST 20.000]1]
2.0960
1.6960
CHNL# 124: [POWR972378[0.7000]G1]
0.95000
0.55000
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
0.95000
0.55000
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT

FILE: scn4_SL_A2_nofault.out

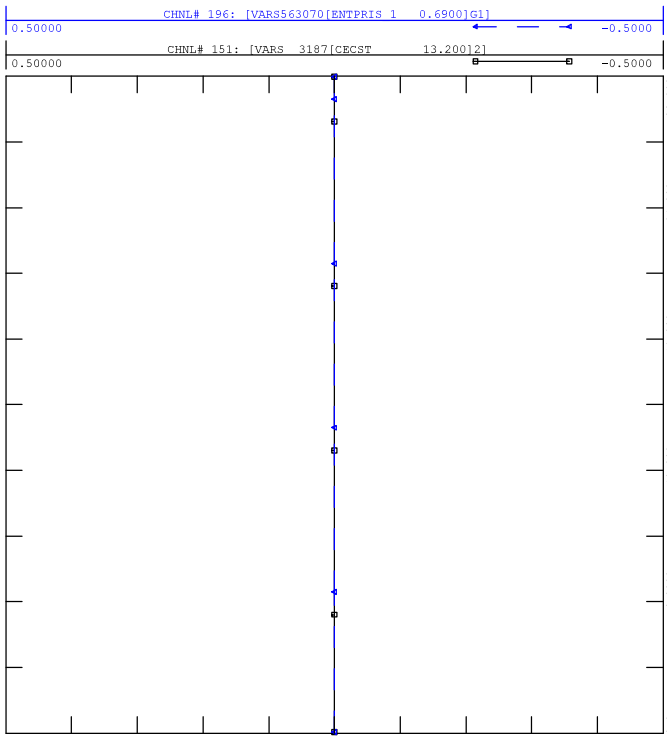
SAT, MAY 21 2022 1:16 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT

FILE: scn4_SL_A2_nofault.out

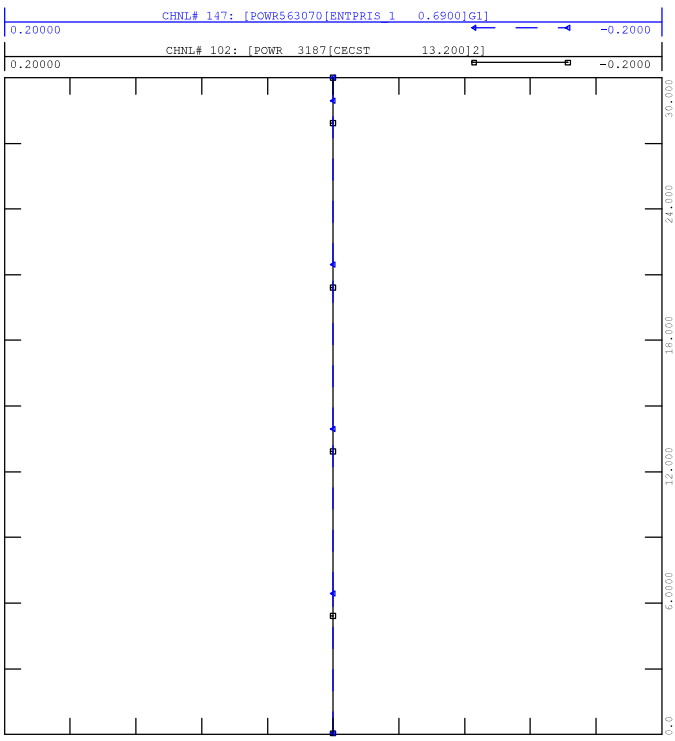
SAT, MAY 21 2022 1:16 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT

FILE: scn4_SL_A2_nofault.out

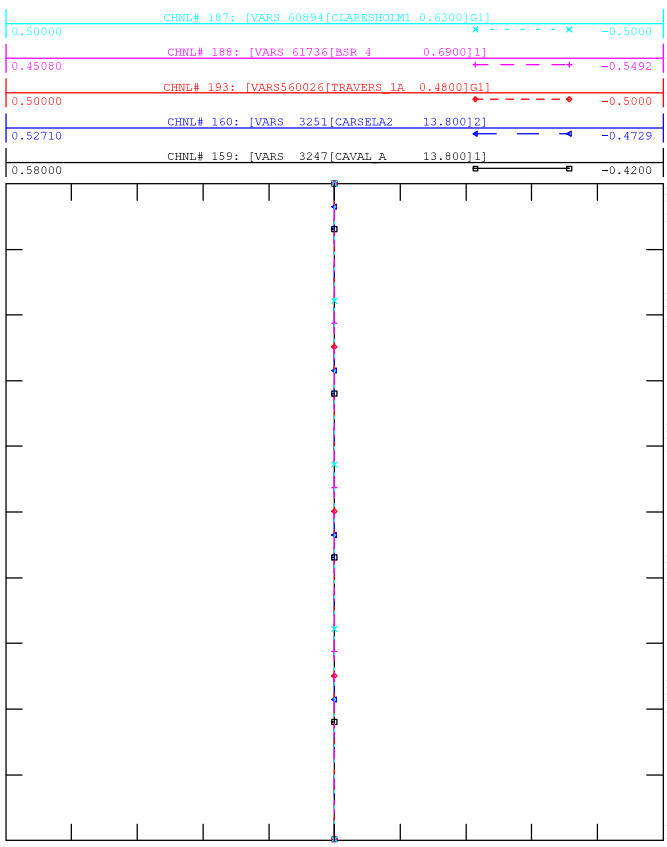
SAT, MAY 21 2022 1:16 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT

FILE: scn4_SL_A2_nofault.out

SAT, MAY 21 2022 1:16 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT

FILE: scn4_SL_A2_nofault.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

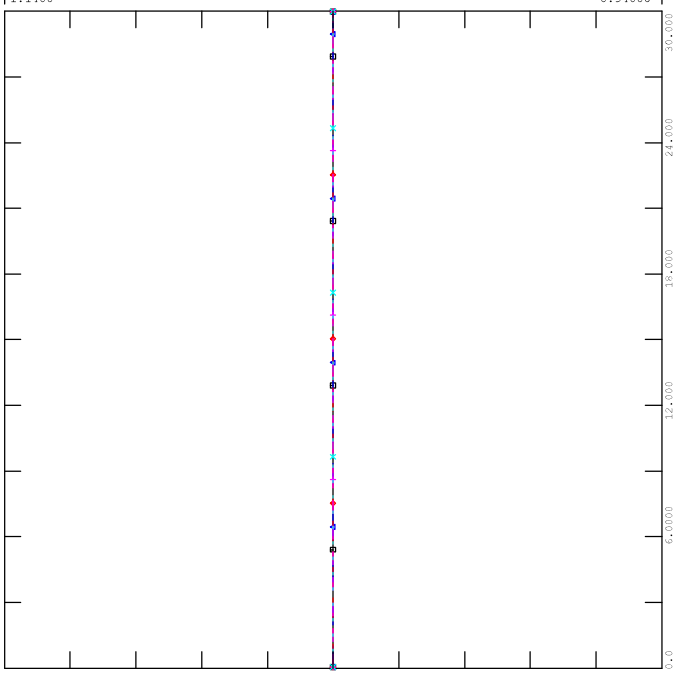
CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000

CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1000 0.90000

CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000

CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1300 0.93000

CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1400 0.94000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT

FILE: scn4_SL_A2_nofault.out

SAT, MAY 21 2022 1:16

BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1390 0.93900

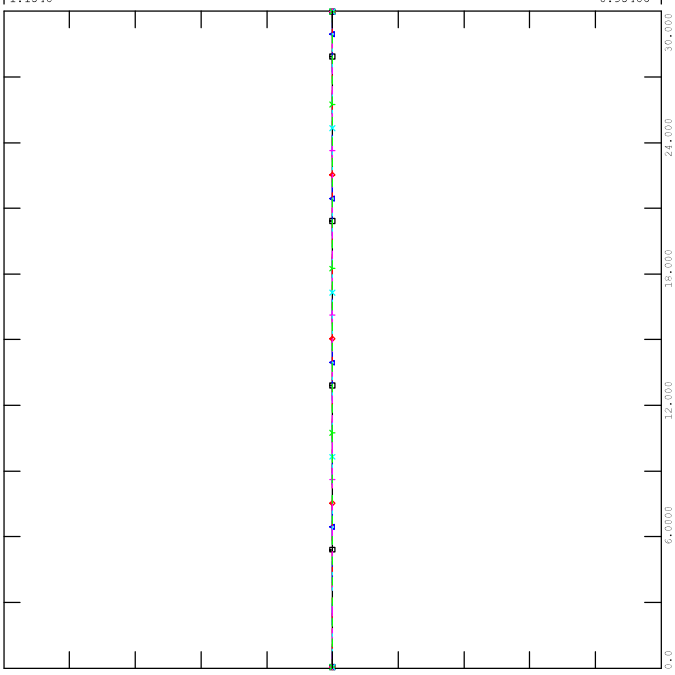
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.1494 0.94940

CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1592 0.95920

CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1507 0.95070

CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.1436 0.94360

CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1540 0.95400



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT

FILE: scn4_SL_A2_nofault.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

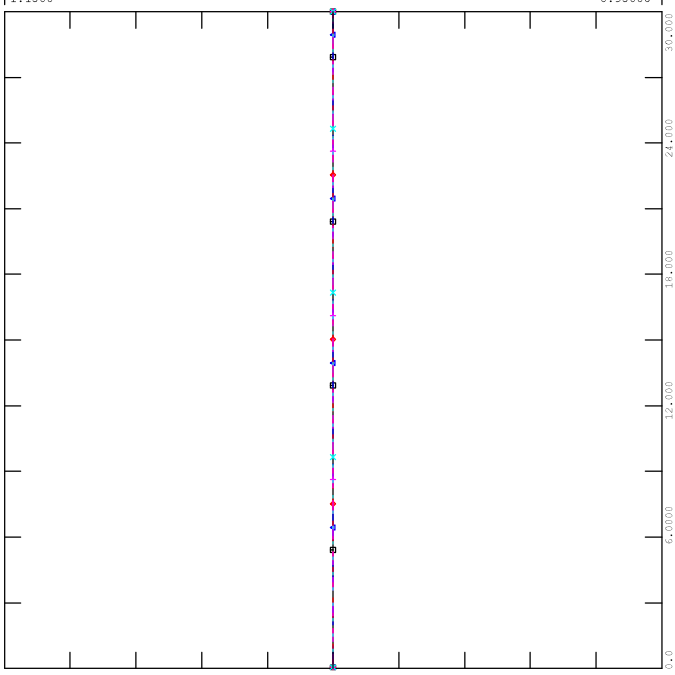
CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1000 0.90000

CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1000 0.90000

CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1000 0.90000

CHNL# 271: [ETRM972378[0.7000]G1]
1.1500 0.95000

CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 0.95000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT

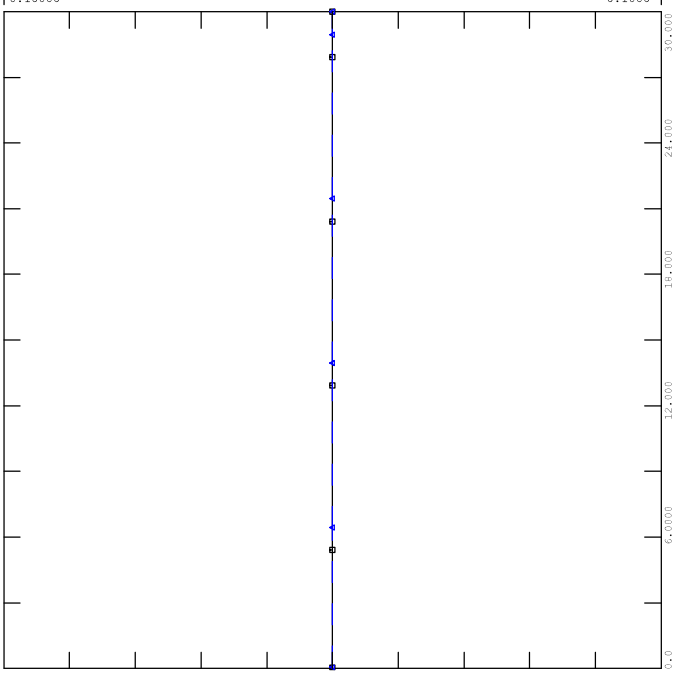
FILE: scn4_SL_A2_nofault.out

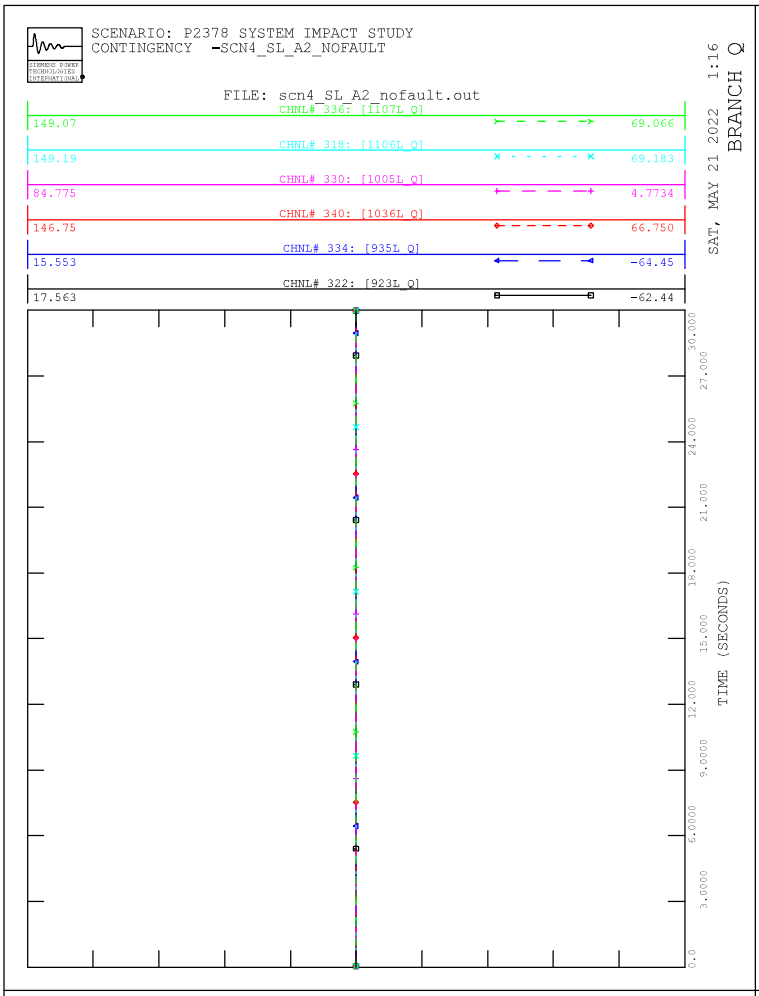
SAT, MAY 21 2022 1:16

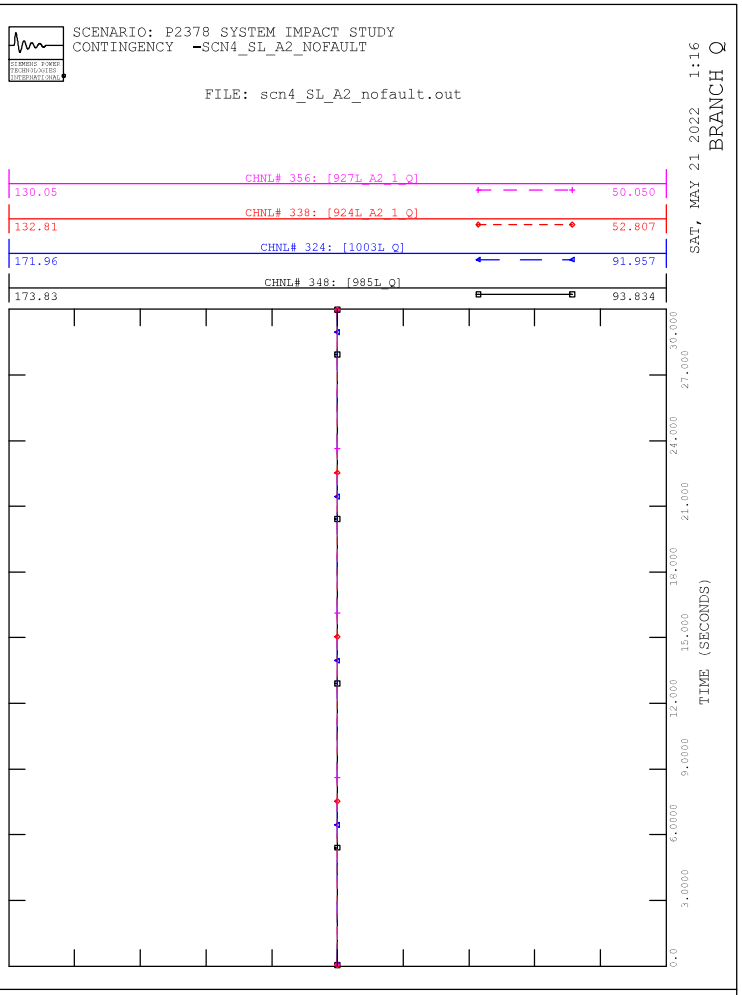
TERMINAL VOLTAGE

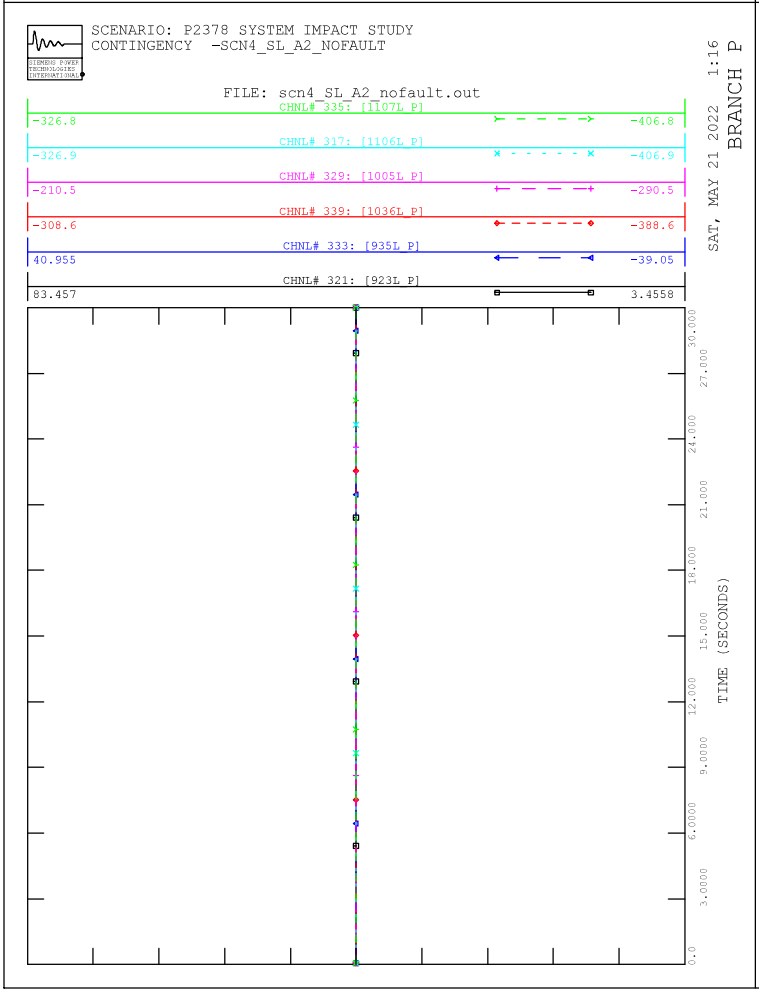
CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000

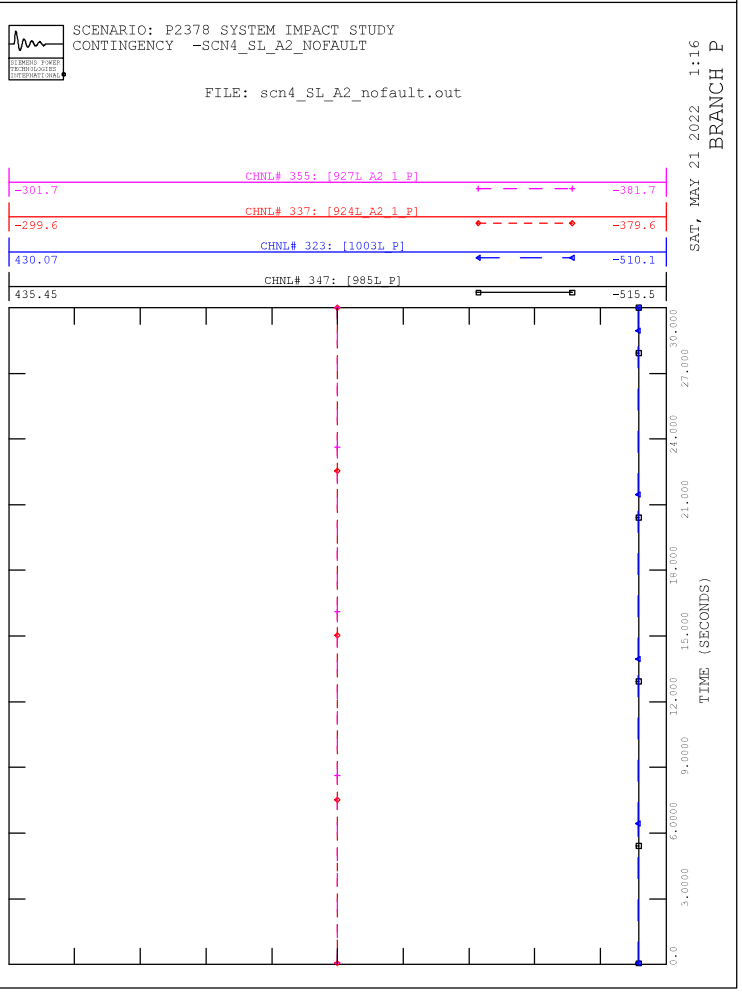
CHNL# 249: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT
FILE: scn4_SL_A2_nofault.out
CHNL# 336: [I107L Q]
149.07
69.066
CHNL# 318: [1106L Q]
149.19
69.183
CHNL# 330: [1005L Q]
84.775
4.7734
CHNL# 340: [1036L Q]
146.75
66.750
CHNL# 334: [935L Q]
15.553
-64.45
CHNL# 322: [923L Q]
17.563
-62.44
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT
FILE: scn4_SL_A2_nofault.out
CHNL# 356: [927L A2 1 Q]
130.05
50.050
CHNL# 338: [924L A2 1 Q]
132.81
52.807
CHNL# 324: [1003L Q]
171.96
91.957
CHNL# 348: [985L Q]
173.83
93.834
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

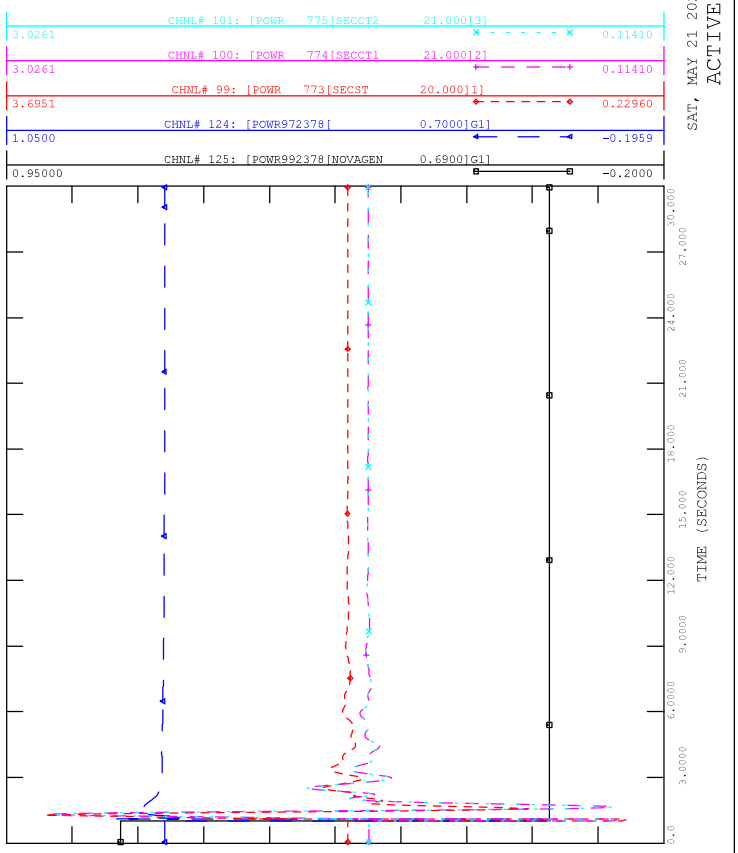

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT
FILE: scn4_SL_A2_nofault.out
CHNL# 335: [I107L P]
-326.8
-406.8
CHNL# 317: [1106L P]
-326.9
-406.9
CHNL# 329: [1005L P]
-210.5
-290.5
CHNL# 339: [1036L P]
-308.6
-388.6
CHNL# 333: [935L P]
40.955
-39.05
CHNL# 321: [923L P]
83.457
3.4558
SAT, MAY 21 2022 1:16
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_NOFAULT
FILE: scn4_SL_A2_nofault.out
CHNL# 355: [927L A2 1 P]
-301.7
-381.7
CHNL# 337: [924L A2 1 P]
-299.6
-379.6
CHNL# 323: [1003L P]
430.07
-510.1
CHNL# 347: [985L P]
435.45
-515.5
SAT, MAY 21 2022 1:16
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

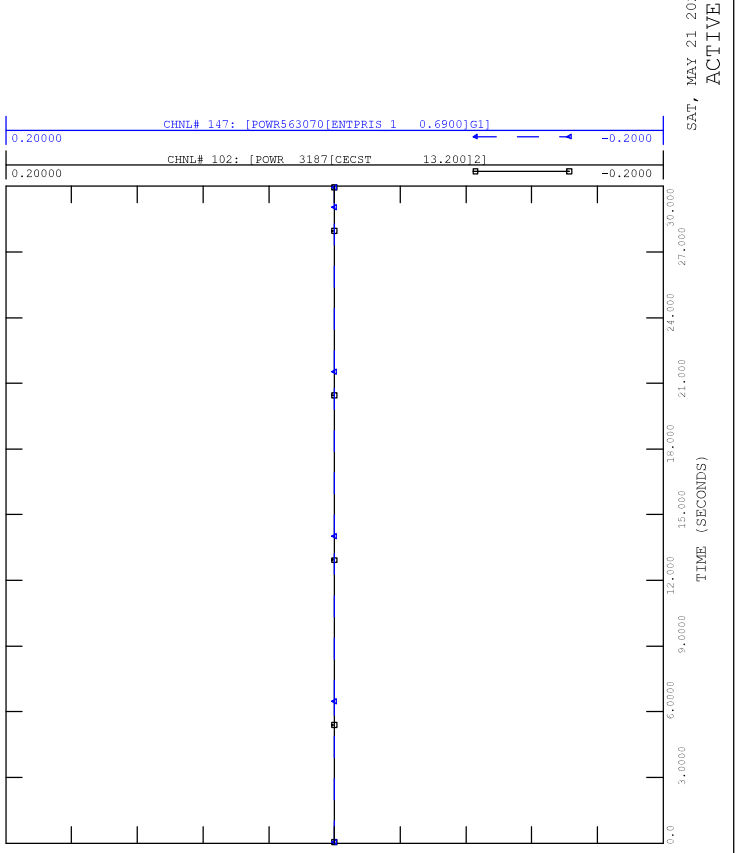
SAT, MAY 21 2022 1:16



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

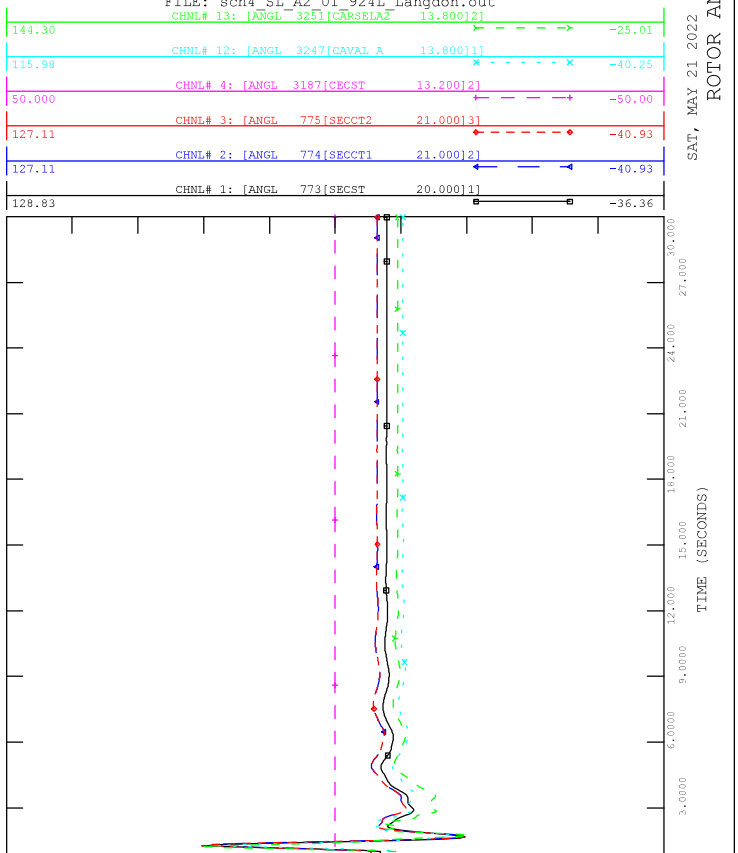
SAT, MAY 21 2022 1:16



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

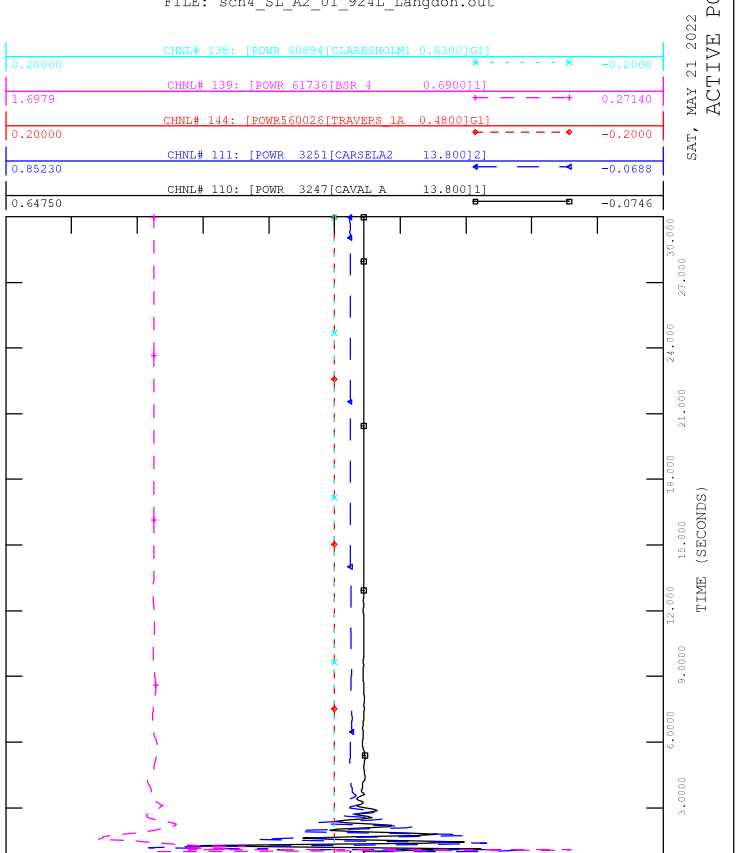
SAT, MAY 21 2022 1:16



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16

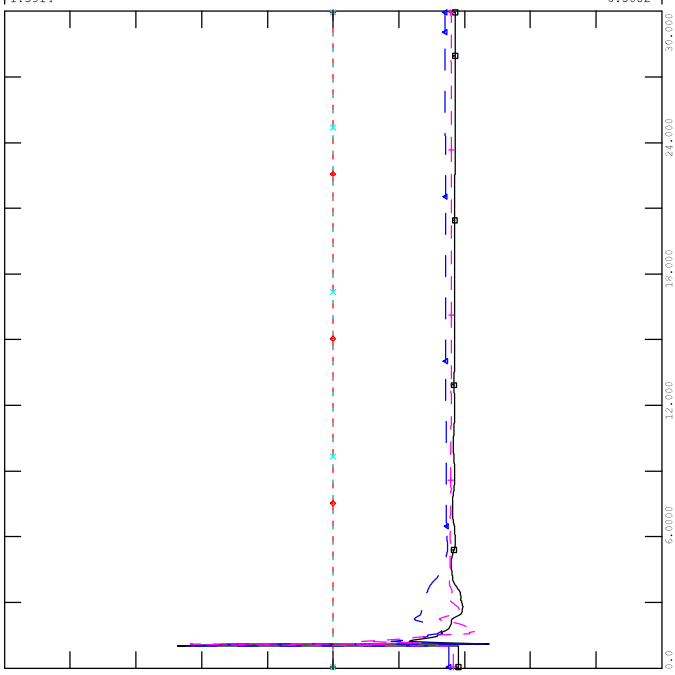


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1582 -0.6100
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
1.2913 -0.5781
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
1.3914 -0.5082

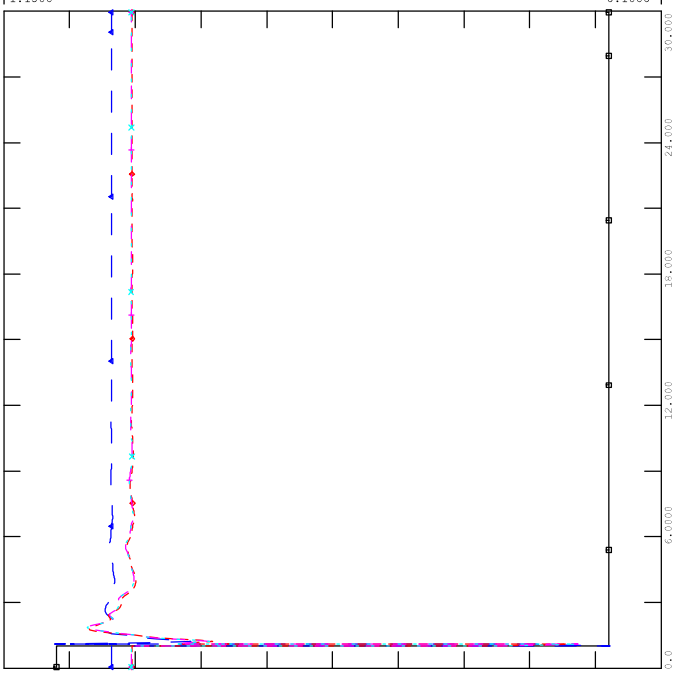


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1530 0.36250
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1530 0.36250
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1508 0.37860
CHNL# 271: [ETRM972378[0.7000]G1]
1.2609 -0.0277
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 -0.1000

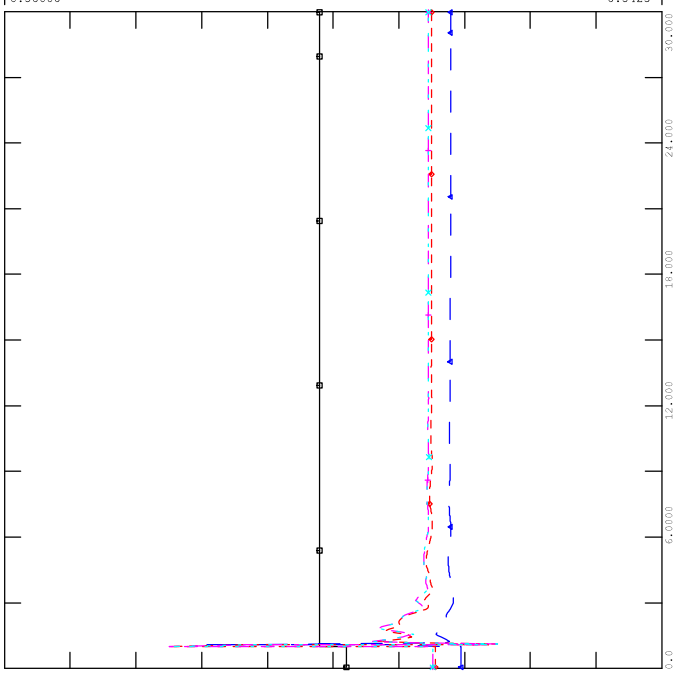


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3]
6.0330 -3.533
CHNL# 149: [VARS 774[SECCT1 21.000]2]
6.0330 -3.533
CHNL# 148: [VARS 773[SECST 20.000]1]
7.5445 -4.285
CHNL# 173: [VARS972378[0.7000]G1]
1.0959 -0.5422
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
0.50000 -0.5425

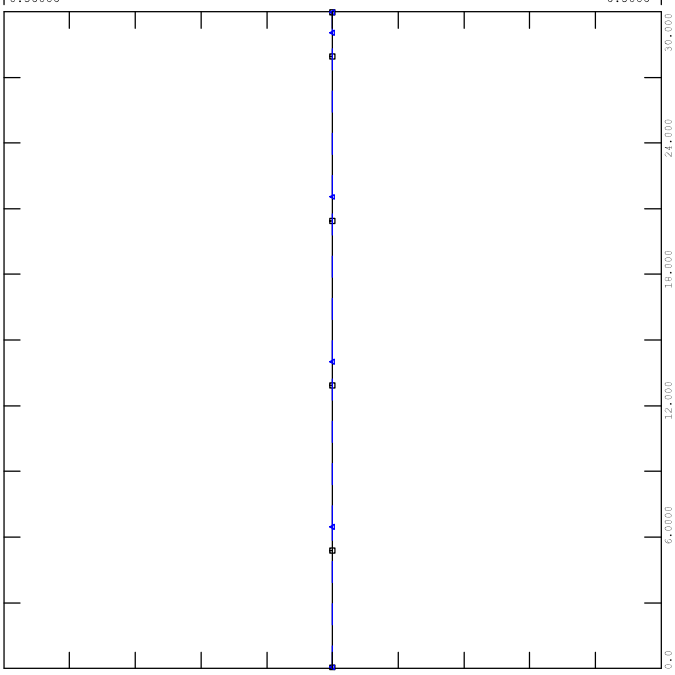


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 151: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1] 0.10000 -0.1000
CHNL# 249: [ETRM 3187[CECST 13.200]2] 0.10000 -0.1000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 335: [1107L P] 155.03 -757.9
CHNL# 317: [1106L P] 155.02 -758.0
CHNL# 329: [1005L P] 90.055 -364.0
CHNL# 339: [1036L P] 69.668 -491.4
CHNL# 333: [935L P] 291.93 -279.0
CHNL# 321: [923L P] 369.53 -316.9

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1] 1.1185 0.52370
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2] 1.1681 0.58610
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1] 1.1594 0.58920

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out

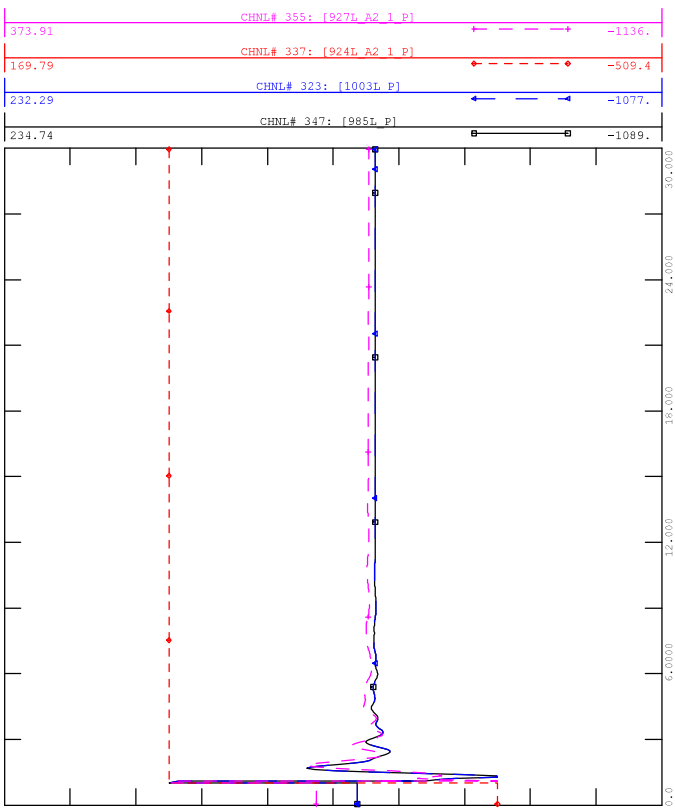
SAT, MAY 21 2022 1:16 BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]] 1.2224 0.29050
CHNL# 313: [VOLT 918 [CASS01 240.00]] 1.3491 0.51470
CHNL# 309: [VOLT 160 [JANET 4 240.00]] 1.1750 0.09710
CHNL# 316: [VOLT 902378 [924L TAP 240.00]] 1.1507 -0.1000
CHNL# 314: [VOLT 943 [MILO 1 240.00]] 1.2736 0.31790
CHNL# 308: [VOLT 159 [LANGDON4 240.00]] 1.1788 -0.0919

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

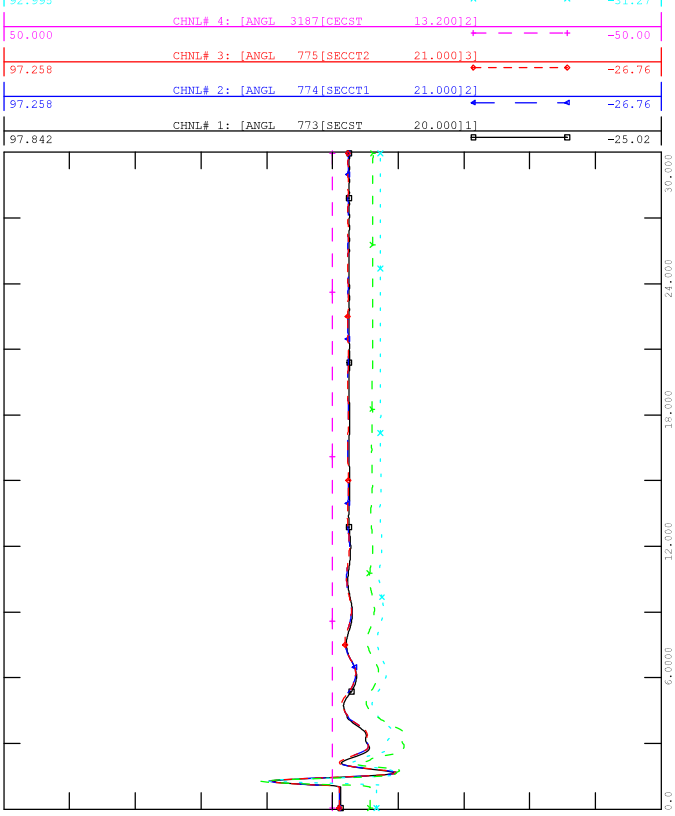
FILE: scn4_SL_A2_01_924L_Langdon.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

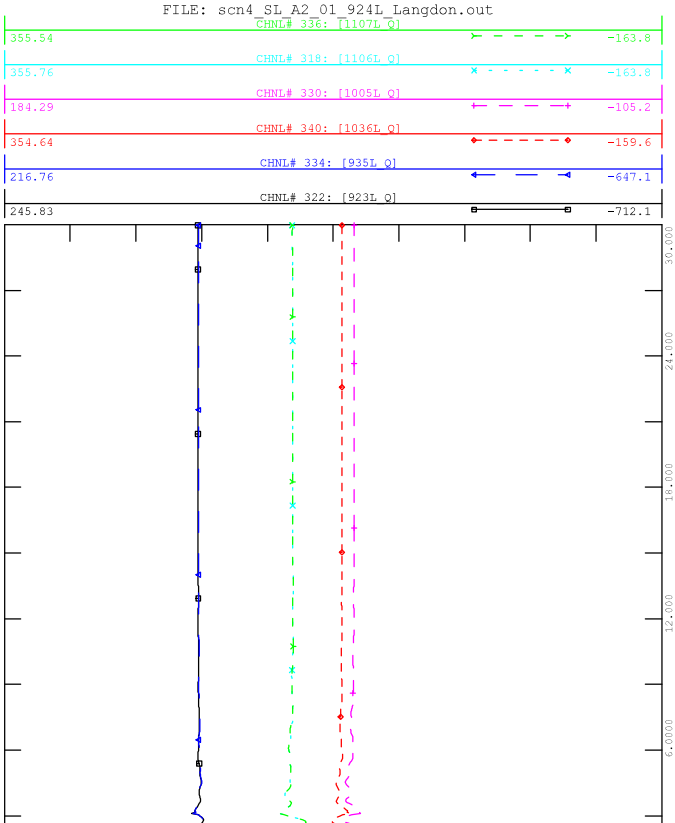
FILE: scn4_SL_A2_02_924L_Milo.out



SAT, MAY 21 2022 1:16
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

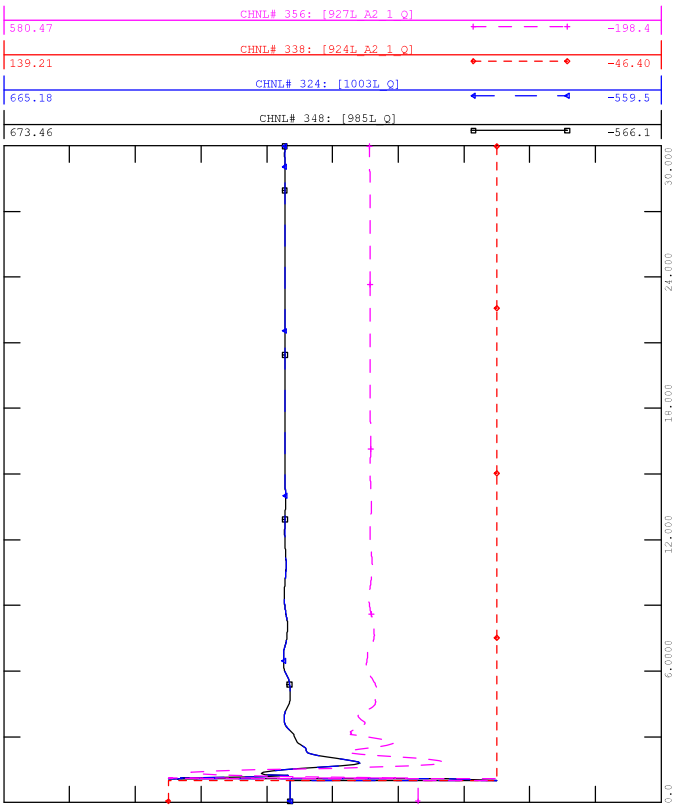
FILE: scn4_SL_A2_01_924L_Langdon.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_01_924L_LANGDON

FILE: scn4_SL_A2_01_924L_Langdon.out



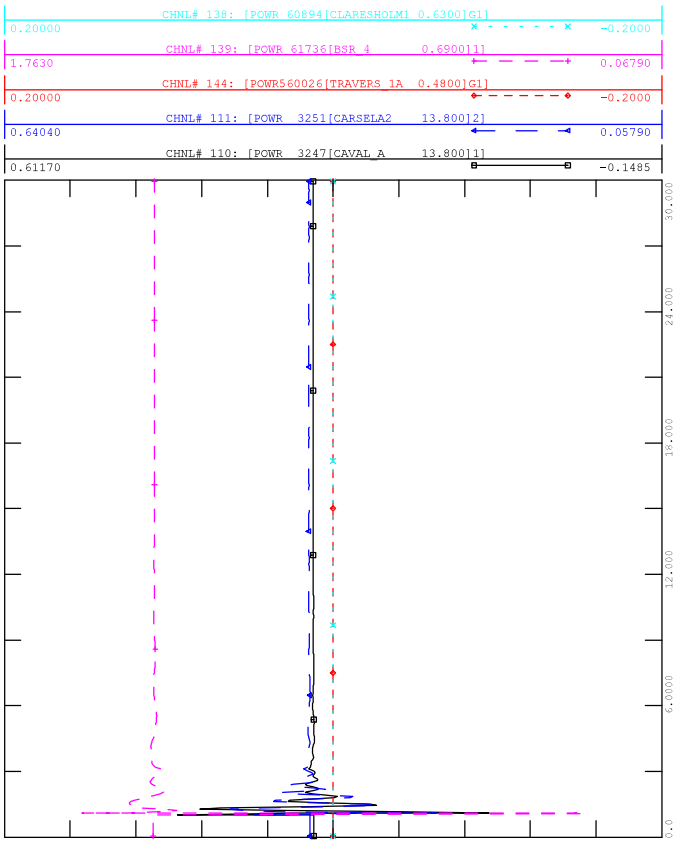
SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

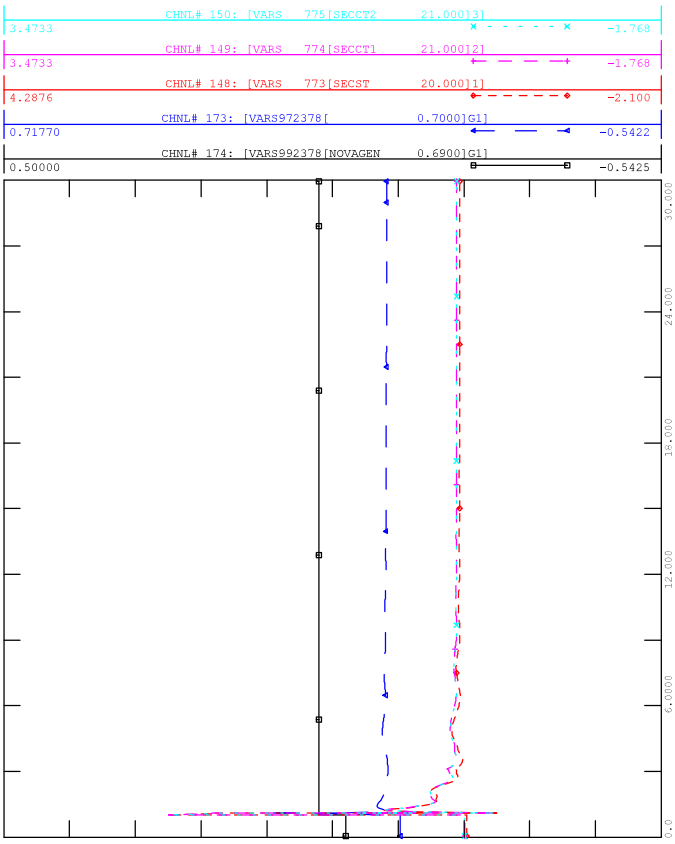


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

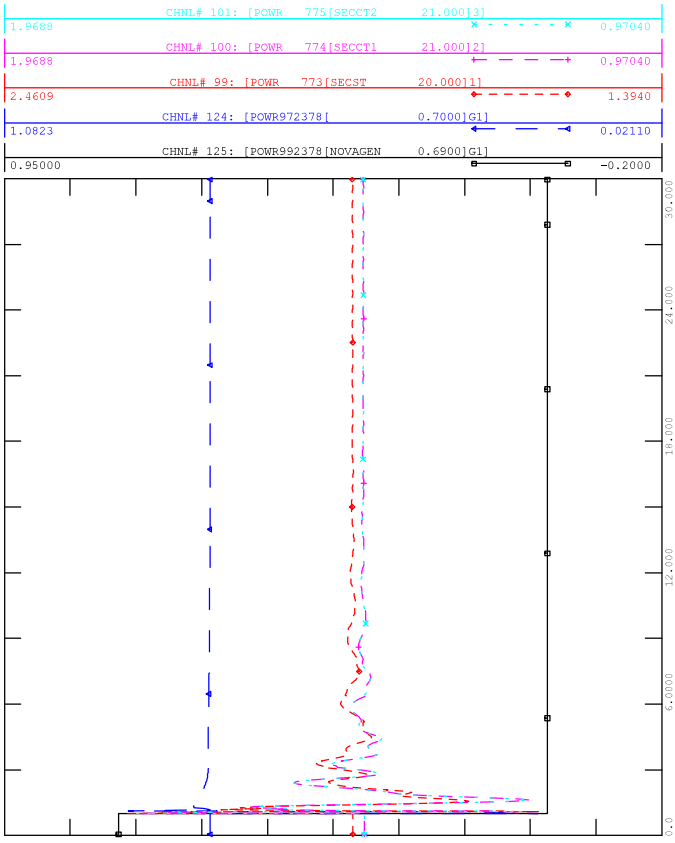


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

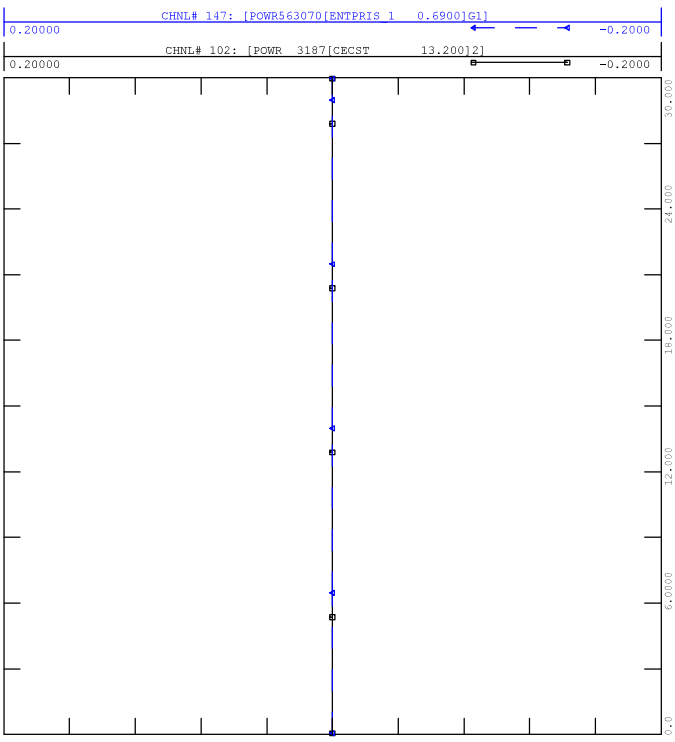


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

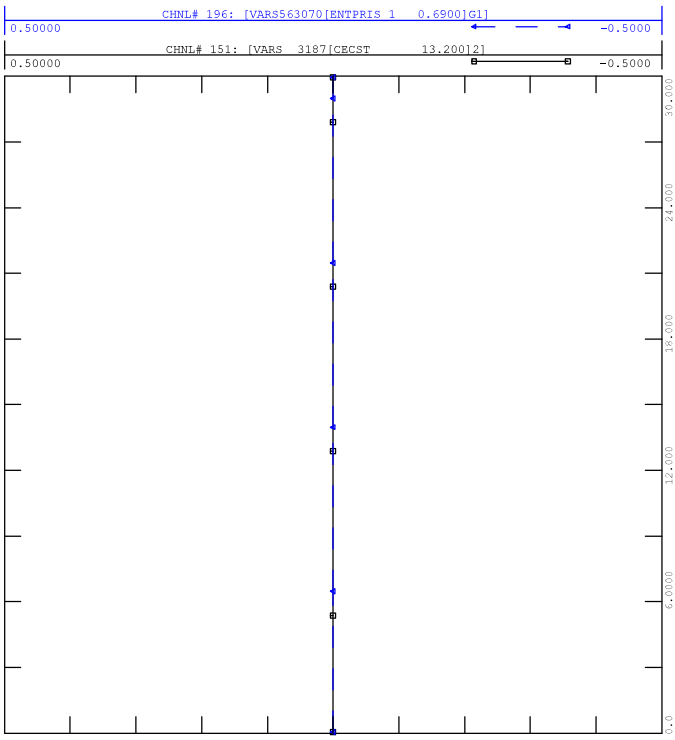


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

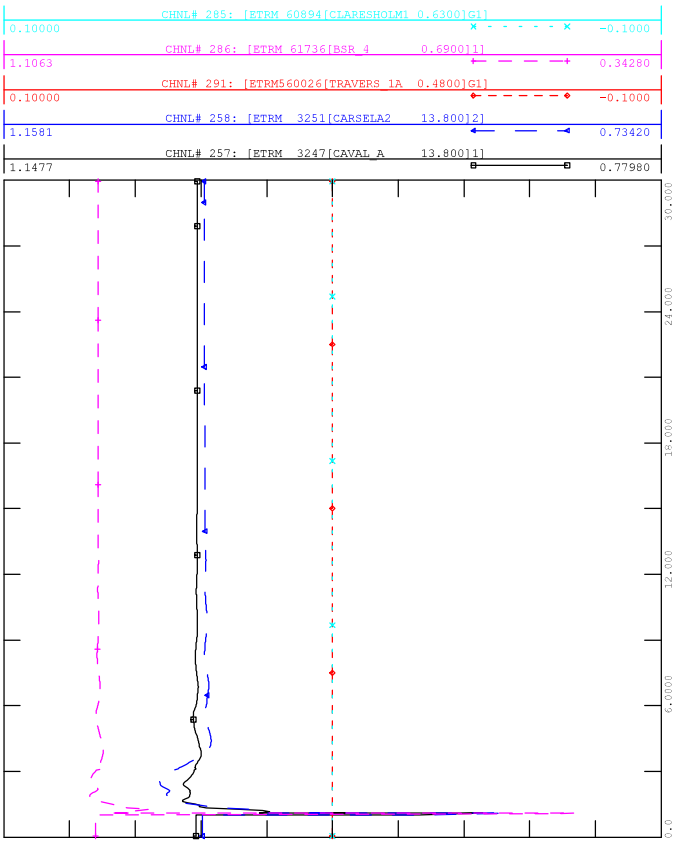


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

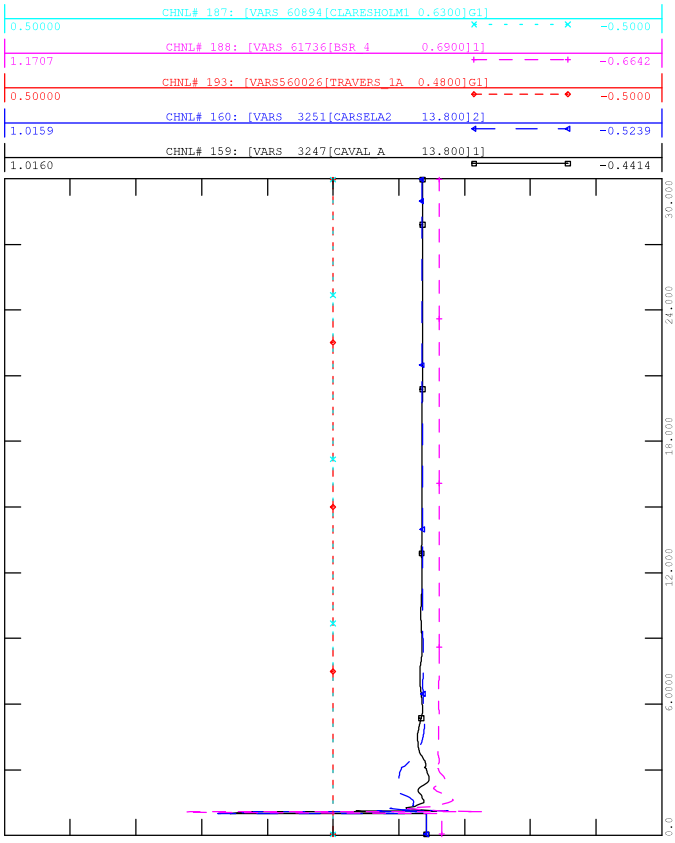


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

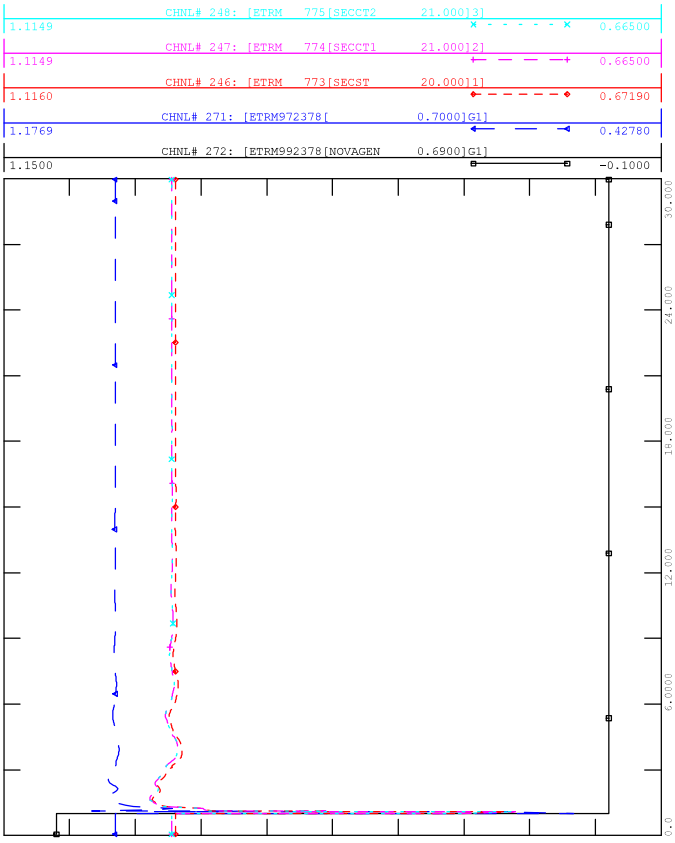


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out

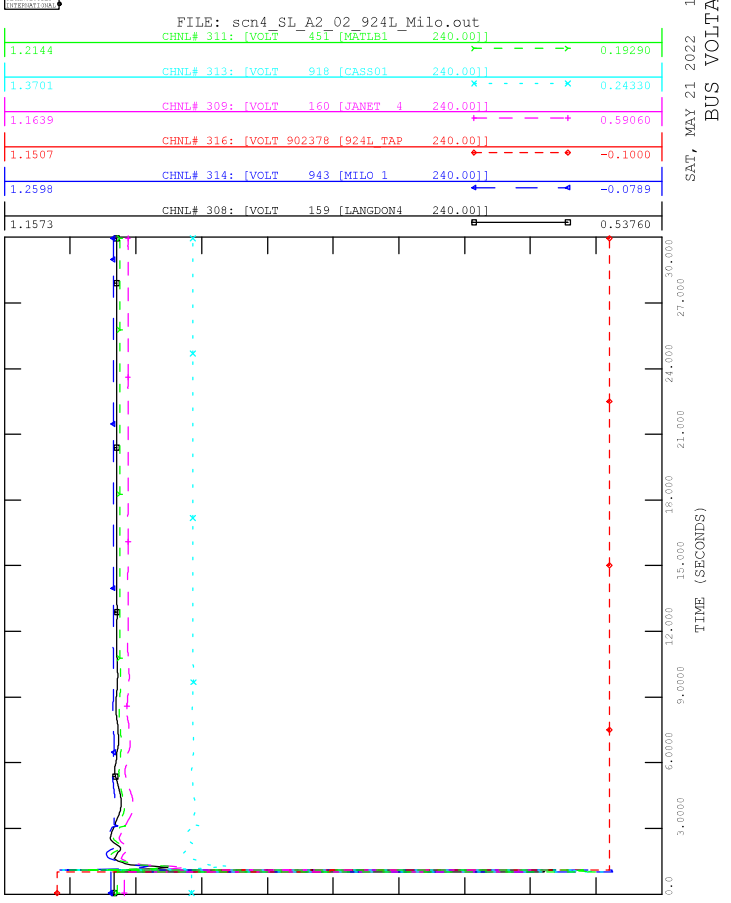
SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

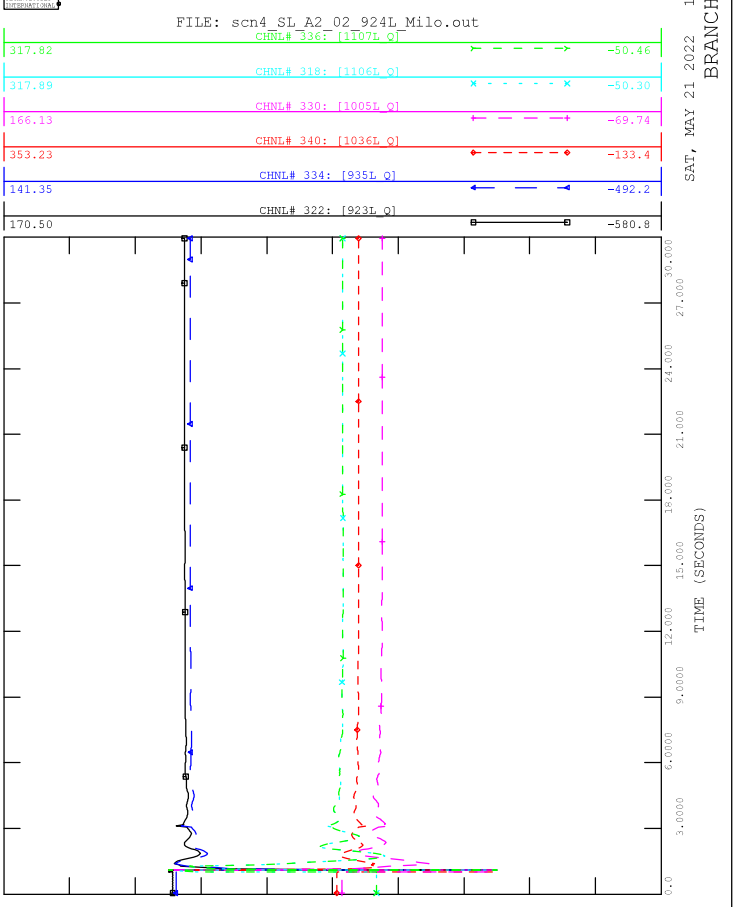
FILE: scn4_SL_A2_02_924L_Milo.out



SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

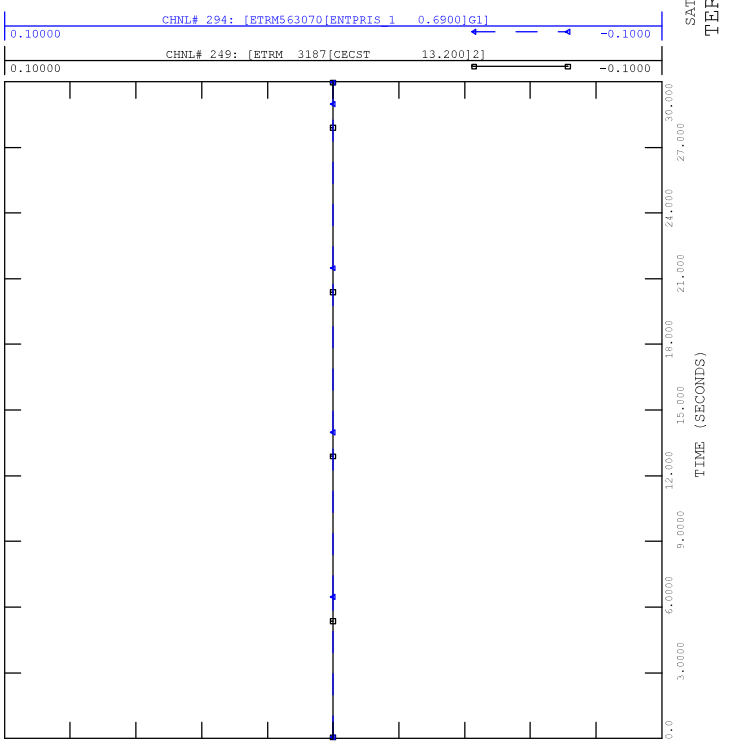
FILE: scn4_SL_A2_02_924L_Milo.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

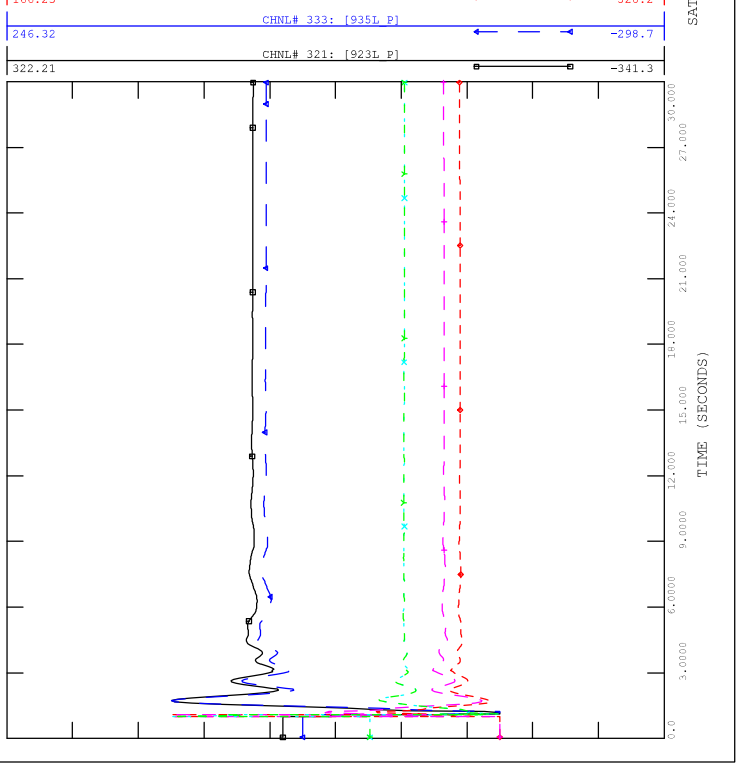
FILE: scn4_SL_A2_02_924L_Milo.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out

CHNL# 356: [927L A2 1 Q] 848.53 -353.5
CHNL# 338: [924L A2 1 Q] 1677.4 -559.1
CHNL# 324: [1003L Q] 363.99 -213.7
CHNL# 348: [985L Q] 368.71 -216.0

SAT, MAY 21 2022 1:16
BRANCH Q

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

CHNL# 101: [POWR 775[SECCT2 21.000]3] 2.9751 0.20080
CHNL# 100: [POWR 774[SECCT1 21.000]2] 2.9751 0.20080
CHNL# 99: [POWR 773[SECST 20.000]1] 3.6062 0.34560
CHNL# 124: [POWR972378[0.7000]G1] 0.95000 -0.2000
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1] 1.0634 -0.1851

SAT, MAY 21 2022 1:16
ACTIVE POWER

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_02_924L_MILO

FILE: scn4_SL_A2_02_924L_Milo.out

CHNL# 355: [927L A2 1 P] 486.53 -1199.
CHNL# 337: [924L A2 1 P] 479.08 -612.5
CHNL# 323: [1003L P] -224.7 -713.1
CHNL# 347: [985L P] -227.4 -721.1

SAT, MAY 21 2022 1:16
BRANCH P

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

CHNL# 13: [ANGL 3251[CARSBLAZ 13.800]2] 143.08 -24.40
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 115.47 -39.95
CHNL# 4: [ANGL 3187[CECST 13.200]2] 50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 125.99 -40.29
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 125.99 -40.29
CHNL# 1: [ANGL 773[SECST 20.000]1] 127.76 -35.66

SAT, MAY 21 2022 1:16
ROTOR ANGLE

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1] 0.20000 -0.2000

CHNL# 102: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000

CHNL# 188: [VARS 61736[BSR 4 0.6900]1] 1.1507 -0.6086

CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000

CHNL# 160: [VARS 3251[CARSELA2 13.800]2] 1.2561 -0.5785

CHNL# 159: [VARS 3247[CAVAL A 13.800]1] 1.3536 -0.5061

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.20000 -0.2000

CHNL# 139: [POWR 61736[BSR 4 0.6900]1] 1.6939 0.29160

CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1] 0.20000 -0.2000

CHNL# 111: [POWR 3251[CARSELA2 13.800]2] 0.83120 -0.0589

CHNL# 110: [POWR 3247[CAVAL A 13.800]1] 0.64560 -0.0860

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3] 5.9025 -3.436

CHNL# 149: [VARS 774[SECCT1 21.000]2] 5.9025 -3.436

CHNL# 148: [VARS 773[SECST 20.000]1] 7.3599 -4.161

CHNL# 173: [VARS972378[0.7000]G1] 0.60940 -0.5422

CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1] 1.0495 -0.5425

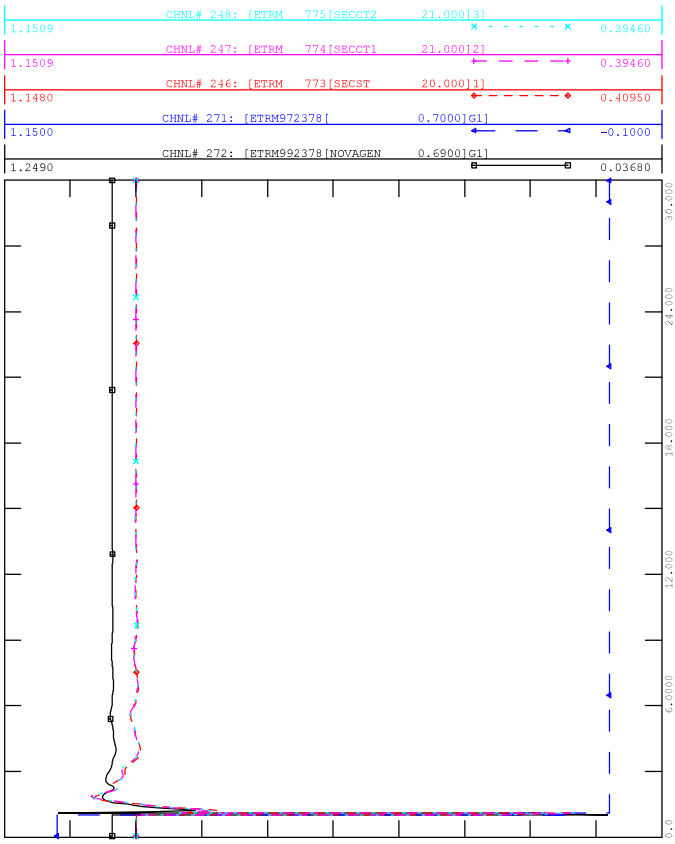
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

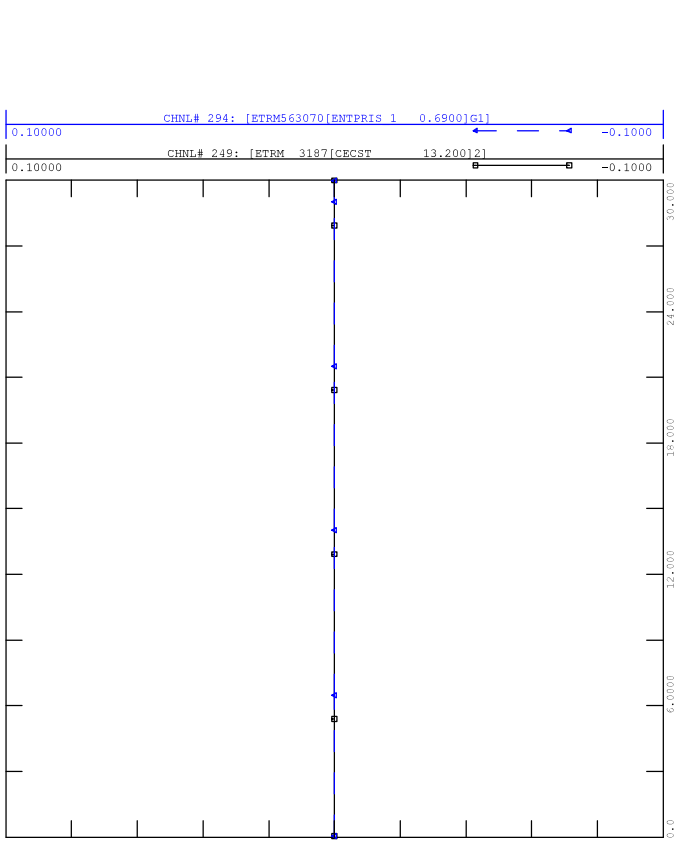


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

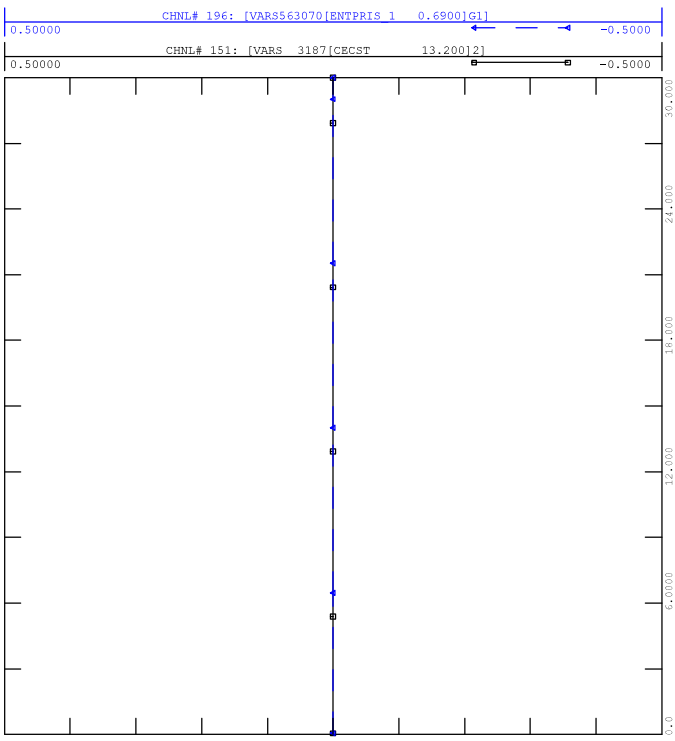


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

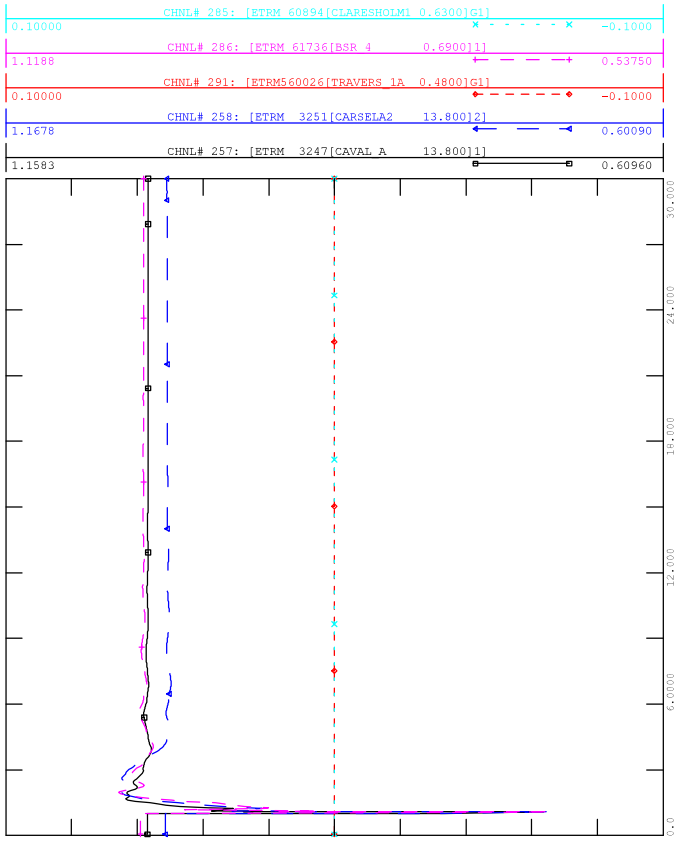


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

CHNL# 335: [1107L P]
122.45 -755.8
CHNL# 317: [1106L P]
122.44 -755.9
CHNL# 329: [1005L P]
60.388 -354.1
CHNL# 339: [1036L P]
50.872 -485.1
CHNL# 333: [935L P]
291.61 -277.9
CHNL# 321: [923L P]
370.51 -319.5

SAT, MAY 21 2022 1:16 BRANCH P

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

CHNL# 355: [927L A2 1 P]
170.84 -512.5
CHNL# 337: [924L A2 1 P]
329.94 -1127.
CHNL# 323: [1003L P]
184.69 -1053.
CHNL# 347: [985L P]
186.56 -1065.

SAT, MAY 21 2022 1:16 BRANCH P

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.2273 0.31380
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3517 0.53820
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1741 0.14950
CHNL# 316: [VOLT 902378 [924L_TAP 240.00]]
1.1885 0.03410
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2776 0.33690
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1819 -0.0255

SAT, MAY 21 2022 1:16 BUS VOLTAGE

TIME (SECONDS)

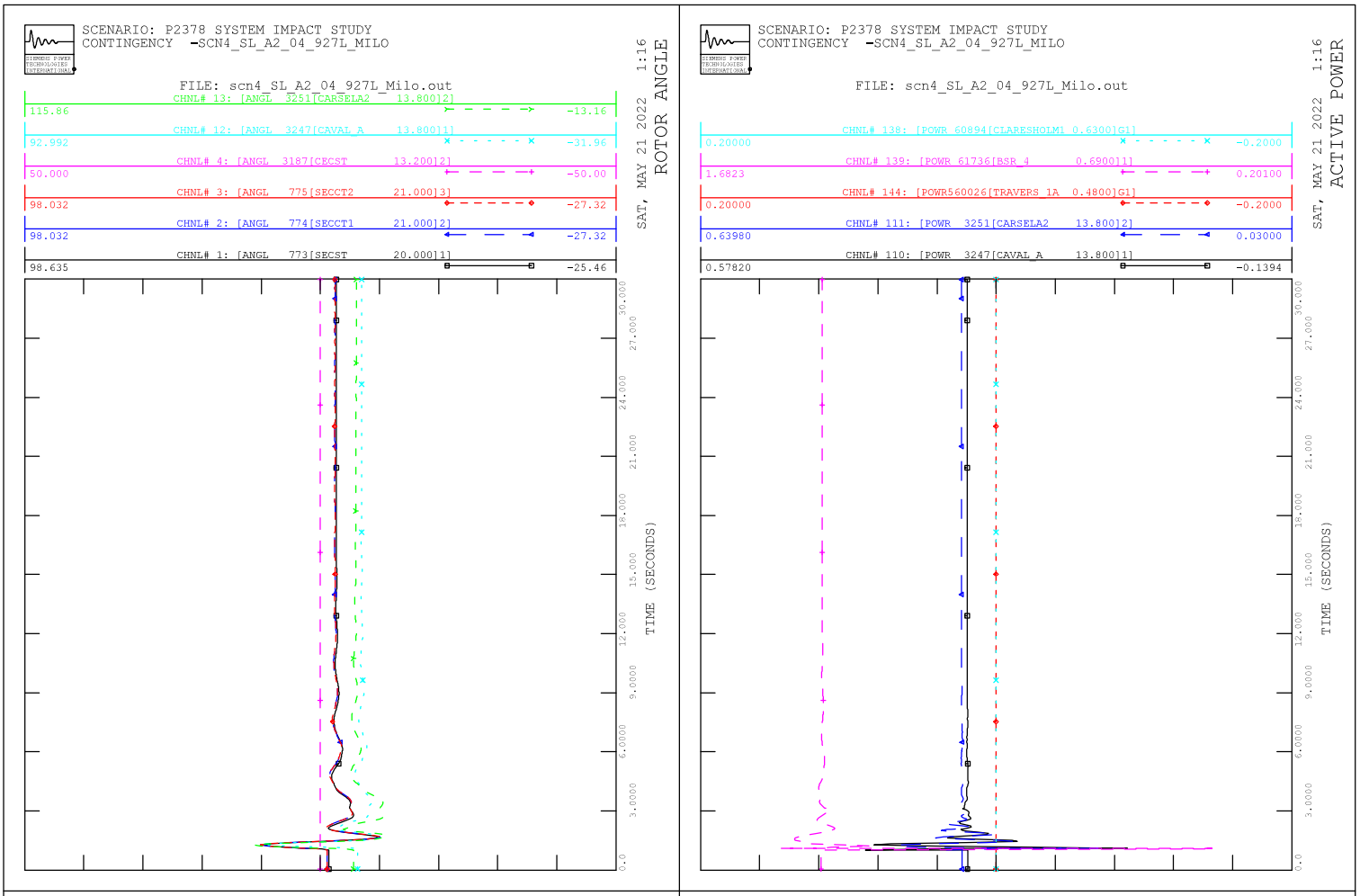
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON

FILE: scn4_SL_A2_03_927L_Langdon.out

CHNL# 336: [1107L Q]
360.41 -161.2
CHNL# 318: [1106L Q]
360.64 -161.3
CHNL# 330: [1005L Q]
186.82 -116.3
CHNL# 340: [1036L Q]
356.03 -167.1
CHNL# 334: [935L Q]
213.33 -632.2
CHNL# 322: [923L Q]
241.27 -694.4

SAT, MAY 21 2022 1:16 BRANCH Q

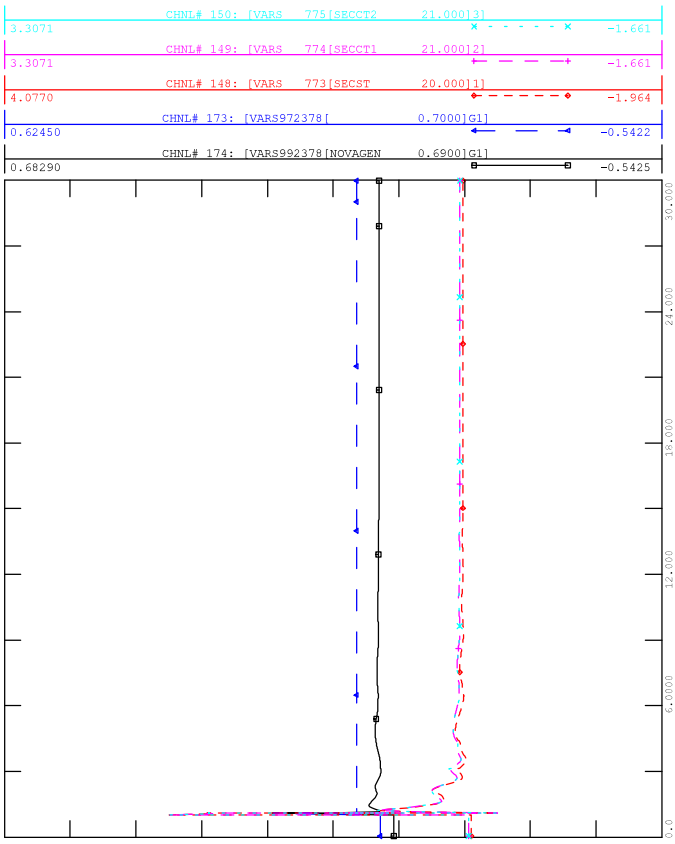
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO
FILE: scn4_SL_A2_04_927L_Milo.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
115.86
-13.16
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
92.992
-31.96
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
98.032
-27.32
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
98.032
-27.32
CHNL# 1: [ANGL 773[SECST 20.000]1]
98.635
-25.46
SAT, MAY 21 2022 1:16
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO
FILE: scn4_SL_A2_04_927L_Milo.out
CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.6823
0.20100
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.63980
0.03000
CHNL# 110: [POWR 3247[CAVAL_A 13.800]1]
0.57820
-0.1394
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_03_927L_LANGDON
FILE: scn4_SL_A2_03_927L_Langdon.out
CHNL# 356: [927L_A2_1 Q]
135.08
-45.03
CHNL# 338: [924L_A2_1 Q]
621.34
-244.4
CHNL# 324: [1003L Q]
662.54
-603.9
CHNL# 348: [985L Q]
670.77
-611.0
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO
FILE: scn4_SL_A2_04_927L_Milo.out
CHNL# 101: [POWR 775[SECCT2 21.000]3]
1.8371
0.84450
CHNL# 100: [POWR 774[SECCT1 21.000]2]
1.8371
0.84450
CHNL# 99: [POWR 773[SECST 20.000]1]
2.3458
1.2318
CHNL# 124: [POWR972378[0.7000]G1]
0.95000
-0.2000
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0836
0.05830
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO

FILE: scn4_SL_A2_04_927L_Milo.out

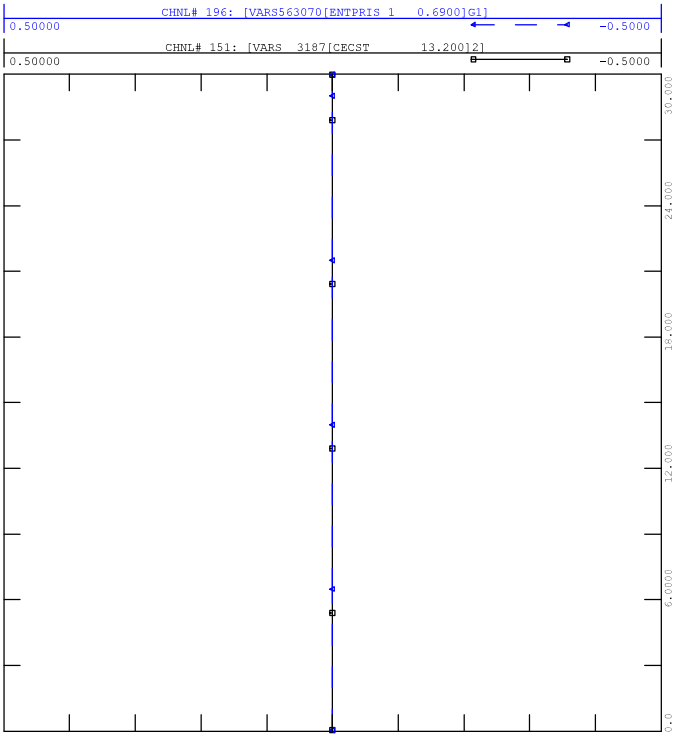
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO

FILE: scn4_SL_A2_04_927L_Milo.out

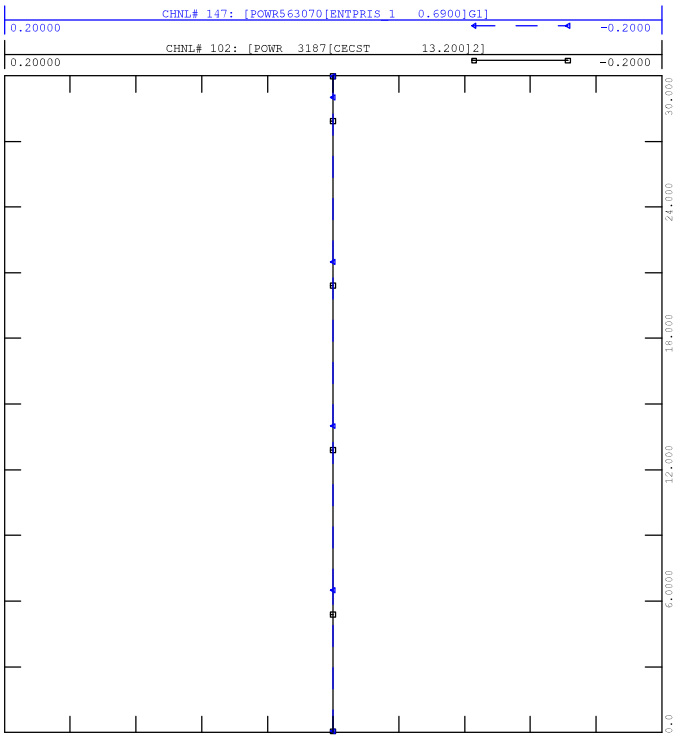
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO

FILE: scn4_SL_A2_04_927L_Milo.out

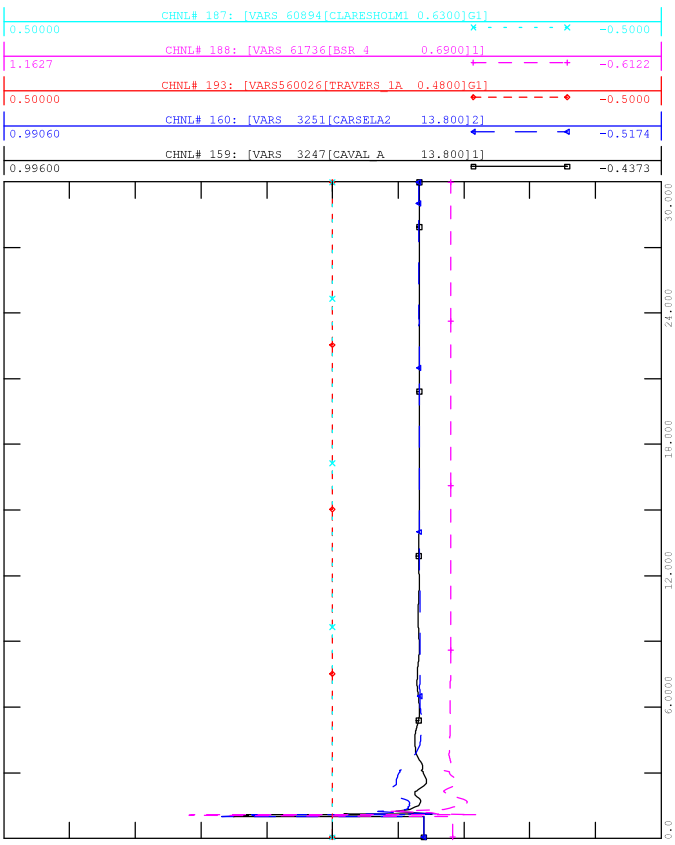
SAT, MAY 21 2022 1:16
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO

FILE: scn4_SL_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

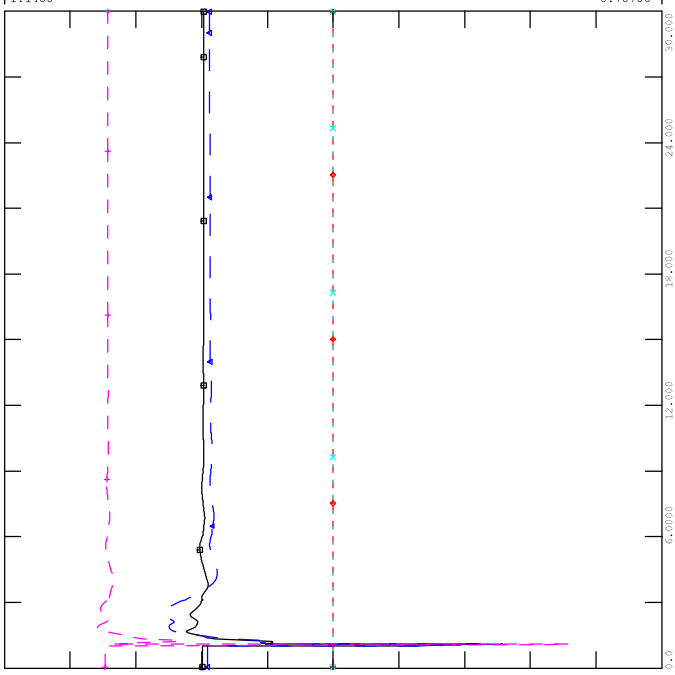


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO

FILE: scn4_SL_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1] 1.1082 0.40140
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2] 1.1578 0.74470
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1] 1.1488 0.78780

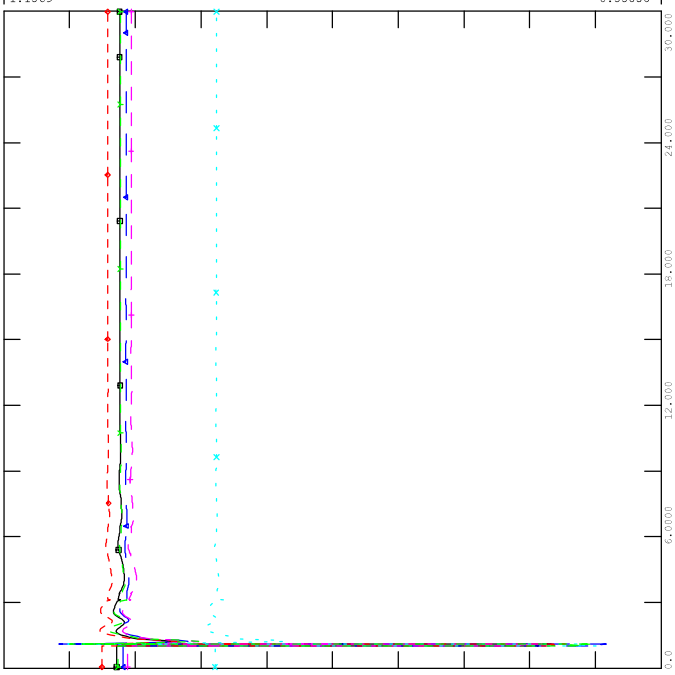


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO

FILE: scn4_SL_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16 BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]] 1.2115 0.22010
CHNL# 313: [VOLT 918 [CASS01 240.00]] 1.3774 0.35590
CHNL# 309: [VOLT 160 [JANET 4 240.00]] 1.1634 0.60930
CHNL# 316: [VOLT 902378 [924L TAP 240.00]] 1.1529 0.46750
CHNL# 314: [VOLT 943 [MILO 1 240.00]] 1.2607 0.06660
CHNL# 308: [VOLT 159 [LANGDON4 240.00]] 1.1569 0.55850

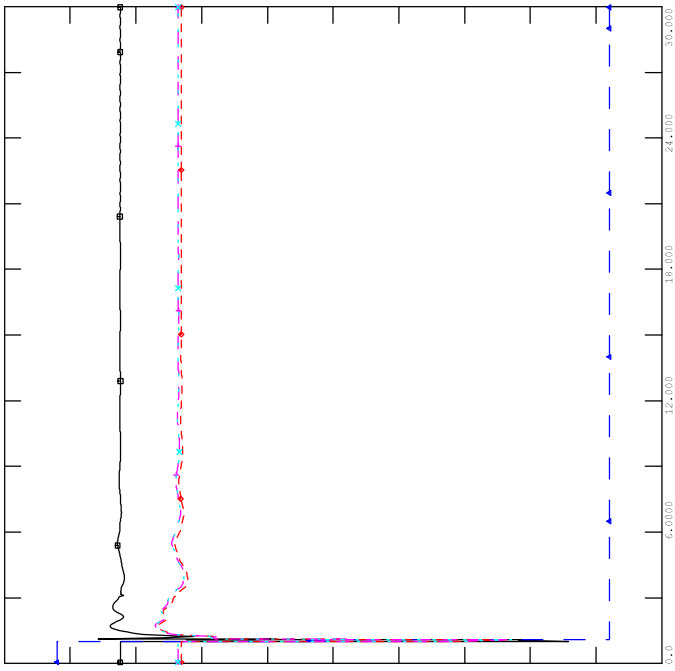


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO

FILE: scn4_SL_A2_04_927L_Milo.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3] 1.1153 0.67880
CHNL# 247: [ETRM 774[SECCT1 21.000]2] 1.1153 0.67880
CHNL# 246: [ETRM 773[SECST 20.000]1] 1.1156 0.68550
CHNL# 271: [ETRM972378[0.7000]G1] 1.1500 -0.1000
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1] 1.1738 0.47050

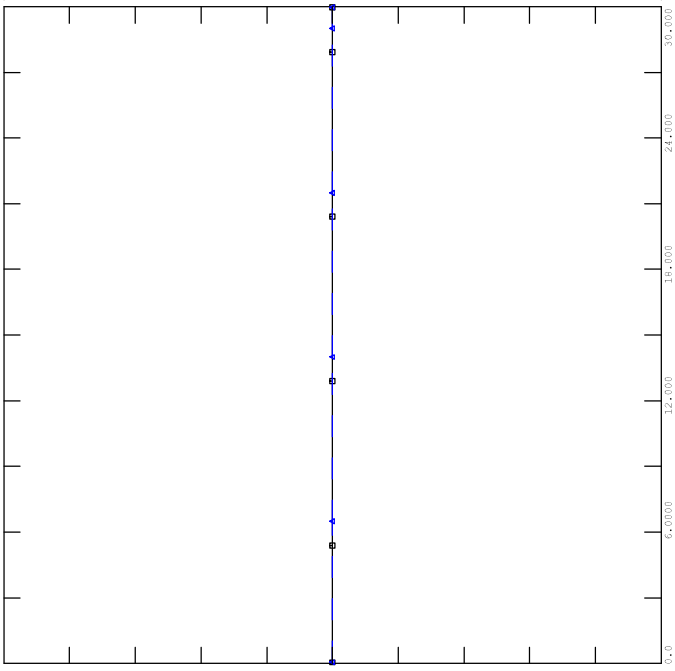


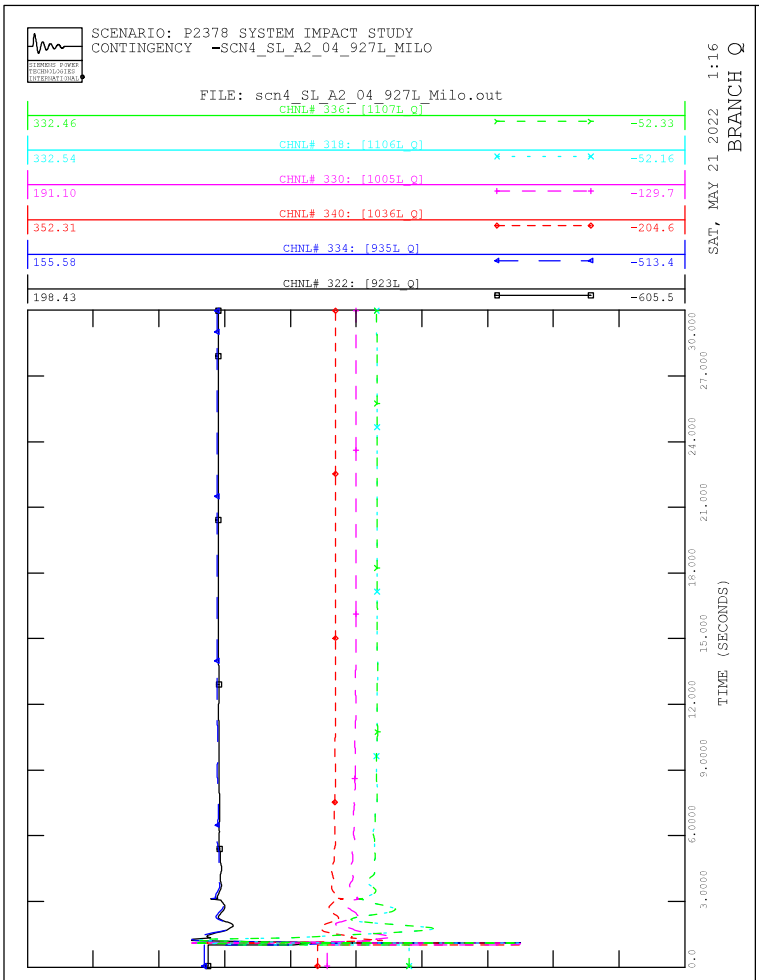
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO

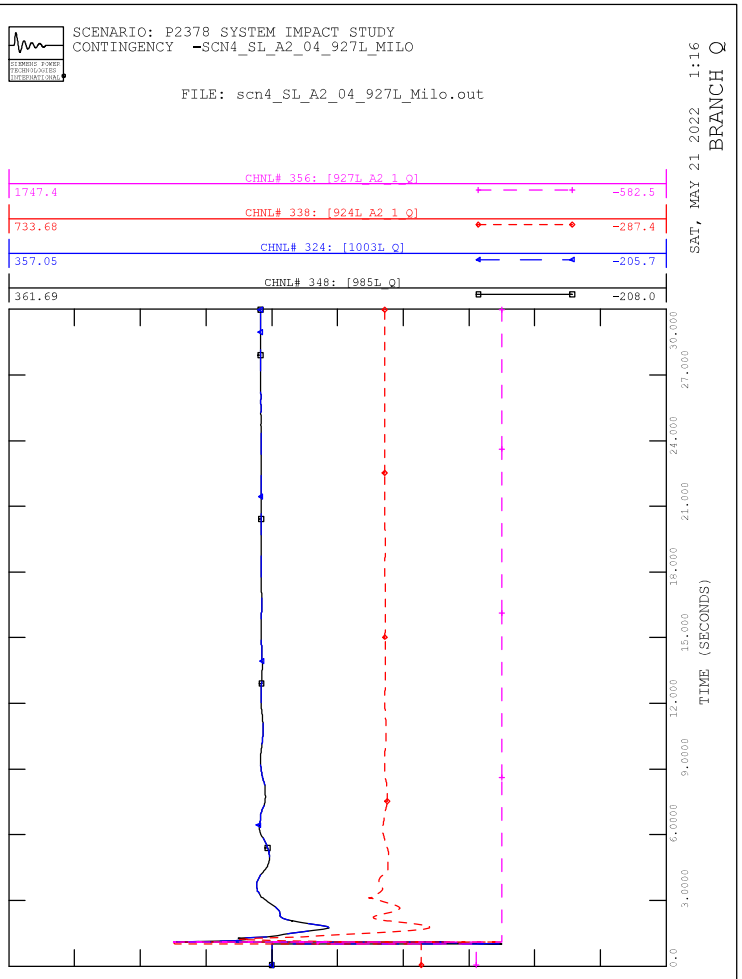
FILE: scn4_SL_A2_04_927L_Milo.out

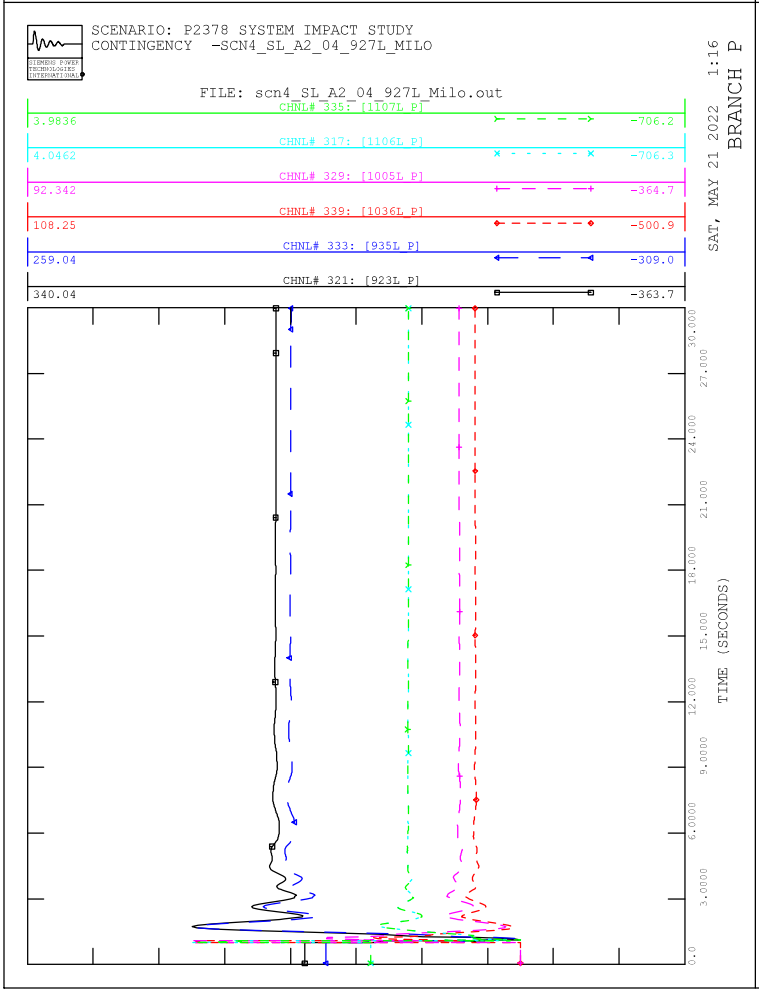
SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

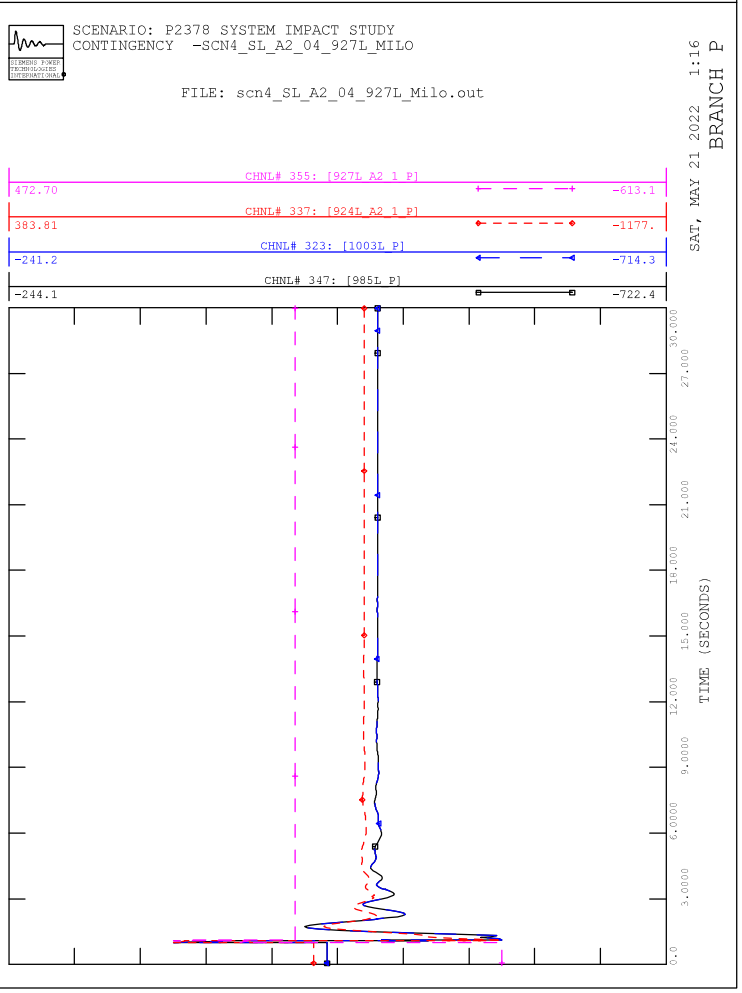
CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1] 0.10000 -0.1000
CHNL# 249: [ETRM 3187[CECST 13.200]2] 0.10000 -0.1000




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO
FILE: scn4_SL_A2_04_927L_Milo.out
CHNL# 336: [1107L Q]
332.46
-52.33
CHNL# 318: [1106L Q]
332.54
-52.16
CHNL# 330: [1005L Q]
191.10
-129.7
CHNL# 340: [1036L Q]
352.31
-204.6
CHNL# 334: [935L Q]
155.58
-513.4
CHNL# 322: [923L Q]
198.43
-605.5
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO
FILE: scn4_SL_A2_04_927L_Milo.out
CHNL# 356: [927L A2 1 Q]
1747.4
-582.5
CHNL# 338: [924L A2 1 Q]
733.68
-287.4
CHNL# 324: [1003L Q]
357.05
-205.7
CHNL# 348: [985L Q]
361.69
-208.0
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO
FILE: scn4_SL_A2_04_927L_Milo.out
CHNL# 335: [1107L P]
3.9836
-706.2
CHNL# 317: [1106L P]
4.0462
-706.3
CHNL# 329: [1005L P]
92.342
-364.7
CHNL# 339: [1036L P]
108.25
-500.9
CHNL# 333: [935L P]
259.04
-309.0
CHNL# 321: [923L P]
340.04
-363.7
SAT, MAY 21 2022 1:16
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_04_927L_MILO
FILE: scn4_SL_A2_04_927L_Milo.out
CHNL# 355: [927L A2 1 P]
472.70
-613.1
CHNL# 337: [924L A2 1 P]
383.81
-1177.
CHNL# 323: [1003L P]
-241.2
-714.3
CHNL# 347: [985L P]
-244.1
-722.4
SAT, MAY 21 2022 1:16
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3]
1.9186 0.87990

CHNL# 100: [POWR 774[SECCT1 21.000]2]
1.9186 0.87990

CHNL# 99: [POWR 773[SECST 20.000]1]
2.4031 1.3357

CHNL# 124: [POWR972378[0.7000]G1]
1.0894 0.01550

CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0895 0.01550

TIME (SECONDS)

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000

CHNL# 102: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000

TIME (SECONDS)

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
117.73 -12.52

CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
95.491 -31.17

CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00

CHNL# 3: [ANGL 775[SECCT2 21.000]3]
98.750 -26.64

CHNL# 2: [ANGL 774[SECCT1 21.000]2]
98.750 -26.64

CHNL# 1: [ANGL 773[SECST 20.000]1]
99.519 -24.75

TIME (SECONDS)

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000

CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.6315 0.03100

CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000

CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.66180 0.06180

CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.60920 -0.2027

TIME (SECONDS)

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

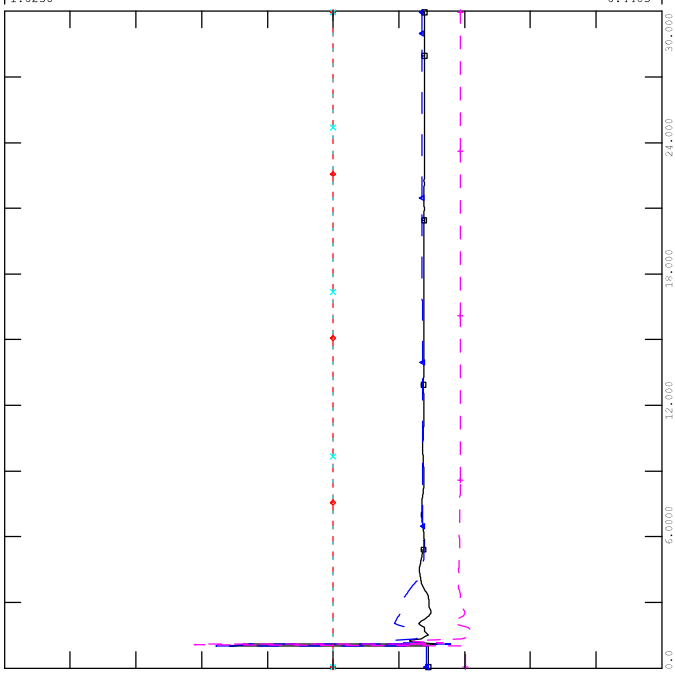
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1651 -0.5657
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
1.0268 -0.5300
CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
1.0238 -0.4403

TIME (SECONDS)



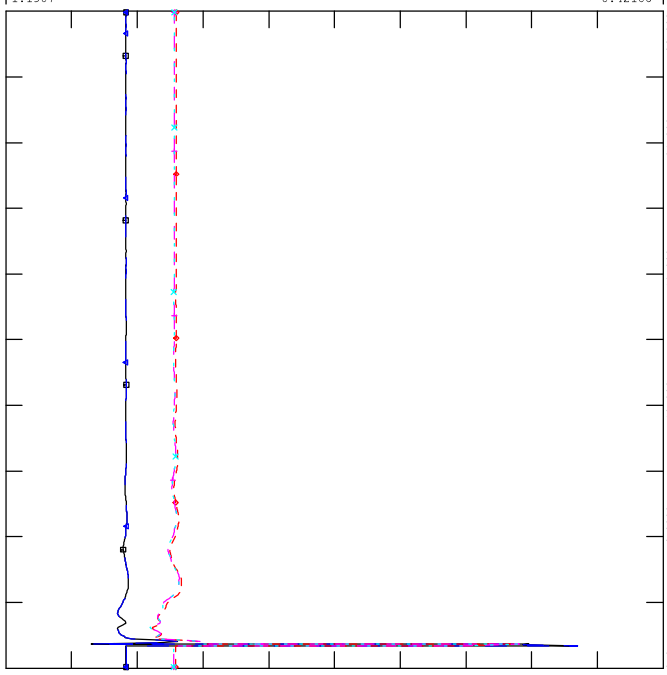
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1167 0.66040
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1167 0.66040
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1161 0.66740
CHNL# 271: [ETRM972378[0.7000]G1]
1.1907 0.42110
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.1907 0.42100

TIME (SECONDS)



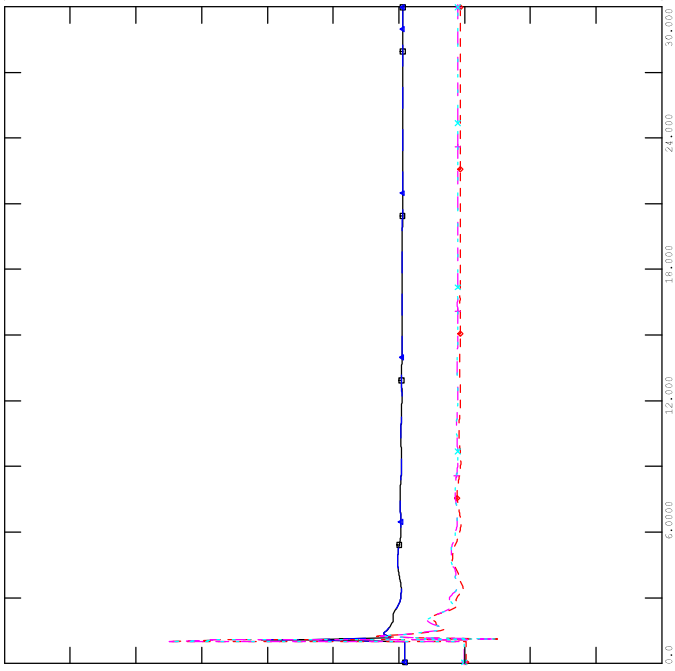
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3]
3.5121 -1.797
CHNL# 149: [VARS 774[SECCT1 21.000]2]
3.5121 -1.797
CHNL# 148: [VARS 773[SECST 20.000]1]
4.3352 -2.139
CHNL# 173: [VARS972378[0.7000]G1]
0.73700 -0.5422
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
0.73670 -0.5425

TIME (SECONDS)



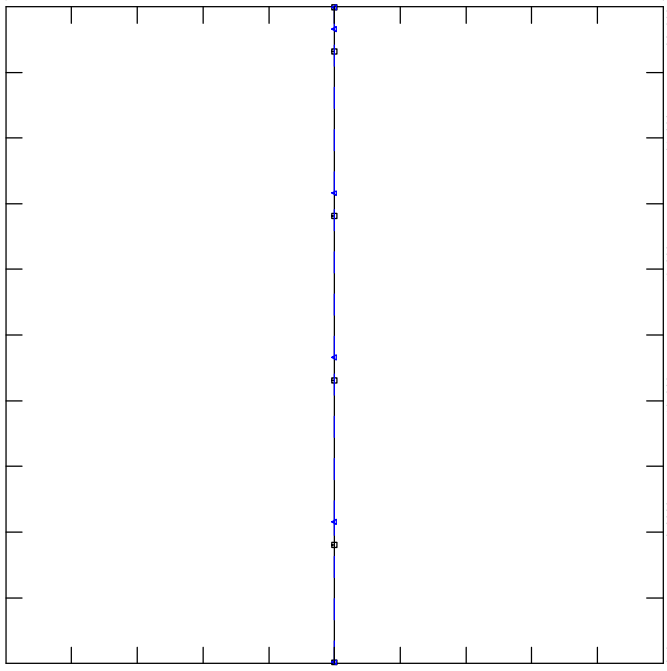
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 151: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1] 0.10000 -0.1000
CHNL# 249: [ETRM 3187[CECST 13.200]2] 0.10000 -0.1000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16 BRANCH P

CHNL# 335: [1107L P] 29.008 -670.8
CHNL# 317: [1106L P] 29.082 -670.9
CHNL# 329: [1005L P] 125.23 -375.7
CHNL# 339: [1036L P] 241.40 -739.0
CHNL# 333: [935L P] 244.61 -493.9
CHNL# 321: [923L P] 329.76 -565.9

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1] 1.1040 0.32940
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2] 1.1568 0.72670
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1] 1.1476 0.77620

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out

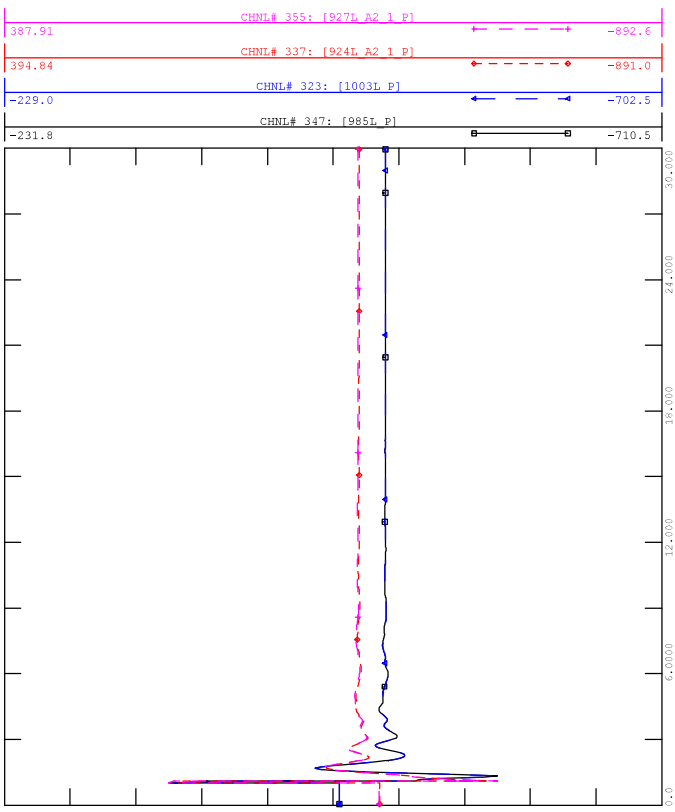
SAT, MAY 21 2022 1:16 BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]] 1.1605 0.12080
CHNL# 313: [VOLT 918 [CASS01 240.00]] 1.2877 0.23170
CHNL# 309: [VOLT 160 [JANET 4 240.00]] 1.1644 0.58370
CHNL# 316: [VOLT 902378 [924L TAP 240.00]] 1.1641 0.42390
CHNL# 314: [VOLT 943 [MILO 1 240.00]] 1.2148 -0.0894
CHNL# 308: [VOLT 159 [LANGDON4 240.00]] 1.1599 0.53290

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

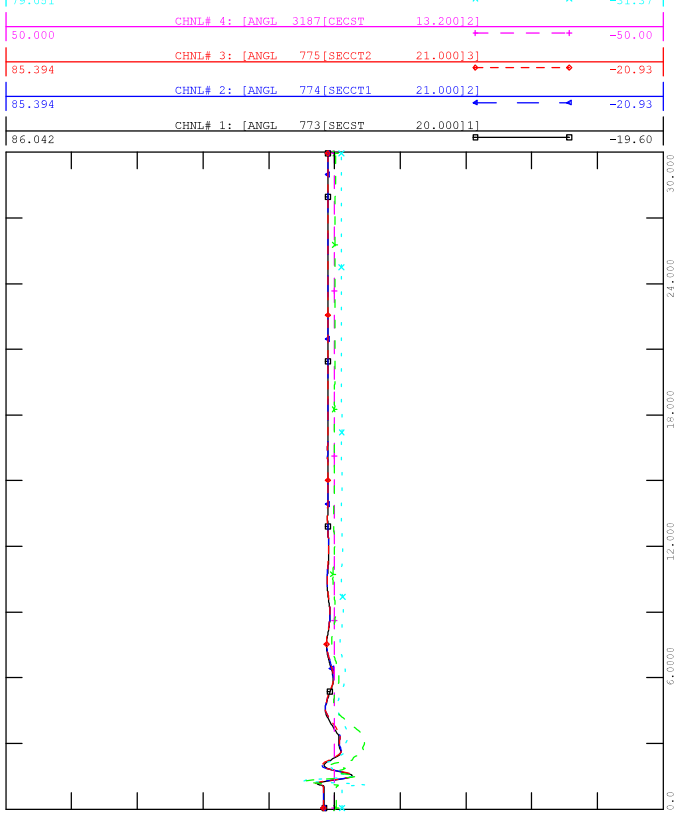
FILE: scn4_SL_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

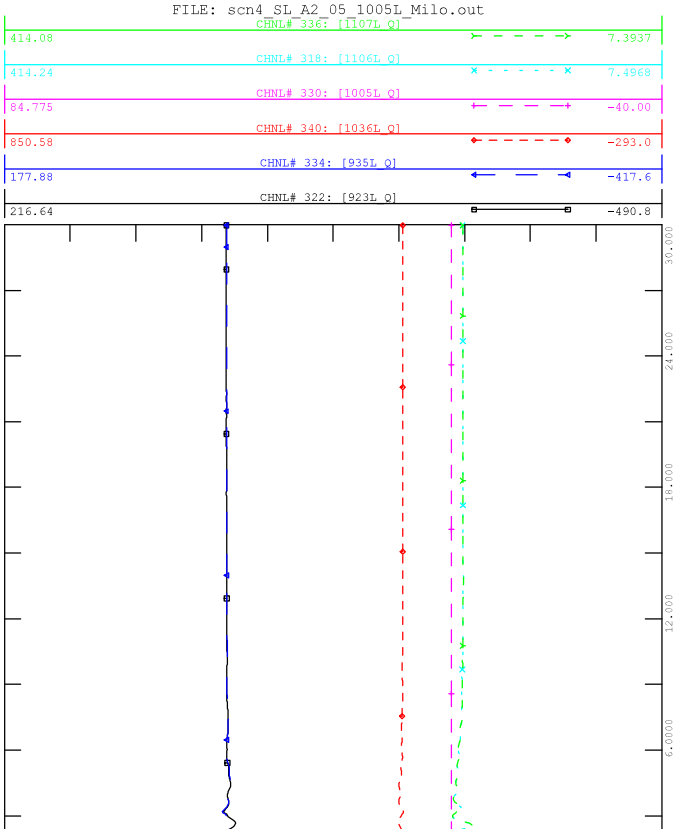
FILE: scn4_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:16
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

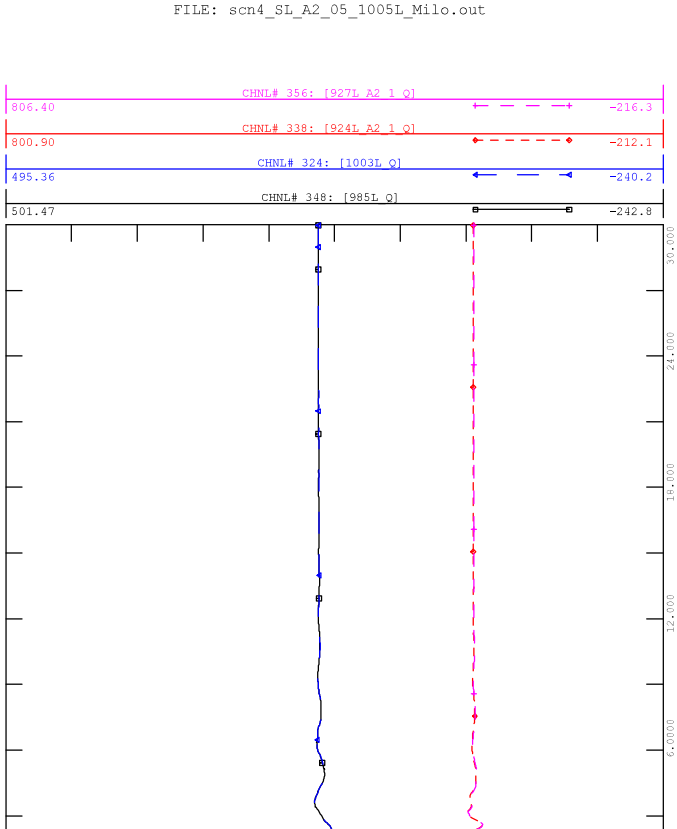
FILE: scn4_SL_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_05_1005L_MILO

FILE: scn4_SL_A2_05_1005L_Milo.out



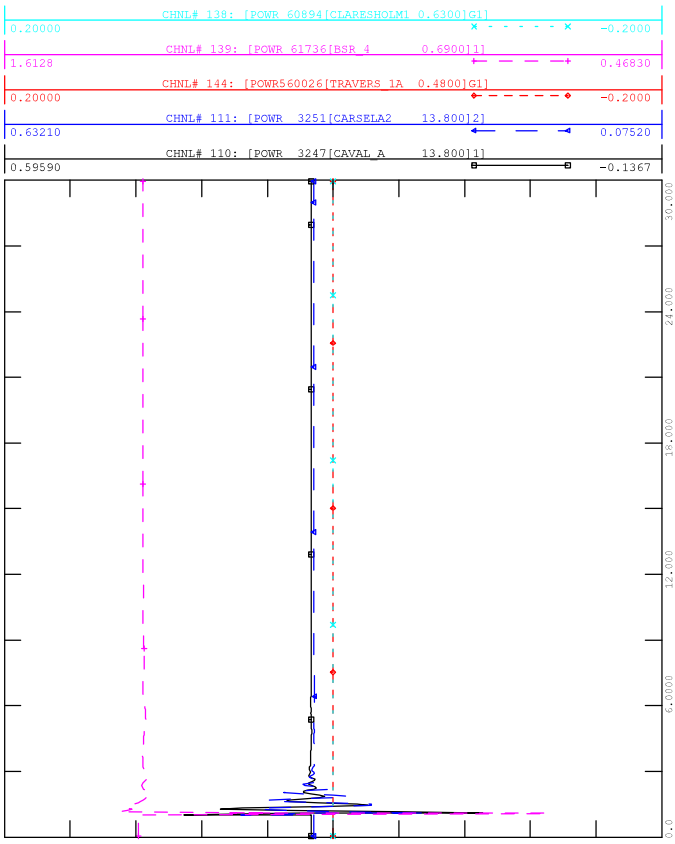
SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

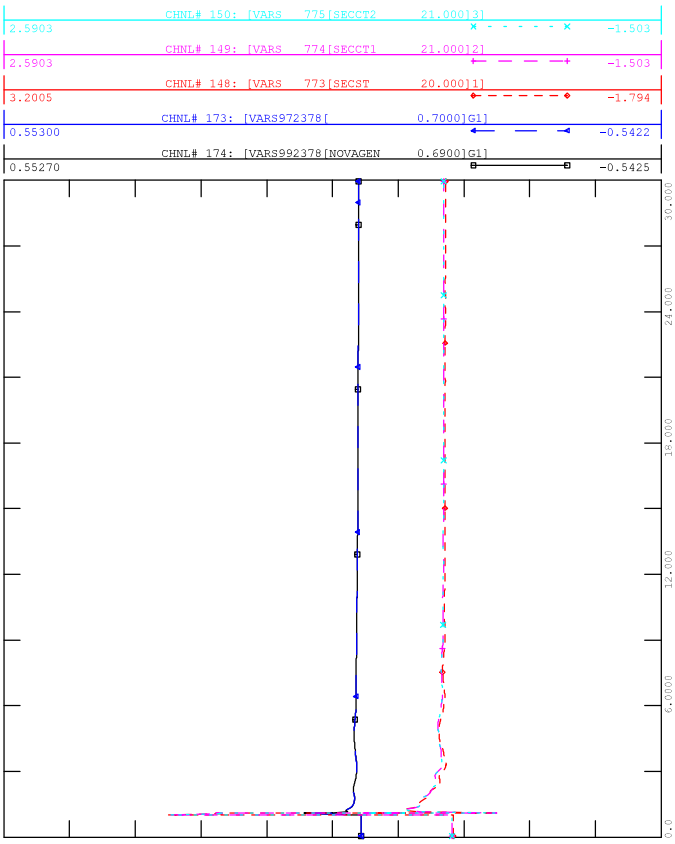


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

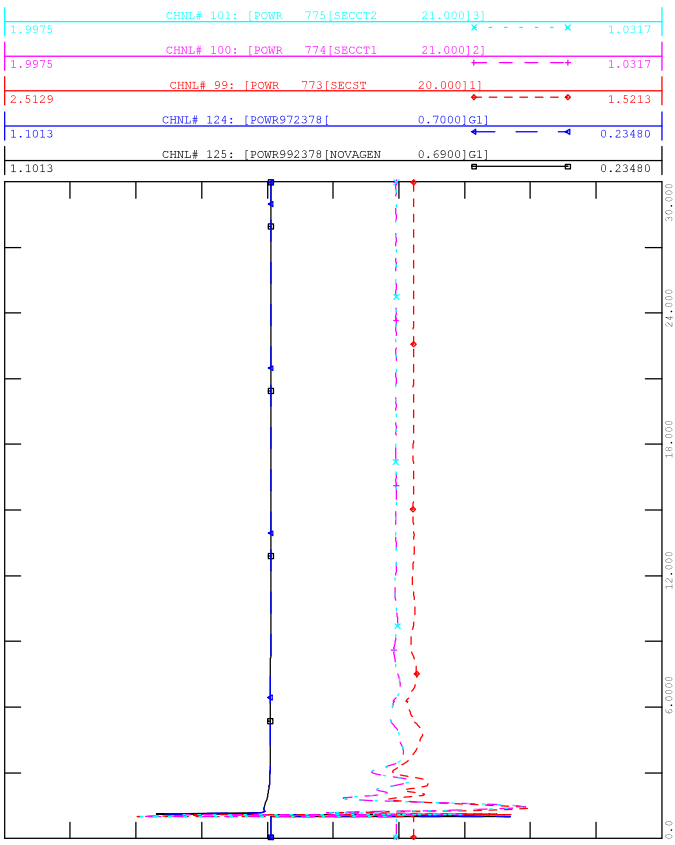


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

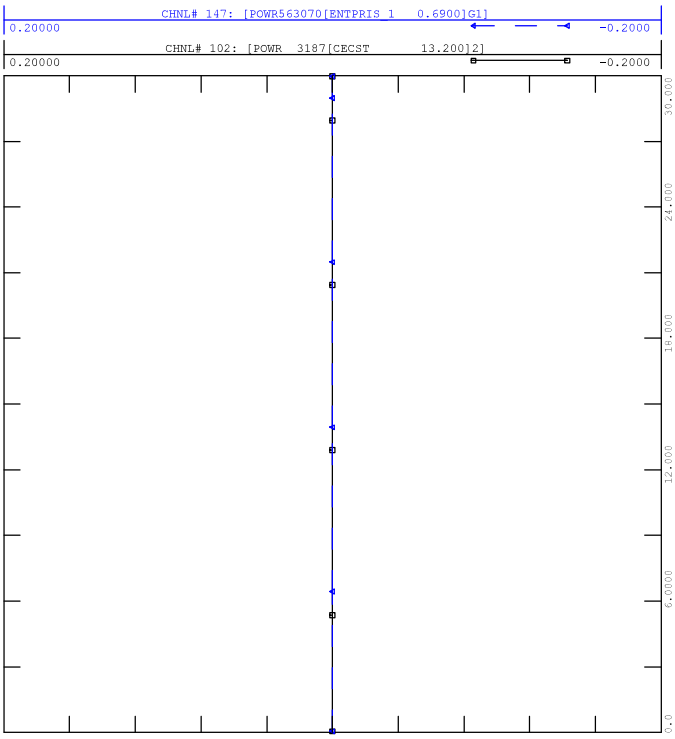


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16

ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A2_06_1005L_PictureButte.out

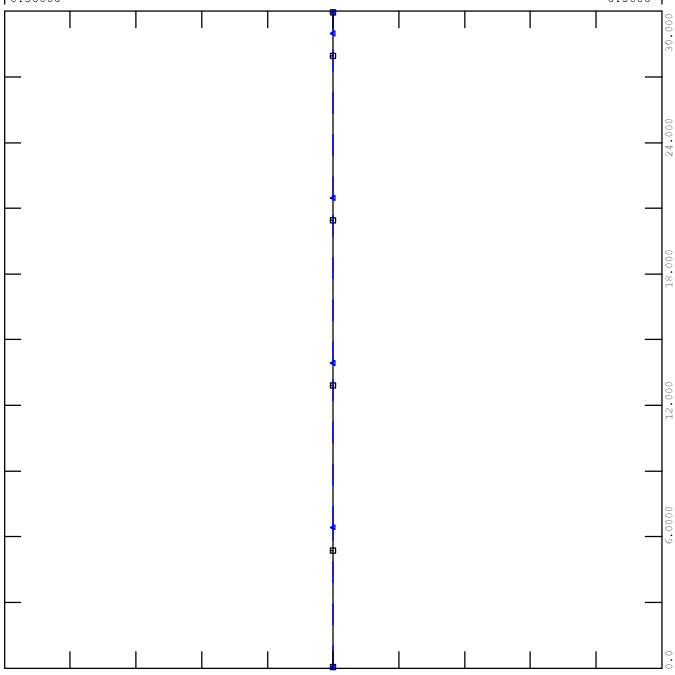
SAT, MAY 21 2022 1:16

REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1] 0.50000 -0.5000

CHNL# 151: [VARS 3187[CECST 13.200]2] 0.50000 -0.5000

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000

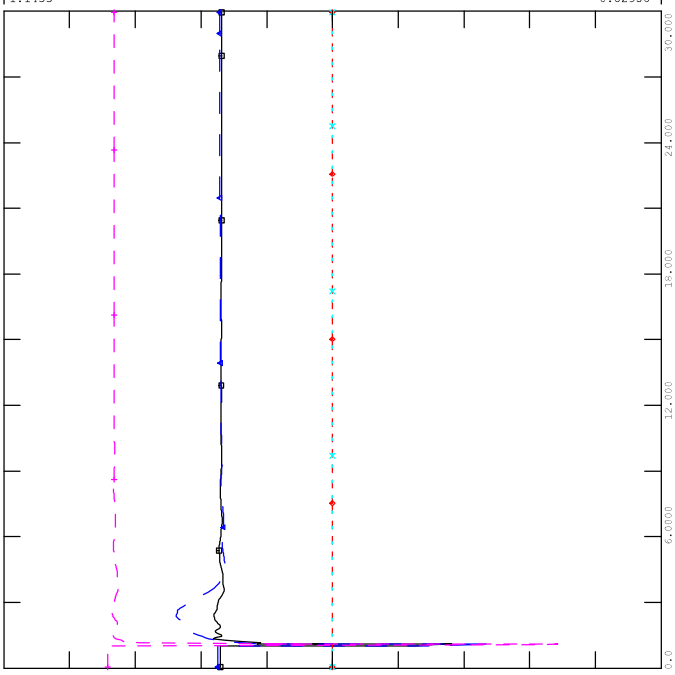
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1] 1.1000 0.46560

CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000

CHNL# 258: [ETRM 3251[CARSELA2 13.800]2] 1.1541 0.77240

CHNL# 257: [ETRM 3247[CAVAL A 13.800]1] 1.1433 0.82950

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000

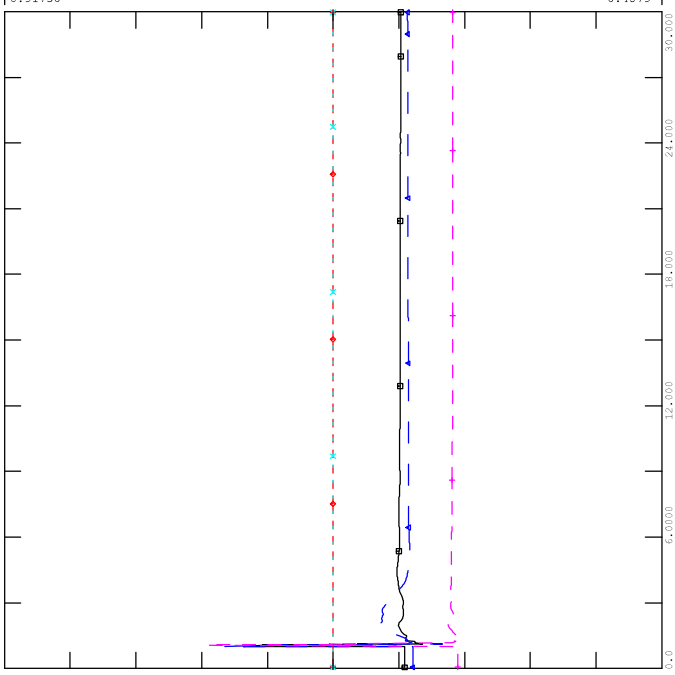
CHNL# 188: [VARS 61736[BSR 4 0.6900]1] 1.0714 -0.5530

CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000

CHNL# 160: [VARS 3251[CARSELA2 13.800]2] 0.95780 -0.5408

CHNL# 159: [VARS 3247[CAVAL A 13.800]1] 0.91730 -0.4579

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn4_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3] 1.1139 0.75050

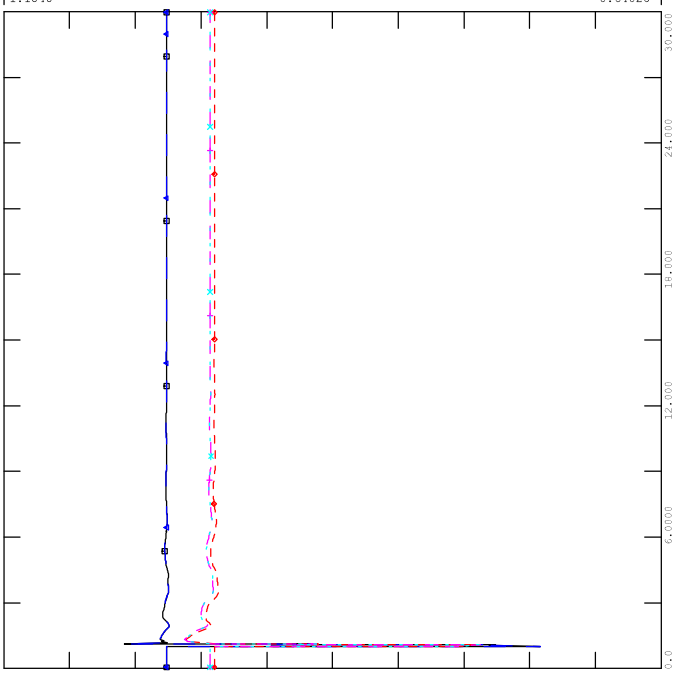
CHNL# 247: [ETRM 774[SECCT1 21.000]2] 1.1139 0.75050

CHNL# 246: [ETRM 773[SECST 20.000]1] 1.1155 0.75470

CHNL# 271: [ETRM972378[0.7000]G1] 1.1847 0.64020

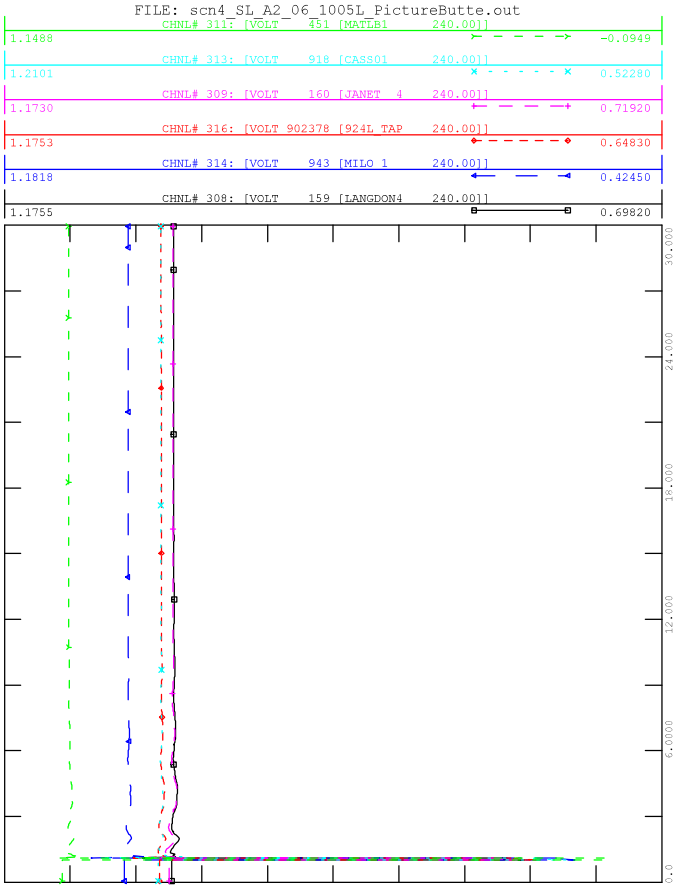
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1] 1.1848 0.64020

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

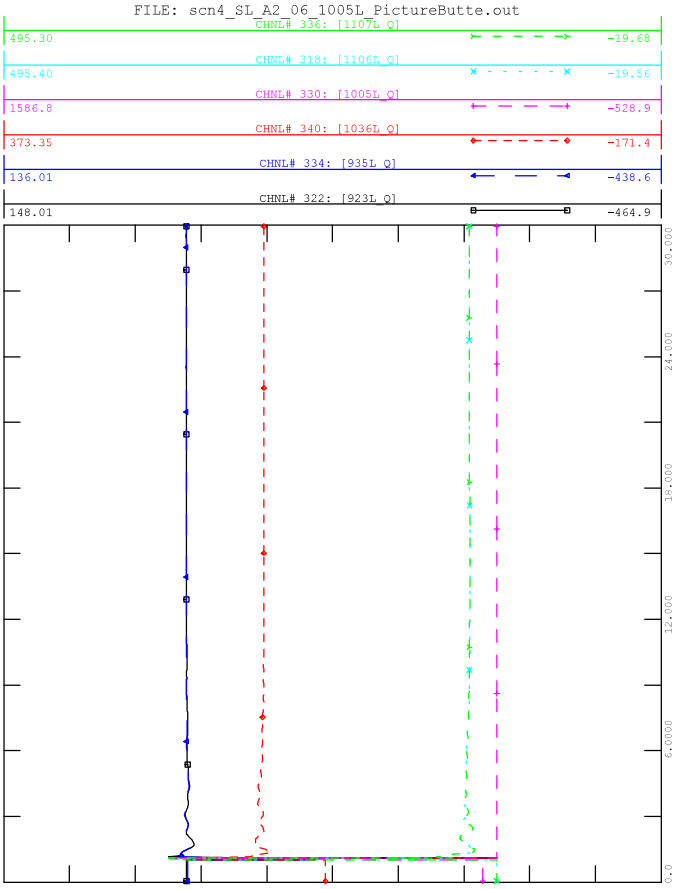
FILE: scn4_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

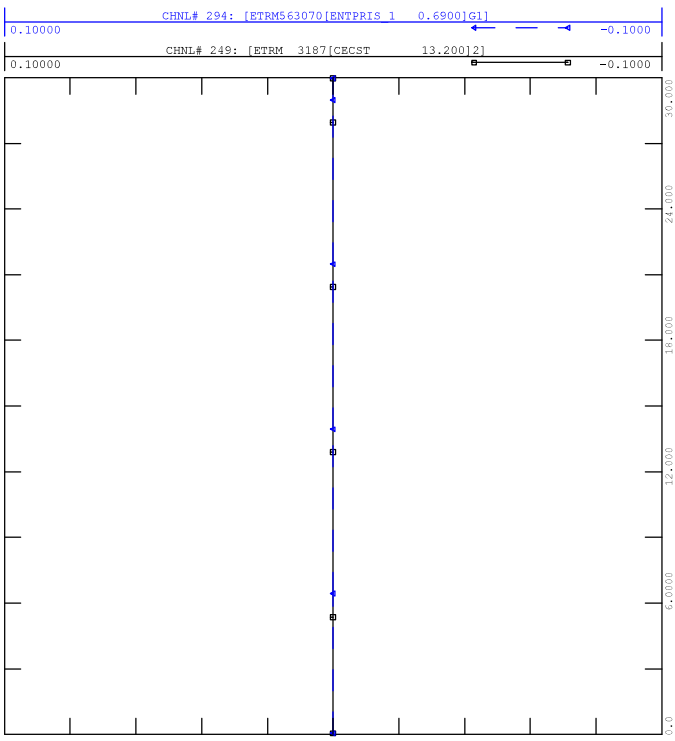
FILE: scn4_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

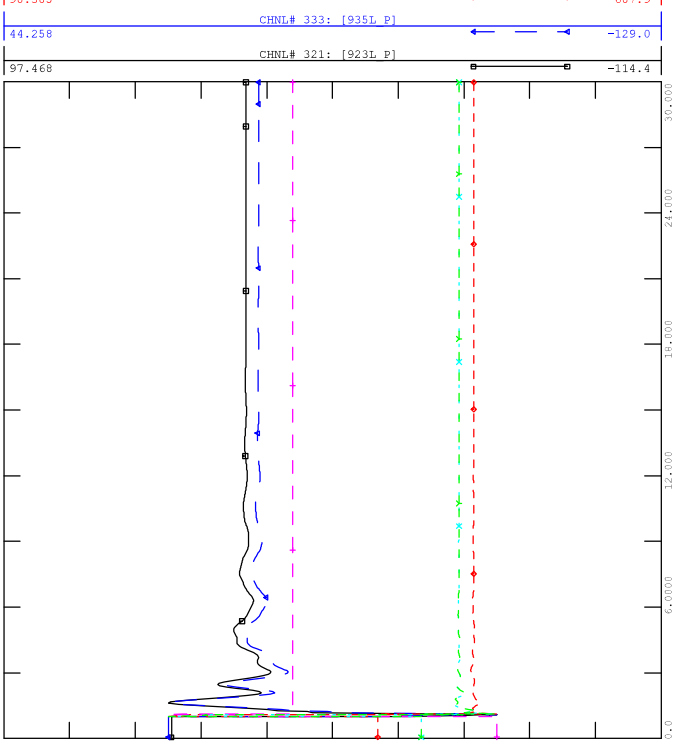
FILE: scn4_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

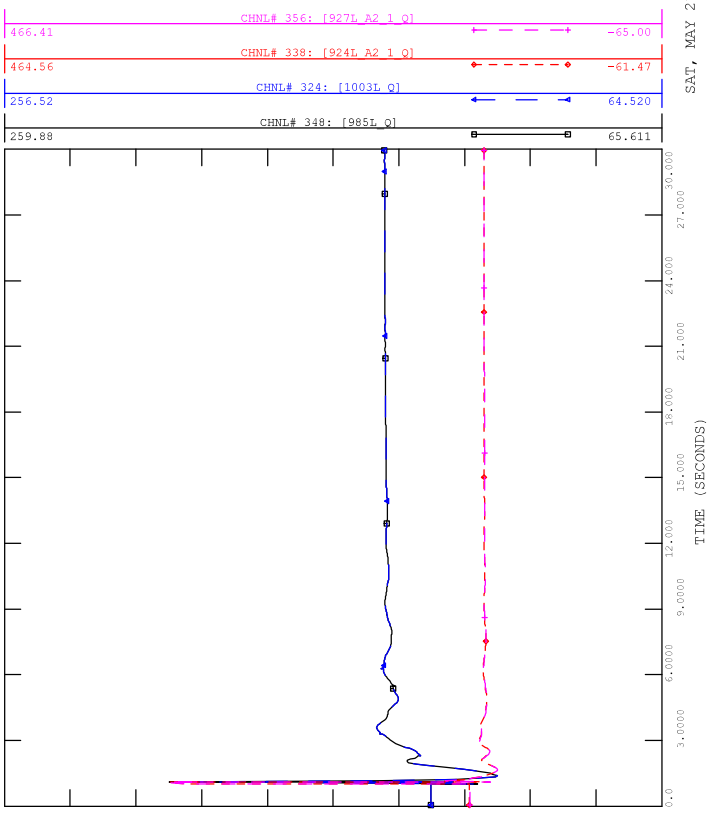
FILE: scn4_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

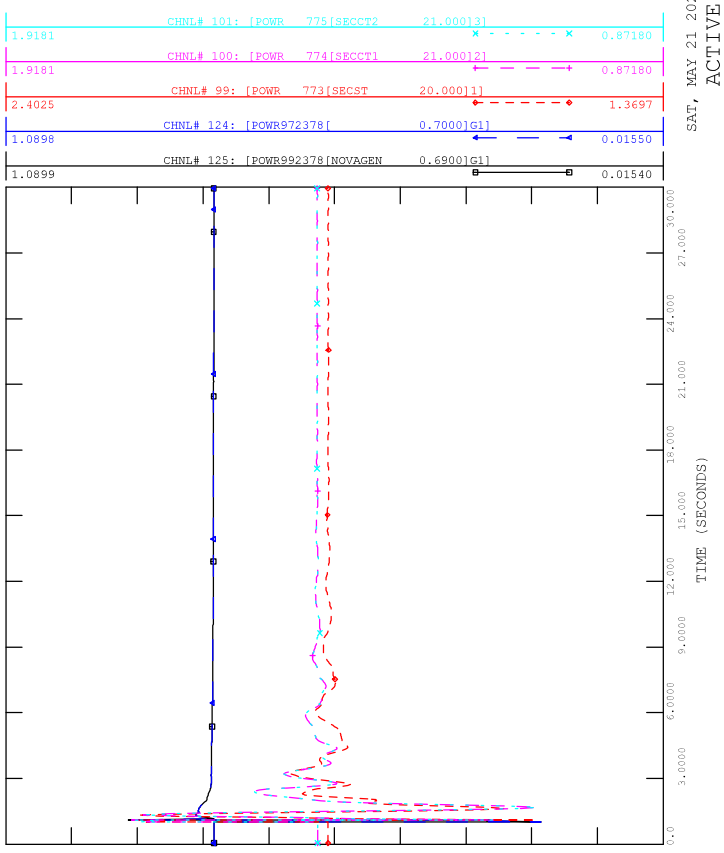
FILE: scn4_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

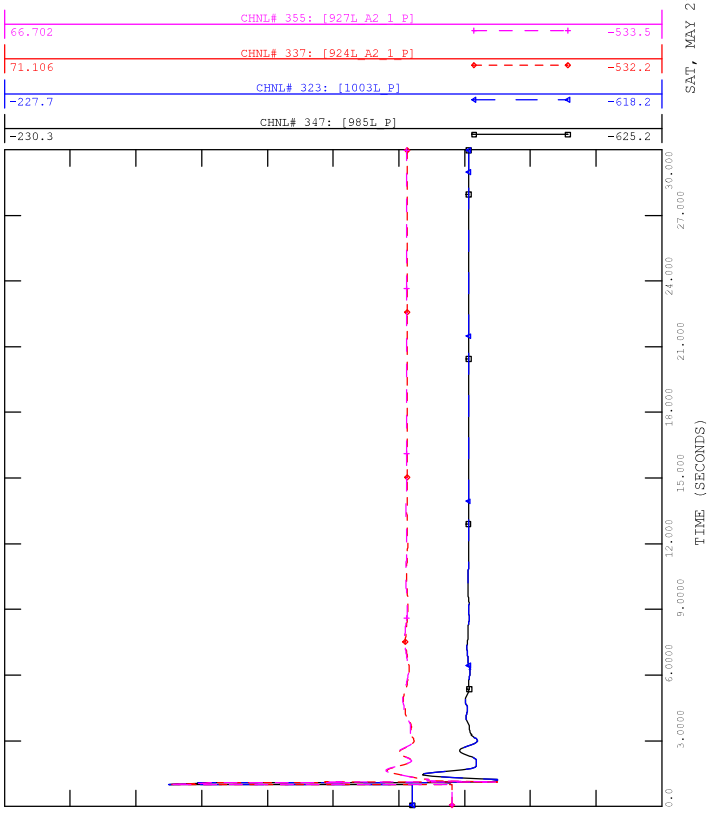
FILE: scn4_SL_A2_07_1036L_Milo.out



SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_06_1005L_PICTUREBUTTE

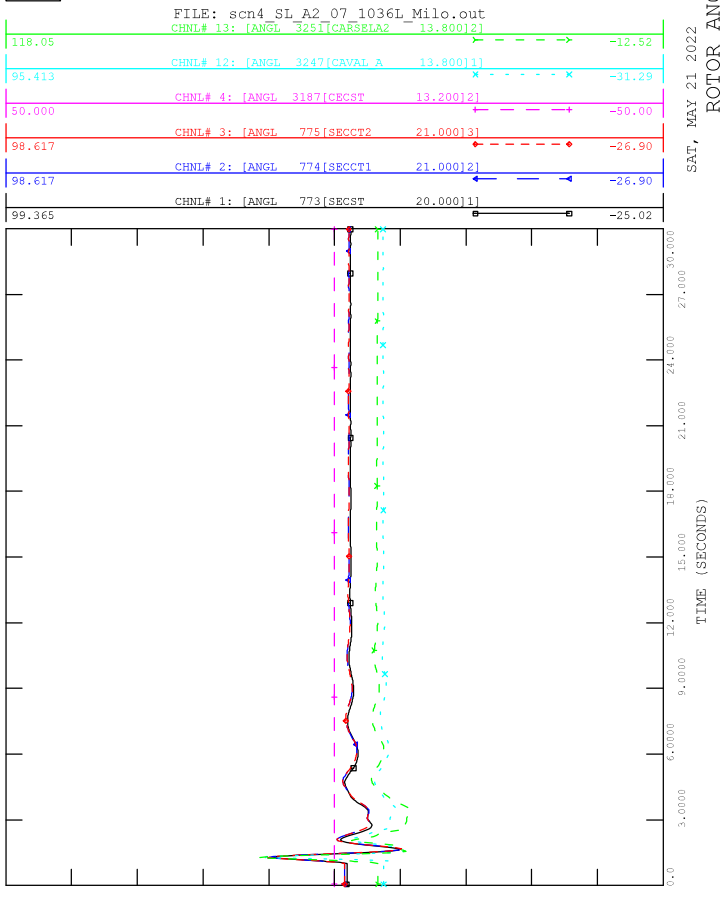
FILE: scn4_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out



SAT, MAY 21 2022 1:16
ROTOR ANGLE

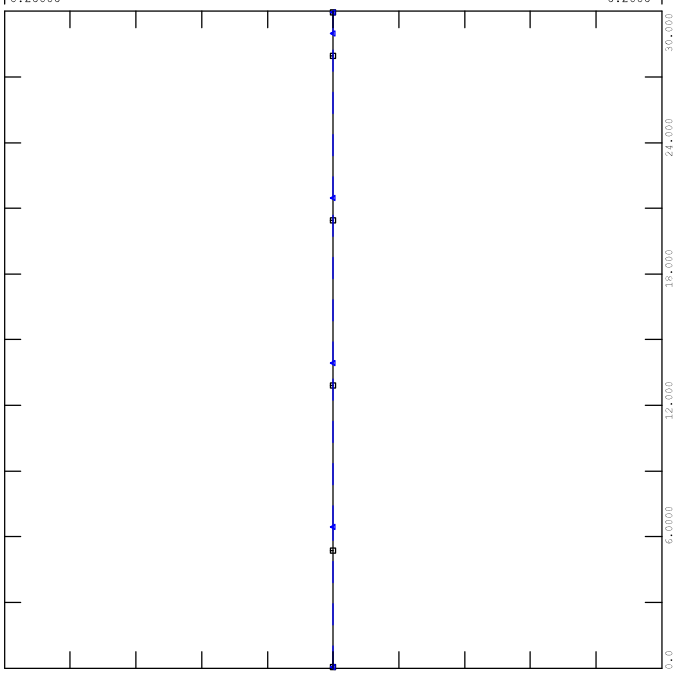
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1] 0.20000 -0.2000
CHNL# 102: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000

TIME (SECONDS)



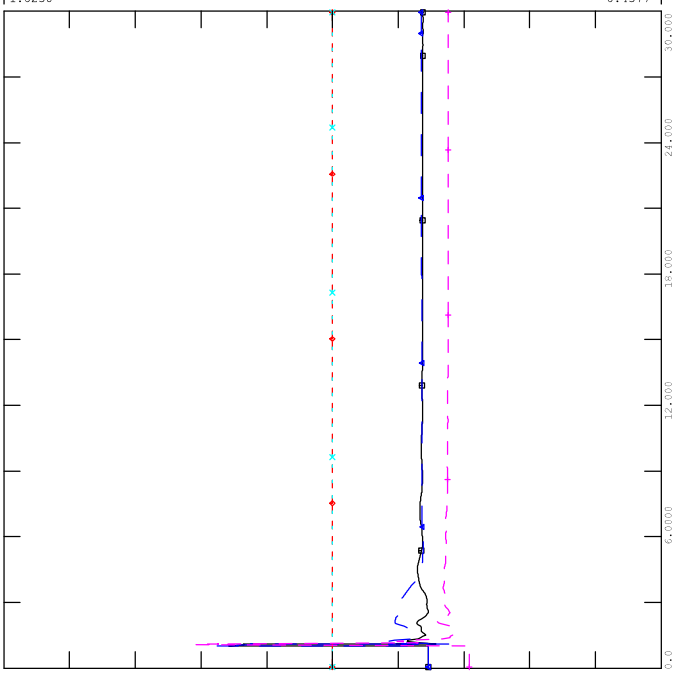
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000
CHNL# 188: [VARS 61736[BSR 4 0.6900]1] 1.1647 -0.5492
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000
CHNL# 160: [VARS 3251[CARSELA2 13.800]2] 1.0269 -0.5206
CHNL# 159: [VARS 3247[CAVAL A 13.800]1] 1.0238 -0.4377

TIME (SECONDS)



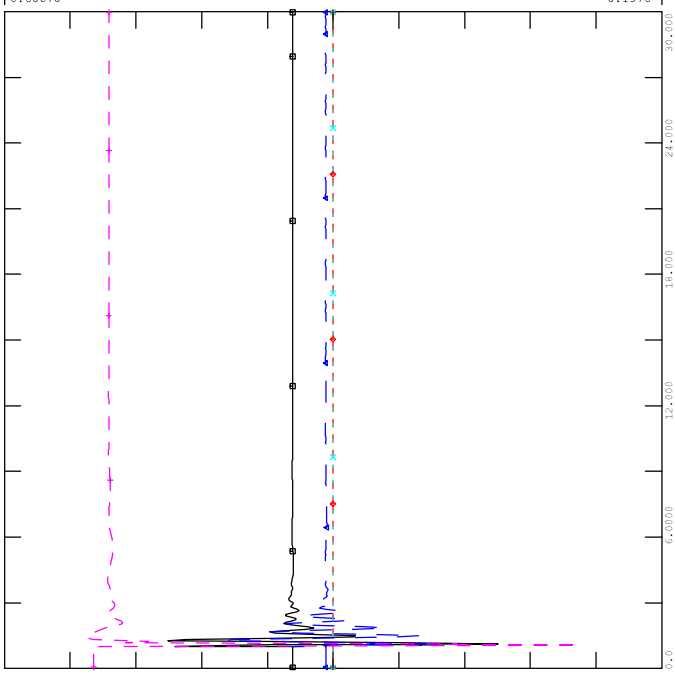
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.20000 -0.2000
CHNL# 139: [POWR 61736[BSR 4 0.6900]1] 1.5934 0.02130
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1] 0.20000 -0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2] 0.66290 0.06350
CHNL# 110: [POWR 3247[CAVAL A 13.800]1] 0.60670 -0.1976

TIME (SECONDS)



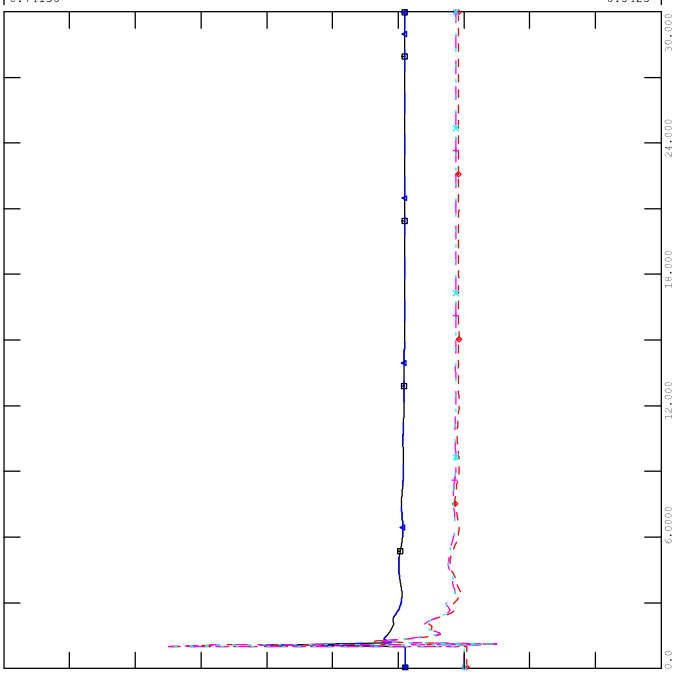
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3] 3.5073 -1.783
CHNL# 149: [VARS 774[SECCT1 21.000]2] 3.5073 -1.783
CHNL# 148: [VARS 773[SECST 20.000]1] 4.3294 -2.121
CHNL# 173: [VARS972378[0.7000]G1] 0.74160 -0.5422
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1] 0.74130 -0.5425

TIME (SECONDS)

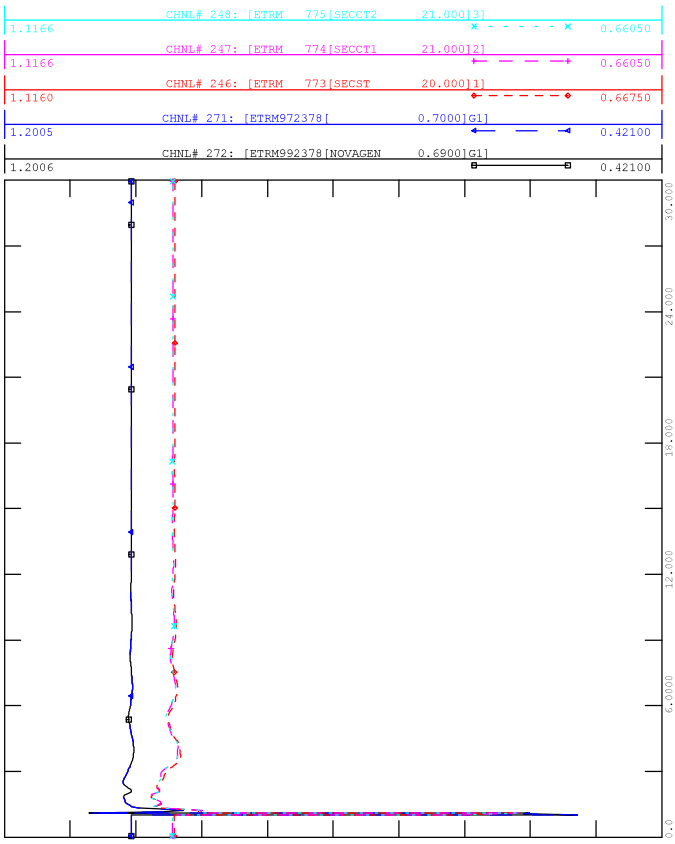


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

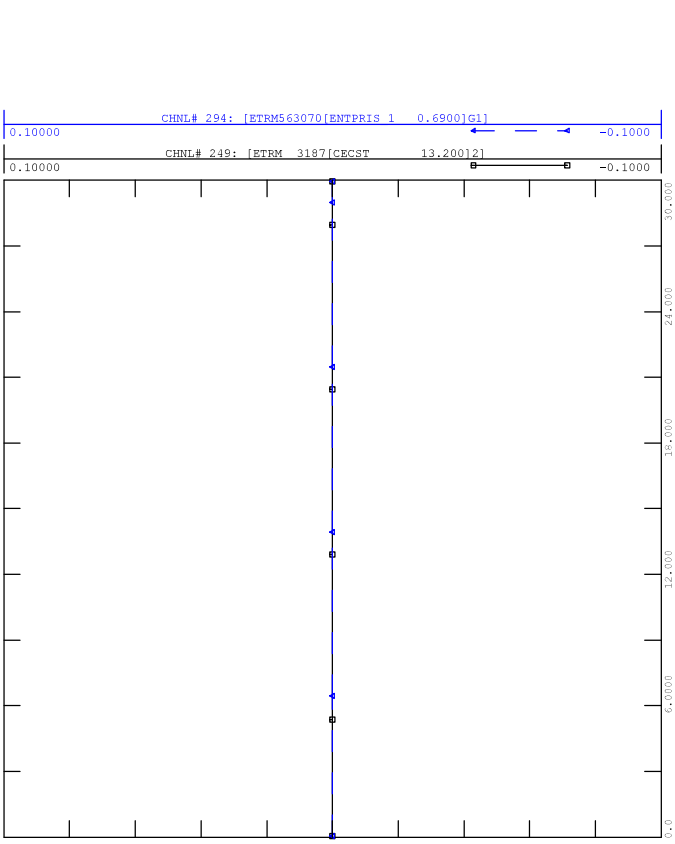


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

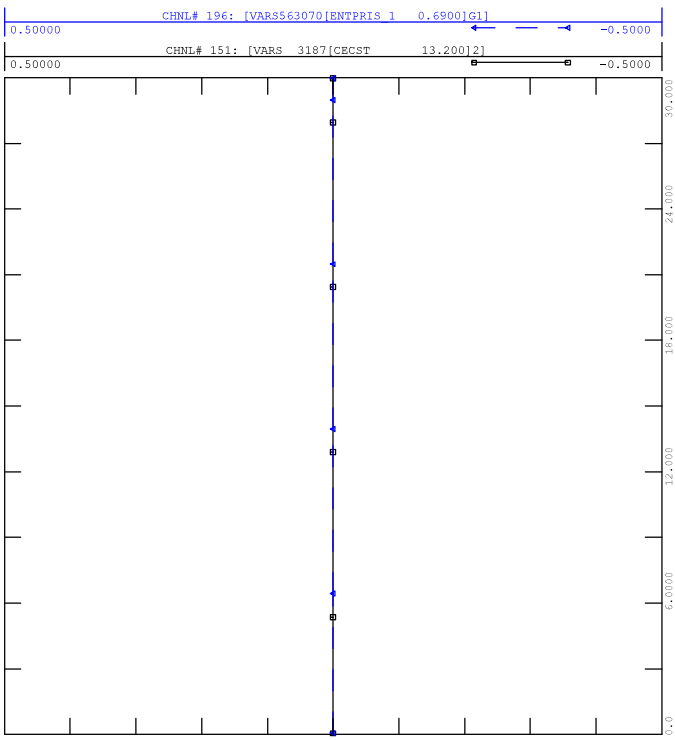


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

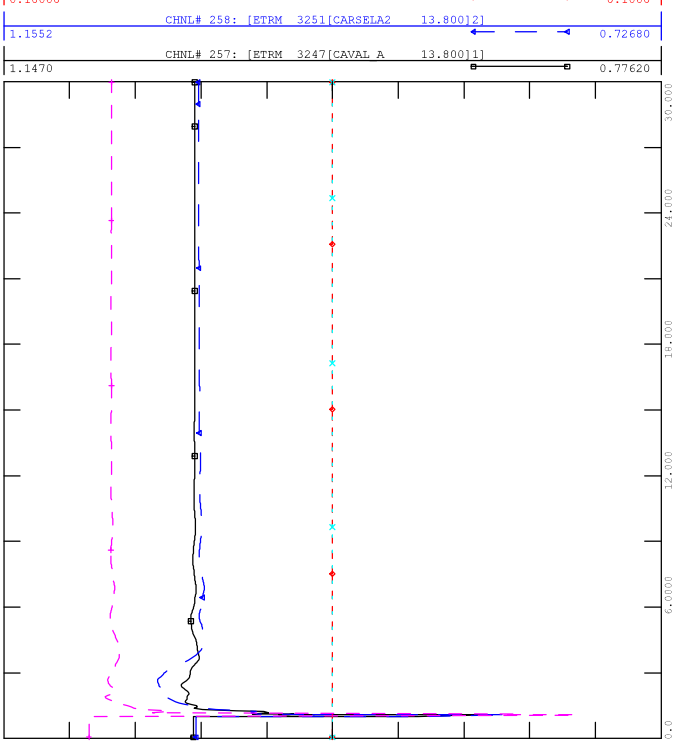


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

CHNL# 335: [1107L P]
29.711 -672.6

CHNL# 317: [1106L P]
29.782 -672.7

CHNL# 329: [1005L P]
215.36 -654.4

CHNL# 339: [1036L P]
174.31 -522.9

CHNL# 333: [935L P]
248.10 -544.7

CHNL# 321: [923L P]
333.98 -619.2

SAT, MAY 21 2022 1:16
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

CHNL# 355: [927L A2 1 P]
380.95 -868.9

CHNL# 337: [924L A2 1 P]
388.02 -867.8

CHNL# 323: [1003L P]
-224.4 -717.0

CHNL# 347: [985L P]
-227.1 -725.2

SAT, MAY 21 2022 1:16
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.1582 0.12360

CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.2918 0.23250

CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1631 0.58380

CHNL# 316: [VOLT 902378 [924L_TAP 240.00]]
1.1682 0.42410

CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2244 -0.0895

CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1617 0.53310

SAT, MAY 21 2022 1:16
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO

FILE: scn4_SL_A2_07_1036L_Milo.out

CHNL# 336: [1107L Q]
407.73 9.5112

CHNL# 318: [1106L Q]
407.89 9.6131

CHNL# 330: [1005L Q]
748.21 -256.2

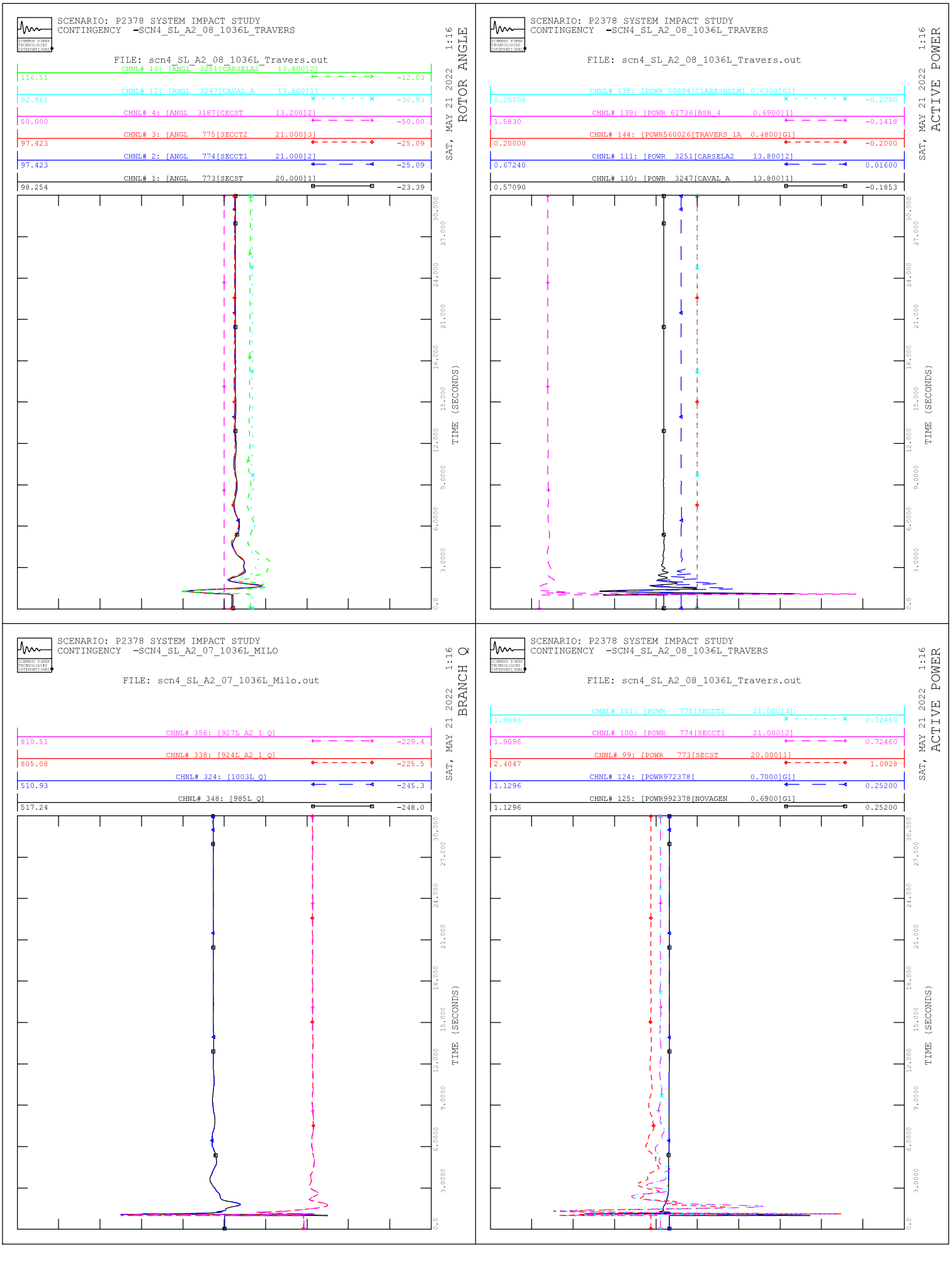
CHNL# 340: [1036L Q]
160.13 -53.38

CHNL# 334: [935L Q]
178.90 -393.1

CHNL# 322: [923L Q]
217.20 -468.1

SAT, MAY 21 2022 1:16
BRANCH Q

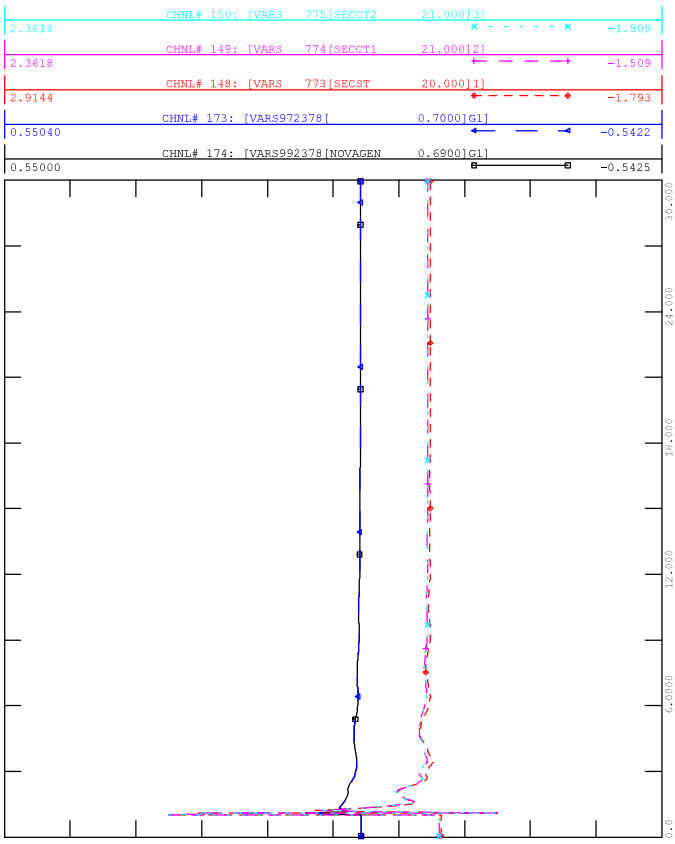
TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS
FILE: scn4_SL_A2_08_1036L_Travers.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
116.51
-12.03
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
92.961
-30.93
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
97.423
-25.09
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
97.423
-25.09
CHNL# 1: [ANGL 773[SECST 20.000]1]
98.254
-23.39
SAT, MAY 21 2022 1:16
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS
FILE: scn4_SL_A2_08_1036L_Travers.out
CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.5830
-0.1418
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.67240
0.01600
CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.57090
-0.1853
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_07_1036L_MILO
FILE: scn4_SL_A2_07_1036L_Milo.out
CHNL# 356: [927L A2 1 Q]
810.51
-229.4
CHNL# 338: [924L A2 1 Q]
805.08
-225.5
CHNL# 324: [1003L Q]
510.93
-245.3
CHNL# 348: [985L Q]
517.24
-248.0
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS
FILE: scn4_SL_A2_08_1036L_Travers.out
CHNL# 101: [POWR 775[SECCT2 21.000]3]
1.9096
0.72460
CHNL# 100: [POWR 774[SECCT1 21.000]2]
1.9096
0.72460
CHNL# 99: [POWR 773[SECST 20.000]1]
2.4047
1.0928
CHNL# 124: [POWR972378[0.7000]G1]
1.1296
0.25200
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.1296
0.25200
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

FILE: scn4_SL_A2_08_1036L_Travers.out

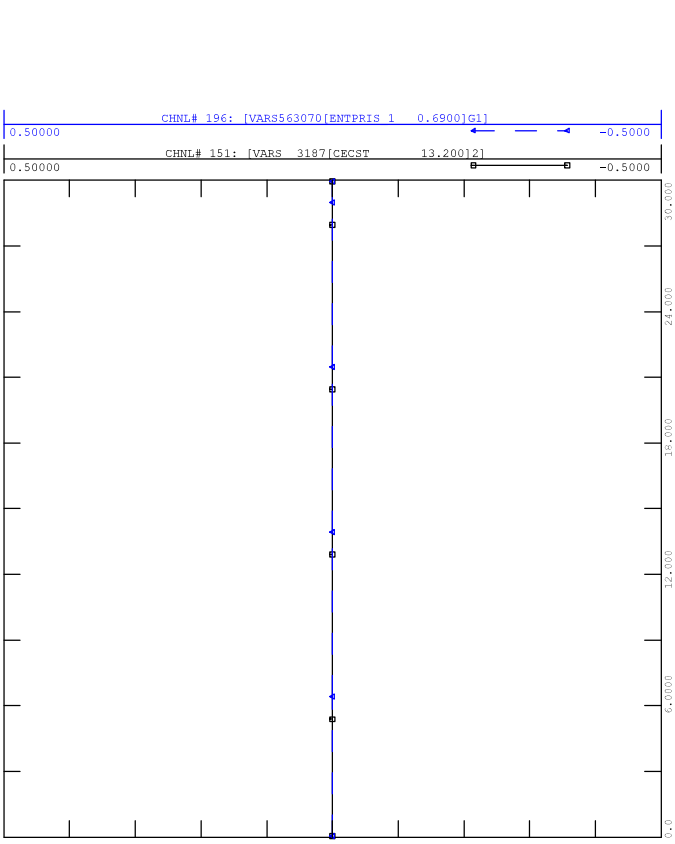
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

FILE: scn4_SL_A2_08_1036L_Travers.out

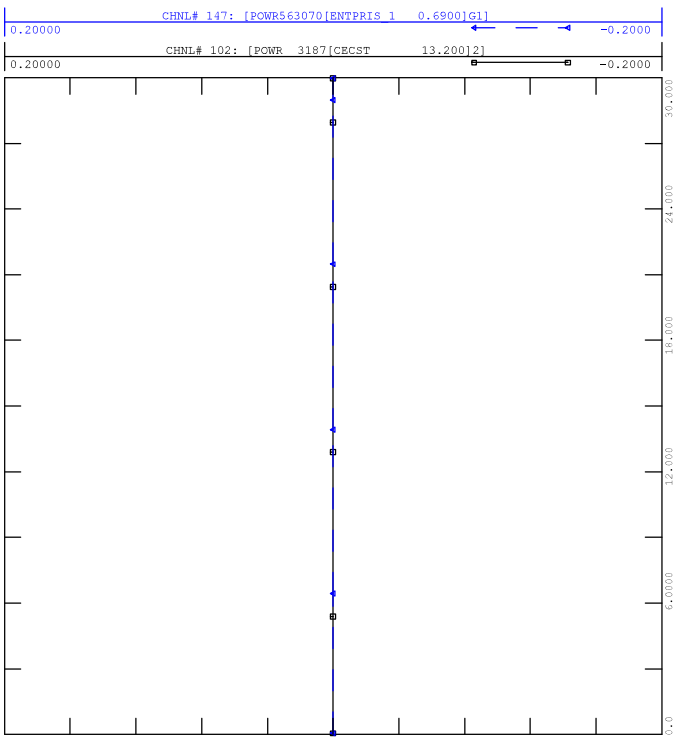
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

FILE: scn4_SL_A2_08_1036L_Travers.out

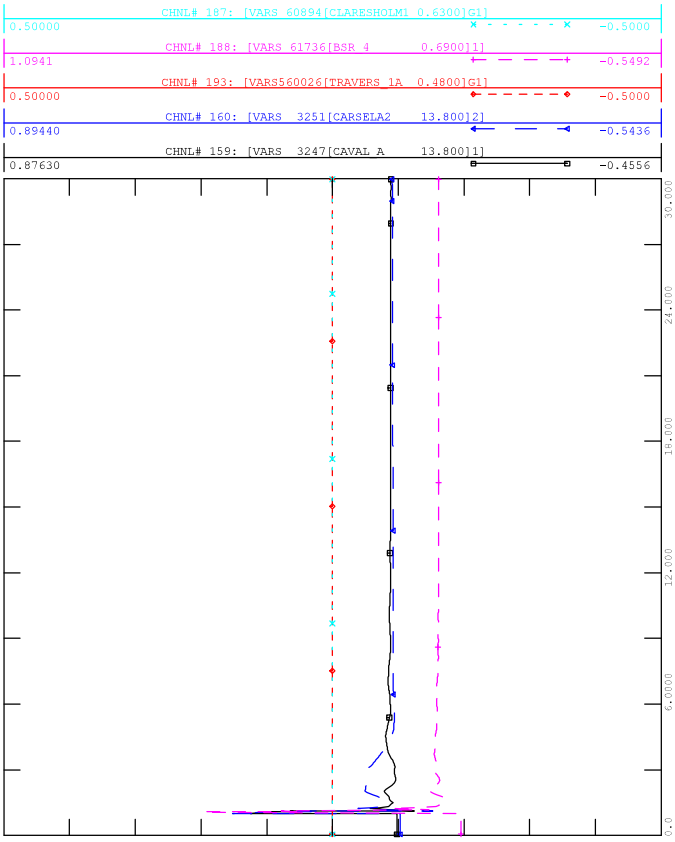
SAT, MAY 21 2022 1:16
ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

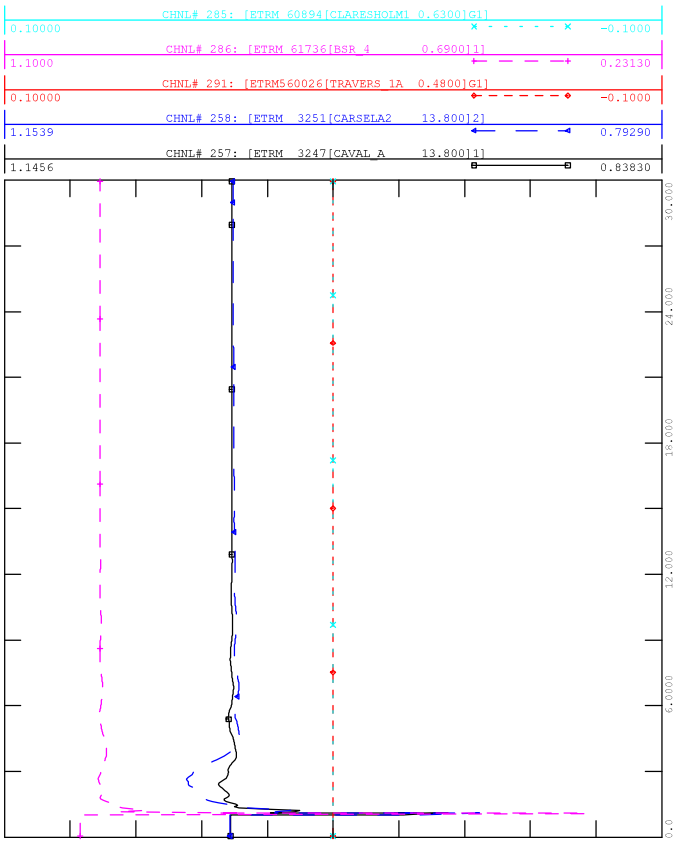
FILE: scn4_SL_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

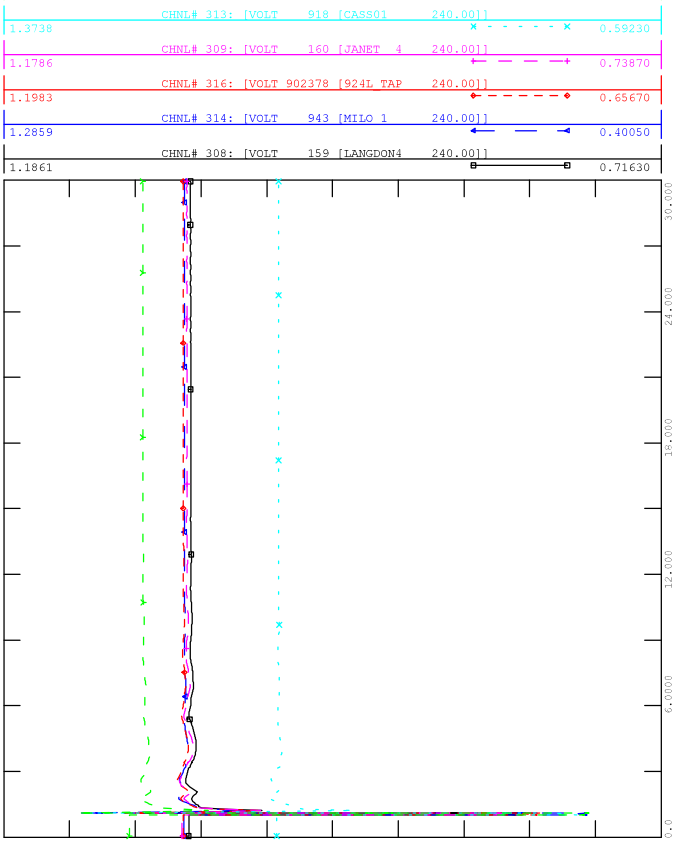
FILE: scn4_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

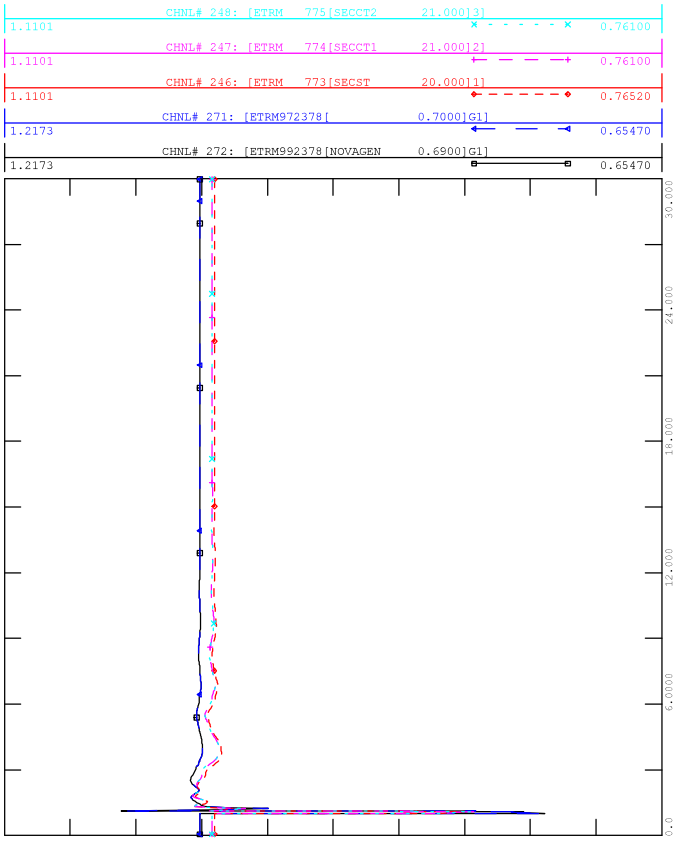
FILE: scn4_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

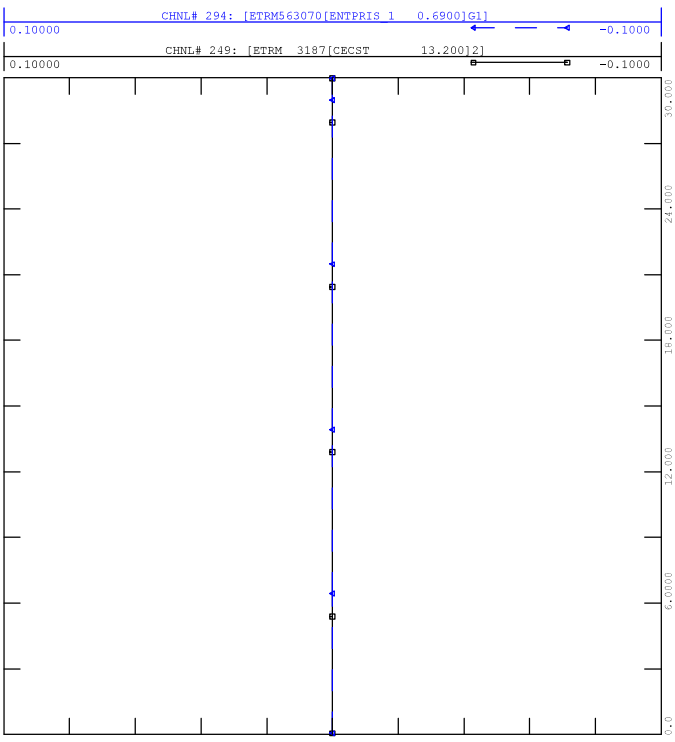
FILE: scn4_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

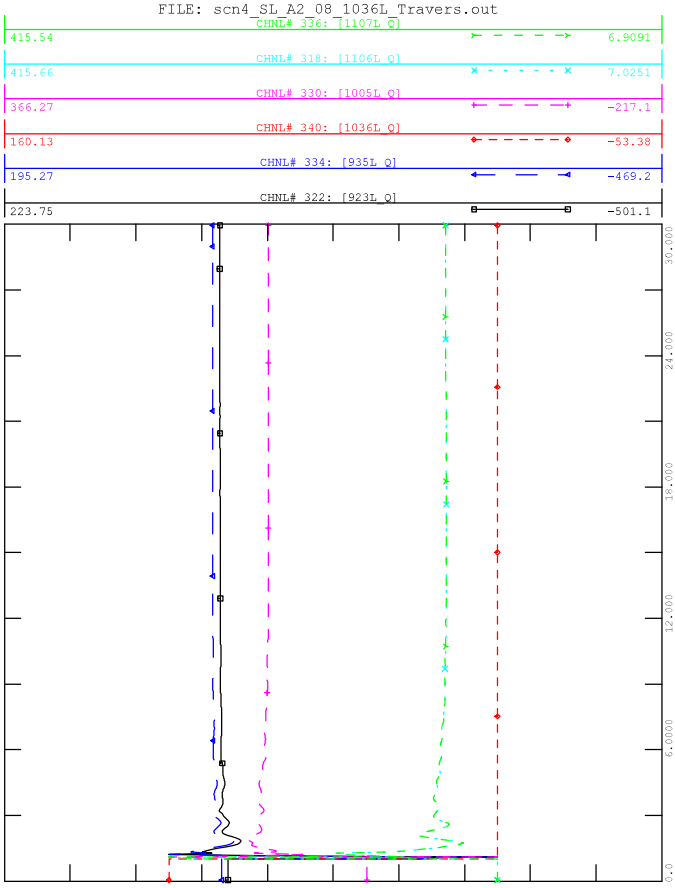
FILE: scn4_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

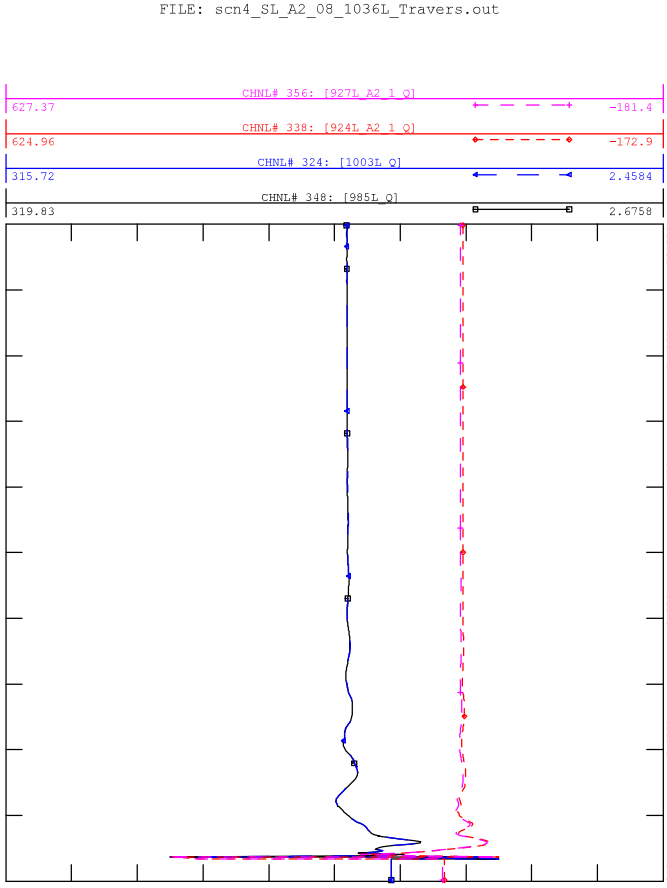
FILE: scn4_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

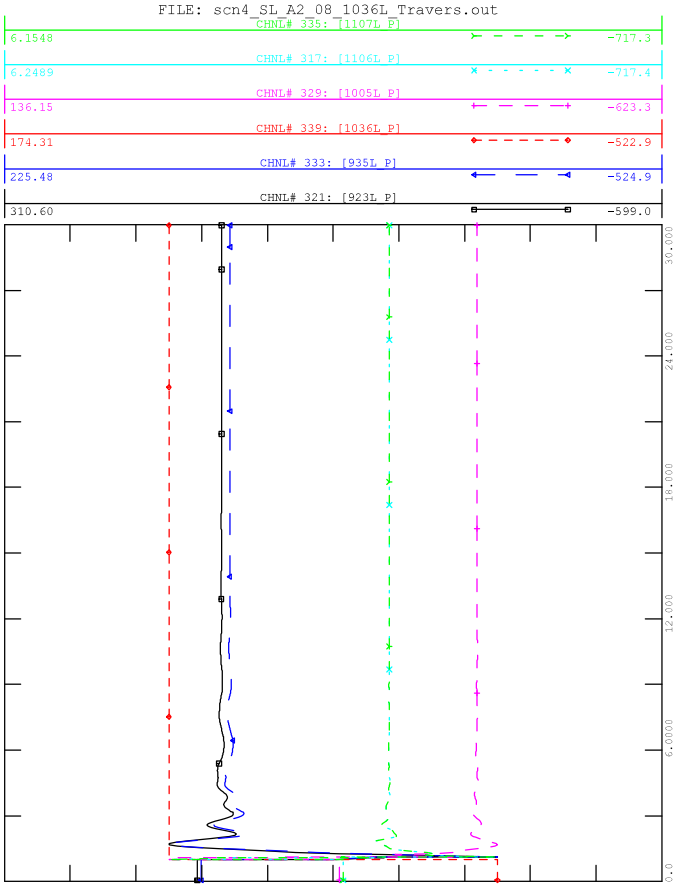
FILE: scn4_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

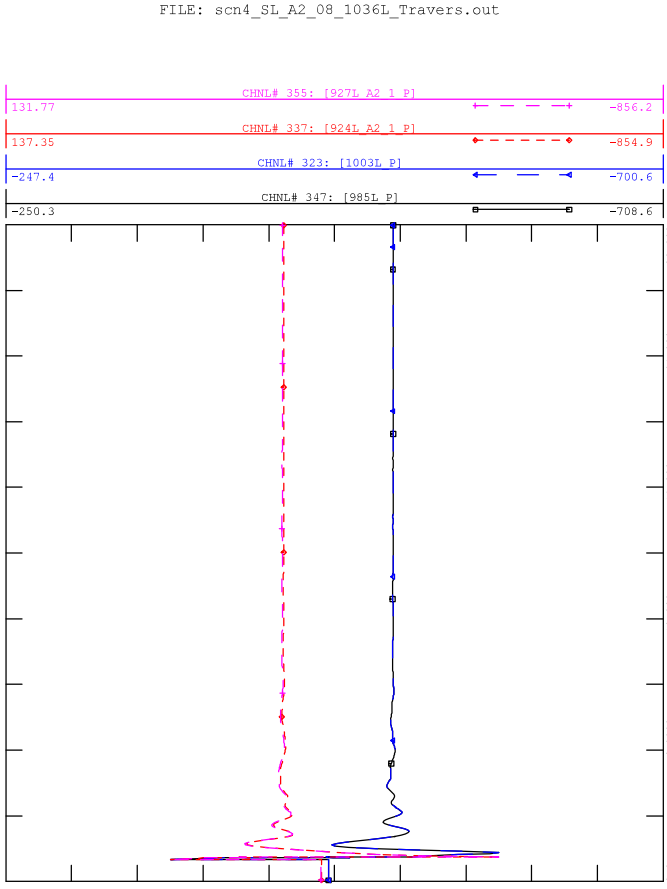
FILE: scn4_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_08_1036L_TRAVERS

FILE: scn4_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:16 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

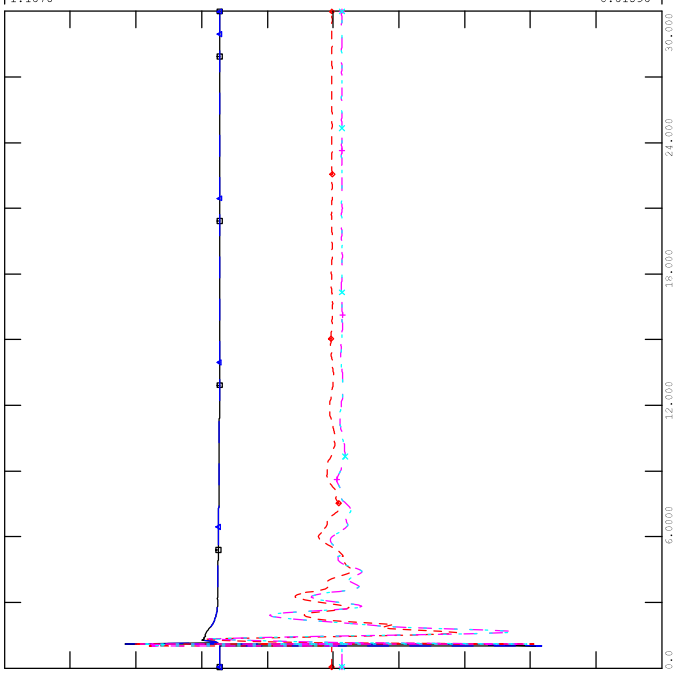
CHNL# 101: [POWR 775[SECCT2 21.000]3]
1.9215 0.94800

CHNL# 100: [POWR 774[SECCT1 21.000]2]
1.9215 0.94800

CHNL# 99: [POWR 773[SECST 20.000]1]
2.4066 1.3812

CHNL# 124: [POWR972378[0.7000]G1]
1.1078 0.01590

CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.1078 0.01590



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

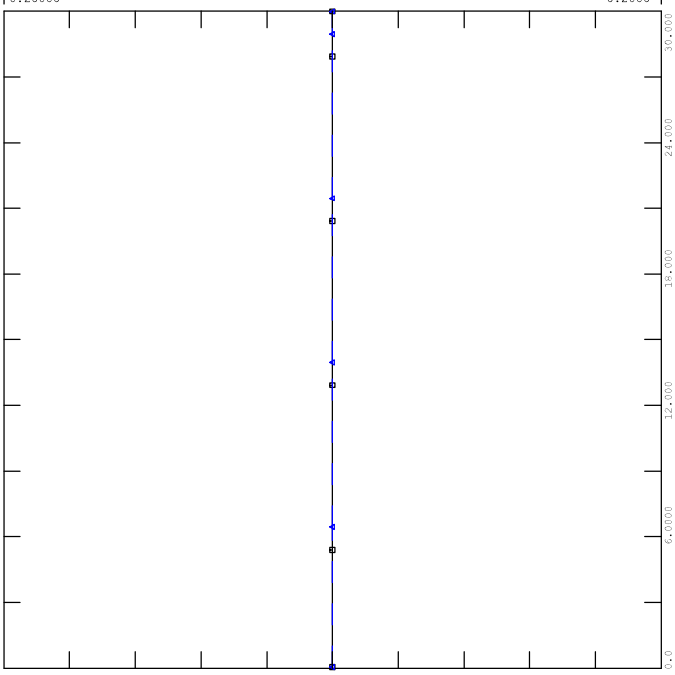
FILE: scn4_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000

CHNL# 102: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
115.24 -12.33

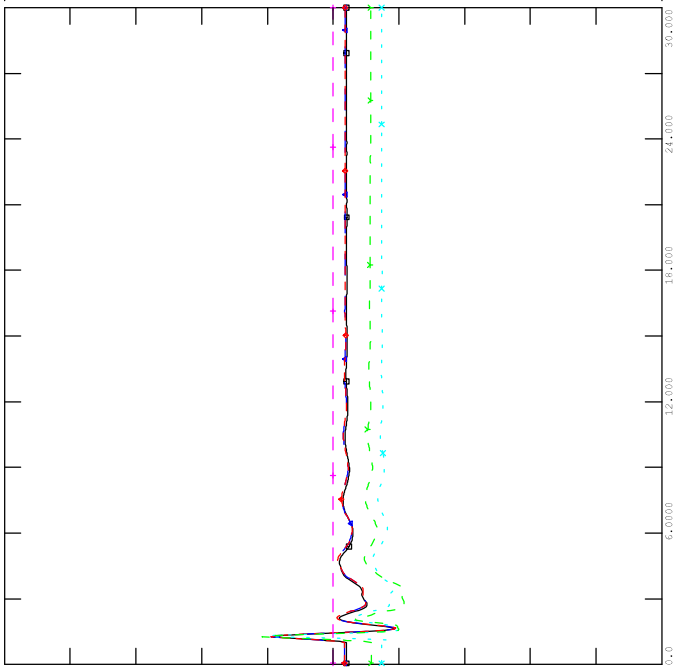
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
94.121 -30.52

CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00

CHNL# 3: [ANGL 775[SECCT2 21.000]3]
97.878 -25.56

CHNL# 2: [ANGL 774[SECCT1 21.000]2]
97.878 -25.56

CHNL# 1: [ANGL 773[SECST 20.000]1]
98.555 -23.92



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

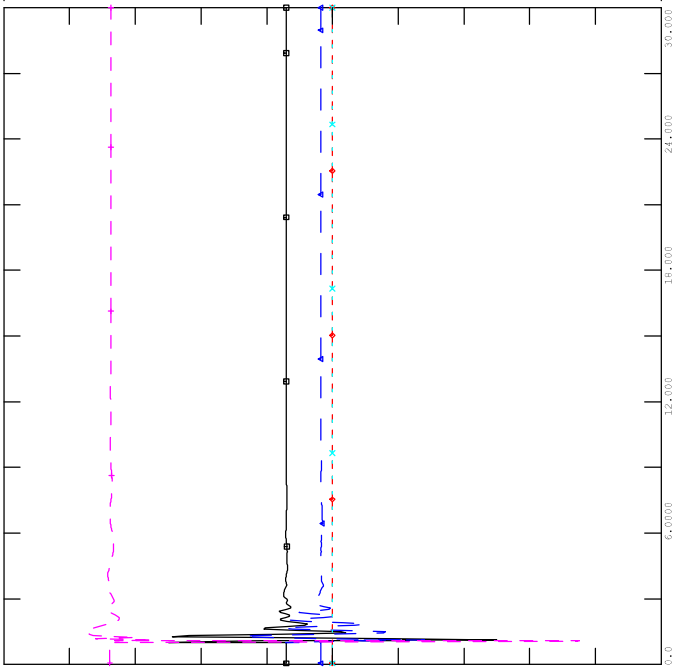
CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000

CHNL# 139: [POWR 61736[BSR 4 0.6900]1]
1.6392 0.03310

CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000

CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.63780 0.08250

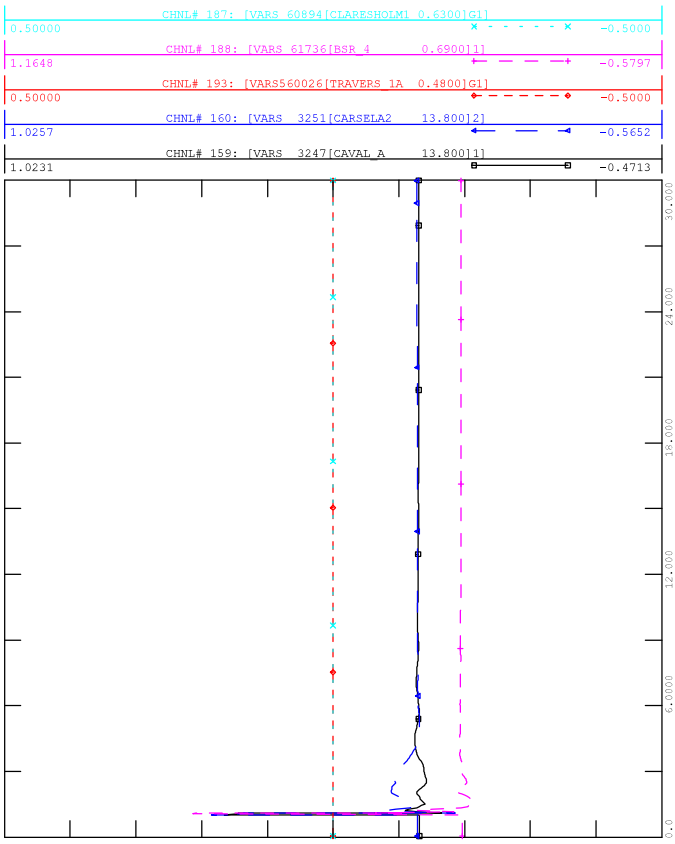
CHNL# 110: [POWR 3247[CAVAL A 13.800]1]
0.59780 -0.2016



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

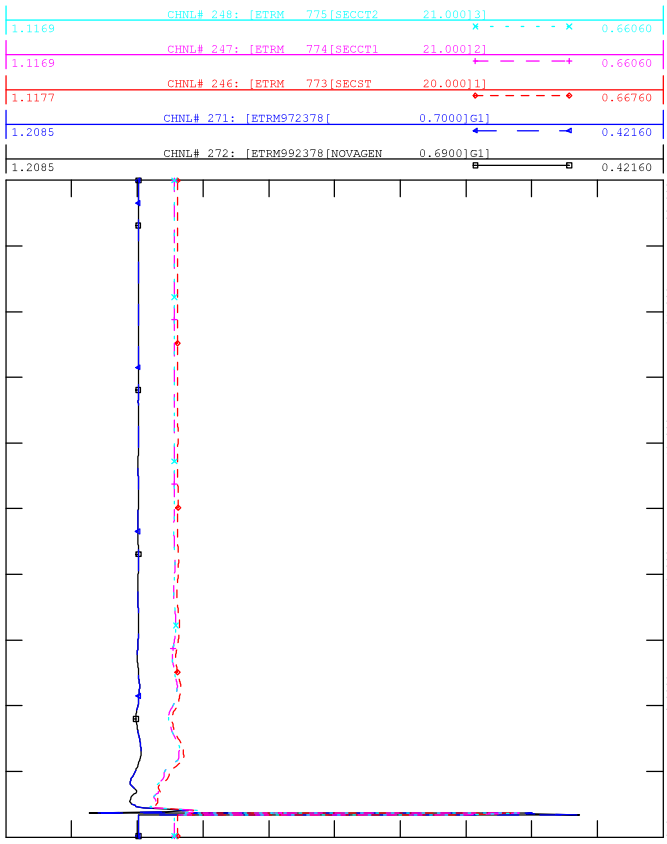
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

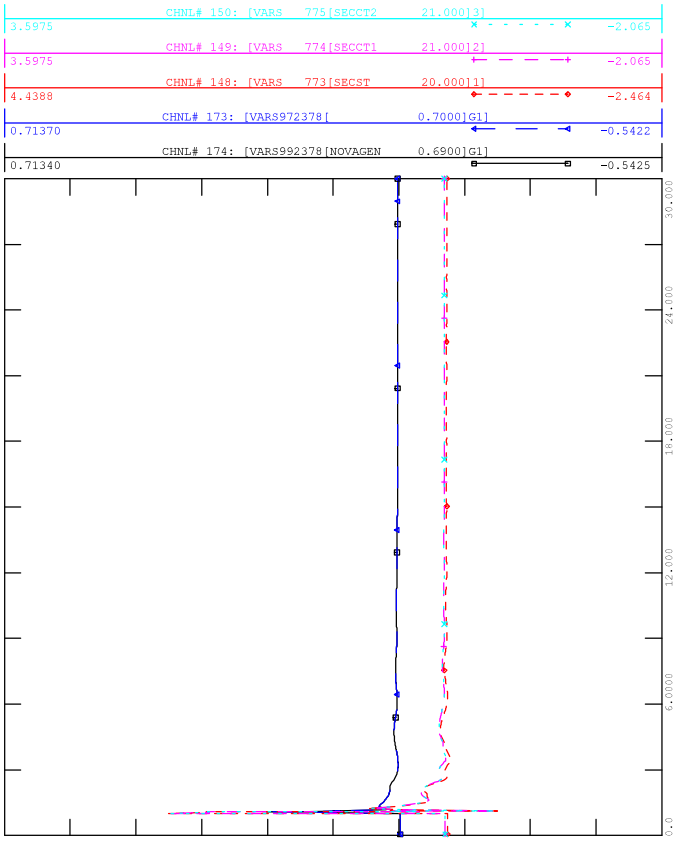
SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

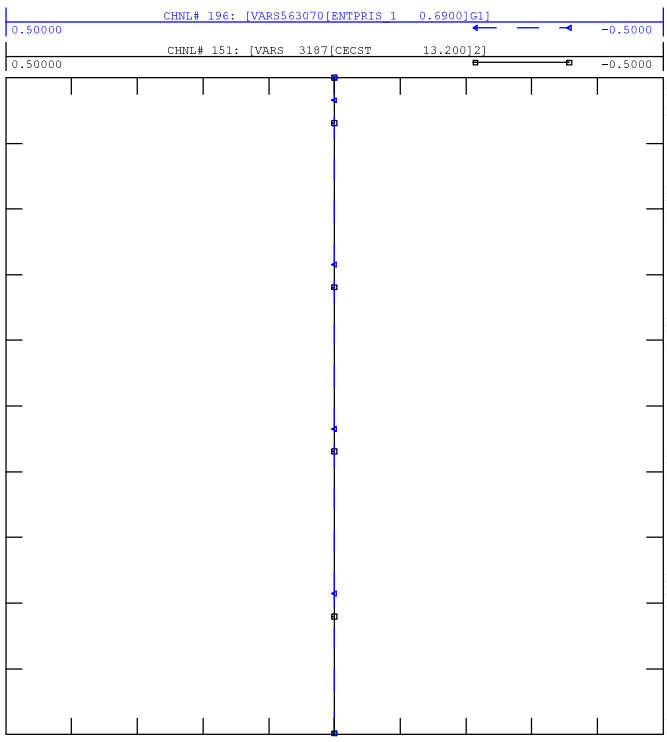
SAT, MAY 21 2022 1:16
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:16
REACTIVE POWER



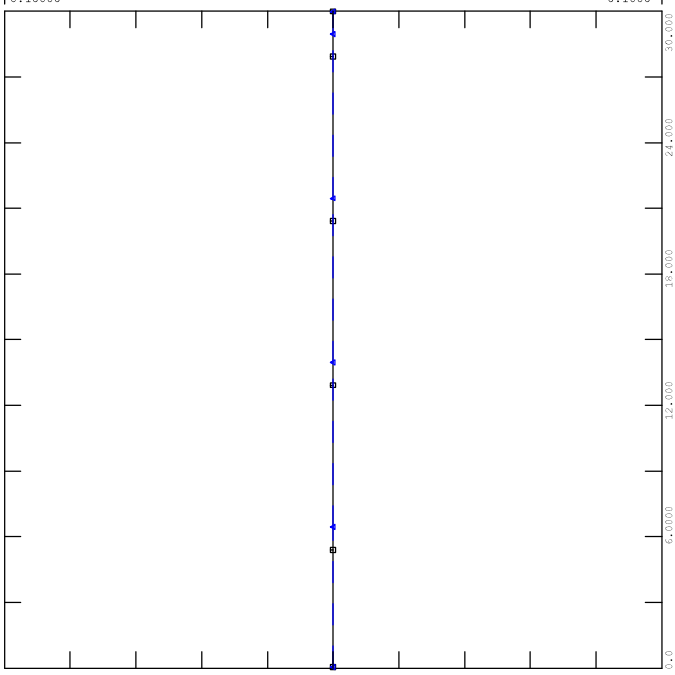
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000

CHNL# 249: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:16
BRANCH P

CHNL# 335: [1107L P]
18.286 -642.2

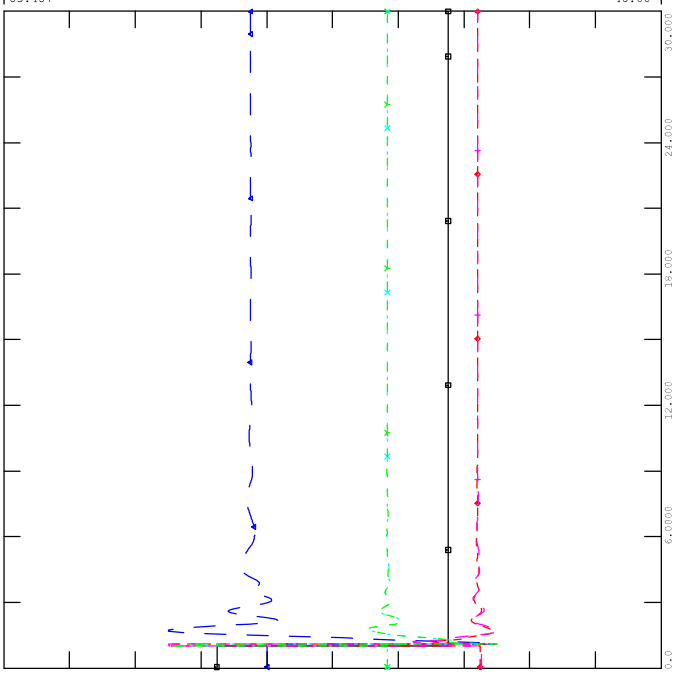
CHNL# 317: [1106L P]
18.361 -642.3

CHNL# 329: [1005L P]
128.07 -392.7

CHNL# 339: [1036L P]
177.24 -548.3

CHNL# 333: [935L P]
518.84 -774.1

CHNL# 321: [923L P]
83.457 -40.00



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

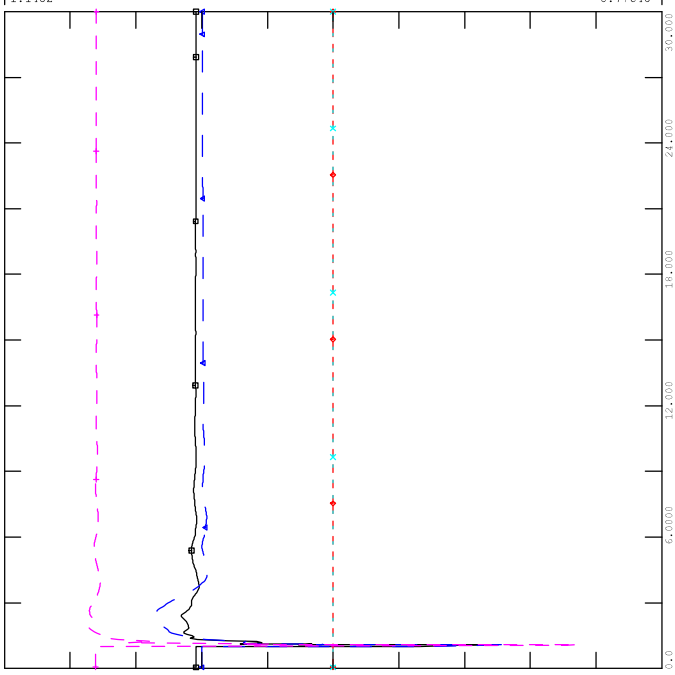
CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000

CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1076 0.32910

CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000

CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1602 0.72700

CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1482 0.77640



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

FILE: scn4_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:16
BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.2093 0.12390

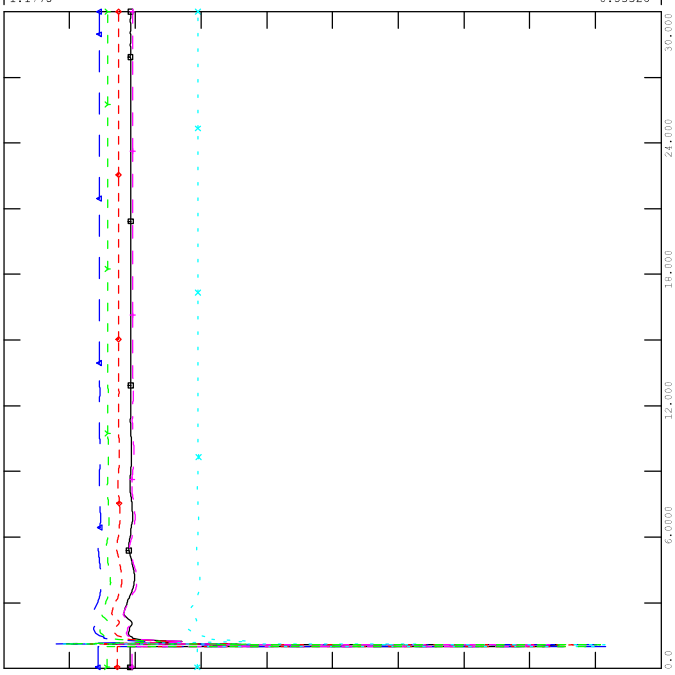
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3935 0.22420

CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1744 0.58400

CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1818 0.42420

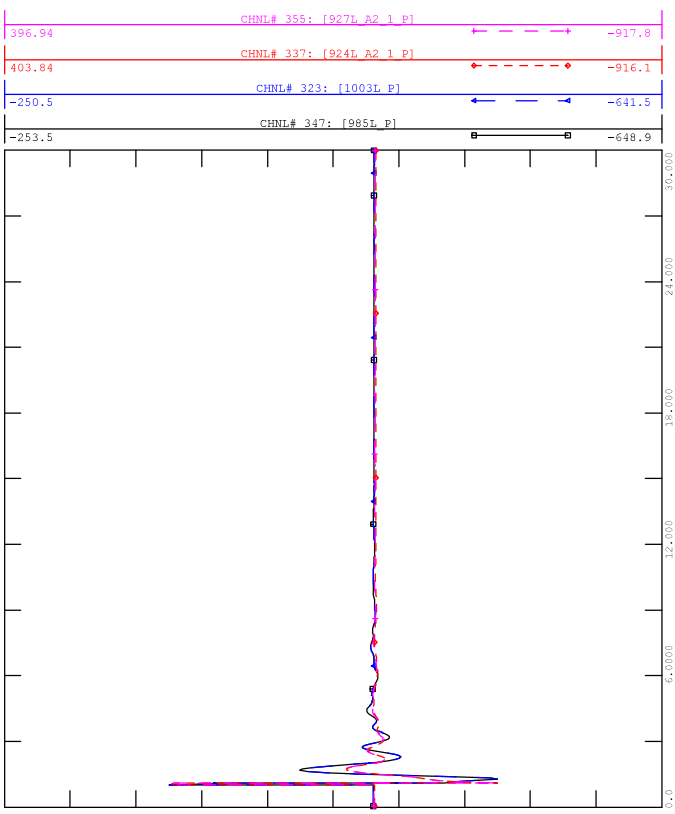
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2334 -0.0891

CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1775 0.53320



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

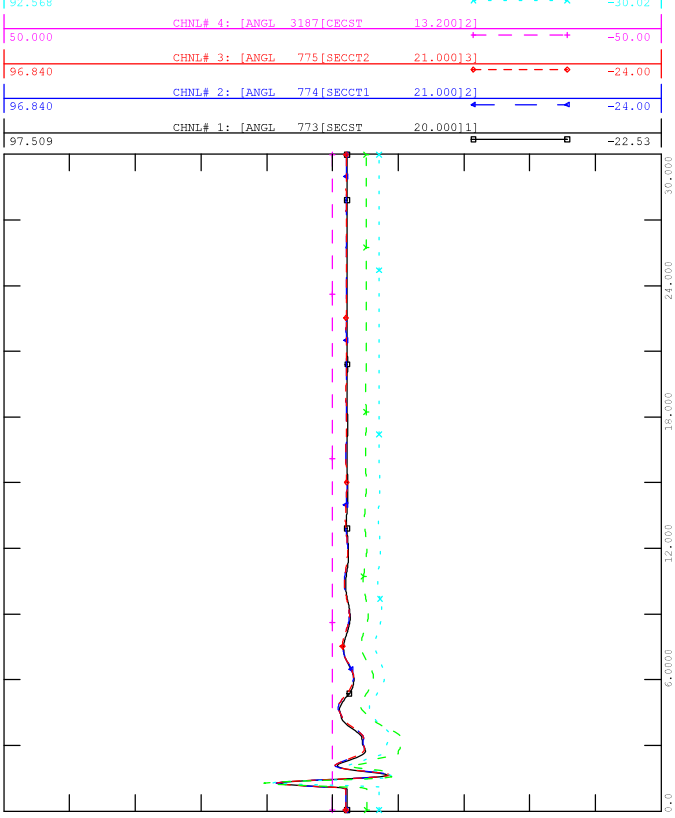
FILE: scn4_SL_A2_09_923L_Milo.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

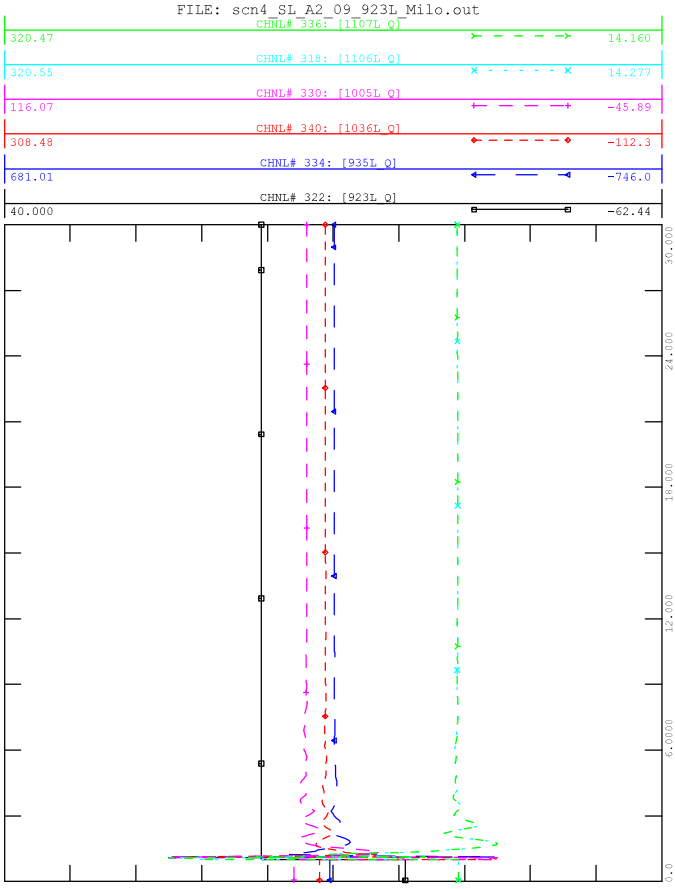
FILE: scn4_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:16
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

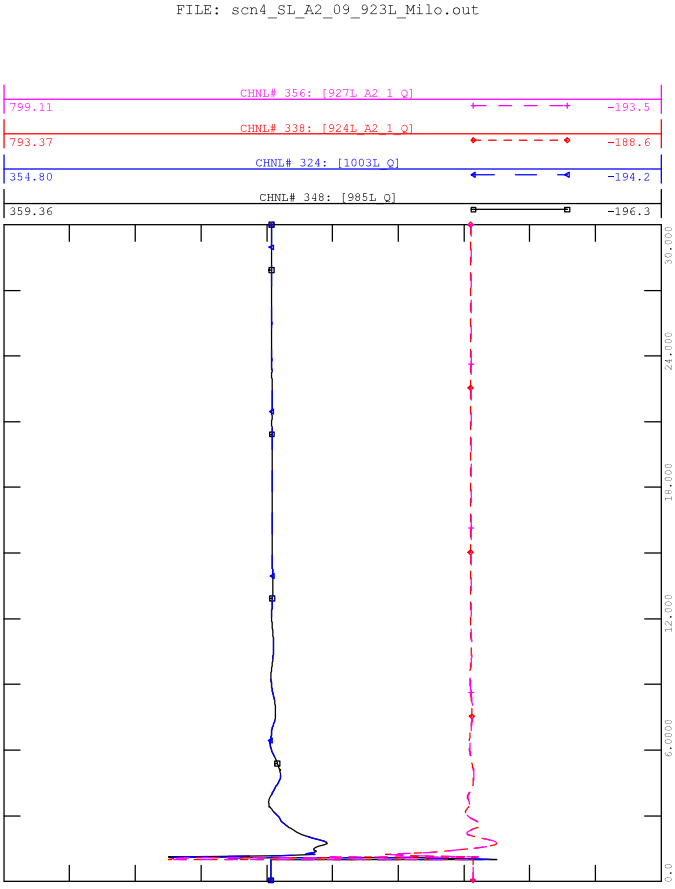
FILE: scn4_SL_A2_09_923L_Milo.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_09_923L_MILO

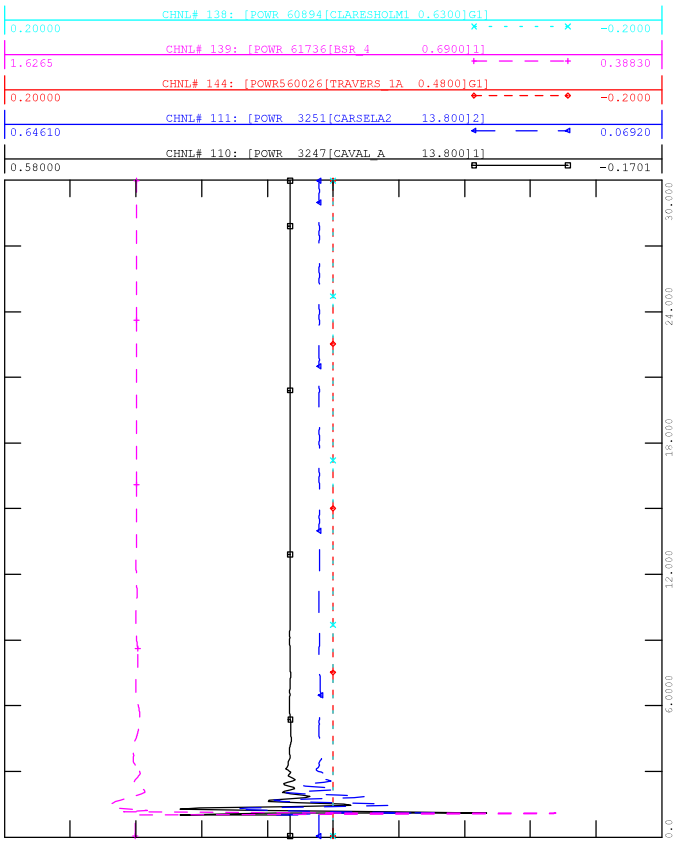
FILE: scn4_SL_A2_09_923L_Milo.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

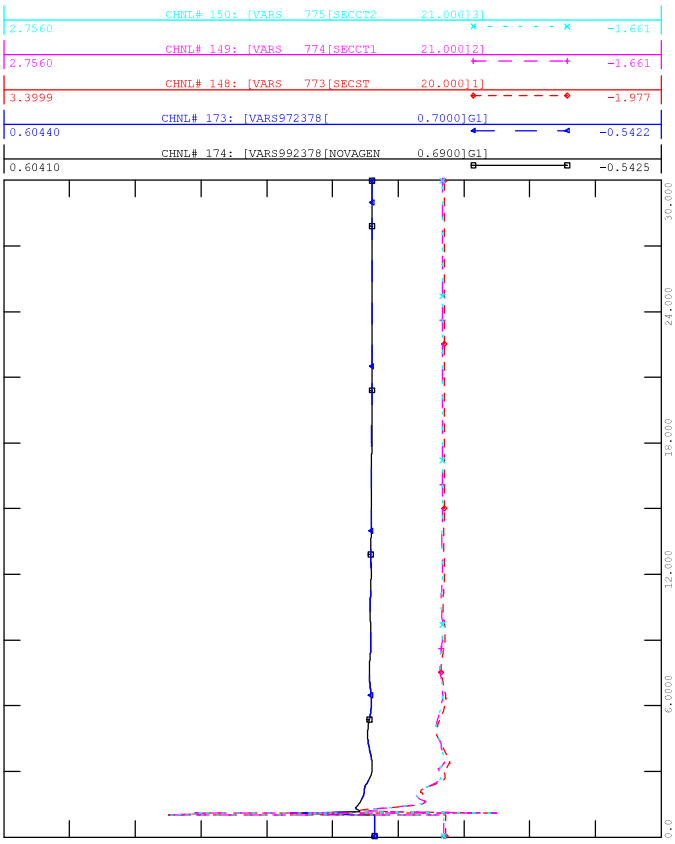
FILE: scn4_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

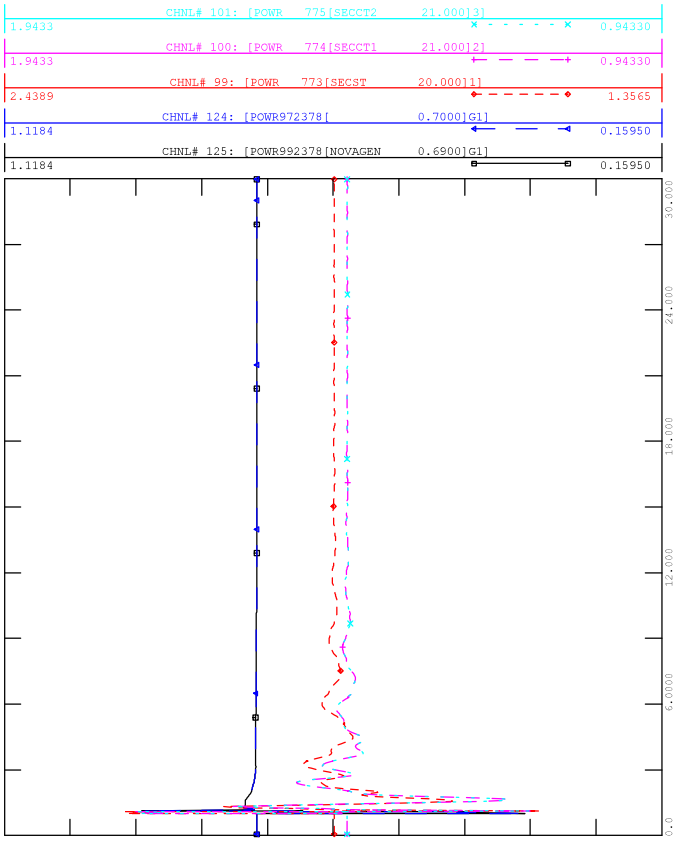
FILE: scn4_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:16
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

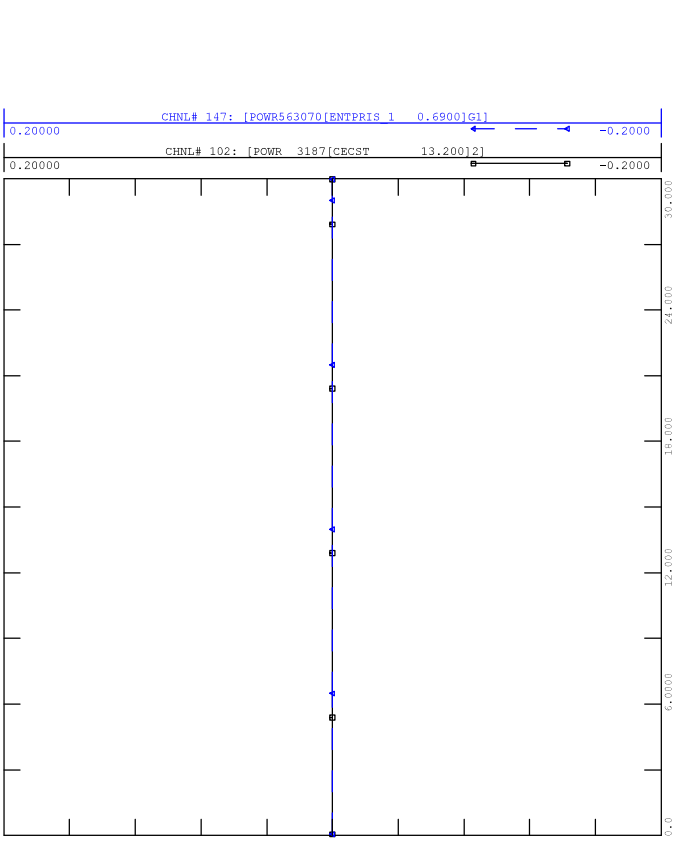
FILE: scn4_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

FILE: scn4_SL_A2_10_923L_Newell.out

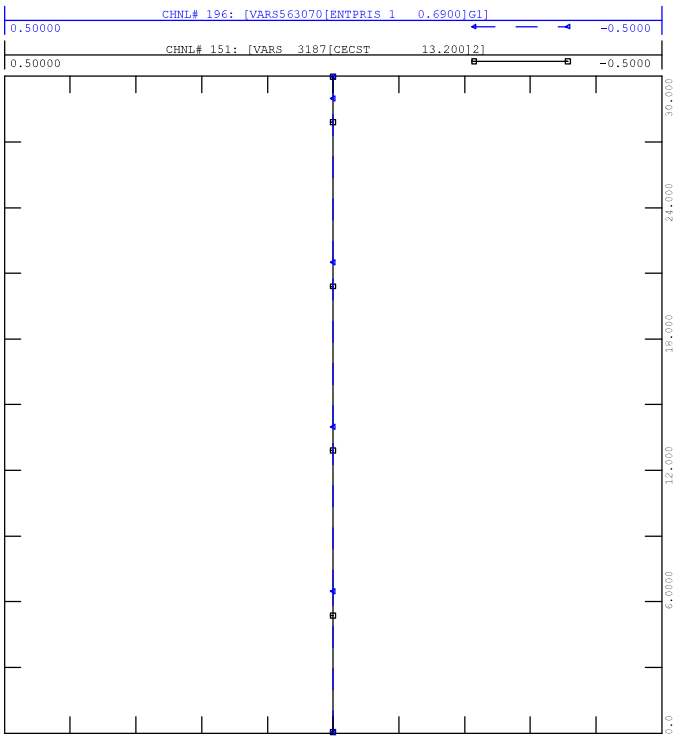


SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

FILE: scn4_SL_A2_10_923L_Newell.out

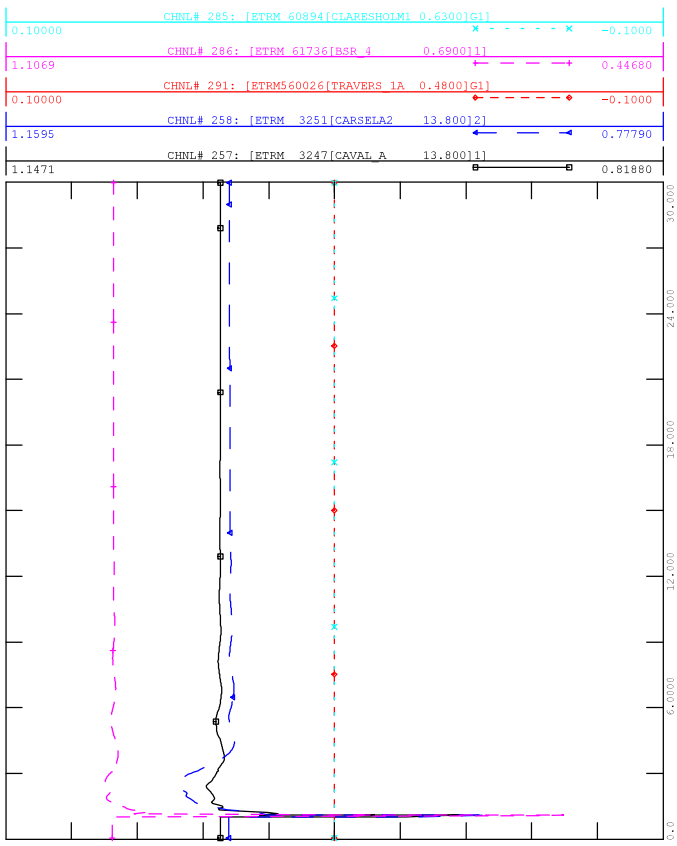
SAT, MAY 21 2022 1:16 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

FILE: scn4_SL_A2_10_923L_Newell.out

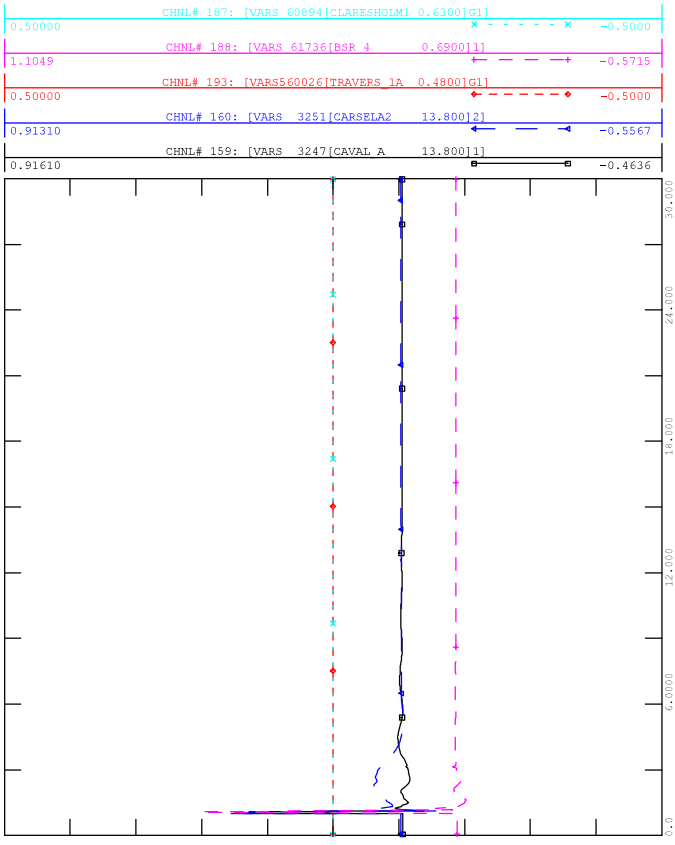
SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

FILE: scn4_SL_A2_10_923L_Newell.out

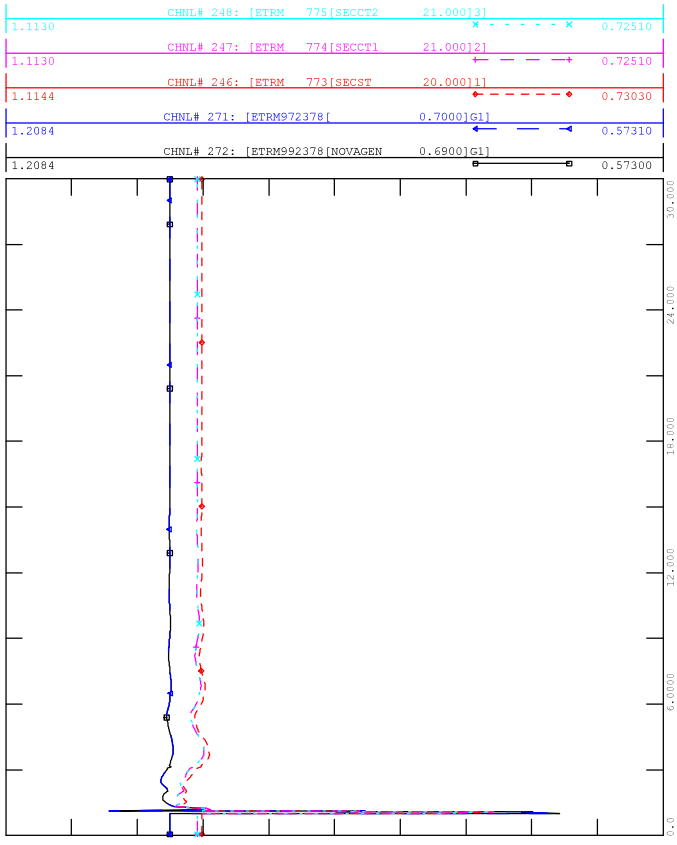
SAT, MAY 21 2022 1:16 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

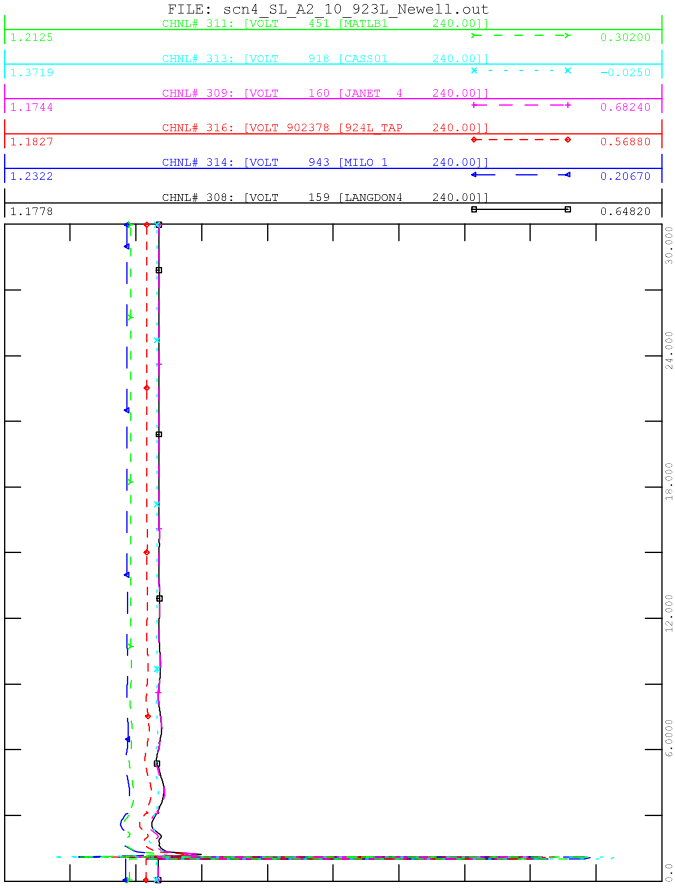
FILE: scn4_SL_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:16 TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

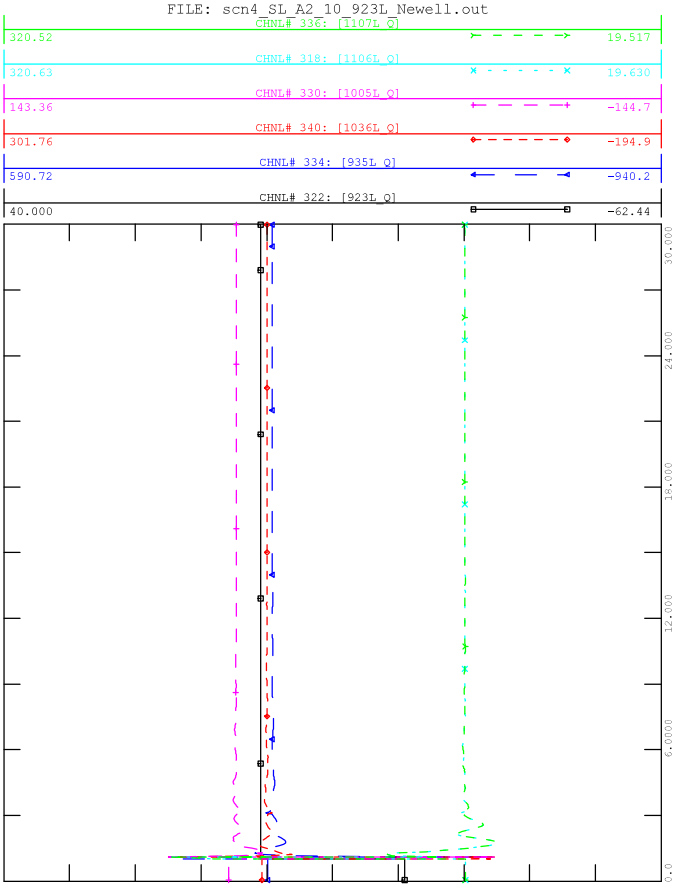
FILE: scn4_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

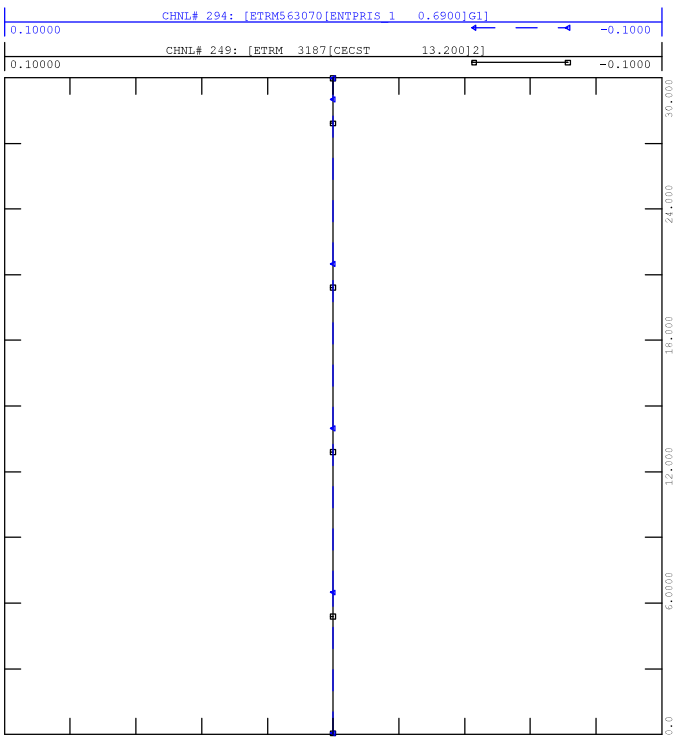
FILE: scn4_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

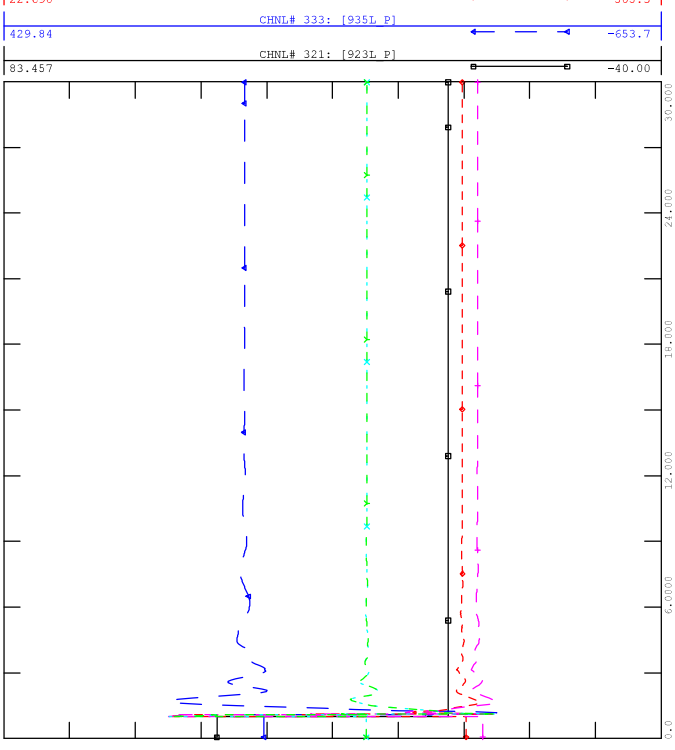
FILE: scn4_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

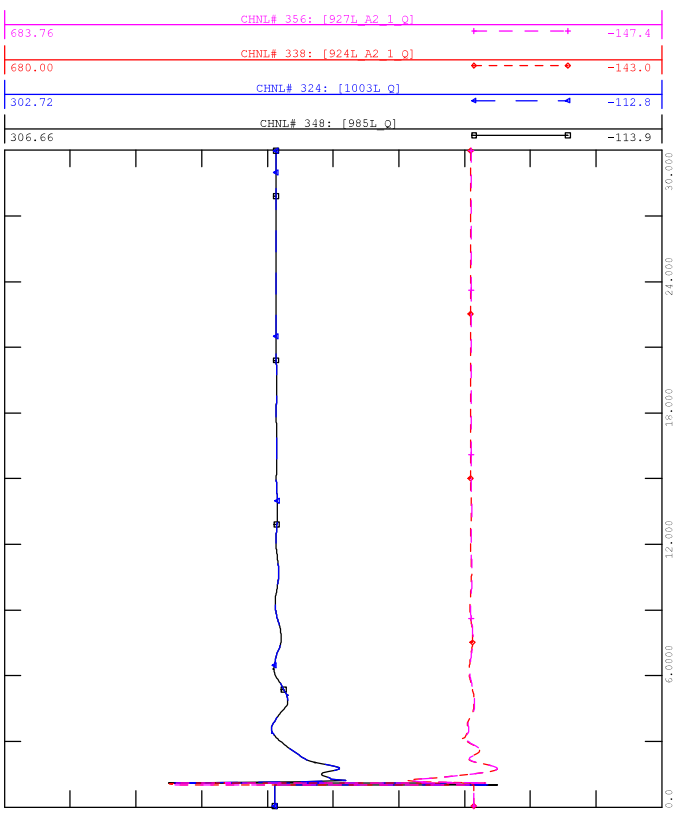
FILE: scn4_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

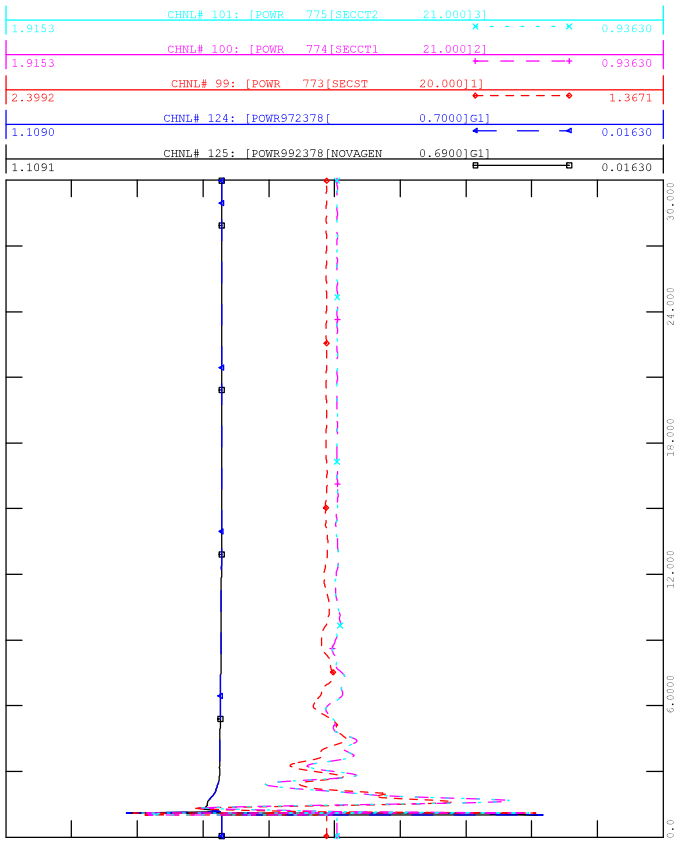
FILE: scn4_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

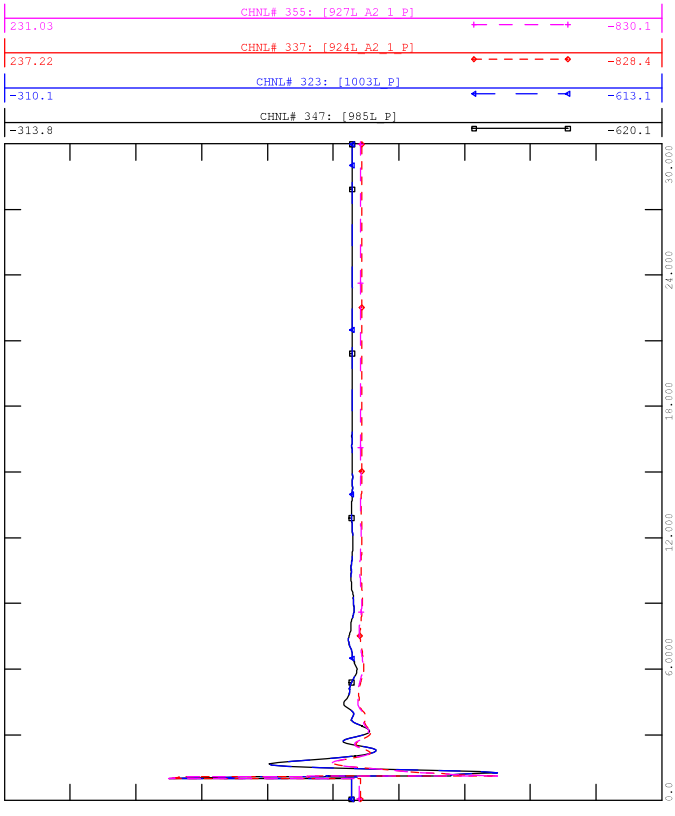
FILE: scn4_SL_A2_11_935L_Milo.out



SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_10_923L_NEWELL

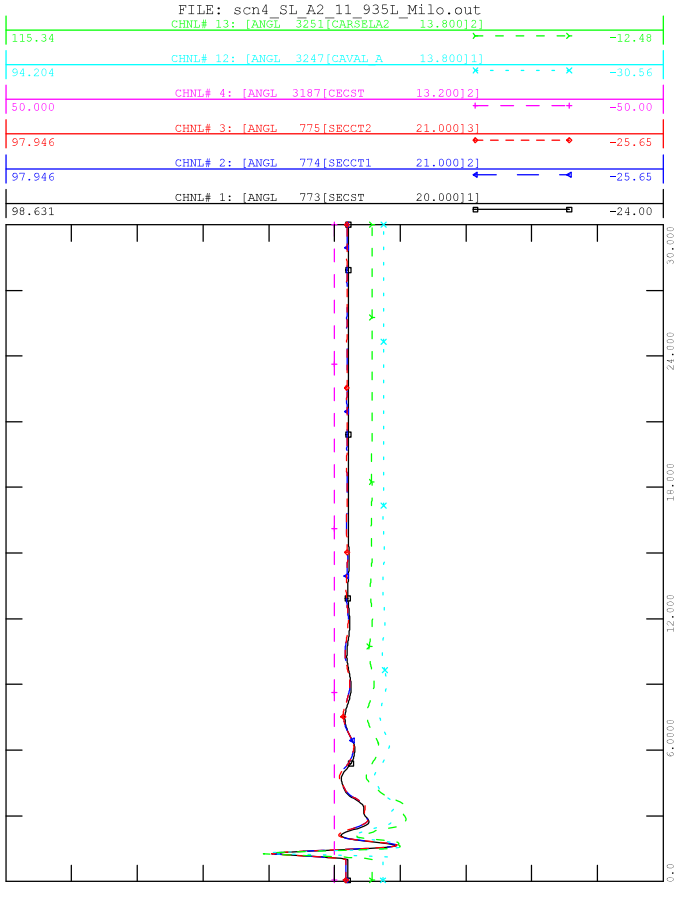
FILE: scn4_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out



SAT, MAY 21 2022 1:16
ROTOR ANGLE

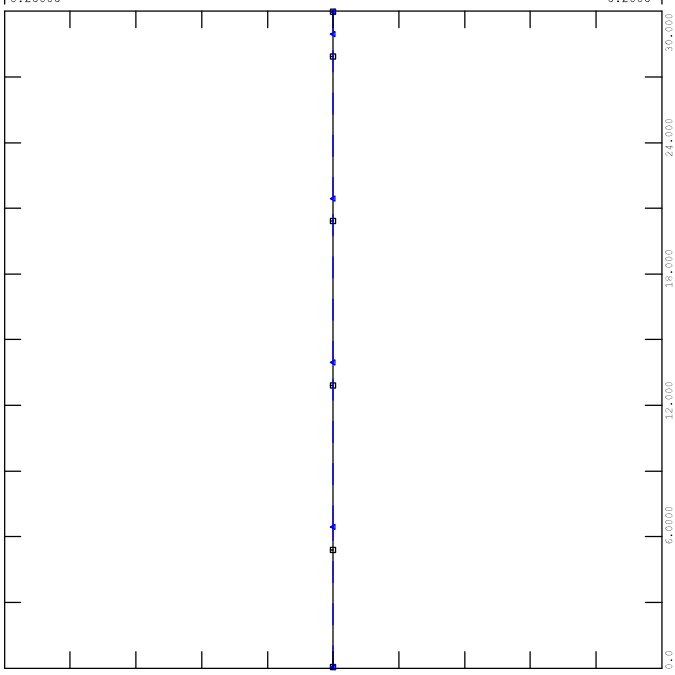
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1] 0.20000 -0.2000
CHNL# 102: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000

TIME (SECONDS)



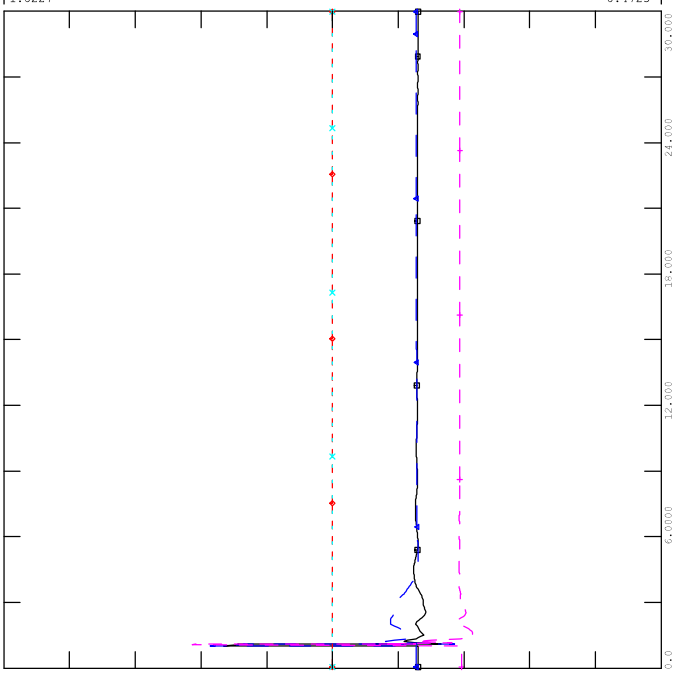
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000
CHNL# 188: [VARS 61736[BSR 4 0.6900]1] 1.1649 -0.5788
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000
CHNL# 160: [VARS 3251[CARSELA2 13.800]2] 1.0254 -0.5661
CHNL# 159: [VARS 3247[CAVAL A 13.800]1] 1.0227 -0.4723

TIME (SECONDS)



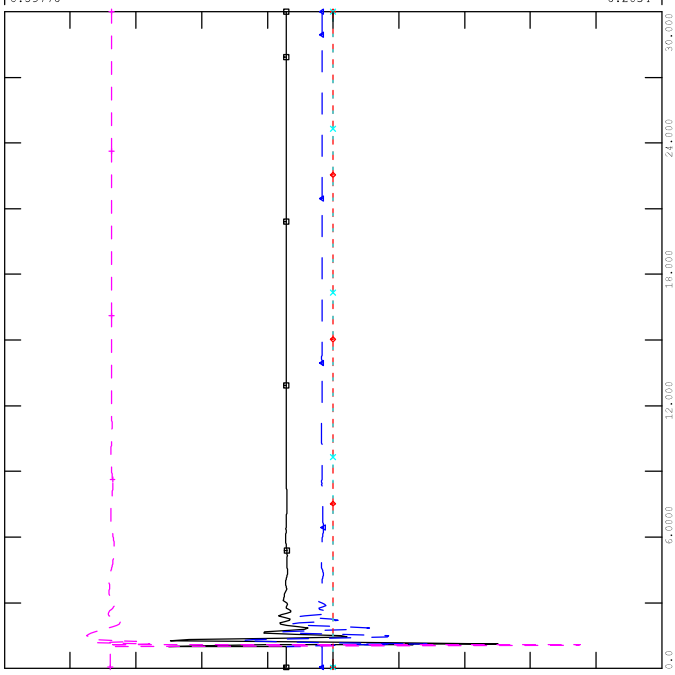
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.20000 -0.2000
CHNL# 139: [POWR 61736[BSR 4 0.6900]1] 1.6382 0.03540
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1] 0.20000 -0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2] 0.64010 0.08050
CHNL# 110: [POWR 3247[CAVAL A 13.800]1] 0.59770 -0.2034

TIME (SECONDS)



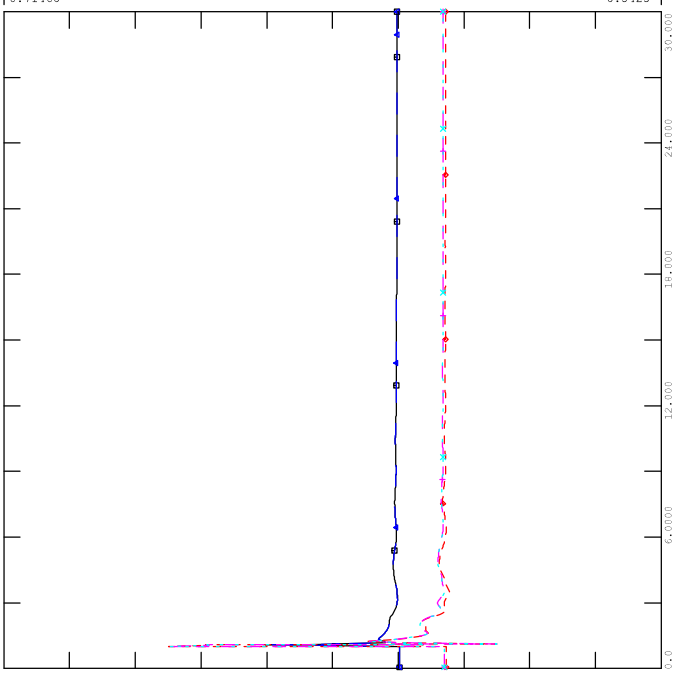
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3] 3.5970 -2.070
CHNL# 149: [VARS 774[SECCT1 21.000]2] 3.5970 -2.070
CHNL# 148: [VARS 773[SECST 20.000]1] 4.4382 -2.470
CHNL# 173: [VARS972378[0.7000]G1] 0.71490 -0.5422
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1] 0.71460 -0.5425

TIME (SECONDS)

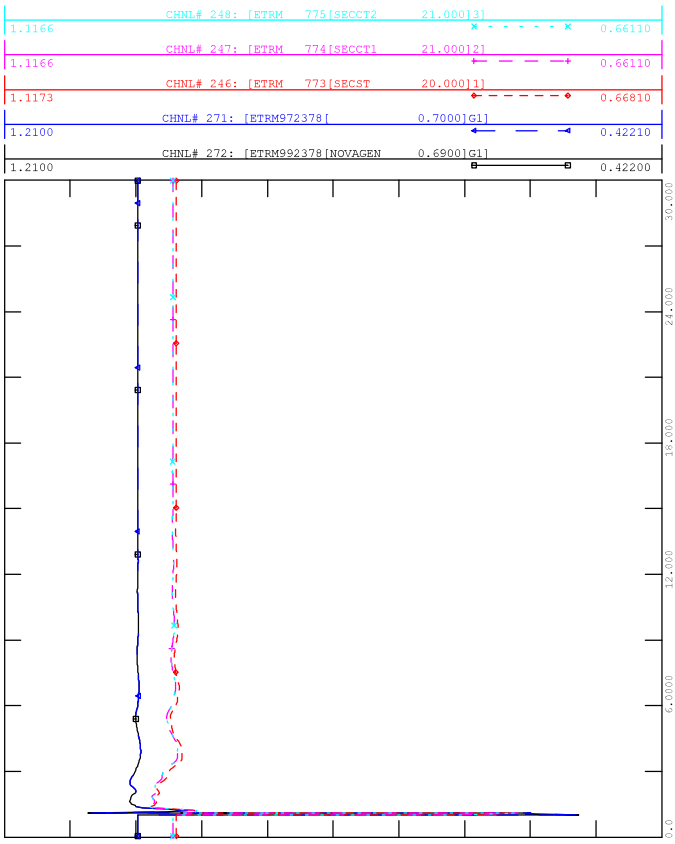


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

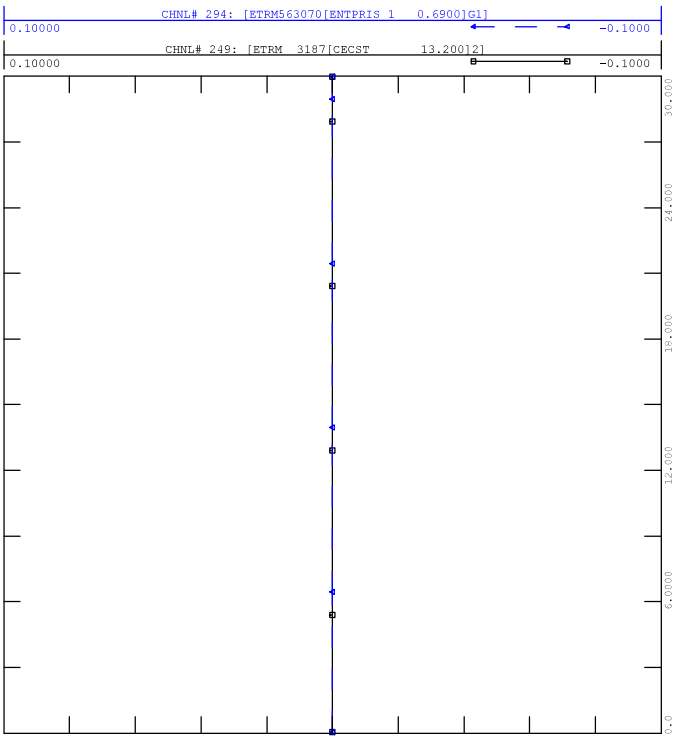


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE

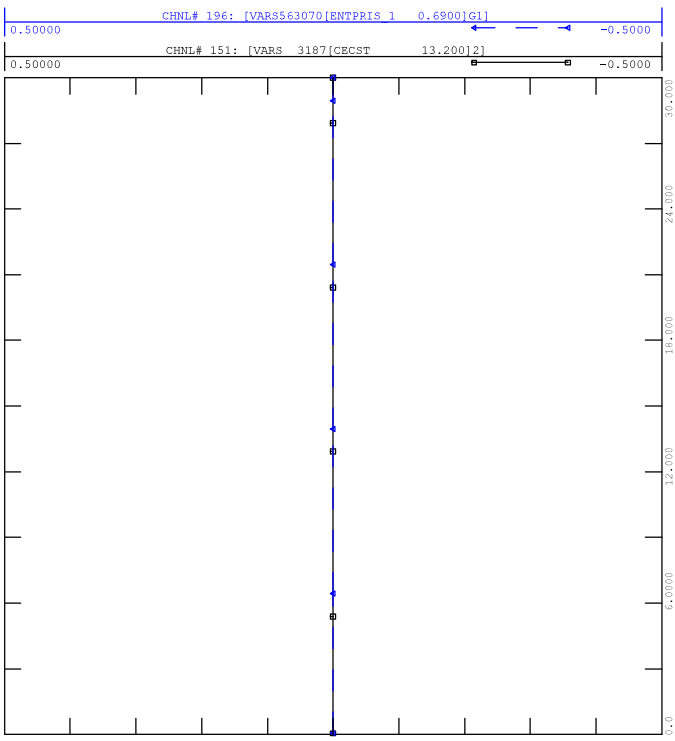


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

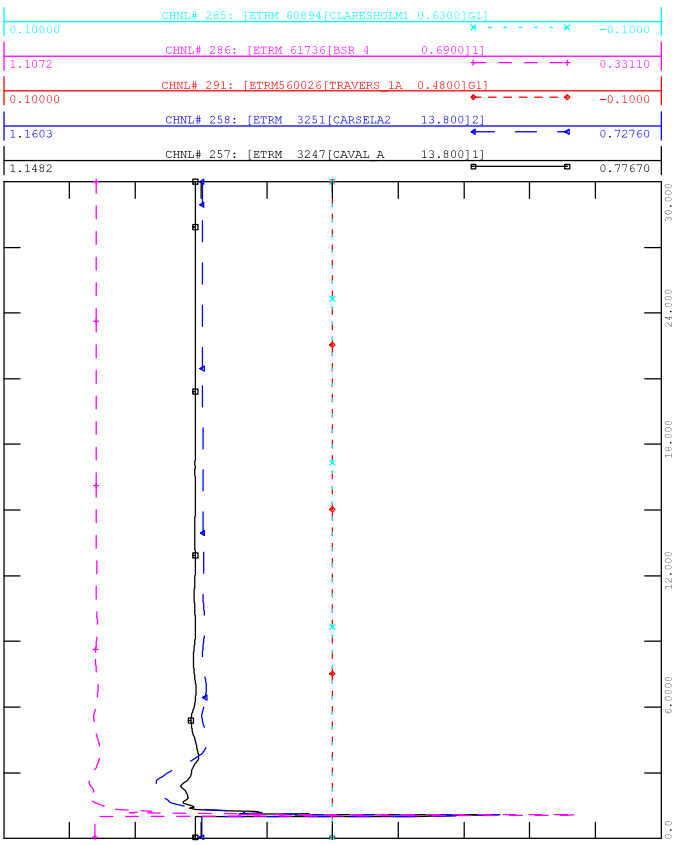


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:16

TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

CHNL# 335: [1107L P]
18.714 -644.3

CHNL# 317: [1106L P]
18.789 -644.4

CHNL# 329: [1005L P]
128.97 -396.3

CHNL# 339: [1036L P]
176.14 -546.5

CHNL# 333: [935L P]
40.955 -40.00

CHNL# 321: [923L P]
542.38 -803.6

SAT, MAY 21 2022 1:16
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

CHNL# 355: [927L A2 1 P]
399.35 -926.4

CHNL# 337: [924L A2 1 P]
406.25 -924.6

CHNL# 323: [1003L P]
-250.1 -643.5

CHNL# 347: [985L P]
-253.0 -650.8

SAT, MAY 21 2022 1:16
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.2122 0.12820

CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3860 0.22630

CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1752 0.58470

CHNL# 316: [VOLT 902378 [924L_TAP 240.00]]
1.1833 0.42500

CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2376 -0.0882

CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1785 0.53390

SAT, MAY 21 2022 1:16
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO

FILE: scn4_SL_A2_11_935L_Milo.out

CHNL# 336: [1107L Q]
320.18 14.634

CHNL# 318: [1106L Q]
320.26 14.750

CHNL# 330: [1005L Q]
120.61 -51.45

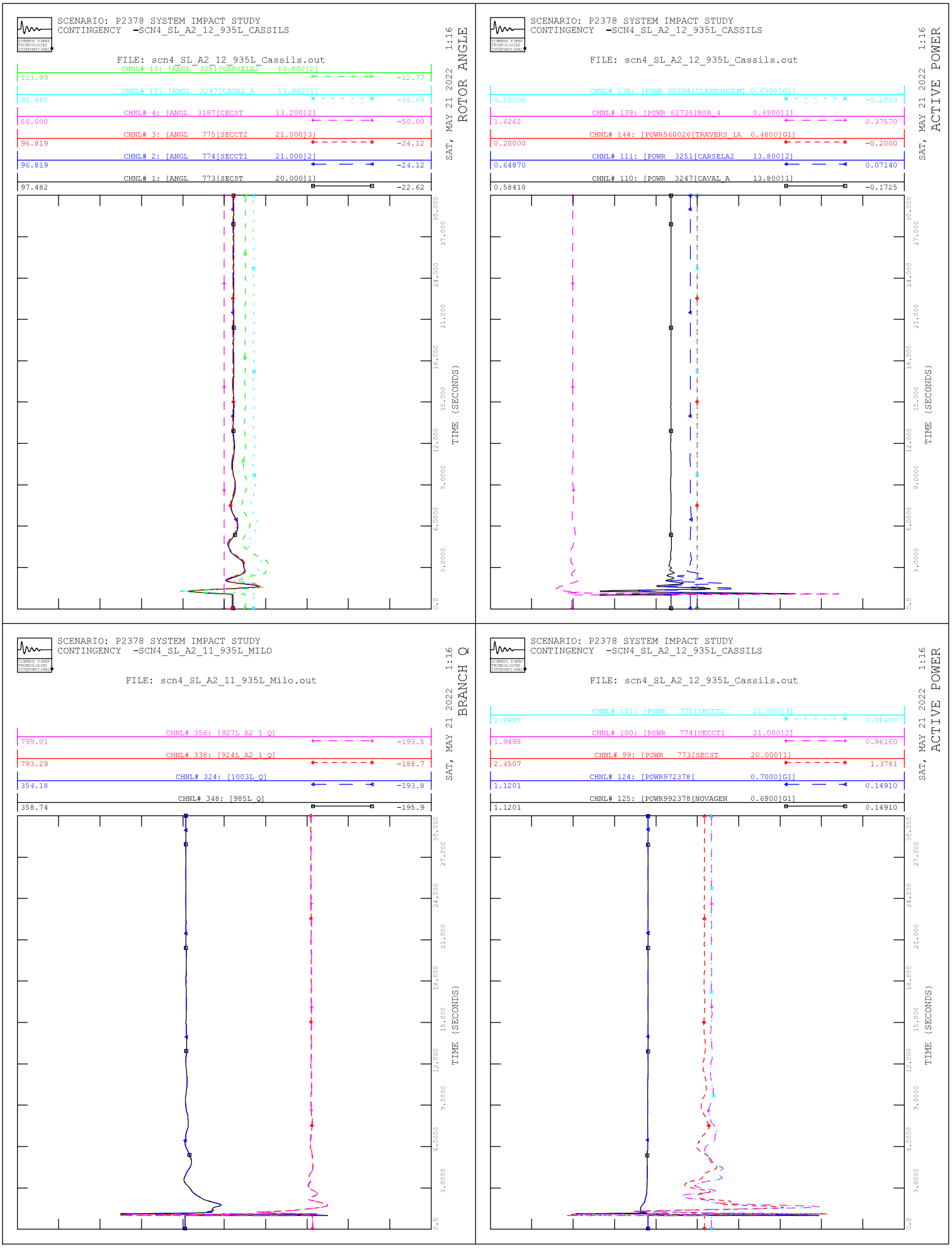
CHNL# 340: [1036L Q]
312.23 -114.1

CHNL# 334: [935L Q]
40.000 -64.45

CHNL# 322: [923L Q]
677.97 -765.3

SAT, MAY 21 2022 1:16
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS
FILE: scn4_SL_A2_12_935L_Cassils.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
113.99
-12.77
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
92.680
-30.09
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
96.819
-24.12
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
96.819
-24.12
CHNL# 1: [ANGL 773[SECST 20.000]1]
97.482
-22.62
SAT, MAY 21 2022 1:16
ROTOR ANGLE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS
FILE: scn4_SL_A2_12_935L_Cassils.out
CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 139: [POWR 61736[BSR_4 0.6900]1]
1.6262
0.37570
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.64870
0.07140
CHNL# 110: [POWR 3247[CAVAL_A 13.800]1]
0.58410
-0.1725
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_11_935L_MILO
FILE: scn4_SL_A2_11_935L_Milo.out
CHNL# 356: [927L A2 1 Q]
799.01
-193.5
CHNL# 338: [924L A2 1 Q]
793.29
-188.7
CHNL# 324: [1003L Q]
354.18
-193.8
CHNL# 348: [985L Q]
358.74
-195.9
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS
FILE: scn4_SL_A2_12_935L_Cassils.out
CHNL# 101: [POWR 775[SECCT2 21.000]3]
1.9498
0.96160
CHNL# 100: [POWR 774[SECCT1 21.000]2]
1.9498
0.96160
CHNL# 99: [POWR 773[SECST 20.000]1]
2.4507
1.3781
CHNL# 124: [POWR972378[0.7000]G1]
1.1201
0.14910
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.1201
0.14910
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

FILE: scn4_SL_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

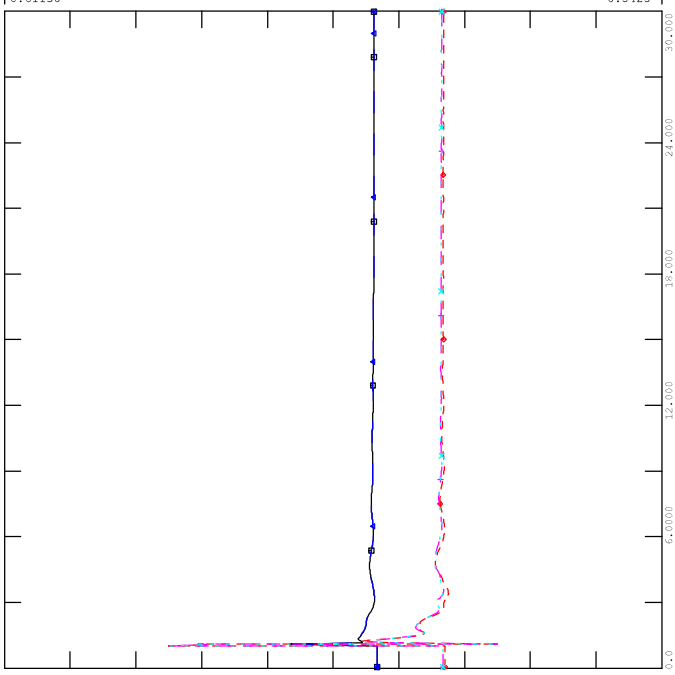
CHNL# 150: [VARS 775[SECCT2 21.000]3]
2.8337 -1.715

CHNL# 149: [VARS 774[SECCT1 21.000]2]
2.8337 -1.715

CHNL# 148: [VARS 773[SECST 20.000]1]
3.4958 -2.043

CHNL# 173: [VARS972378[0.7000]G1]
0.61160 -0.5422

CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1]
0.61130 -0.5425



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

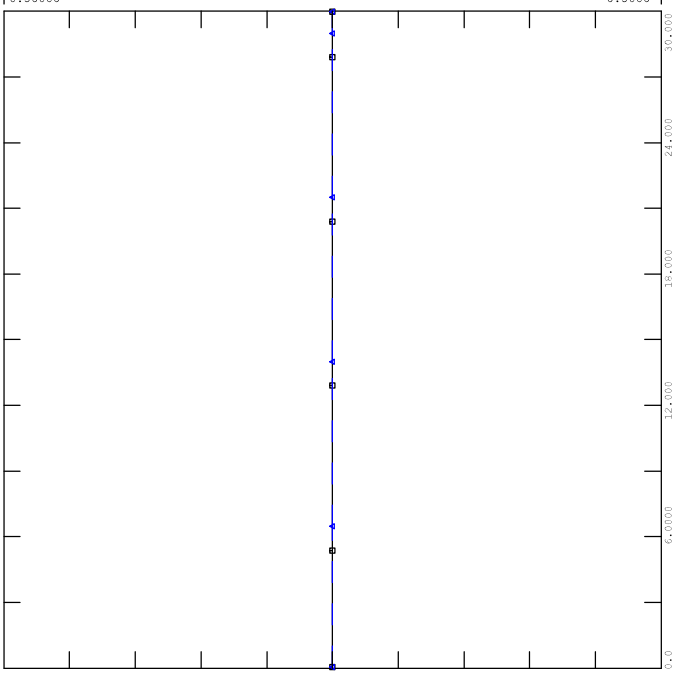
FILE: scn4_SL_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000

CHNL# 151: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

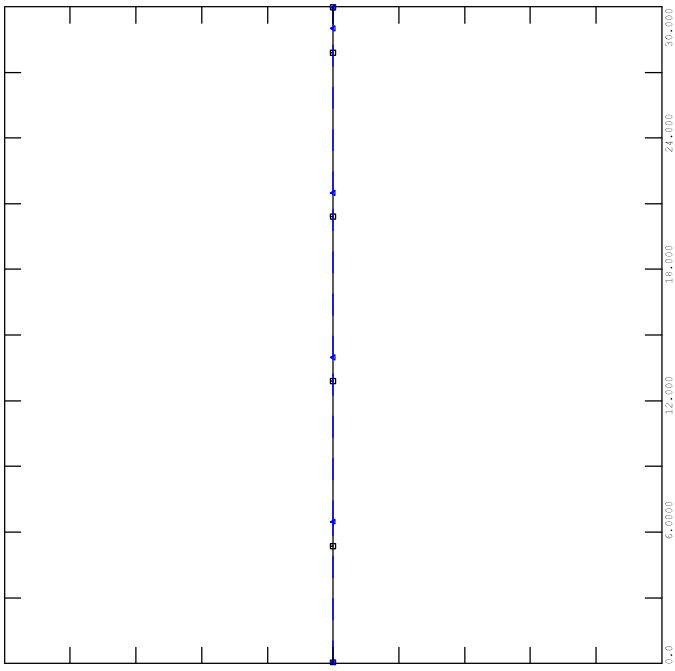
FILE: scn4_SL_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000

CHNL# 102: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

FILE: scn4_SL_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

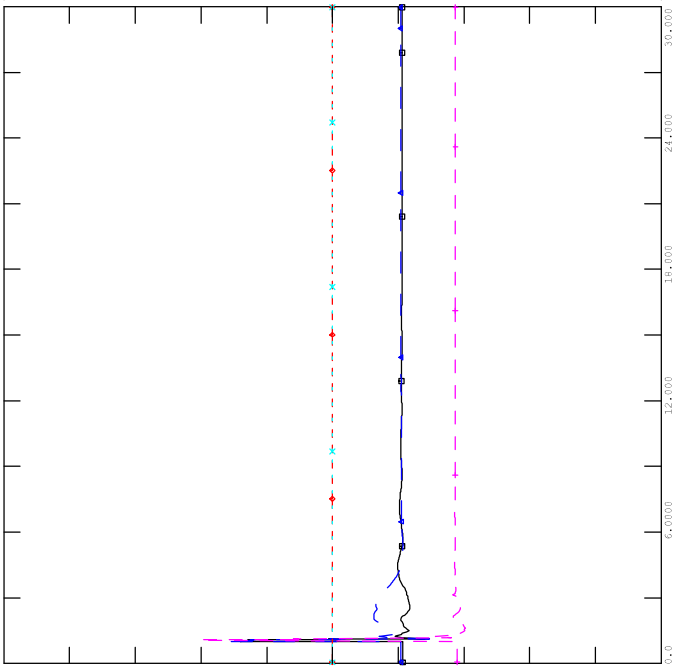
CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000

CHNL# 188: [VARS 61736[BSR 4 0.6900]1]
1.1085 -0.5705

CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000

CHNL# 160: [VARS 3251[CARSELA2 13.800]2]
0.92280 -0.5605

CHNL# 159: [VARS 3247[CAVAL A 13.800]1]
0.92490 -0.4673

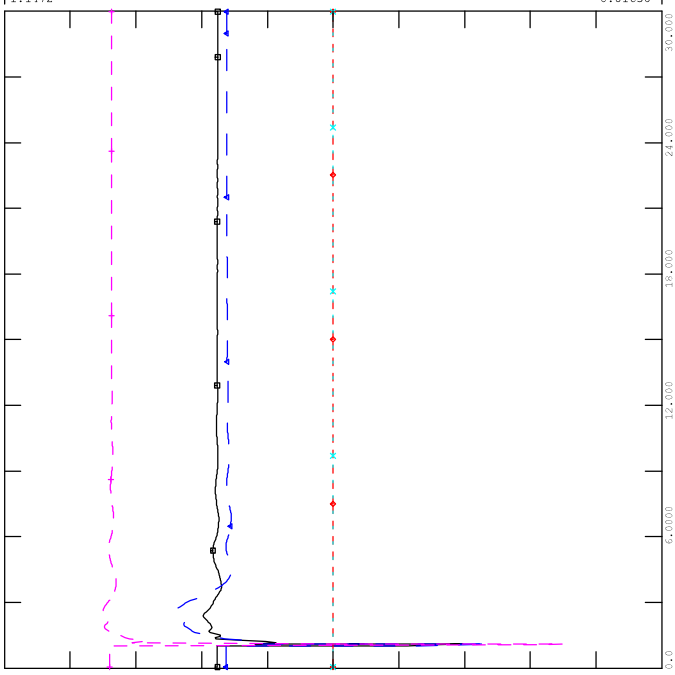


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

FILE: scn4_SL_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1066 0.44040
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1596 0.77500
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1472 0.81630

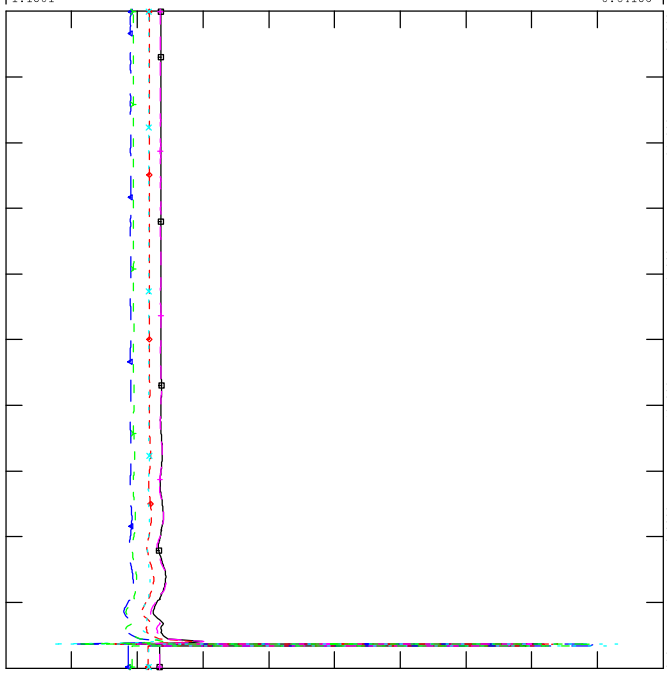


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

FILE: scn4_SL_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16
BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.2163 0.29450
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3649 -0.0877
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1764 0.67630
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1857 0.56150
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2378 0.19450
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1801 0.64180

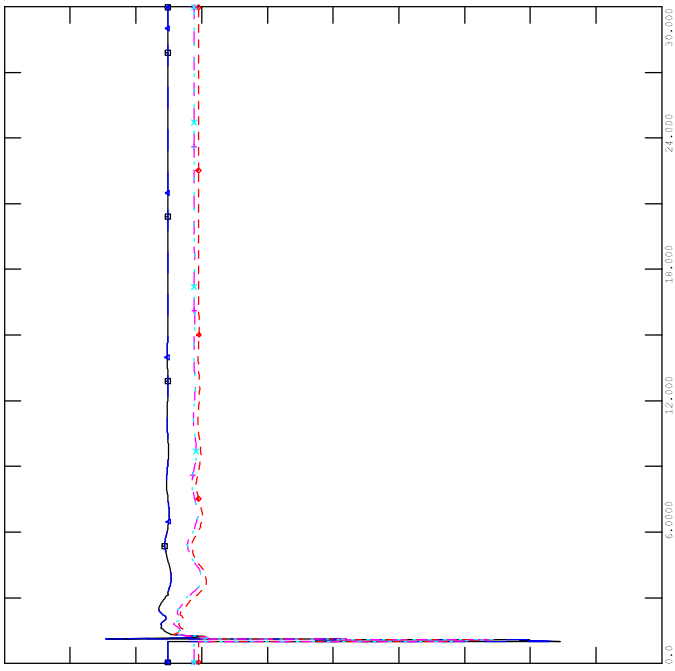


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

FILE: scn4_SL_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1132 0.72110
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1132 0.72110
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1147 0.72640
CHNL# 271: [ETRM972378[0.7000]G1]
1.2108 0.56320
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.2108 0.56320

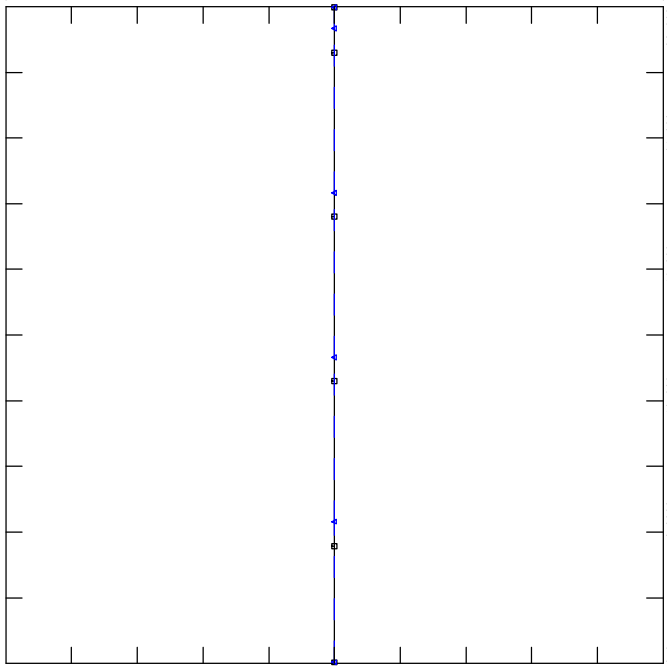


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

FILE: scn4_SL_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 249: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

FILE: scn4_SL_A2_12_935L_Cassils.out

CHNL# 336: [1107L Q]
317.12 21.309
CHNL# 318: [1106L Q]
317.22 21.423
CHNL# 330: [1005L Q]
148.38 -148.2
CHNL# 340: [1036L Q]
308.39 -192.3
CHNL# 334: [935L Q]
40.000 -64.45
CHNL# 322: [923L Q]
643.50 -982.6

SAT, MAY 21 2022 1:16
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

FILE: scn4_SL_A2_12_935L_Cassils.out

CHNL# 356: [927L A2 1 Q]
683.47 -147.2
CHNL# 338: [924L A2 1 Q]
679.62 -142.7
CHNL# 324: [1003L Q]
306.23 -118.7
CHNL# 348: [985L Q]
310.21 -119.9

SAT, MAY 21 2022 1:16
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

FILE: scn4_SL_A2_12_935L_Cassils.out

CHNL# 335: [1107L P]
-39.66 -625.3
CHNL# 317: [1106L P]
-39.59 -625.3
CHNL# 329: [1005L P]
44.198 -363.2
CHNL# 339: [1036L P]
29.478 -506.0
CHNL# 333: [935L P]
40.955 -40.00
CHNL# 321: [923L P]
444.97 -664.5

SAT, MAY 21 2022 1:16
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_12_935L_CASSILS

FILE: scn4_SL_A2_12_935L_Cassils.out

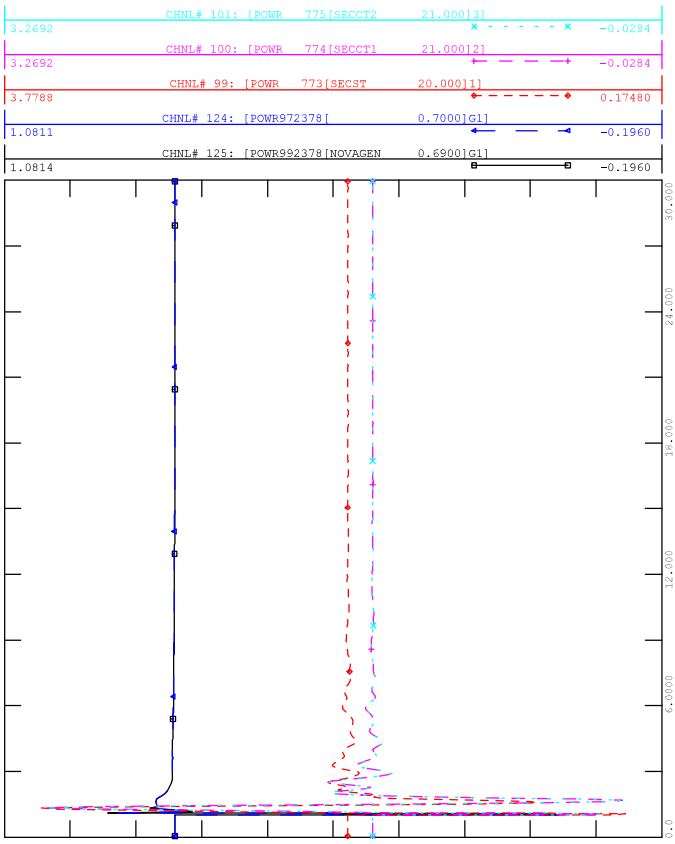
CHNL# 355: [927L A2 1 P]
242.60 -832.7
CHNL# 337: [924L A2 1 P]
248.80 -831.2
CHNL# 323: [1003L P]
-306.3 -614.7
CHNL# 347: [985L P]
-309.9 -621.7

SAT, MAY 21 2022 1:16
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

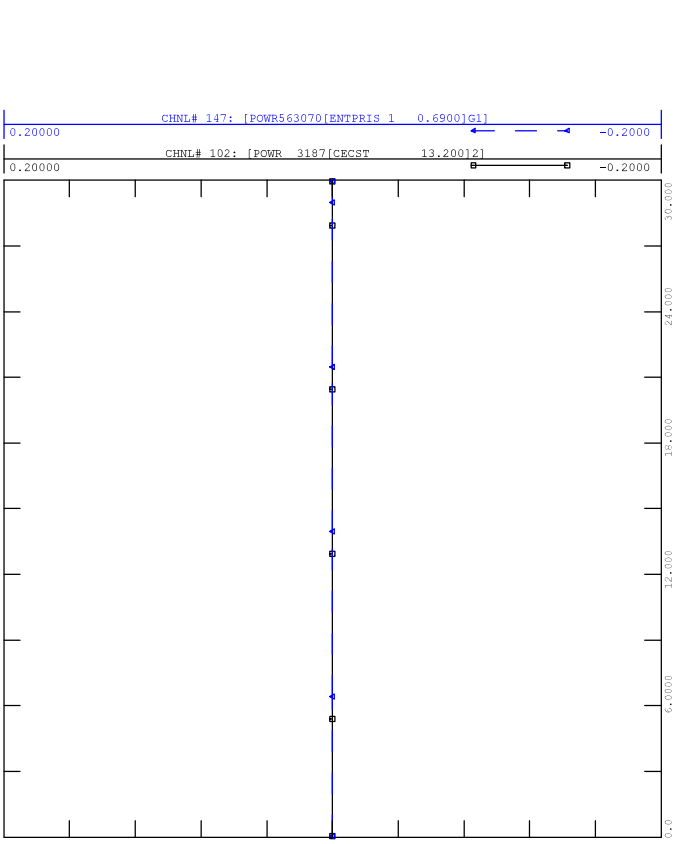
FILE: scn4_SL_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

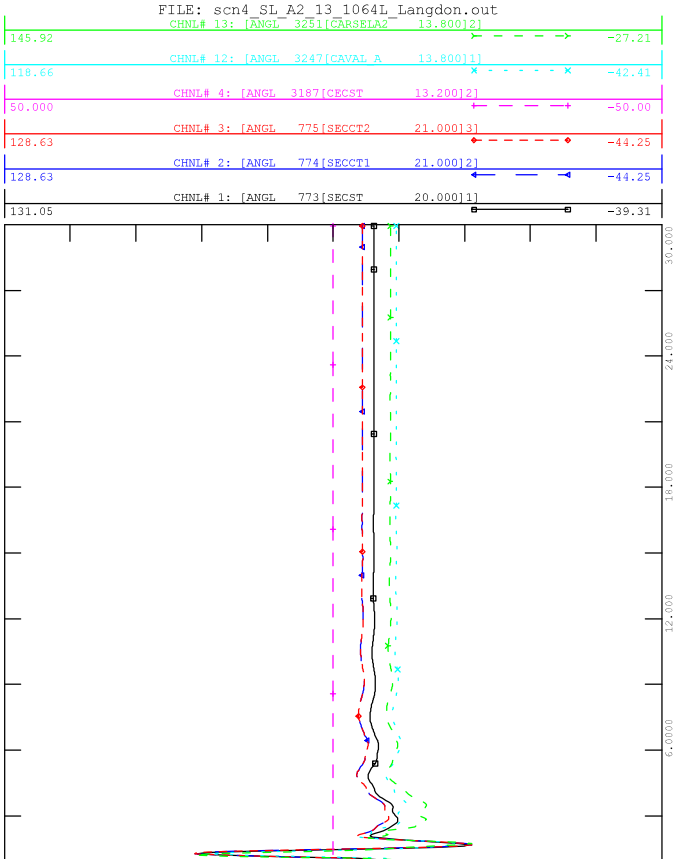
FILE: scn4_SL_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

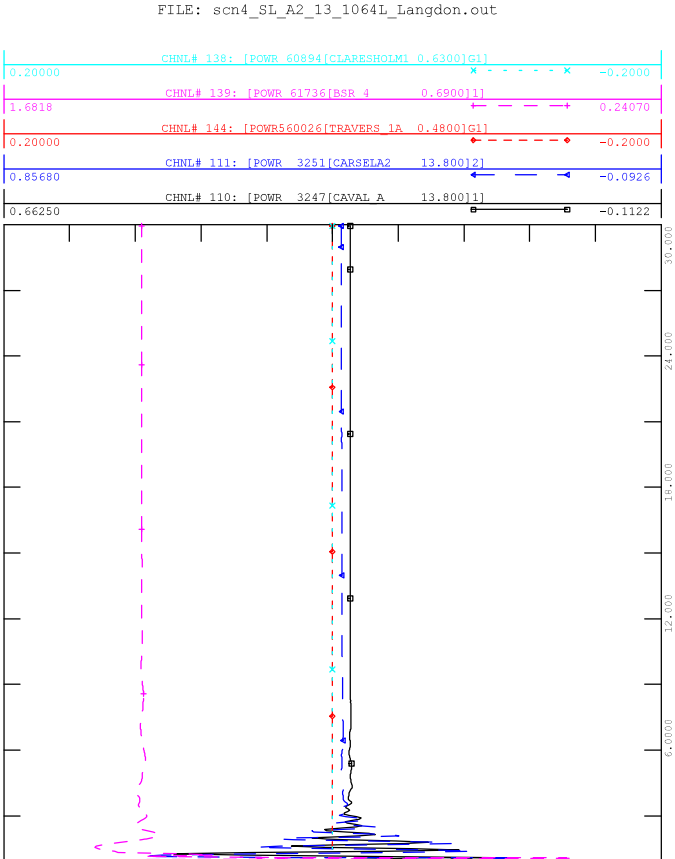
FILE: scn4_SL_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:16
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

FILE: scn4_SL_A2_13_1064L_Langdon.out



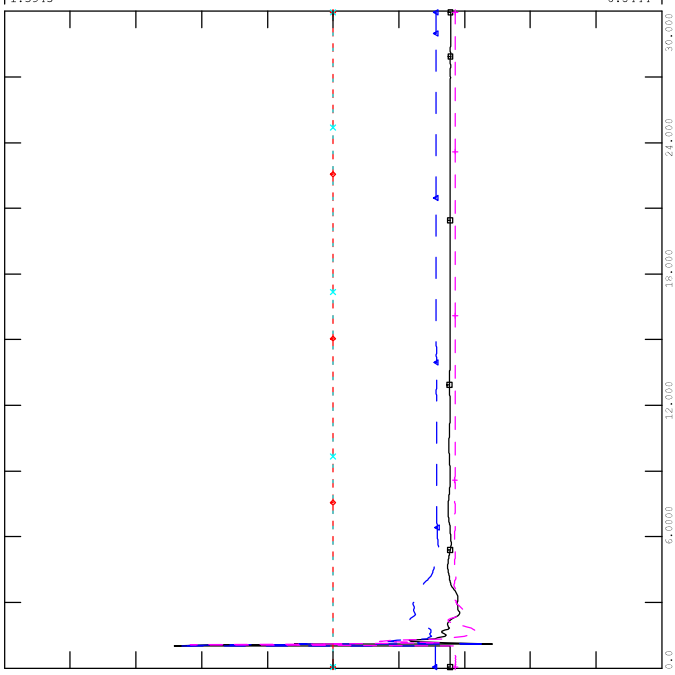
SAT, MAY 21 2022 1:16
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

FILE: scn4_SL_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000
CHNL# 188: [VARS 61736[BSR_4 0.6900]1] 1.1645 -0.6045
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000
CHNL# 160: [VARS 3251[CARSELA2 13.800]2] 1.2940 -0.6395
CHNL# 159: [VARS 3247[CAVAL_A 13.800]1] 1.3943 -0.5444

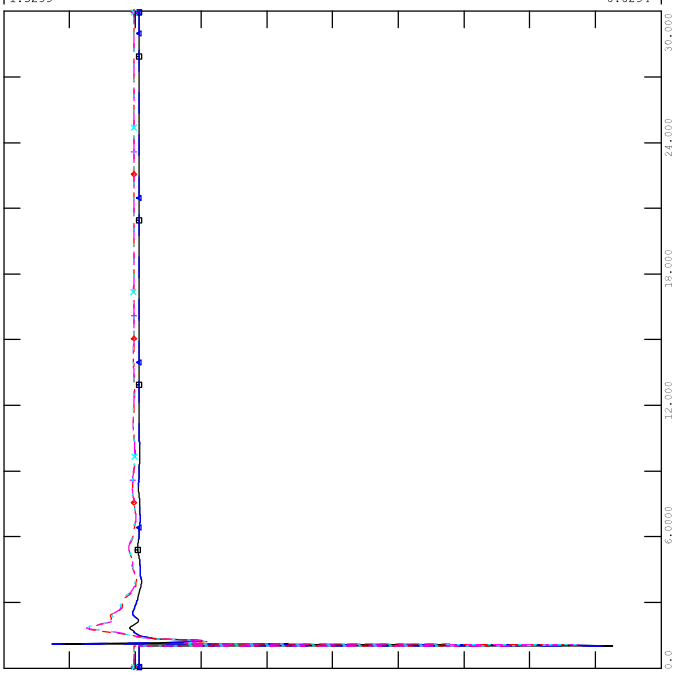


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

FILE: scn4_SL_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3] 1.1566 0.36400
CHNL# 247: [ETRM 774[SECCT1 21.000]2] 1.1566 0.36400
CHNL# 246: [ETRM 773[SECST 20.000]1] 1.1529 0.38010
CHNL# 271: [ETRM972378[0.7000]G1] 1.3299 -0.0294
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1] 1.3299 -0.0294

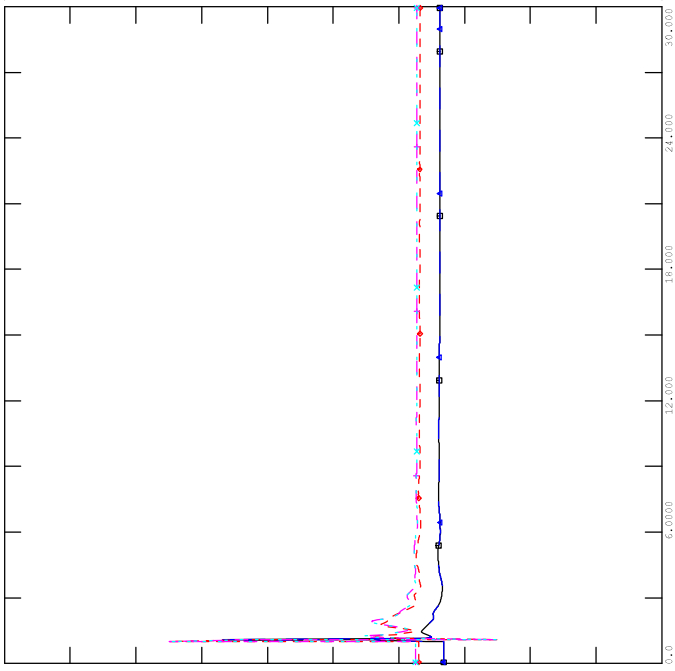


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

FILE: scn4_SL_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3] 6.2077 -4.037
CHNL# 149: [VARS 774[SECCT1 21.000]2] 6.2077 -4.037
CHNL# 148: [VARS 773[SECST 20.000]1] 7.7591 -4.897
CHNL# 173: [VARS972378[0.7000]G1] 0.96300 -0.5422
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1] 0.96260 -0.5425

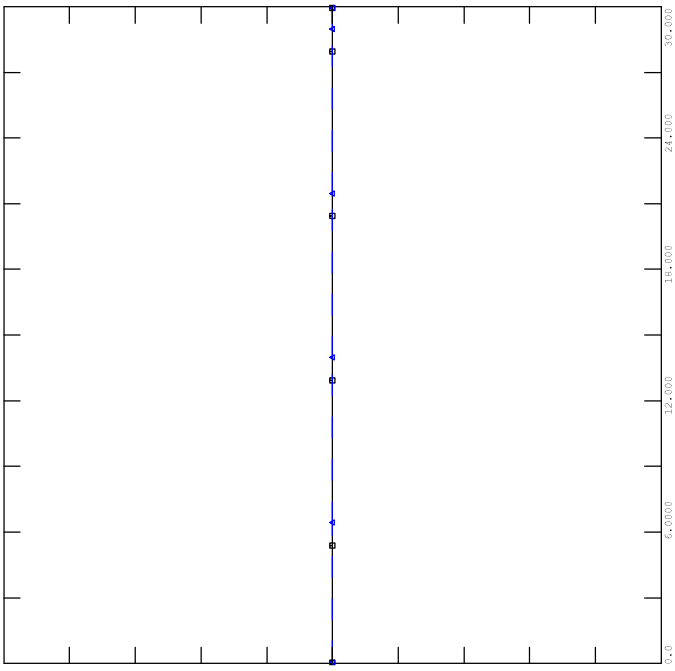


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

FILE: scn4_SL_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1] 0.50000 -0.5000
CHNL# 151: [VARS 3187[CECST 13.200]2] 0.50000 -0.5000



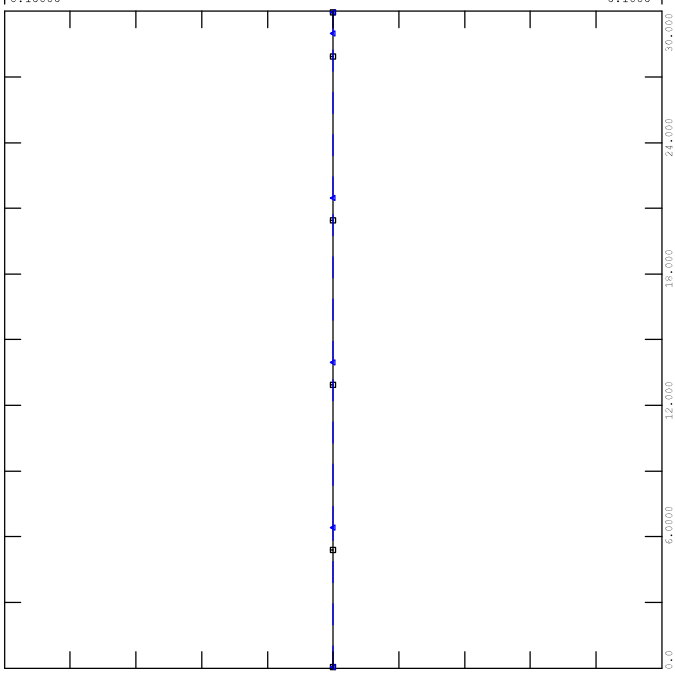
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

FILE: scn4_SL_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000

CHNL# 249: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

FILE: scn4_SL_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16
BRANCH P

CHNL# 335: [1107L P]
140.06 -706.9

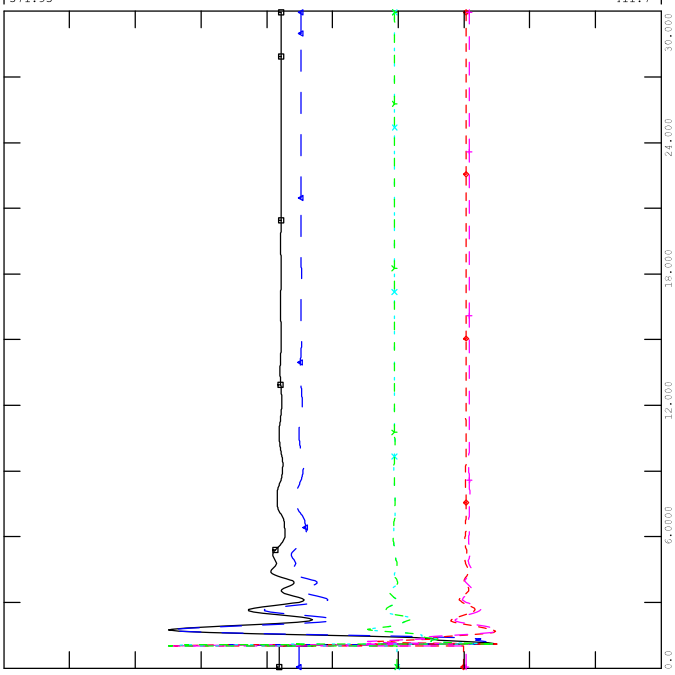
CHNL# 317: [1106L P]
140.06 -707.0

CHNL# 329: [1005L P]
101.51 -399.0

CHNL# 339: [1036L P]
84.048 -534.7

CHNL# 333: [935L P]
288.30 -351.0

CHNL# 321: [923L P]
371.93 -411.7



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

FILE: scn4_SL_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

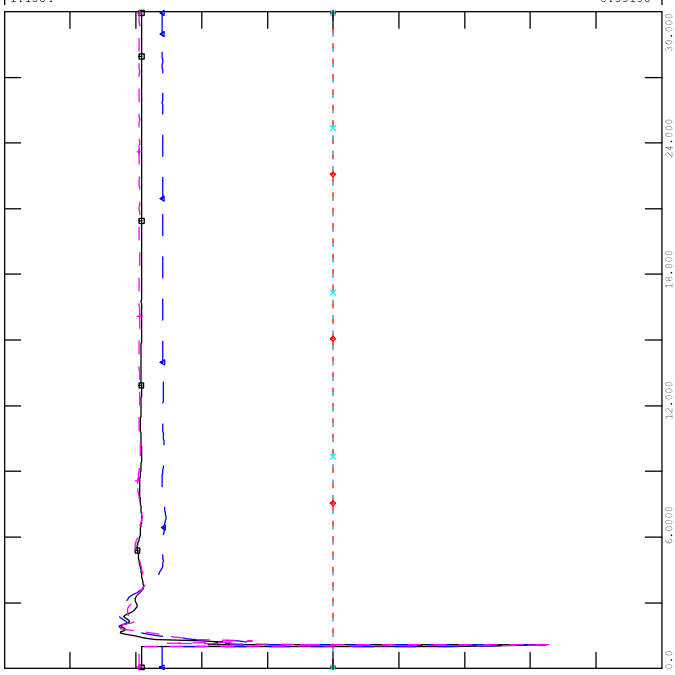
CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000

CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1214 0.52750

CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000

CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1696 0.58790

CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1584 0.59190



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

FILE: scn4_SL_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:16
BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.2503 0.28930

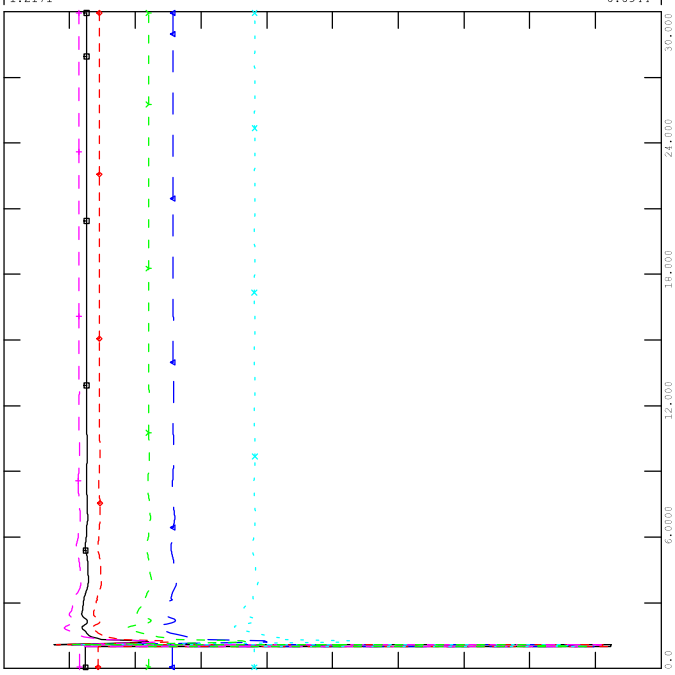
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3786 0.51440

CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1847 0.09480

CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.2304 -0.0203

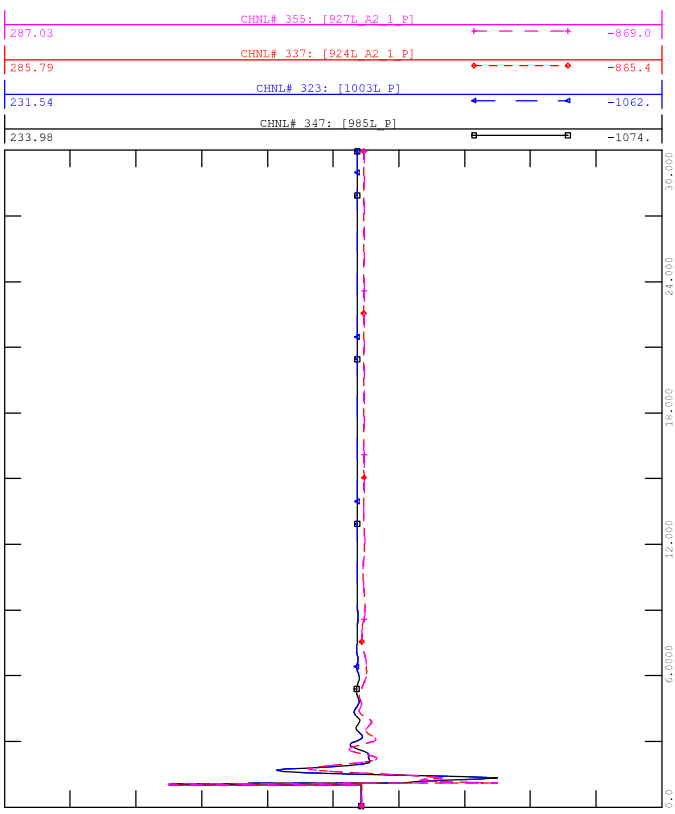
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2942 0.31790

CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.2171 -0.0944



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

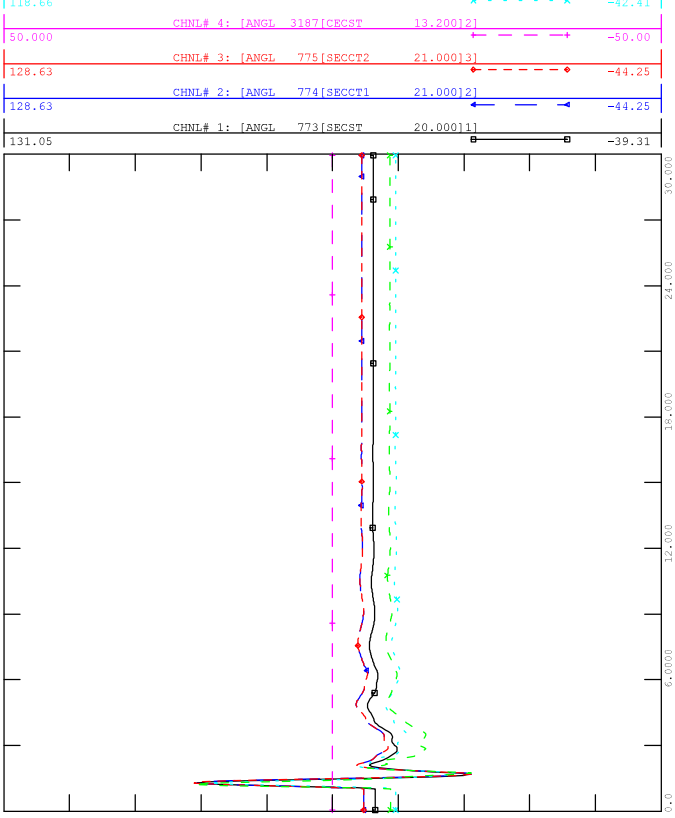
FILE: scn4_SL_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

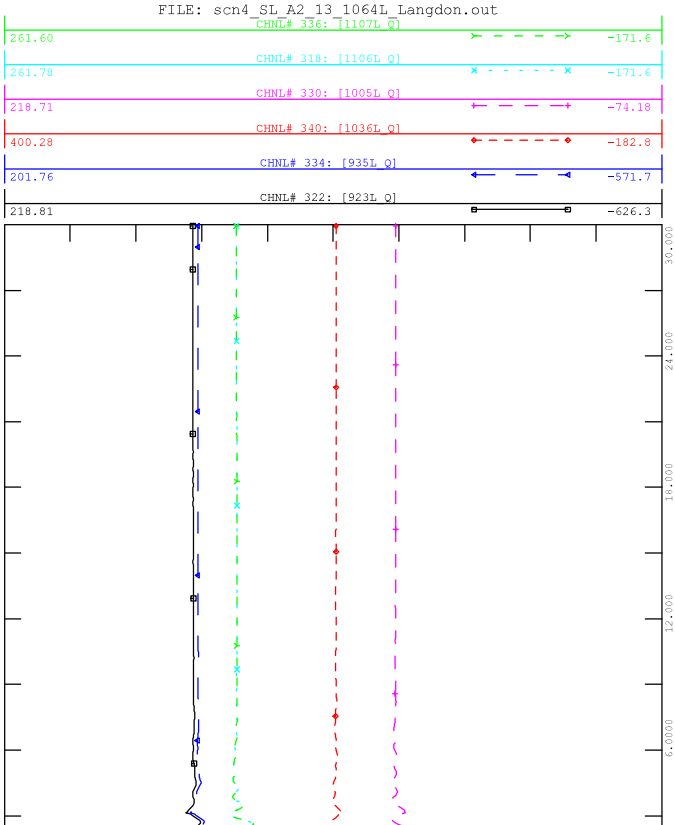
FILE: scn4_SL_A2_14_1065L_Langdon.out



SAT, MAY 21 2022 1:16
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

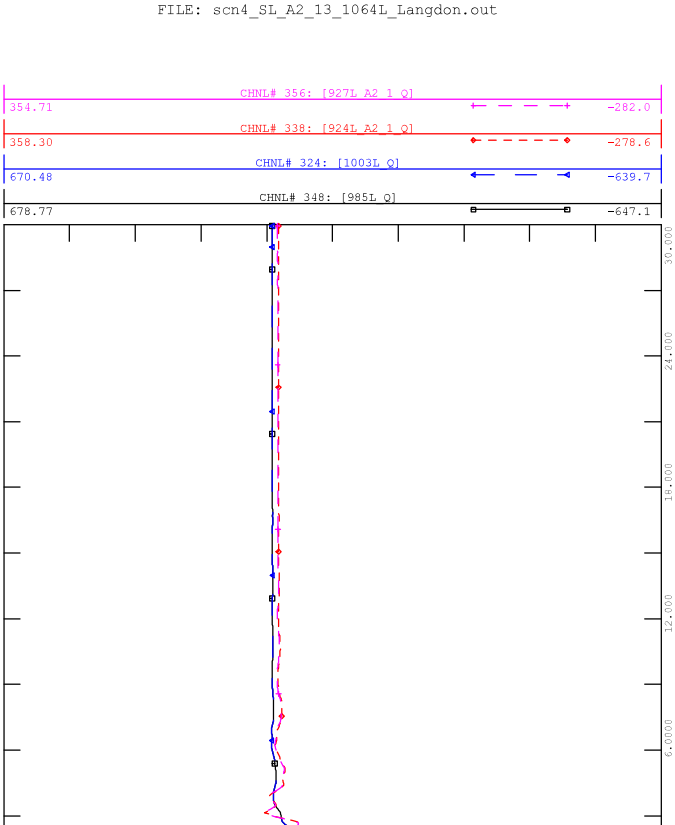
FILE: scn4_SL_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_13_1064L_LANGDON

FILE: scn4_SL_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:16
BRANCH Q

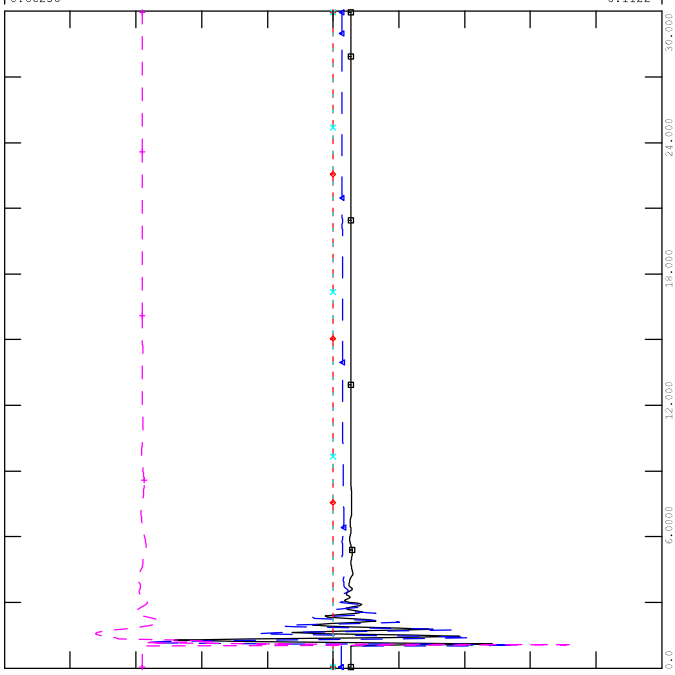
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.20000 -0.2000
CHNL# 139: [POWR 61736[BSR 4 0.6900]1] 1.6818 0.24070
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1] 0.20000 -0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2] 0.85680 -0.0926
CHNL# 110: [POWR 3247[CAVAL A 13.800]1] 0.66250 -0.1122

TIME (SECONDS)



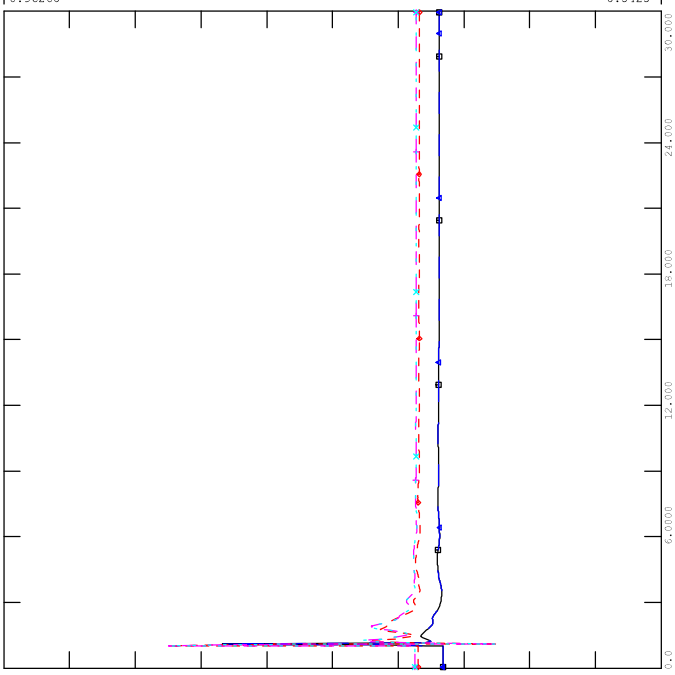
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

CHNL# 150: [VARS 775[SECCT2 21.000]3] 6.2077 -4.037
CHNL# 149: [VARS 774[SECCT1 21.000]2] 6.2077 -4.037
CHNL# 148: [VARS 773[SECST 20.000]1] 7.7591 -4.897
CHNL# 173: [VARS972378[0.7000]G1] 0.96300 -0.5422
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1] 0.96260 -0.5425

TIME (SECONDS)



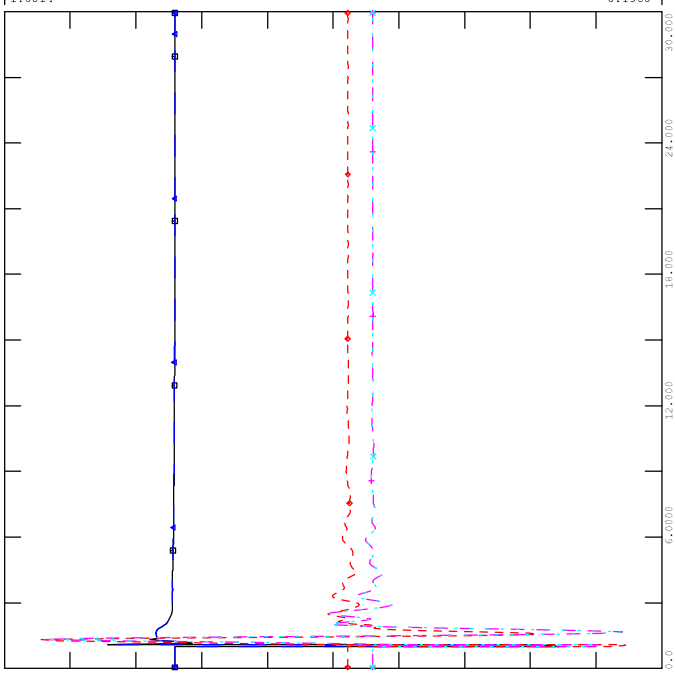
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3] 3.2692 -0.0284
CHNL# 100: [POWR 774[SECCT1 21.000]2] 3.2692 -0.0284
CHNL# 99: [POWR 773[SECST 20.000]1] 3.7788 0.17480
CHNL# 124: [POWR972378[0.7000]G1] 1.0811 -0.1960
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1] 1.0814 -0.1960

TIME (SECONDS)



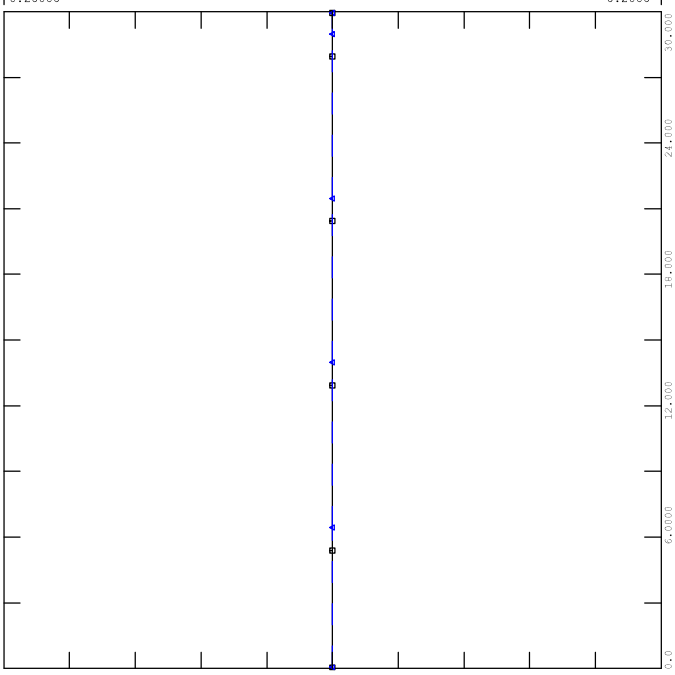
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1] 0.20000 -0.2000
CHNL# 102: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000

TIME (SECONDS)



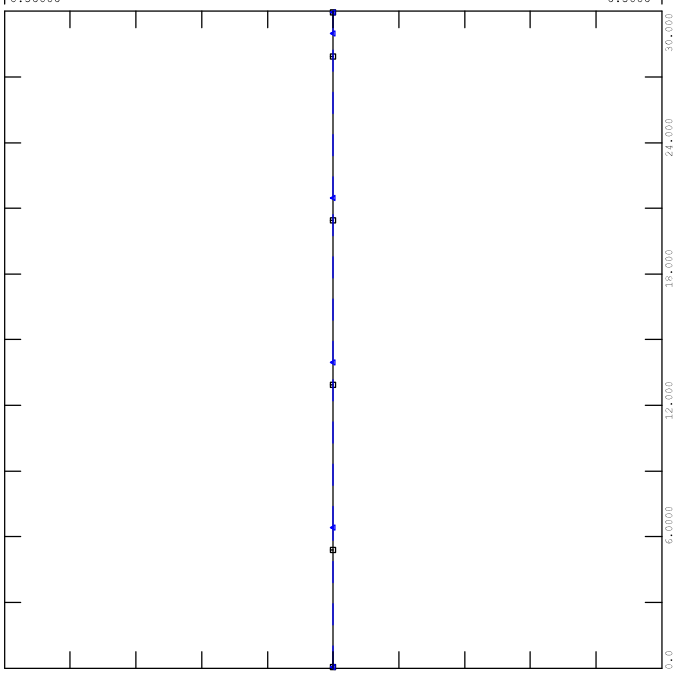
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 196: [VARS563070[ENTPRIS 1 0.6900]G1] 0.50000 -0.5000
CHNL# 151: [VARS 3187[CECST 13.200]2] 0.50000 -0.5000

TIME (SECONDS)



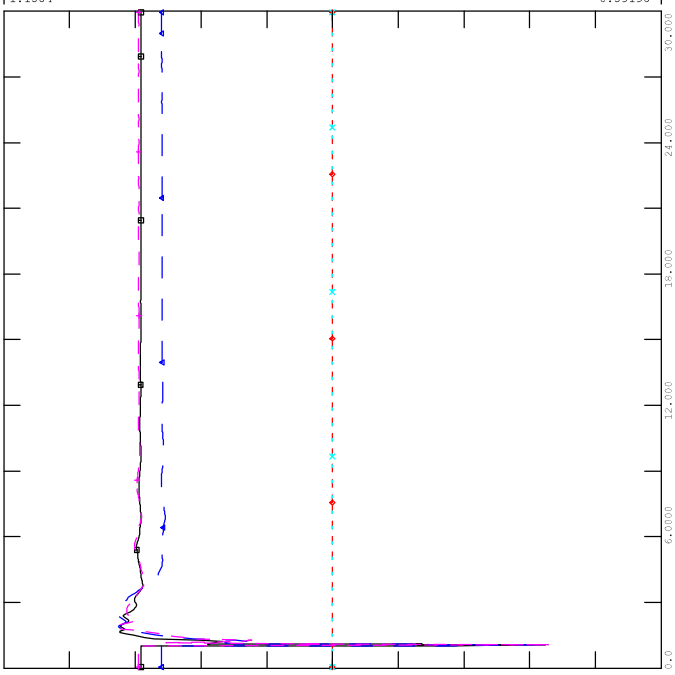
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1] 1.1214 0.52750
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2] 1.1696 0.58790
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1] 1.1584 0.59190

TIME (SECONDS)



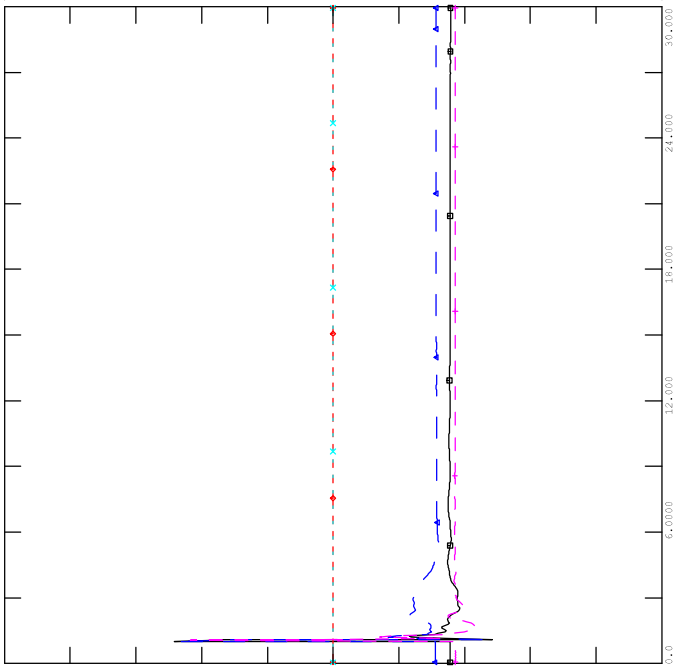
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
REACTIVE POWER

CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000
CHNL# 188: [VARS 61736[BSR 4 0.6900]1] 1.1645 -0.6045
CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000
CHNL# 160: [VARS 3251[CARSELA2 13.800]2] 1.2940 -0.6395
CHNL# 159: [VARS 3247[CAVAL A 13.800]1] 1.3943 -0.5444

TIME (SECONDS)



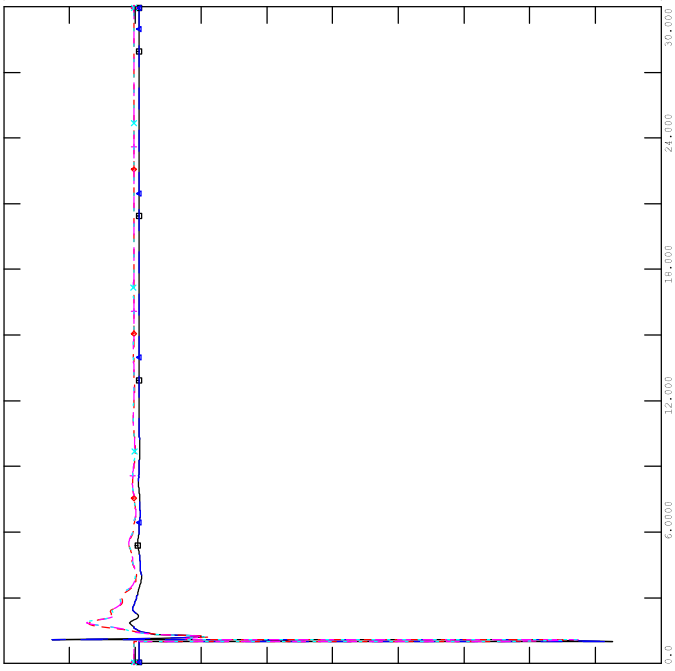
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3] 1.1566 0.36400
CHNL# 247: [ETRM 774[SECCT1 21.000]2] 1.1566 0.36400
CHNL# 246: [ETRM 773[SECST 20.000]1] 1.1529 0.38010
CHNL# 271: [ETRM972378[0.7000]G1] 1.3299 -0.0294
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1] 1.3299 -0.0294

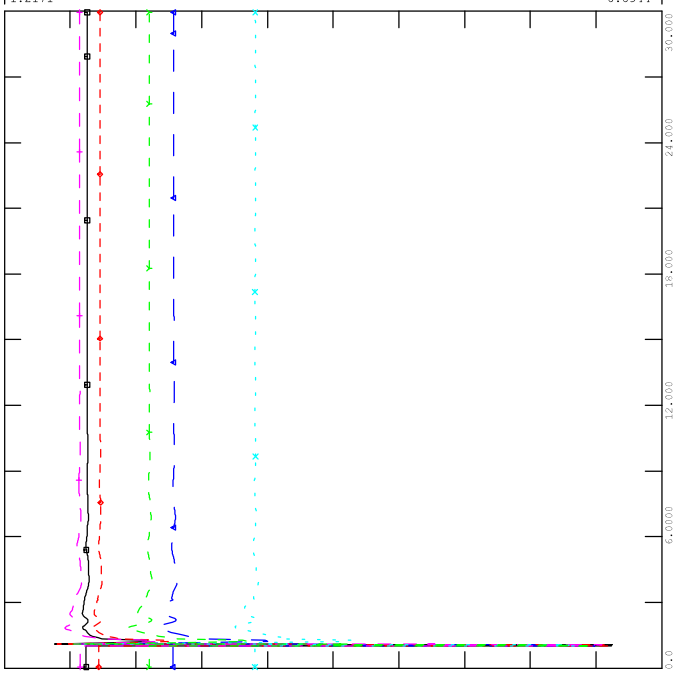
TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.2503 0.28930
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3786 0.51440
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1847 0.09480
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.2304 -0.0203
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2942 0.31790
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.2171 -0.0944

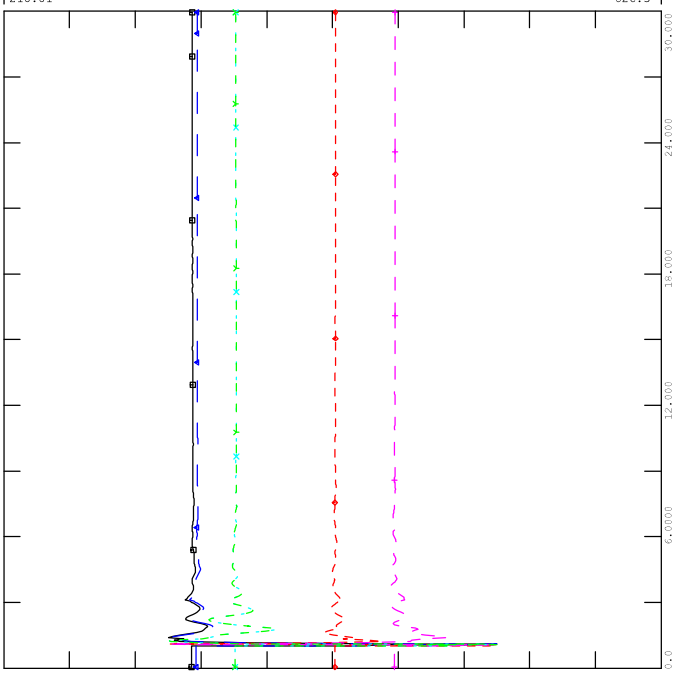


SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

CHNL# 336: [1107L Q]
261.60 -171.6
CHNL# 318: [1106L Q]
261.78 -171.6
CHNL# 330: [1005L Q]
218.71 -74.18
CHNL# 340: [1036L Q]
400.28 -182.8
CHNL# 334: [935L Q]
201.76 -571.7
CHNL# 322: [923L Q]
218.81 -626.3

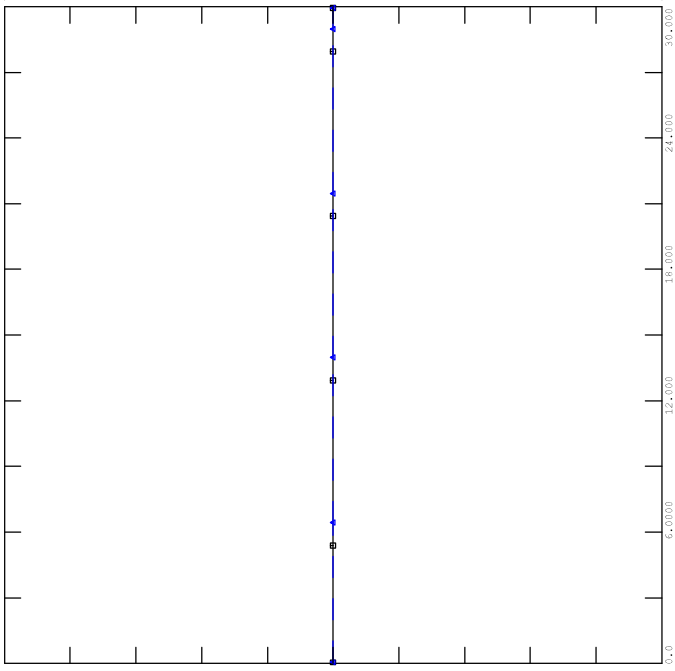


SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 249: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000

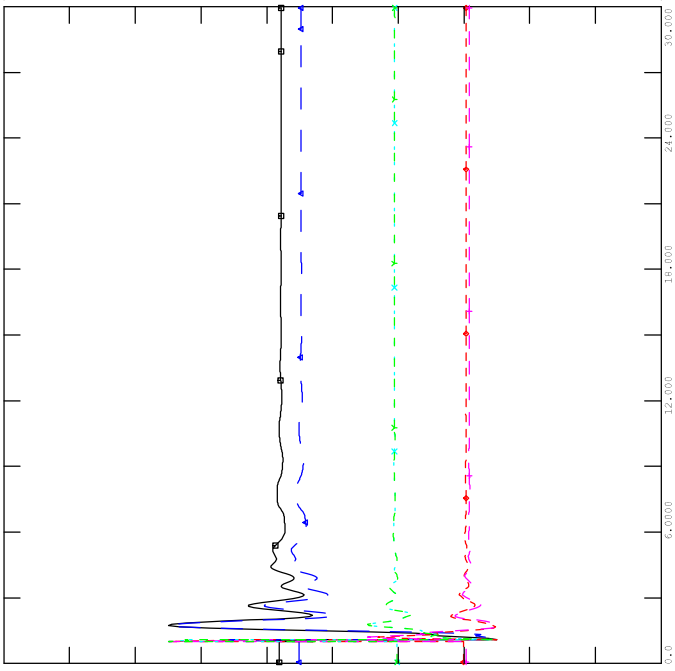


SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

CHNL# 335: [1107L P]
140.06 -706.9
CHNL# 317: [1106L P]
140.06 -707.0
CHNL# 329: [1005L P]
101.51 -399.0
CHNL# 339: [1036L P]
84.048 -534.7
CHNL# 333: [935L P]
288.30 -351.0
CHNL# 321: [923L P]
371.93 -411.7



SAT, MAY 21 2022 1:16
BRANCH P

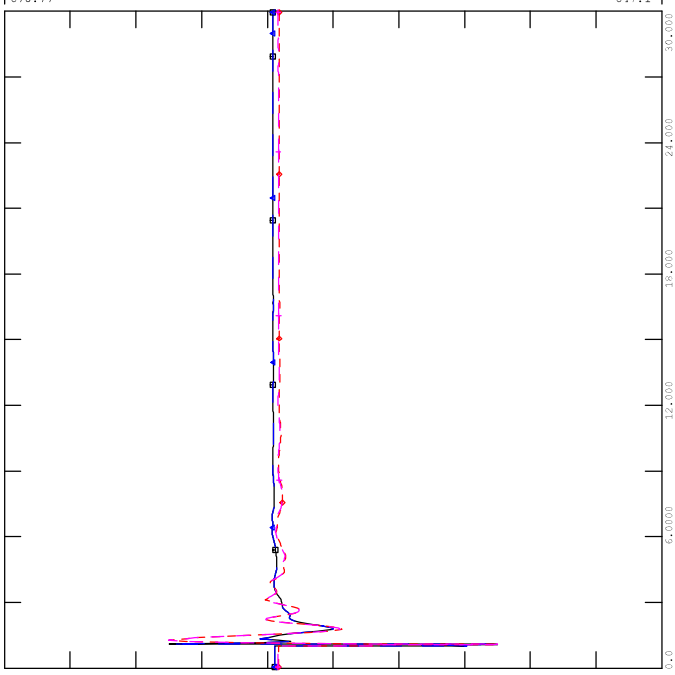
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16

BRANCH Q

CHNL# 356: [927L_A2_1_Q] 354.71 -282.0
CHNL# 338: [924L_A2_1_Q] 358.30 -278.6
CHNL# 324: [1003L_Q] 670.48 -639.7
CHNL# 348: [985L_Q] 678.77 -647.1



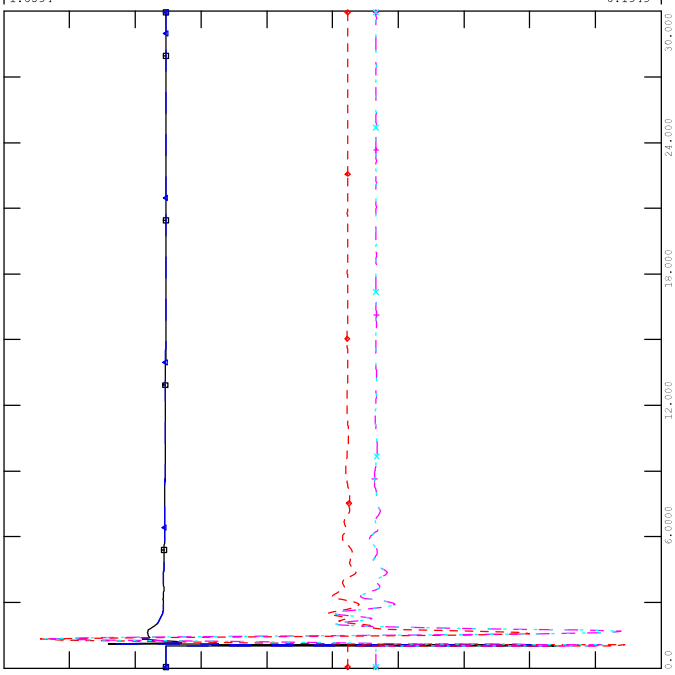
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

CHNL# 101: [POWR 775[SECCT2 21.000]3] 3.2720 0.00470
CHNL# 100: [POWR 774[SECCT1 21.000]2] 3.2720 0.00470
CHNL# 99: [POWR 773[SECST 20.000]1] 3.7697 0.18610
CHNL# 124: [POWR972378[0.7000]G1] 1.0593 -0.1949
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1] 1.0594 -0.1949



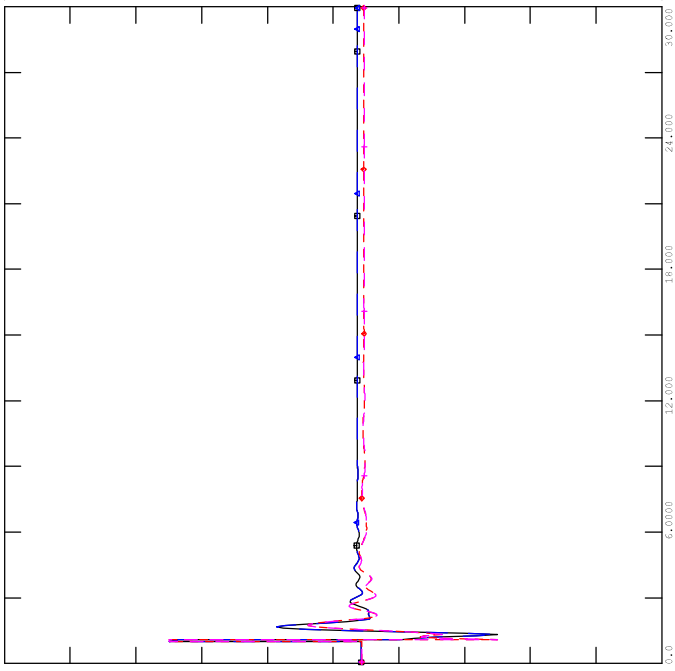
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_14_1065L_LANGDON

FILE: scn4_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:16

BRANCH P

CHNL# 355: [927L_A2_1_P] 287.03 -869.0
CHNL# 337: [924L_A2_1_P] 285.79 -865.4
CHNL# 323: [1003L_P] 231.54 -1062.
CHNL# 347: [985L_P] 233.98 -1074.



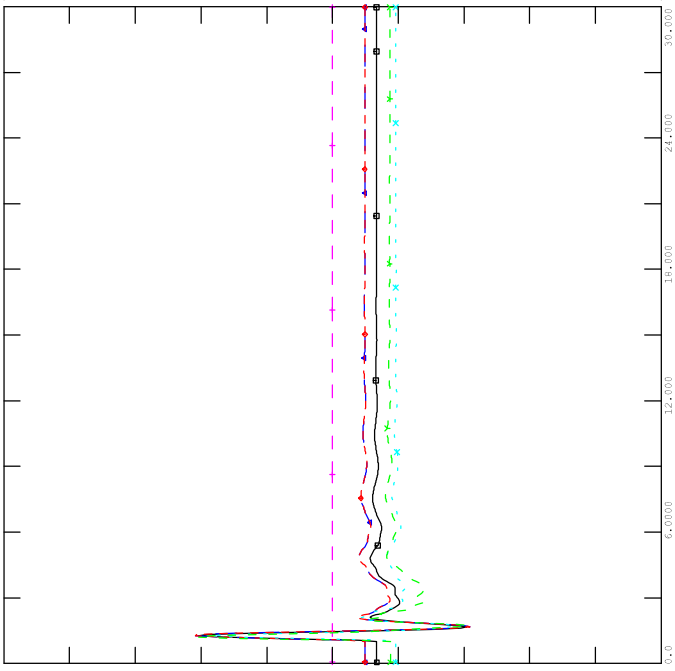
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16

ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSBLAZ 13.800]2] 144.38 -26.16
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1] 118.02 -42.03
CHNL# 4: [ANGL 3187[CECST 13.200]2] 50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 128.27 -43.33
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 128.27 -43.33
CHNL# 1: [ANGL 773[SECST 20.000]1] 130.61 -38.19



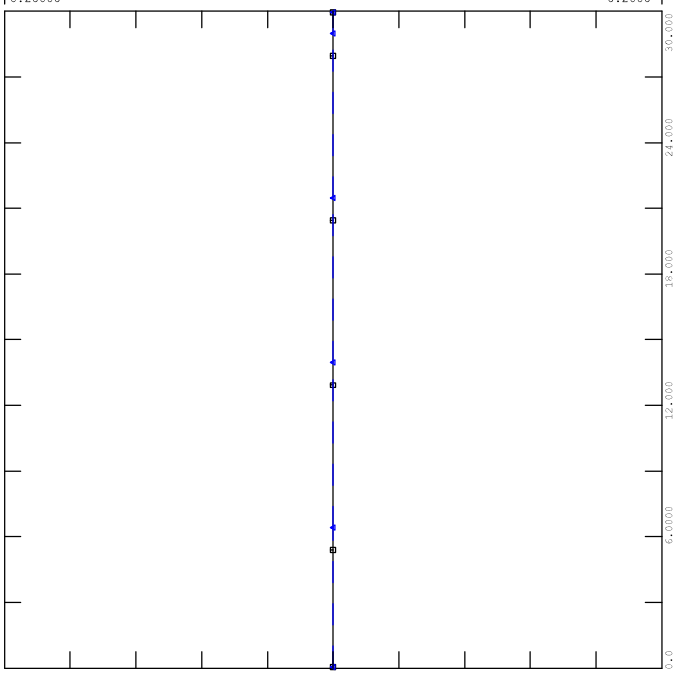
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

CHNL# 147: [POWR563070[ENTPRIS 1 0.6900]G1] 0.20000 -0.2000

CHNL# 102: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

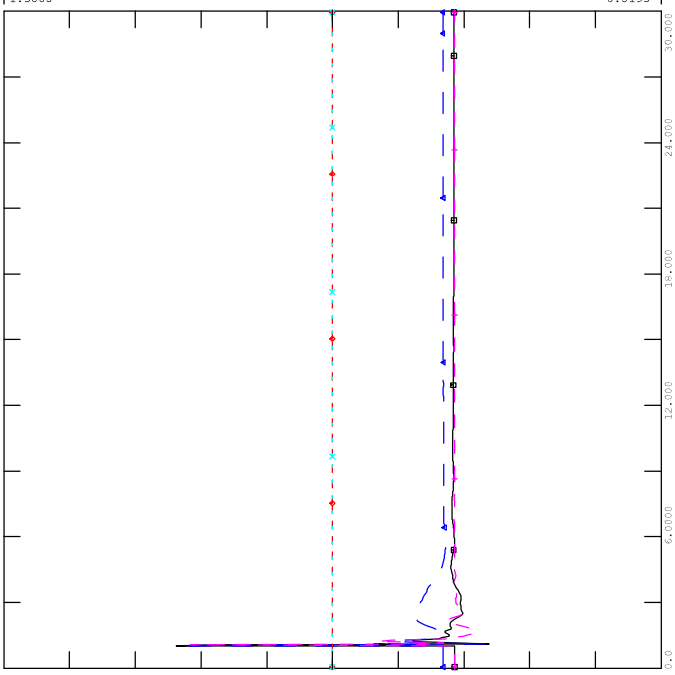
CHNL# 187: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000

CHNL# 188: [VARS 61736[BSR 4 0.6900]1] 1.1613 -0.6037

CHNL# 193: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000

CHNL# 160: [VARS 3251[CARSELA2 13.800]2] 1.2875 -0.5993

CHNL# 159: [VARS 3247[CAVAL A 13.800]1] 1.3885 -0.5193



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 ACTIVE POWER

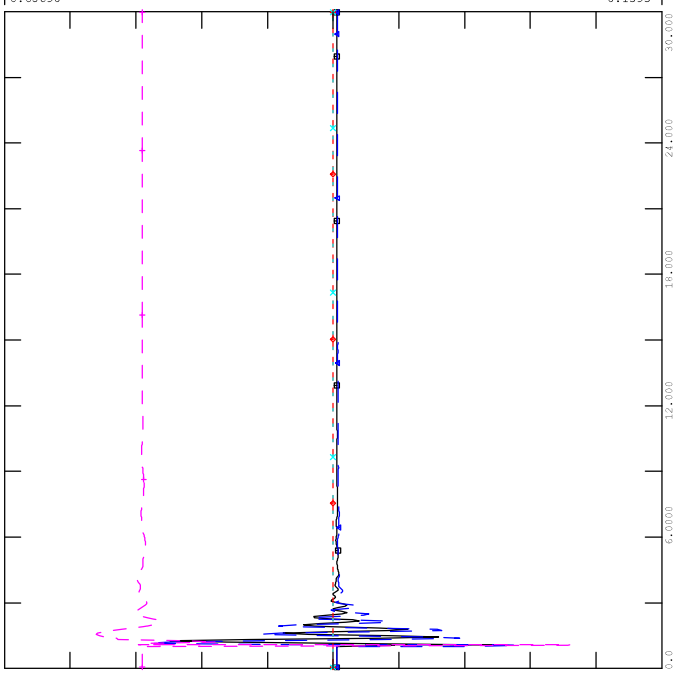
CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.20000 -0.2000

CHNL# 139: [POWR 61736[BSR 4 0.6900]1] 1.6804 0.24770

CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1] 0.20000 -0.2000

CHNL# 111: [POWR 3251[CARSELA2 13.800]2] 0.83990 -0.0896

CHNL# 110: [POWR 3247[CAVAL A 13.800]1] 0.65690 -0.1393



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16 REACTIVE POWER

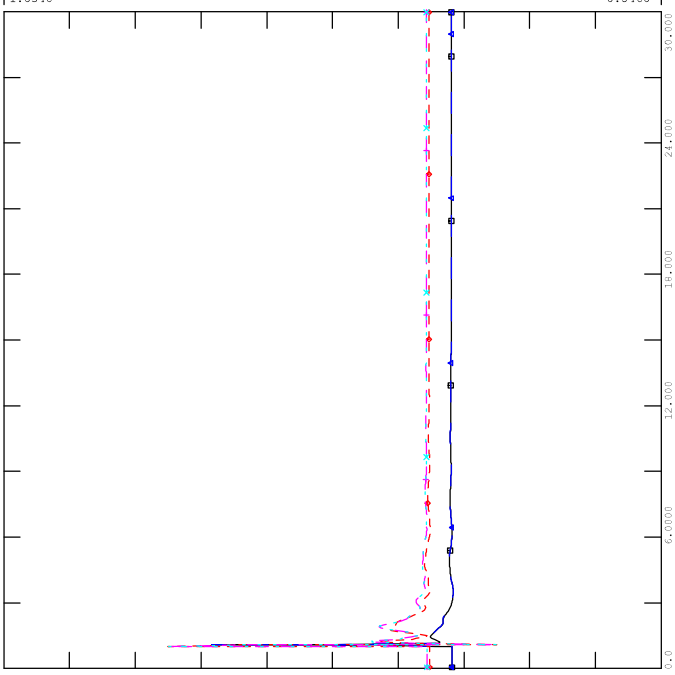
CHNL# 150: [VARS 775[SECCT2 21.000]3] 6.0715 -3.669

CHNL# 149: [VARS 774[SECCT1 21.000]2] 6.0715 -3.669

CHNL# 148: [VARS 773[SECST 20.000]1] 7.5892 -4.451

CHNL# 173: [VARS972378[0.7000]G1] 1.0343 -0.5457

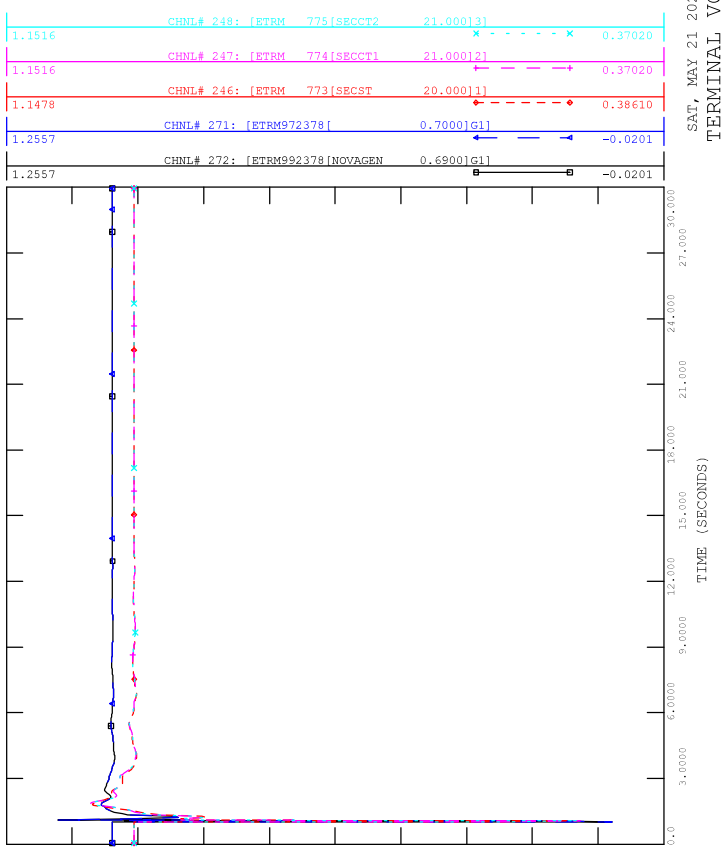
CHNL# 174: [VARS992378[NOVAGEN 0.6900]G1] 1.0340 -0.5460



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16

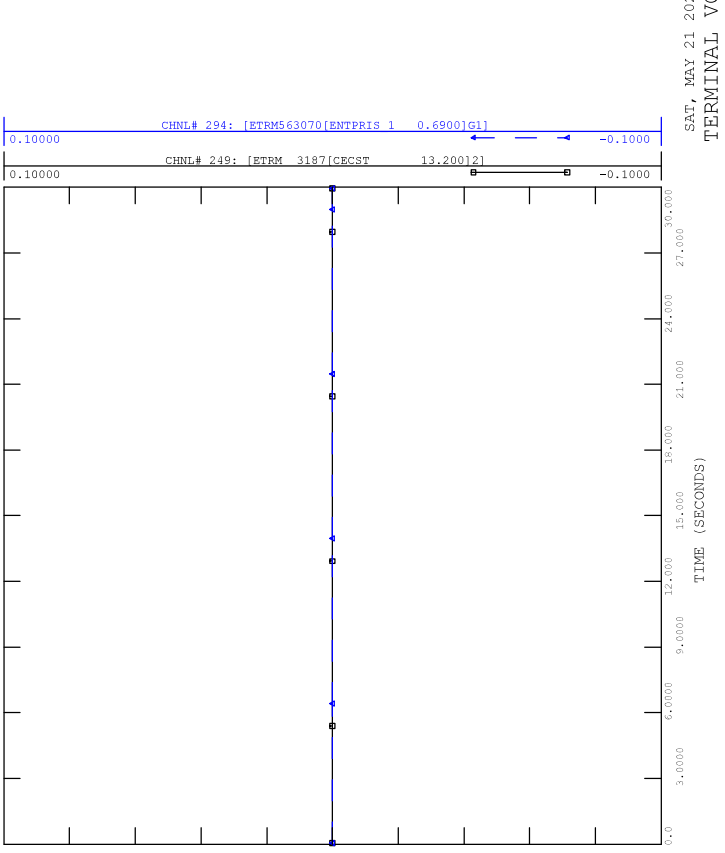


TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16

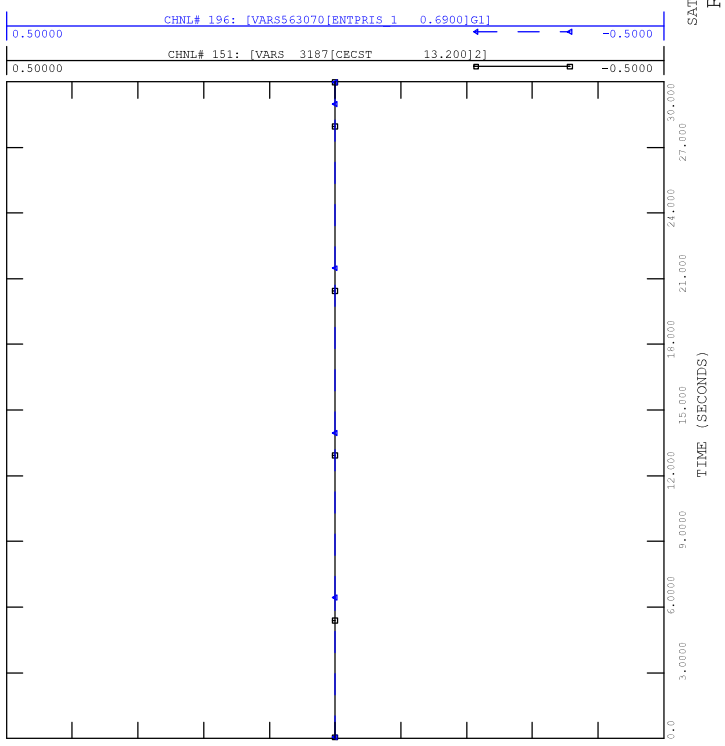


TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16

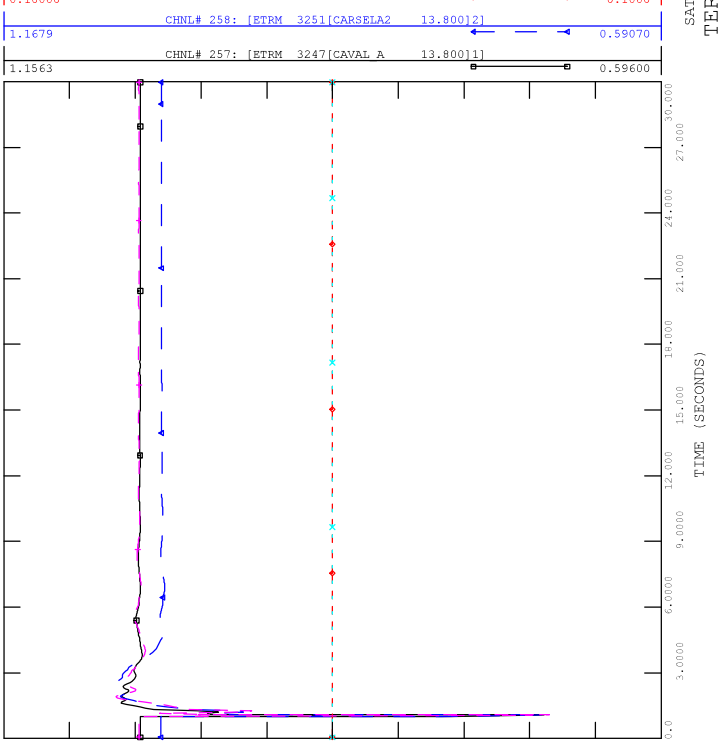


REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:16



TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

CHNL# 335: [1107L P]
124.29 -671.6

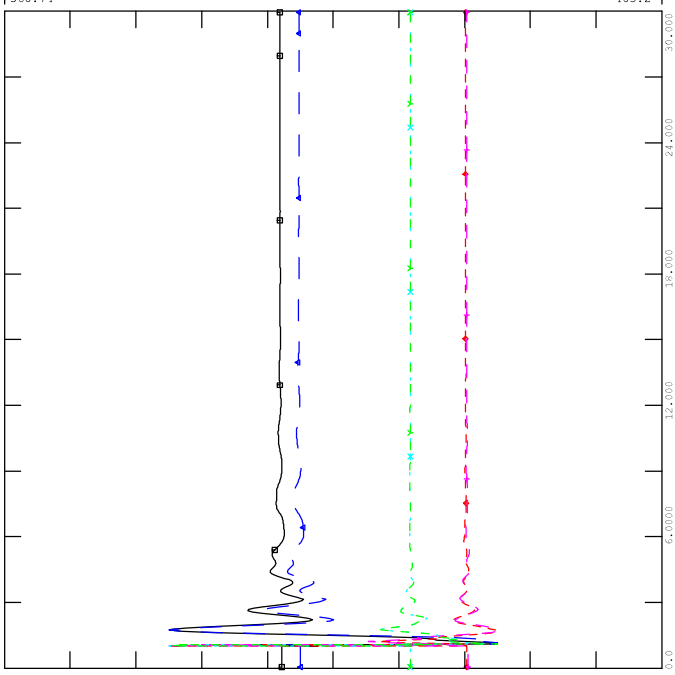
CHNL# 317: [1106L P]
124.29 -671.7

CHNL# 329: [1005L P]
100.82 -397.2

CHNL# 339: [1036L P]
80.299 -529.7

CHNL# 333: [935L P]
287.41 -348.7

CHNL# 321: [923L P]
368.74 -403.2



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

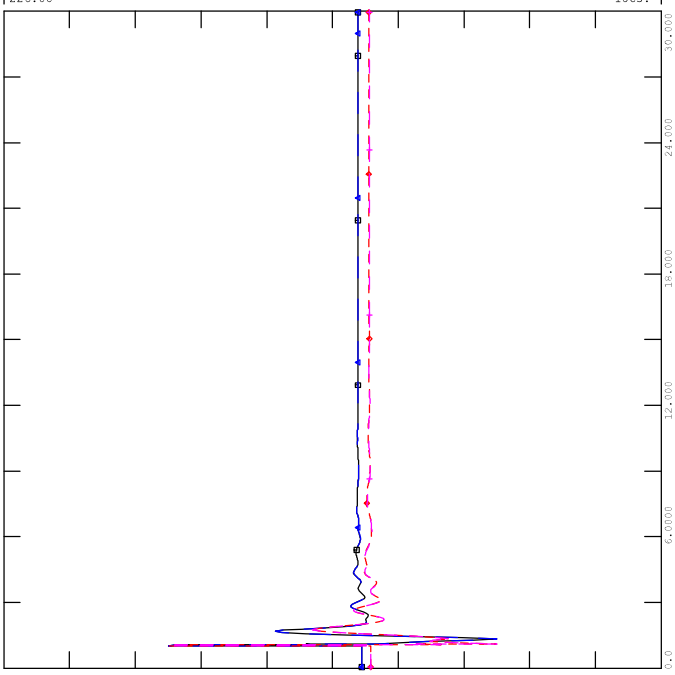
FILE: scn4_SL_A2_15_936L_Langdon.out

CHNL# 355: [927L A2_1 P]
267.14 -823.3

CHNL# 337: [924L A2_1 P]
265.78 -819.5

CHNL# 323: [1003L P]
223.65 -1051.

CHNL# 347: [985L P]
226.00 -1063.



SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.2136 0.29610

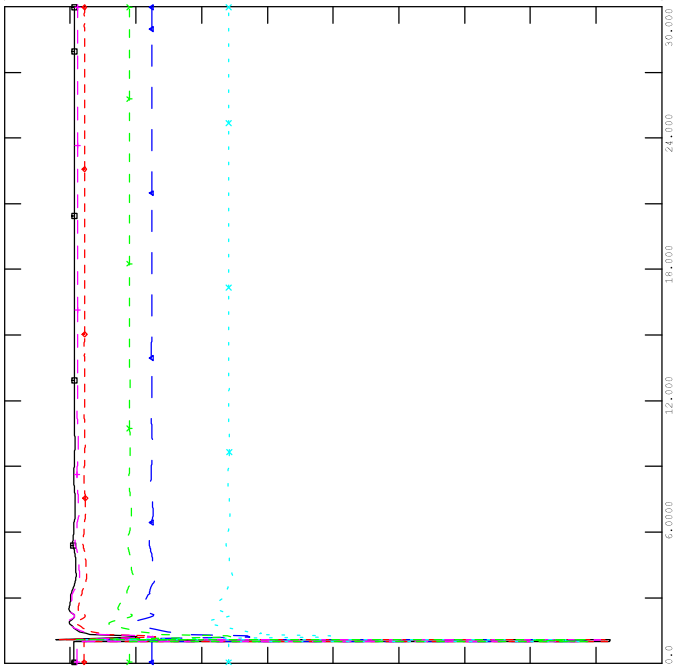
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3237 0.51960

CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1777 0.10510

CHNL# 316: [VOLT 902378 [924L_TAP 240.00]]
1.1975 -0.0110

CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2508 0.32540

CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1889 -0.0851



SAT, MAY 21 2022 1:16
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON

FILE: scn4_SL_A2_15_936L_Langdon.out

CHNL# 336: [1107L Q]
249.65 -130.2

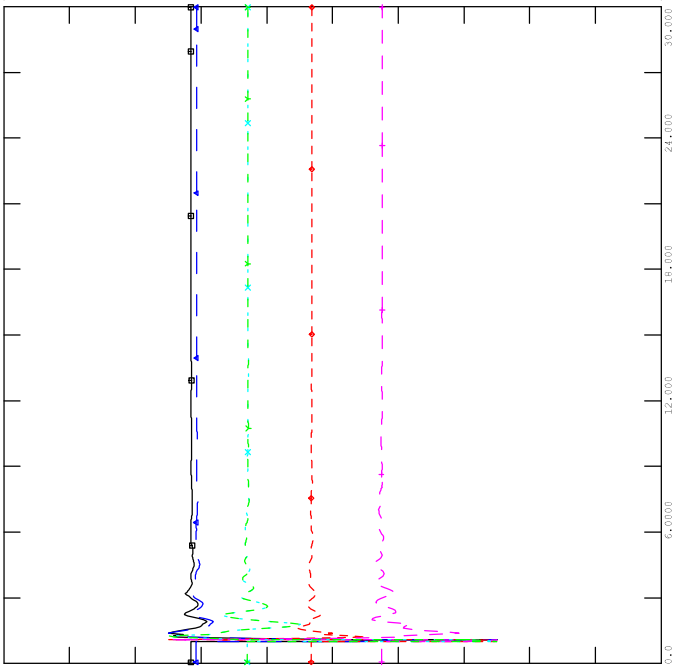
CHNL# 318: [1106L Q]
249.85 -130.2

CHNL# 330: [1005L Q]
150.25 -33.31

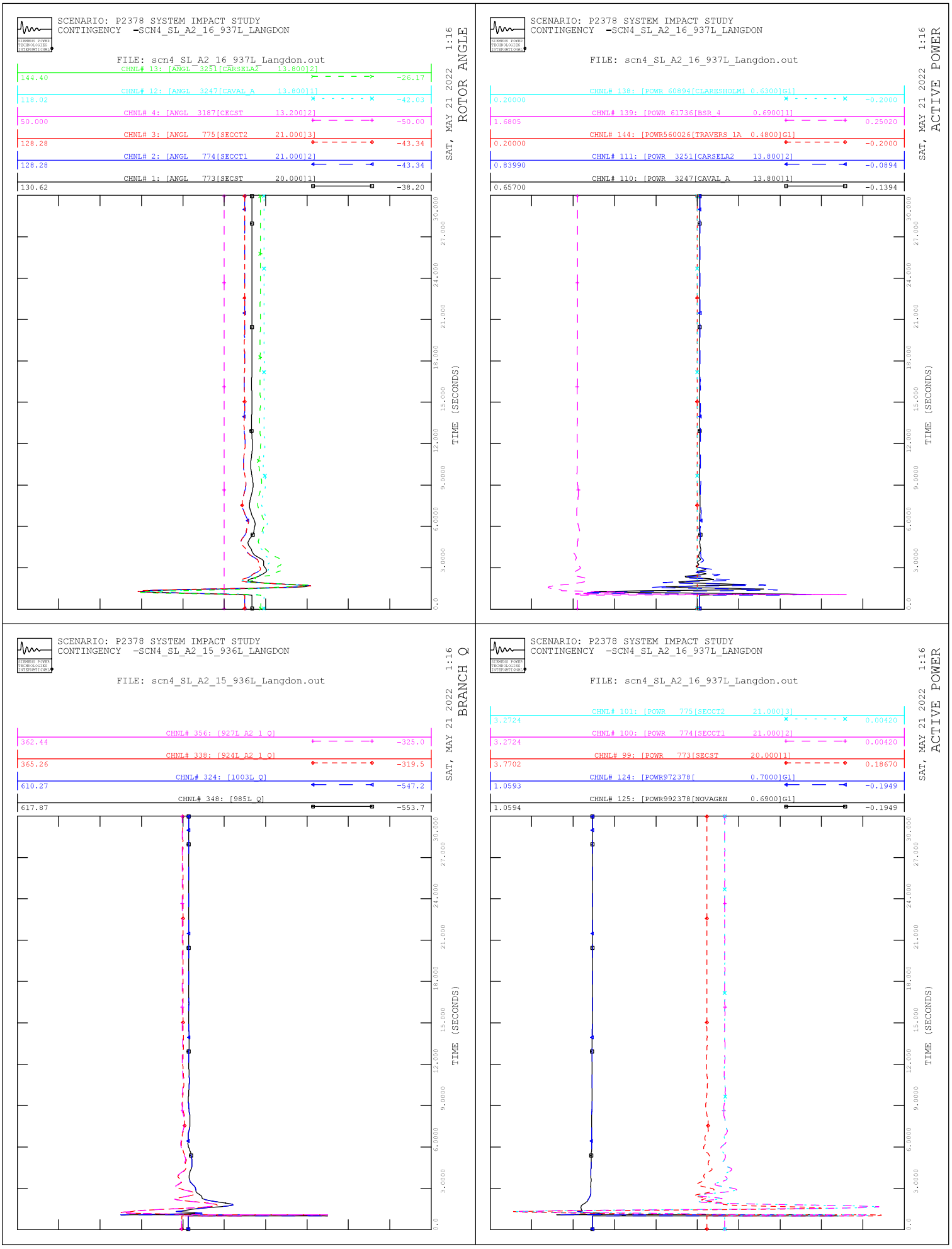
CHNL# 340: [1036L Q]
338.15 -156.3

CHNL# 334: [935L Q]
199.04 -564.7

CHNL# 322: [923L Q]
223.39 -640.7



SAT, MAY 21 2022 1:16
BRANCH Q

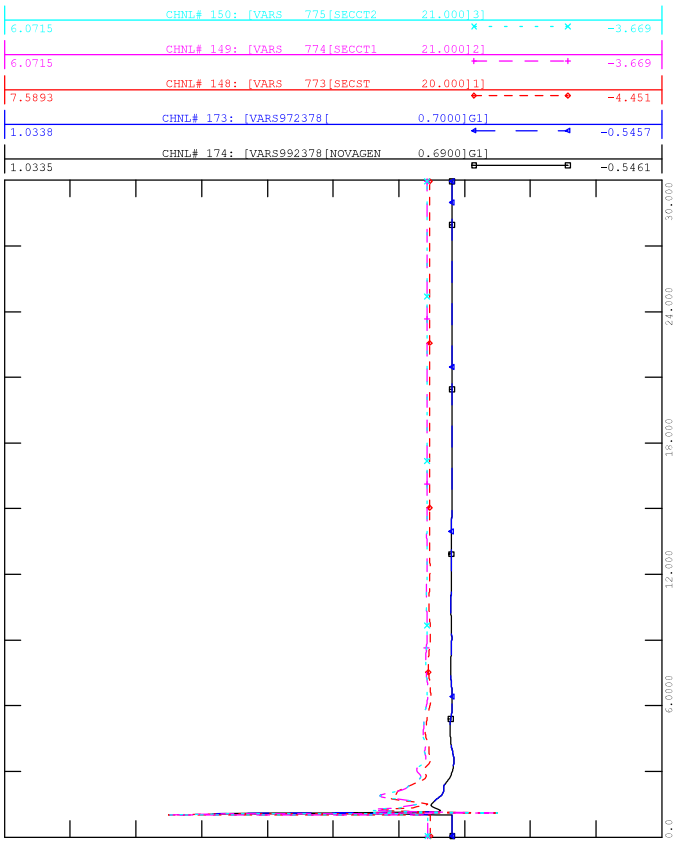

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON
FILE: scn4_SL_A2_16_937L_Langdon.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
144.40
-26.17
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
118.02
-42.03
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
128.28
-43.34
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
128.28
-43.34
CHNL# 1: [ANGL 773[SECST 20.000]1]
130.62
-38.20
SAT, MAY 21 2022 1:16
ROTOR ANGLE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON
FILE: scn4_SL_A2_16_937L_Langdon.out
CHNL# 138: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 139: [POWR 61736[BSR_4 0.6900]1]
1.6805
0.25020
CHNL# 144: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 111: [POWR 3251[CARSELA2 13.800]2]
0.83990
-0.0894
CHNL# 110: [POWR 3247[CAVAL_A 13.800]1]
0.65700
-0.1394
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_15_936L_LANGDON
FILE: scn4_SL_A2_15_936L_Langdon.out
CHNL# 356: [927L_A2_1_Q]
362.44
-325.0
CHNL# 338: [924L_A2_1_Q]
365.26
-319.5
CHNL# 324: [1003L_Q]
610.27
-547.2
CHNL# 348: [985L_Q]
617.87
-553.7
SAT, MAY 21 2022 1:16
BRANCH Q
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON
FILE: scn4_SL_A2_16_937L_Langdon.out
CHNL# 101: [POWR 775[SECCT2 21.000]3]
3.2724
0.00420
CHNL# 100: [POWR 774[SECCT1 21.000]2]
3.2724
0.00420
CHNL# 99: [POWR 773[SECST 20.000]1]
3.7702
0.18670
CHNL# 124: [POWR972378[0.7000]G1]
1.0593
-0.1949
CHNL# 125: [POWR992378[NOVAGEN 0.6900]G1]
1.0594
-0.1949
SAT, MAY 21 2022 1:16
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

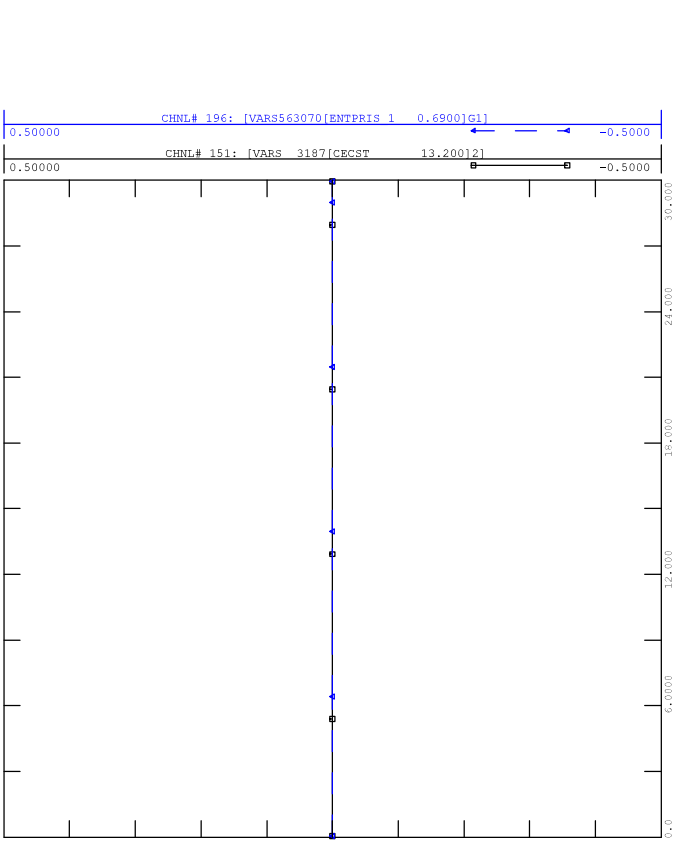


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

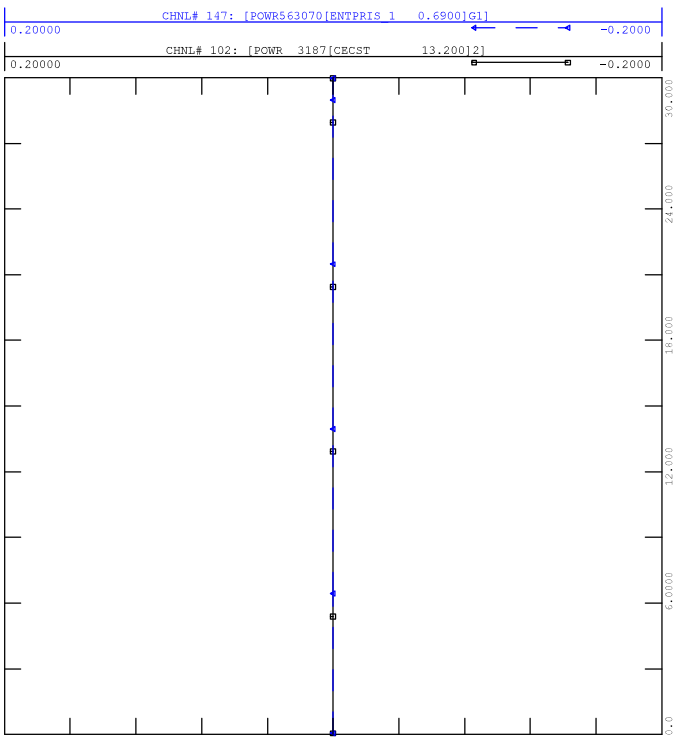


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

ACTIVE POWER

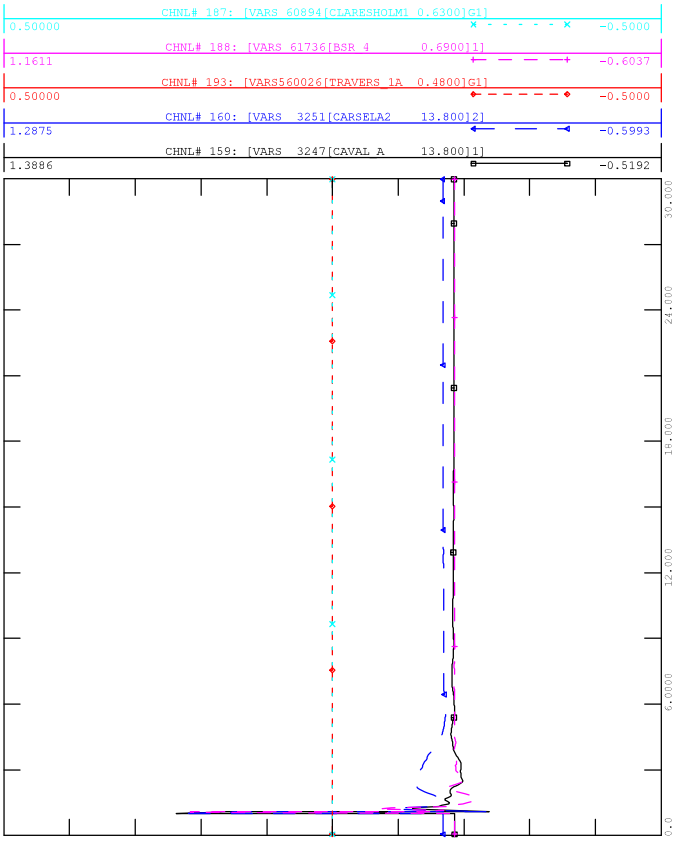


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16

REACTIVE POWER

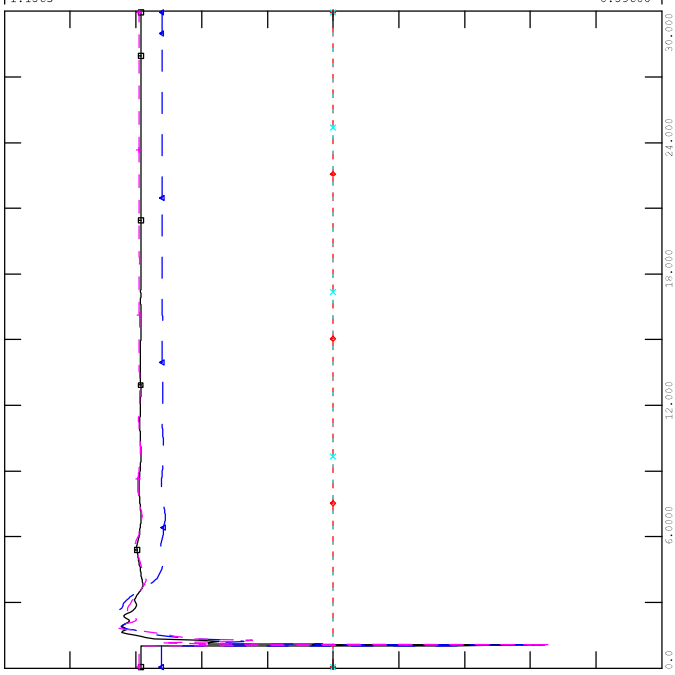


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 285: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 286: [ETRM 61736[BSR 4 0.6900]1]
1.1204 0.53330
CHNL# 291: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 258: [ETRM 3251[CARSELA2 13.800]2]
1.1679 0.59050
CHNL# 257: [ETRM 3247[CAVAL A 13.800]1]
1.1563 0.59600

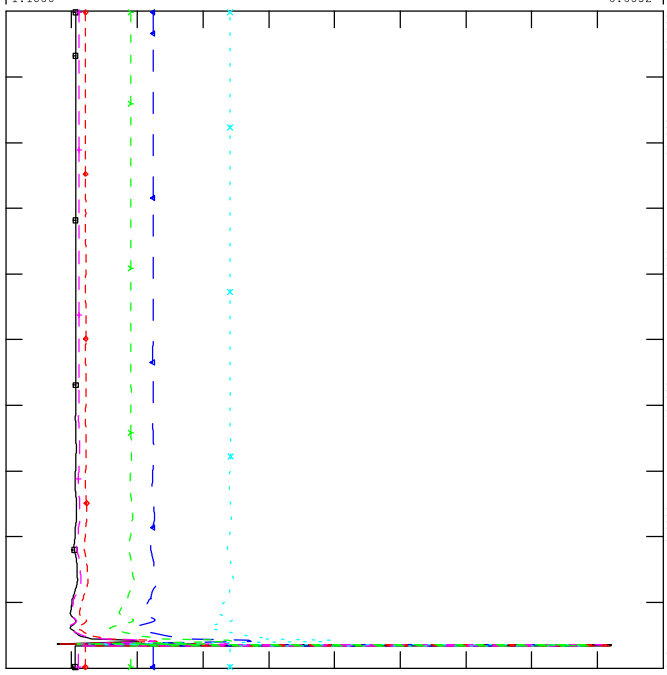


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16
BUS VOLTAGE

CHNL# 311: [VOLT 451 [MATLB1 240.00]]
1.2136 0.29480
CHNL# 313: [VOLT 918 [CASS01 240.00]]
1.3237 0.51950
CHNL# 309: [VOLT 160 [JANET 4 240.00]]
1.1778 0.10490
CHNL# 316: [VOLT 902378 [924L TAP 240.00]]
1.1974 -0.0111
CHNL# 314: [VOLT 943 [MILO 1 240.00]]
1.2508 0.32530
CHNL# 308: [VOLT 159 [LANGDON4 240.00]]
1.1888 -0.0852

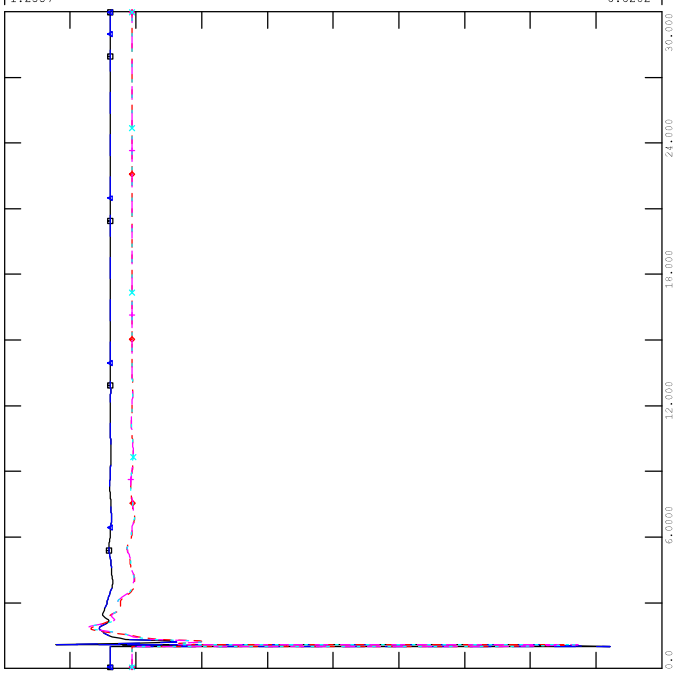


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 248: [ETRM 775[SECCT2 21.000]3]
1.1516 0.37010
CHNL# 247: [ETRM 774[SECCT1 21.000]2]
1.1516 0.37010
CHNL# 246: [ETRM 773[SECST 20.000]1]
1.1479 0.38600
CHNL# 271: [ETRM972378[0.7000]G1]
1.2557 -0.0201
CHNL# 272: [ETRM992378[NOVAGEN 0.6900]G1]
1.2557 -0.0202

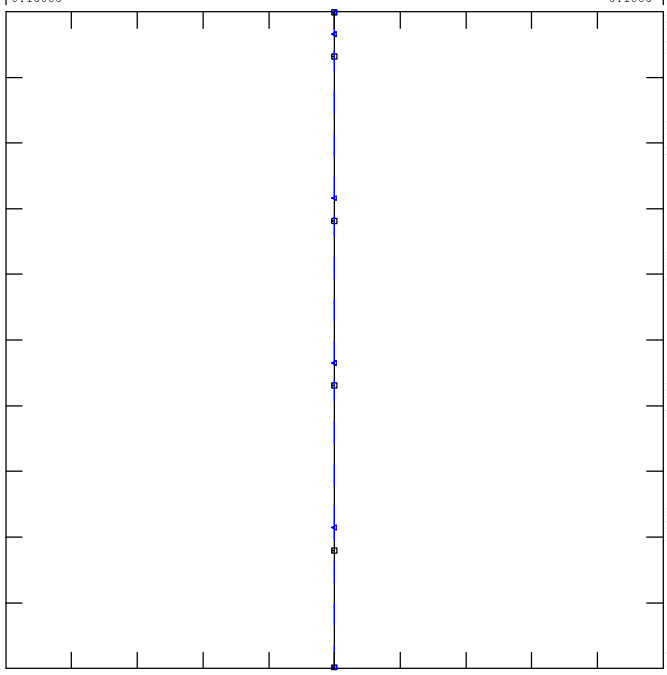


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:16
TERMINAL VOLTAGE

CHNL# 294: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 249: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

CHNL# 336: [1107L Q]
249.66 -130.1
CHNL# 318: [1106L Q]
249.86 -130.2
CHNL# 330: [1005L Q]
150.23 -32.48
CHNL# 340: [1036L Q]
338.07 -155.9
CHNL# 334: [935L Q]
198.43 -562.8
CHNL# 322: [923L Q]
222.65 -638.5

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

CHNL# 356: [927L_A2_1_Q]
362.00 -323.7
CHNL# 338: [924L_A2_1_Q]
364.82 -318.2
CHNL# 324: [1003L Q]
610.31 -547.2
CHNL# 348: [985L Q]
617.90 -553.6

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

CHNL# 335: [1107L P]
124.36 -671.7
CHNL# 317: [1106L P]
124.35 -671.8
CHNL# 329: [1005L P]
100.83 -397.2
CHNL# 339: [1036L P]
80.323 -529.7
CHNL# 333: [935L P]
287.47 -348.7
CHNL# 321: [923L P]
368.78 -403.1

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN4_SL_A2_16_937L_LANGDON

FILE: scn4_SL_A2_16_937L_Langdon.out

CHNL# 355: [927L_A2_1_P]
267.18 -823.4
CHNL# 337: [924L_A2_1_P]
265.83 -819.5
CHNL# 323: [1003L P]
223.67 -1051.
CHNL# 347: [985L P]
226.02 -1063.

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:16
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

FILE: scn8_SP_A1_nofault.out

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.54870 0.14840
CHNL# 108: [POWR 3187[CECST 13.200]2]
1.0141 0.61390
CHNL# 107: [POWR 775[SECCT2 21.000]3]
2.4540 2.0537
CHNL# 106: [POWR 774[SECCT1 21.000]2]
2.4540 2.0537
CHNL# 105: [POWR 773[SECST 20.000]1]
3.2051 2.8048
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.7000 1.3000

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

FILE: scn8_SP_A1_nofault.out

CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
1.2000 0.80000
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
2.1805 1.7805

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

FILE: scn8_SP_A1_nofault.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
63.404 -36.78
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
55.363 -45.46
CHNL# 4: [ANGL 3187[CECST 13.200]2]
53.028 -47.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
67.866 -32.15
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
67.866 -32.15
CHNL# 1: [ANGL 773[SECST 20.000]1]
68.965 -31.05

SAT, MAY 21 2022 1:18
ROTOR ANGLE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

FILE: scn8_SP_A1_nofault.out

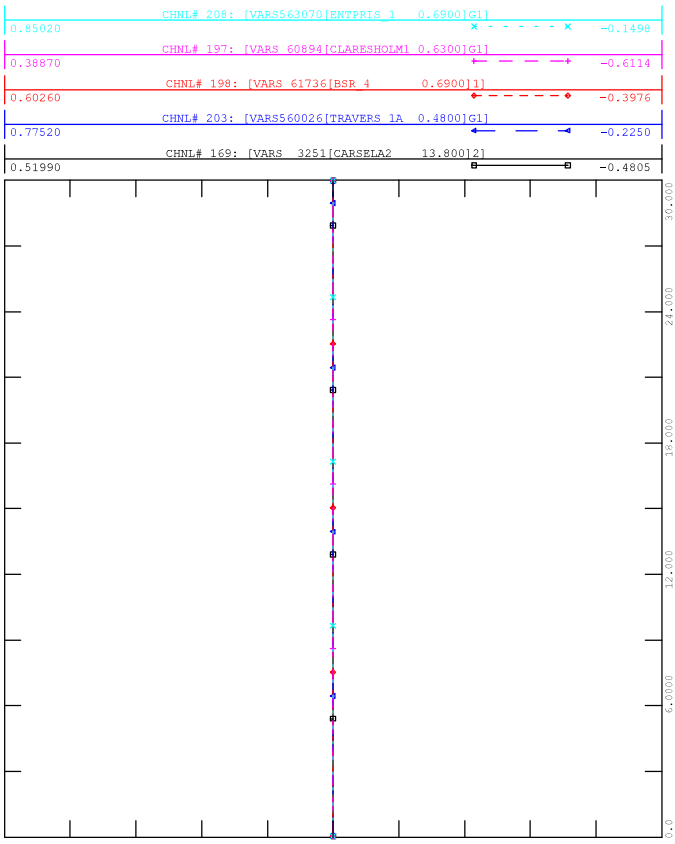
CHNL# 156: [POWR563070[ENTPRIS 1 0.6900]G1]
0.52500 0.12500
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.49000 0.09000
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.4751 1.0746
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.97390 0.57390
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.55500 0.15490

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

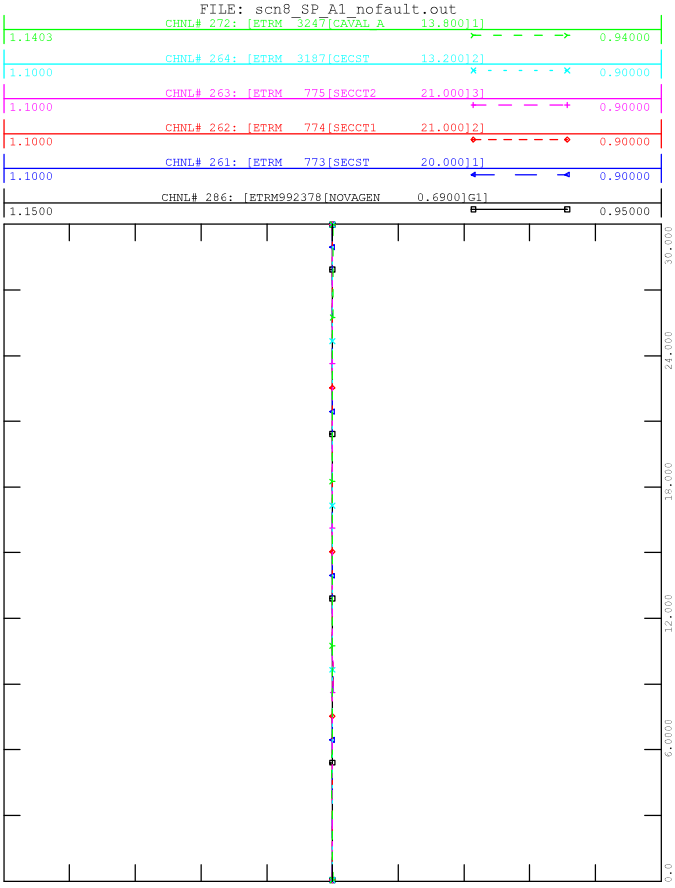
FILE: scn8_SP_A1_nofault.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

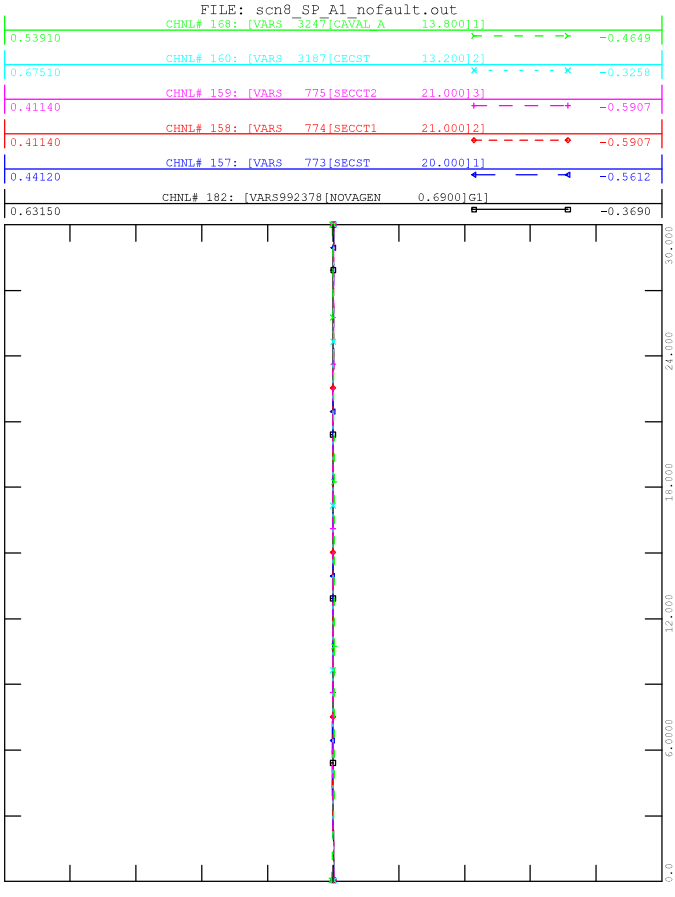
FILE: scn8_SP_A1_nofault.out



SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

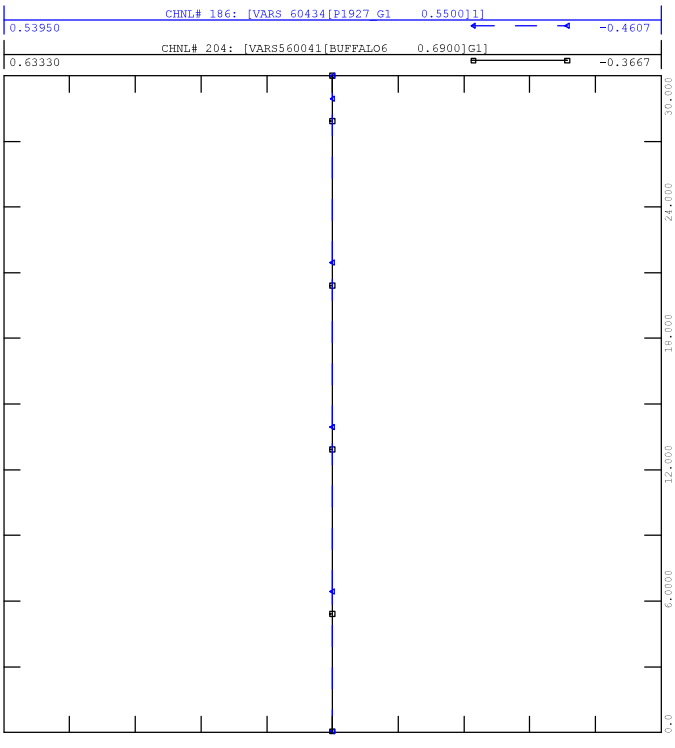
FILE: scn8_SP_A1_nofault.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

FILE: scn8_SP_A1_nofault.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

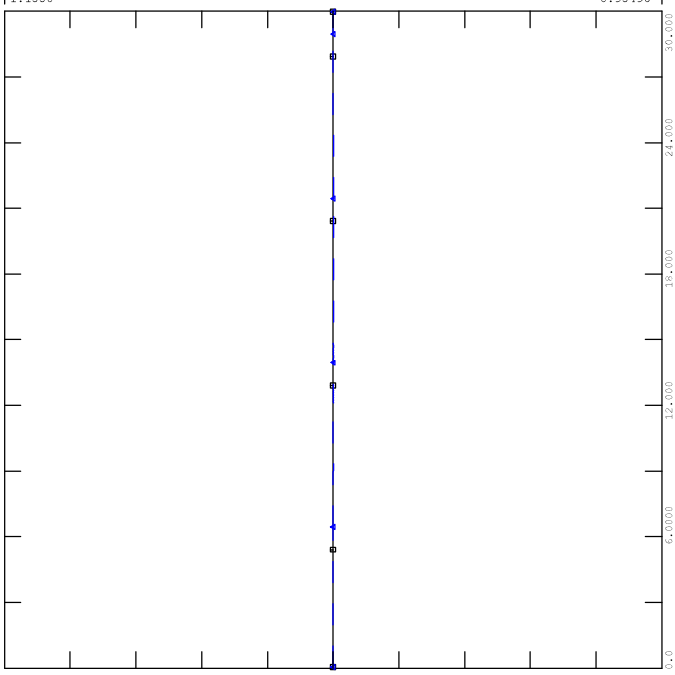
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

FILE: scn8_SP_A1_nofault.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
1.1500 0.95000

CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.1550 0.95490



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

FILE: scn8_SP_A1_nofault.out

SAT, MAY 21 2022 1:18 BRANCH P

CHNL# 357: [1107L P]
-343.7 -424.7

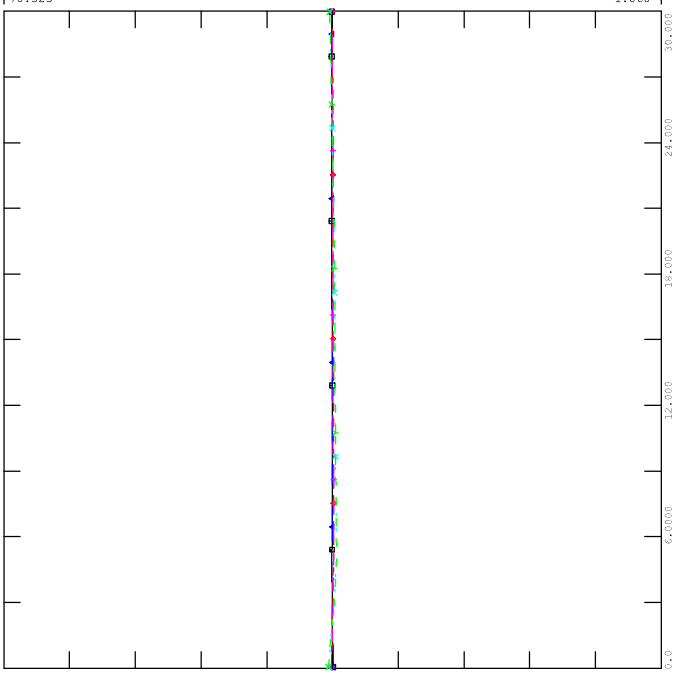
CHNL# 335: [1106L P]
-343.7 -424.8

CHNL# 347: [1005L P]
-261.5 -341.8

CHNL# 359: [1036L P]
-215.7 -295.9

CHNL# 351: [935L P]
33.463 -46.72

CHNL# 339: [923L P]
78.323 -1.868



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

FILE: scn8_SP_A1_nofault.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

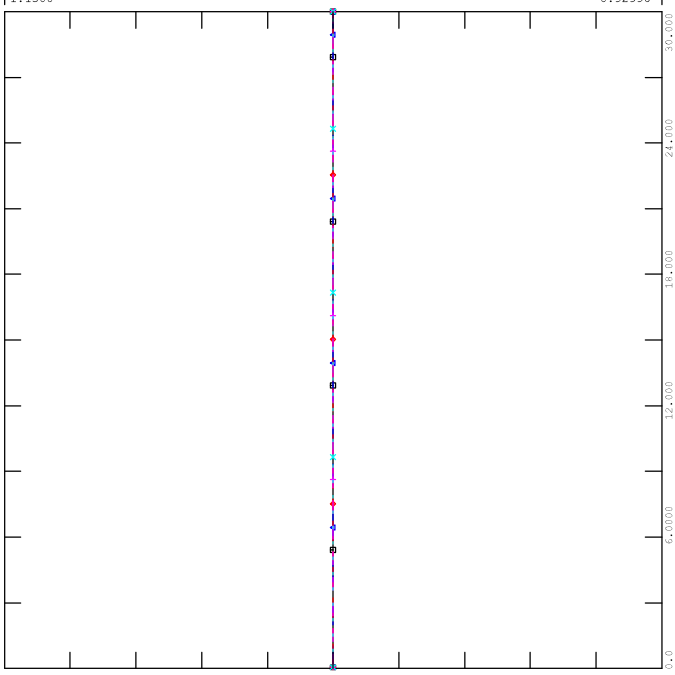
CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.1500 0.95000

CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.1250 0.92500

CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1250 0.92500

CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.1550 0.95500

CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1300 0.92990



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

FILE: scn8_SP_A1_nofault.out

SAT, MAY 21 2022 1:18 BUS VOLTAGE

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1213 0.92120

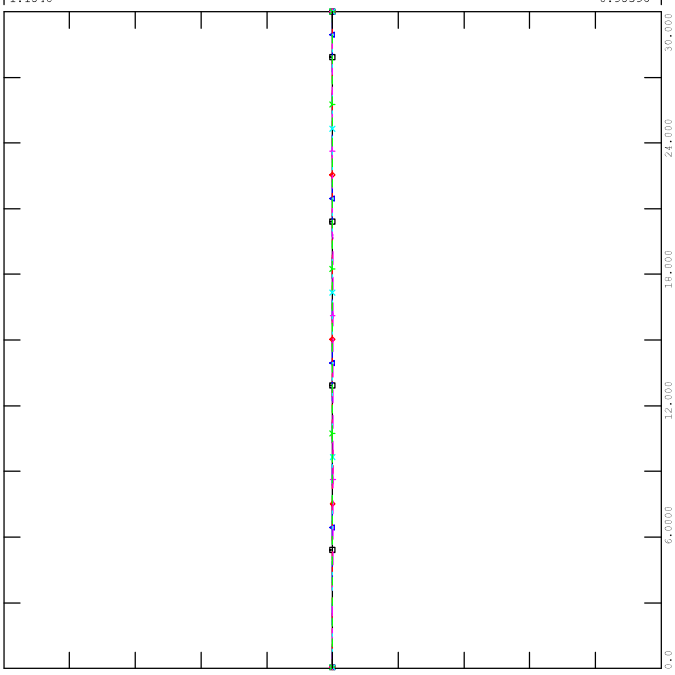
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.1461 0.94610

CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1579 0.95780

CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1455 0.94540

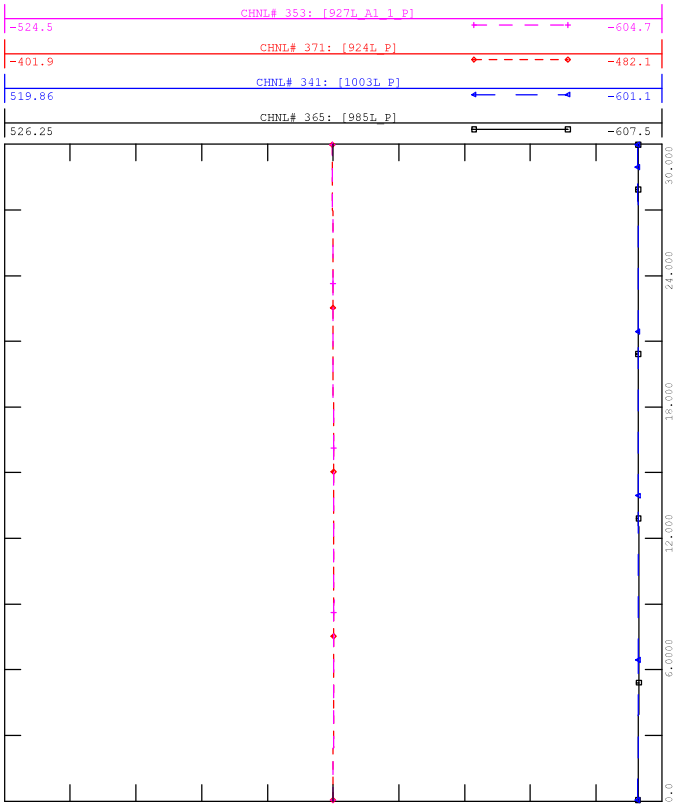
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.1392 0.93910

CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1540 0.95390



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

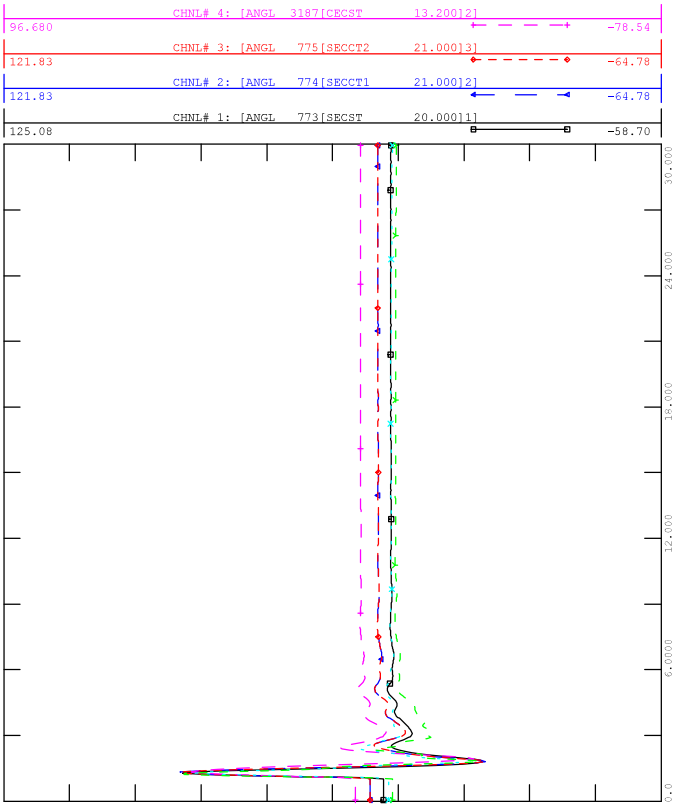
FILE: scn8_SP_A1_nofault.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

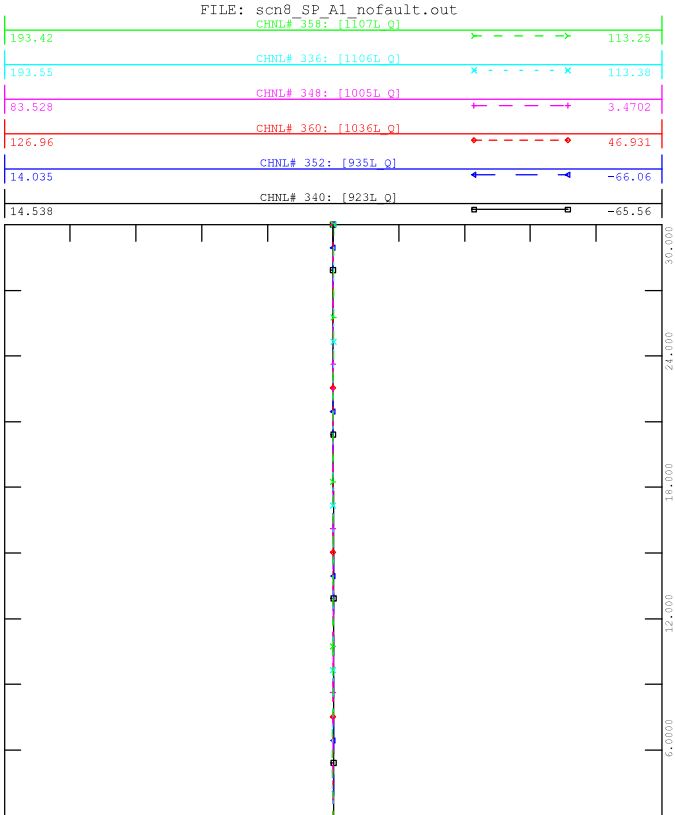
FILE: scn8_SP_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

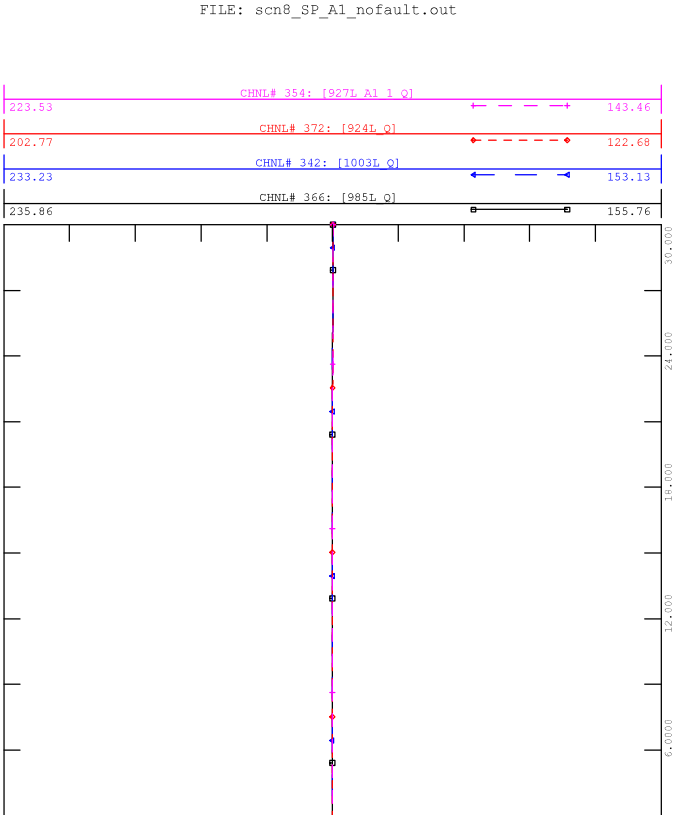
FILE: scn8_SP_A1_nofault.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_NOFAULT

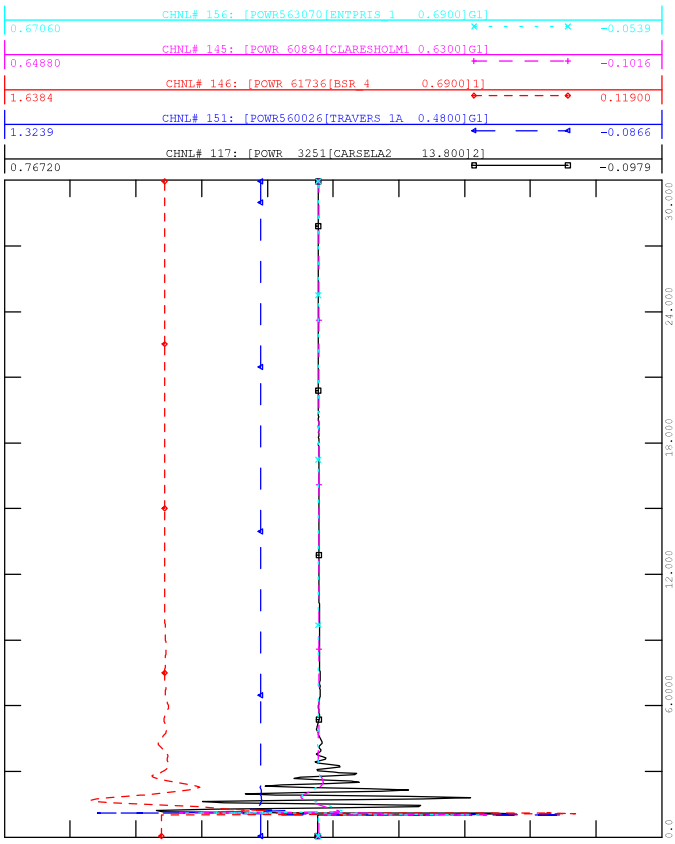
FILE: scn8_SP_A1_nofault.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

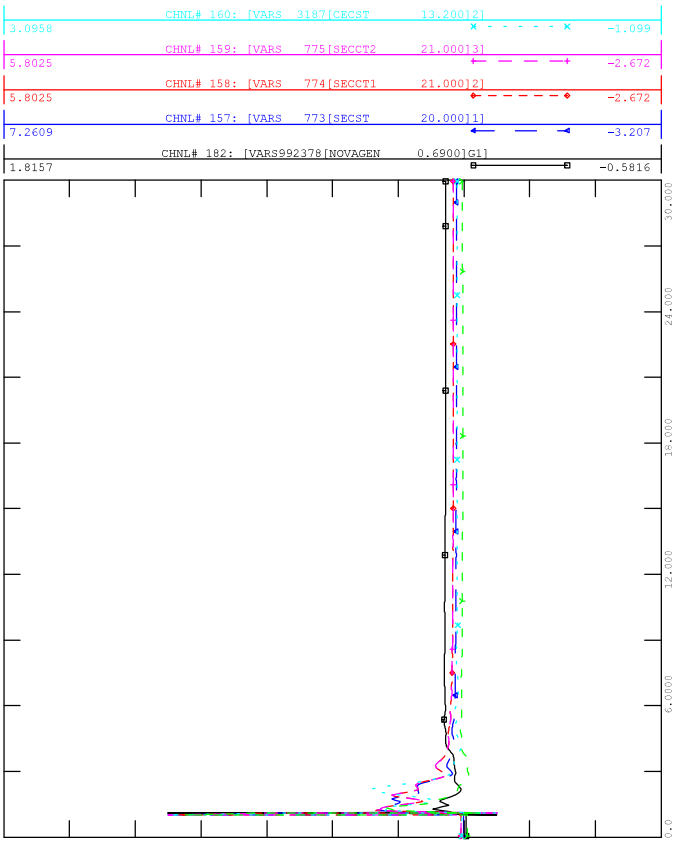
FILE: scn8_SP_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

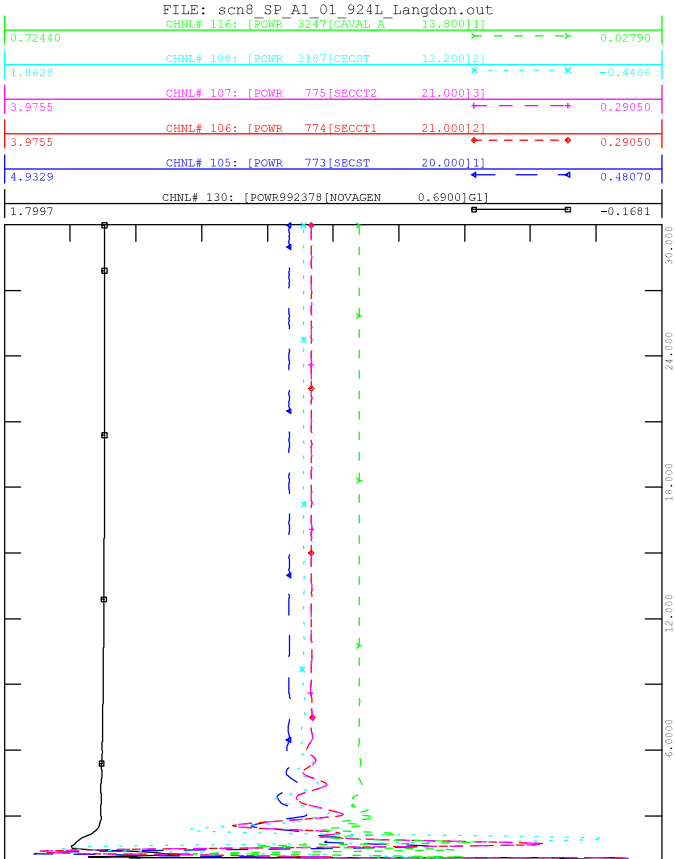
FILE: scn8_SP_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

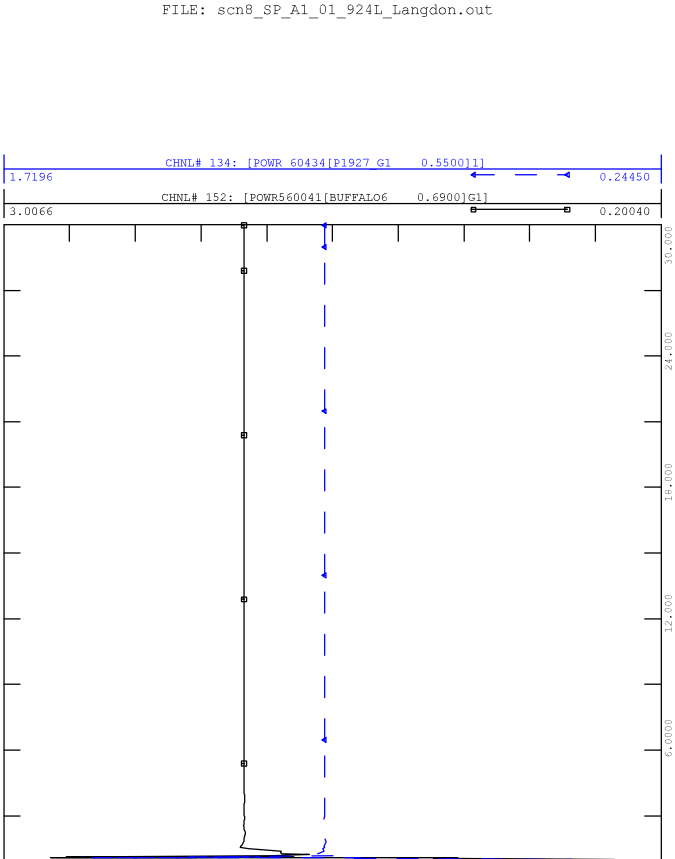
FILE: scn8_SP_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

FILE: scn8_SP_A1_01_924L_Langdon.out



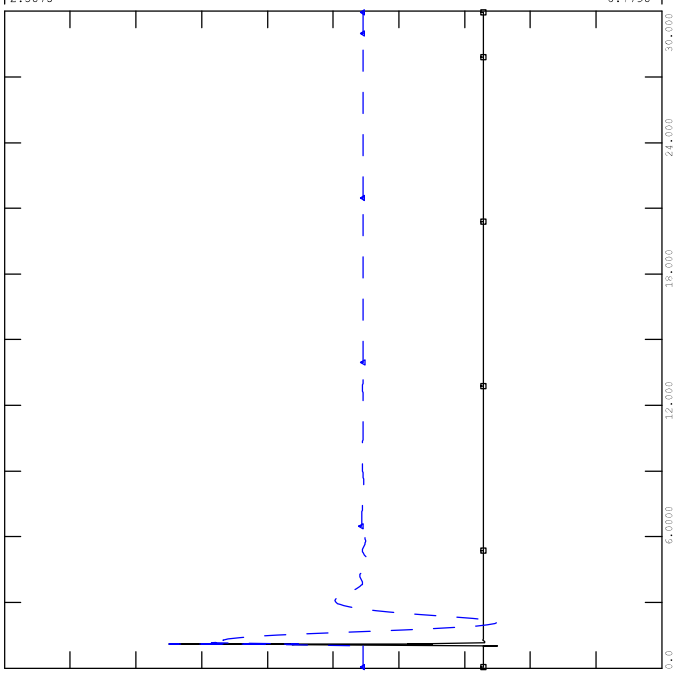
SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

FILE: scn8_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
1.3909 -1.088
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
2.5875 -0.7798

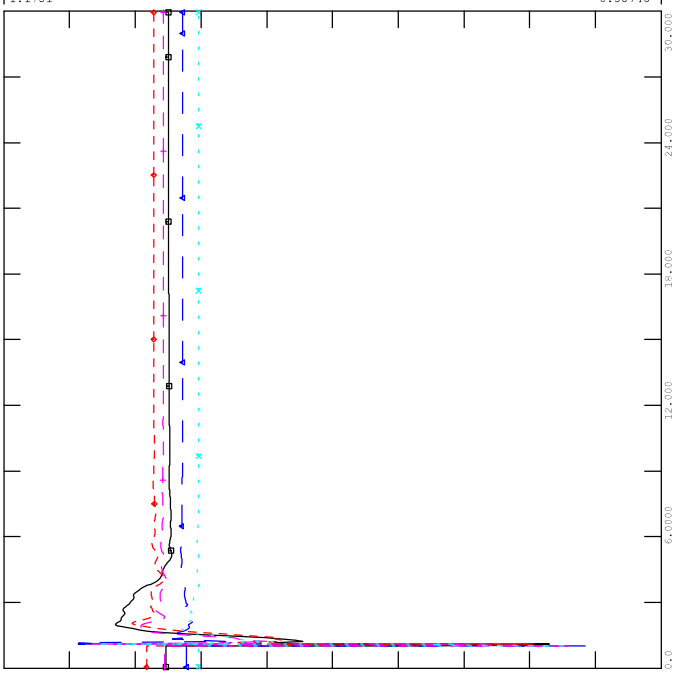


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

FILE: scn8_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1]
1.2614 0.54820
CHNL# 301: [ETRM_60894[CLARESHOLM1 0.6300]G1]
1.2086 0.45950
CHNL# 302: [ETRM_61736[BSR_4 0.6900]1]
1.1360 0.62430
CHNL# 307: [ETRM560026[TRAVERS_1A 0.4800]G1]
1.2997 0.41910
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1751 0.58740

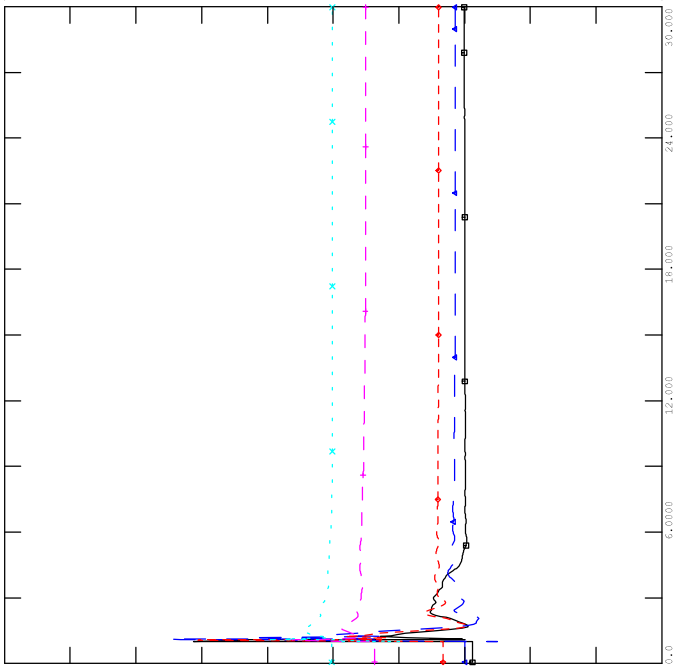


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

FILE: scn8_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1]
0.97820 -0.2826
CHNL# 197: [VARS_60894[CLARESHOLM1 0.6300]G1]
0.53220 -0.6114
CHNL# 198: [VARS_61736[BSR_4 0.6900]1]
1.2340 -0.4628
CHNL# 203: [VARS560026[TRAVERS_1A 0.4800]G1]
2.2524 -0.5704
CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
1.2561 -0.4805

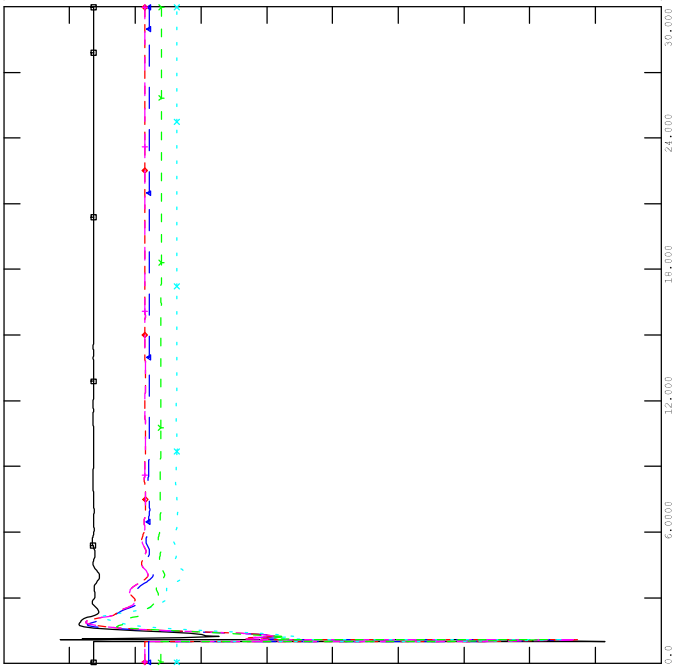


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

FILE: scn8_SP_A1_01_924L_Langdon.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1794 0.59510
CHNL# 264: [ETRM 3187[CECST 13.200]2]
1.1812 0.49180
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1719 0.37090
CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1719 0.37090
CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1737 0.38670
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.2090 0.04190

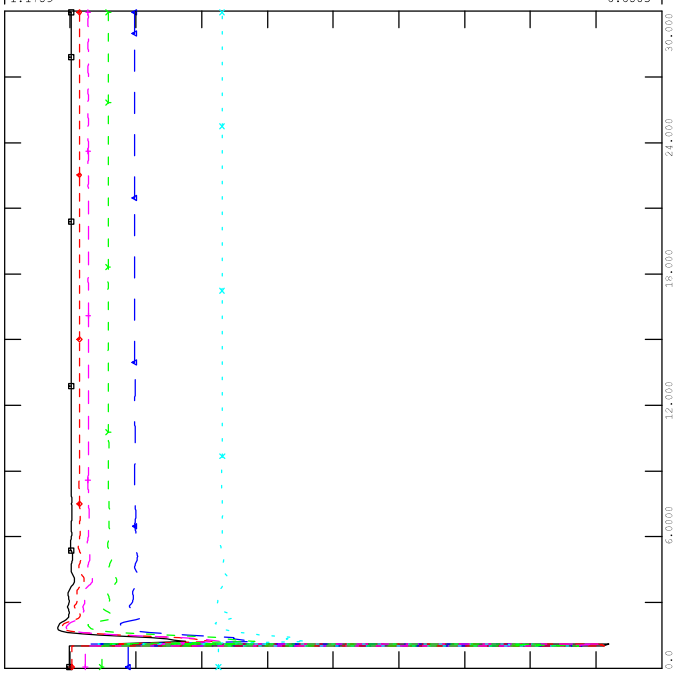


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

FILE: scn8_SP_A1_01_924L_Langdon.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1378 0.34940
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.2753 0.57160
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1887 0.12440
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1628 0.02150
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.1936 0.37360
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1759 -0.0583

SAT, MAY 21 2022 1:18
BUS VOLTAGE

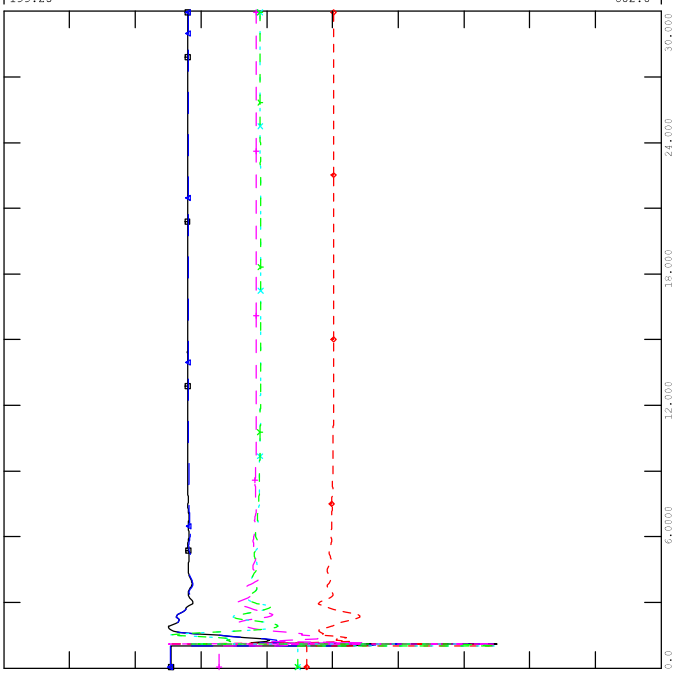


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

FILE: scn8_SP_A1_01_924L_Langdon.out

CHNL# 358: [1107L Q]
432.06 -191.6
CHNL# 336: [1106L Q]
432.33 -191.7
CHNL# 348: [1005L Q]
189.36 -256.7
CHNL# 360: [1036L Q]
296.81 -158.9
CHNL# 352: [935L Q]
177.38 -625.0
CHNL# 340: [923L Q]
199.25 -682.8

SAT, MAY 21 2022 1:18
BRANCH Q

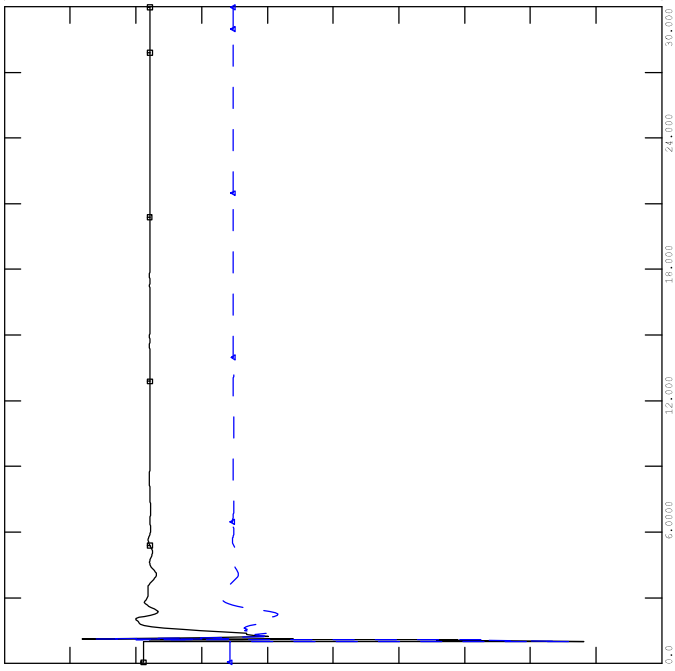


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

FILE: scn8_SP_A1_01_924L_Langdon.out

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
1.2975 0.57610
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.2331 0.38950

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

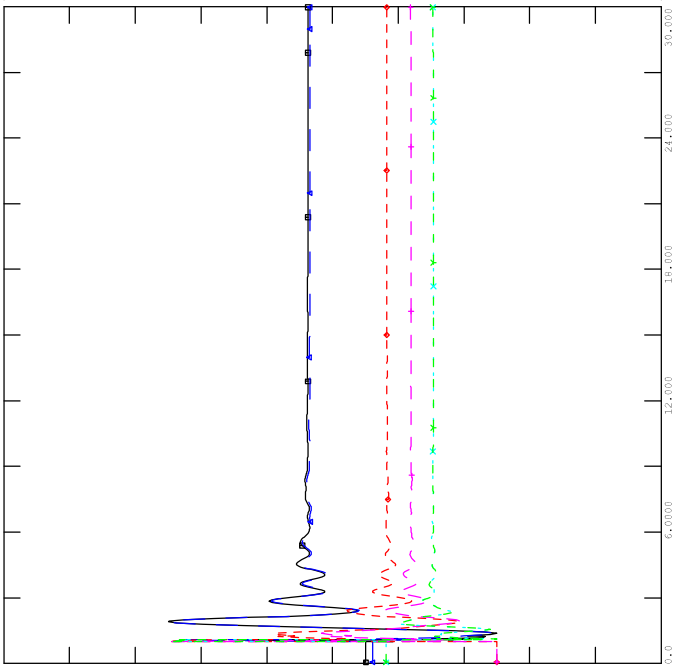


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

FILE: scn8_SP_A1_01_924L_Langdon.out

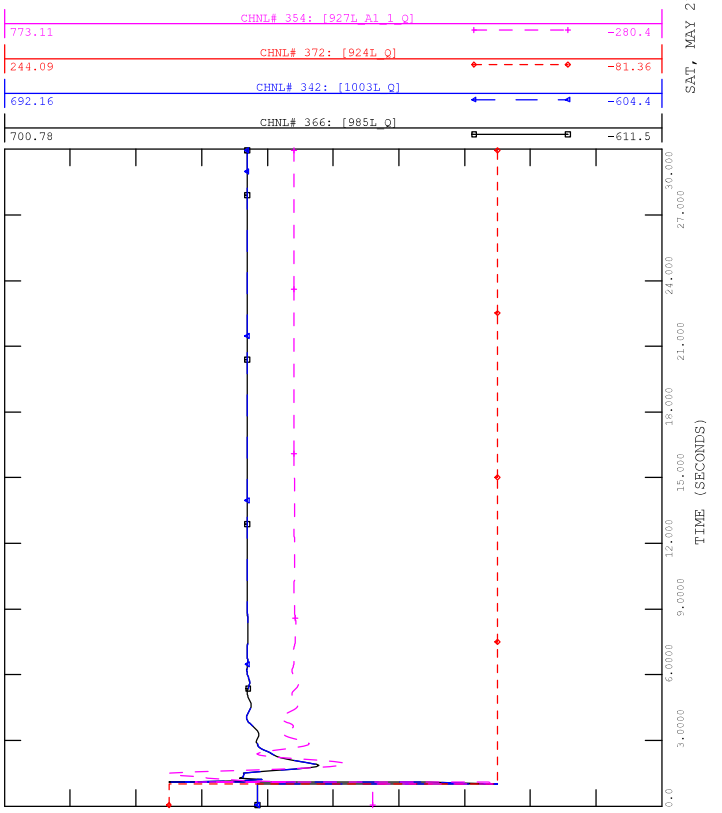
CHNL# 357: [1107L P]
130.71 -753.6
CHNL# 335: [1106L P]
130.69 -753.7
CHNL# 347: [1005L P]
108.53 -438.3
CHNL# 359: [1036L P]
61.664 -361.5
CHNL# 351: [935L P]
315.88 -259.1
CHNL# 339: [923L P]
381.84 -242.2

SAT, MAY 21 2022 1:18
BRANCH P



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

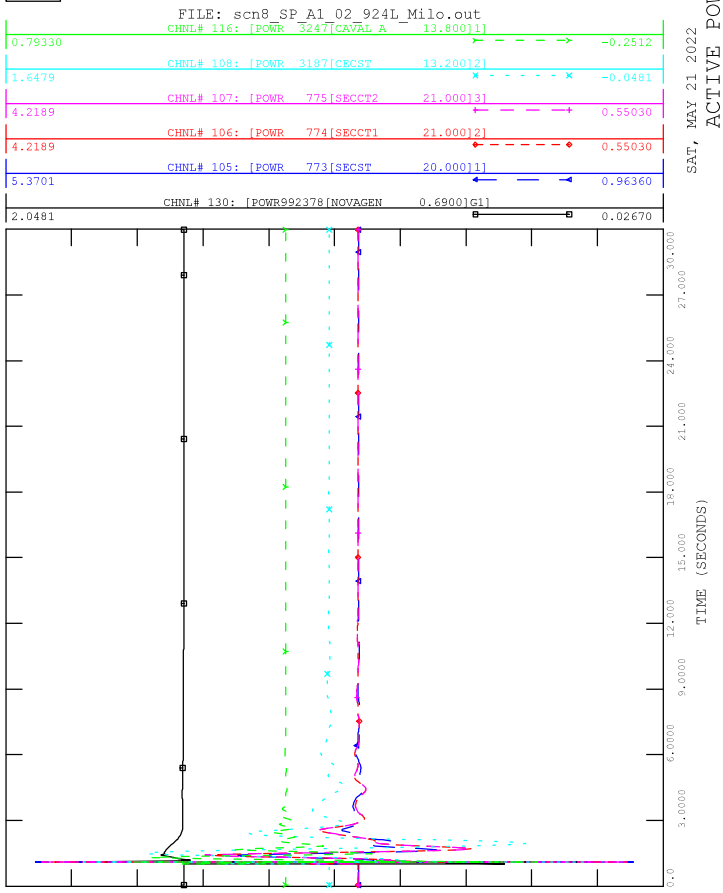
FILE: scn8_SP_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

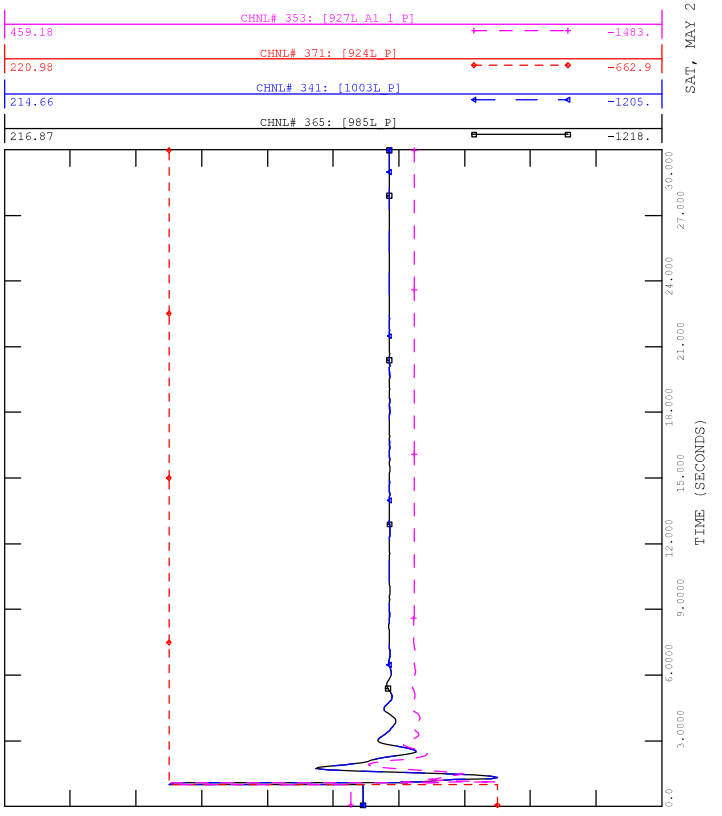
FILE: scn8_SP_A1_02_924L_Milo.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_01_924L_LANGDON

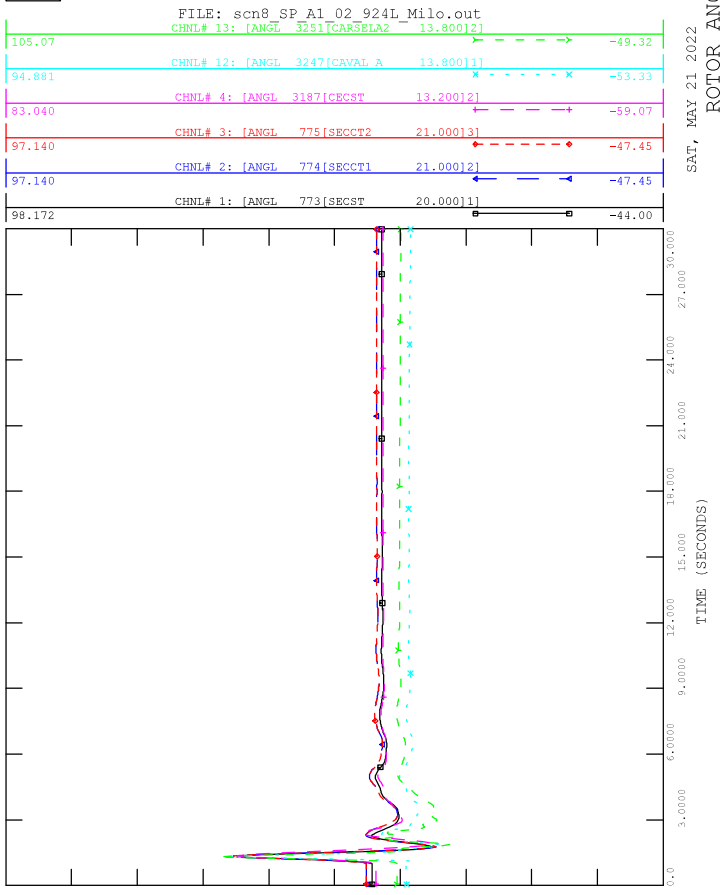
FILE: scn8_SP_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

FILE: scn8_SP_A1_02_924L_Milo.out



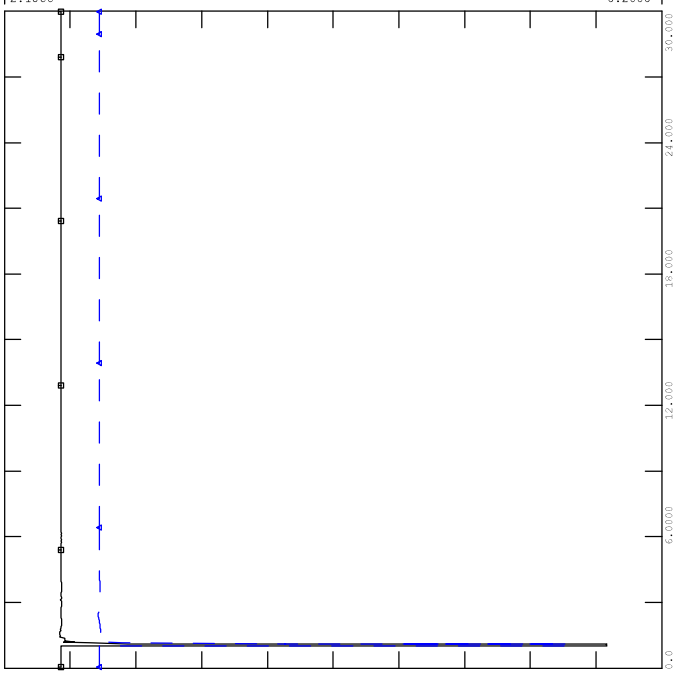
SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

FILE: scn8_SP_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
1.2030 -0.2000
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
2.1866 -0.2000

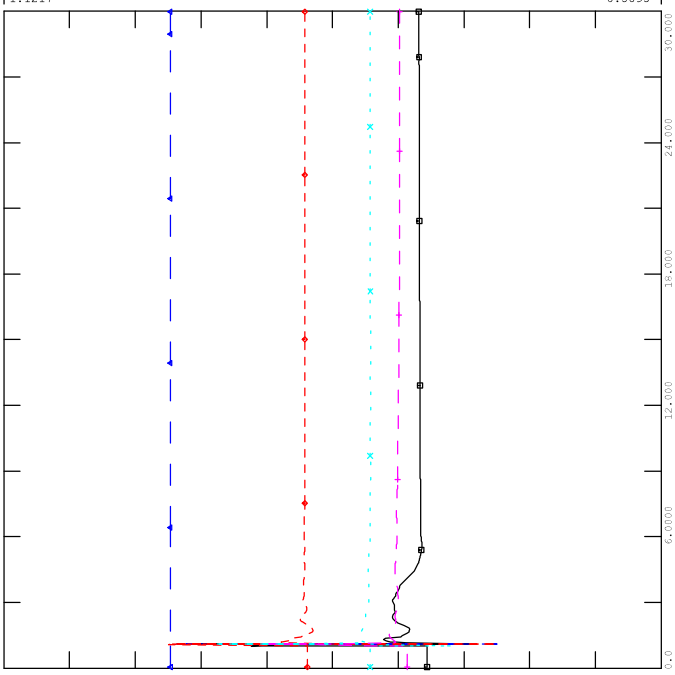


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

FILE: scn8_SP_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1]
1.2312 -0.3499
CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.68300 -0.6114
CHNL# 198: [VARS 61736[BSR_4 0.6900]1]
1.4674 -1.487
CHNL# 203: [VARS560026[TRAVERS_1A 0.4800]G1]
87.589 -257.1
CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
1.1217 -0.5895

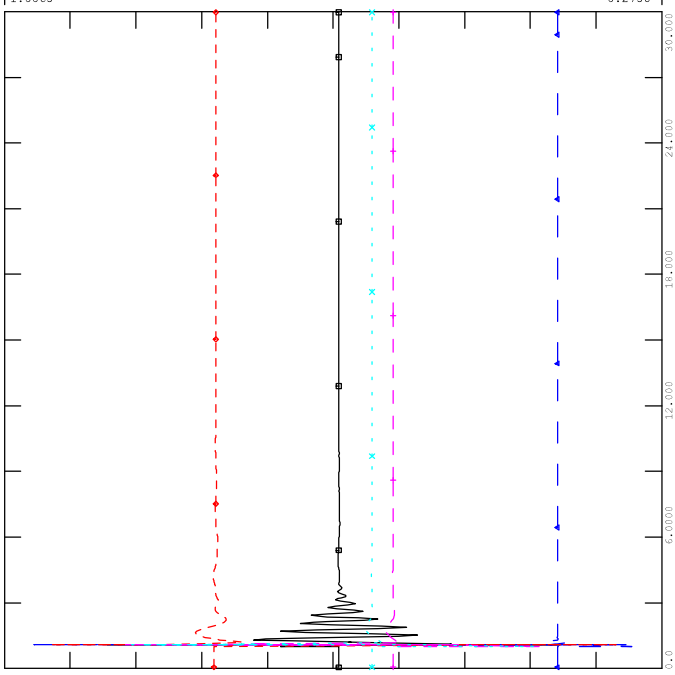


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

FILE: scn8_SP_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.90240 -0.1304
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.93080 -0.1530
CHNL# 146: [POWR 61736[BSR_4 0.6900]1]
2.1875 -0.6739
CHNL# 151: [POWR560026[TRAVERS_1A 0.4800]G1]
6.5132 -0.3102
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
1.0065 -0.2758

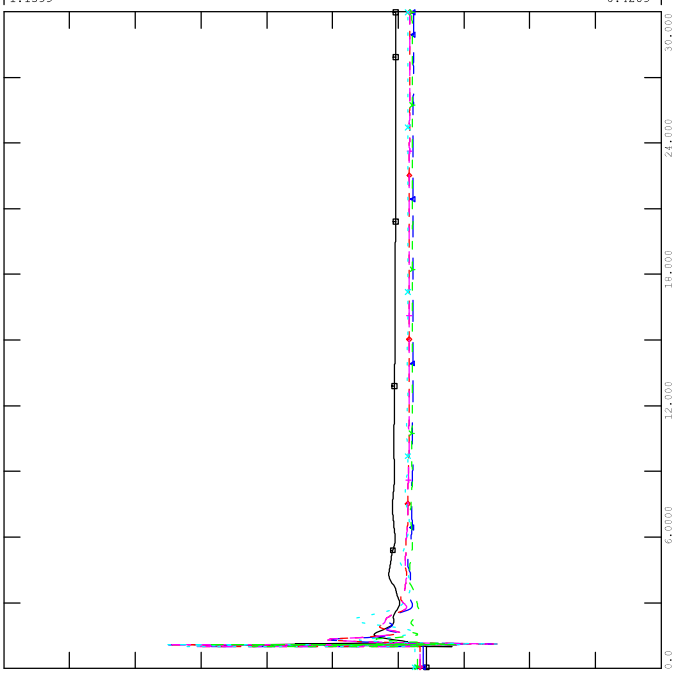


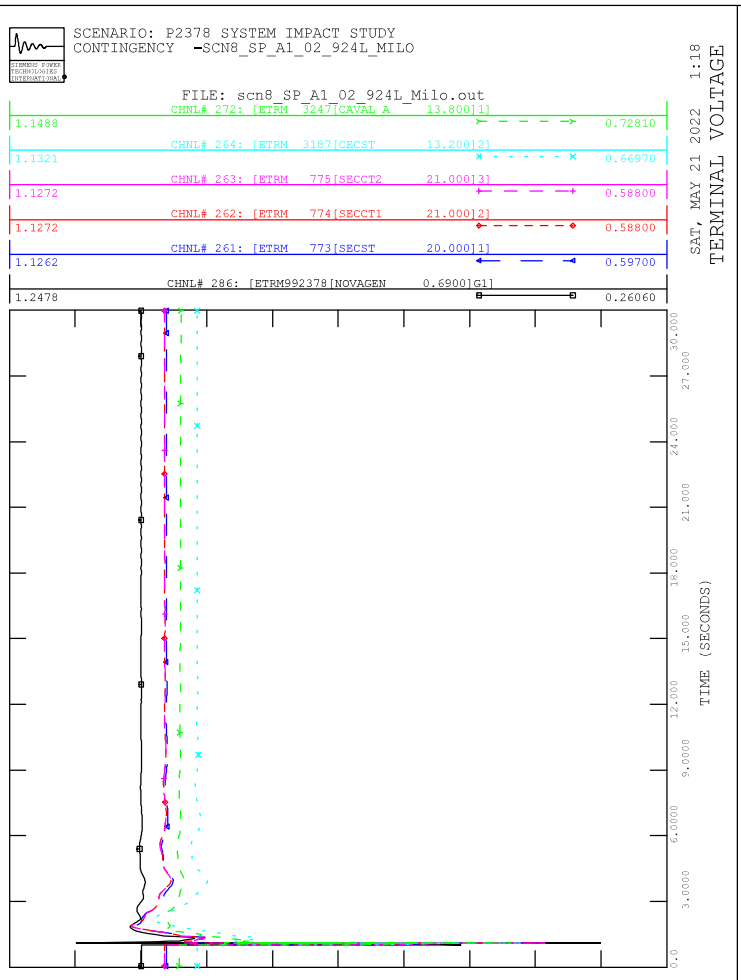
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

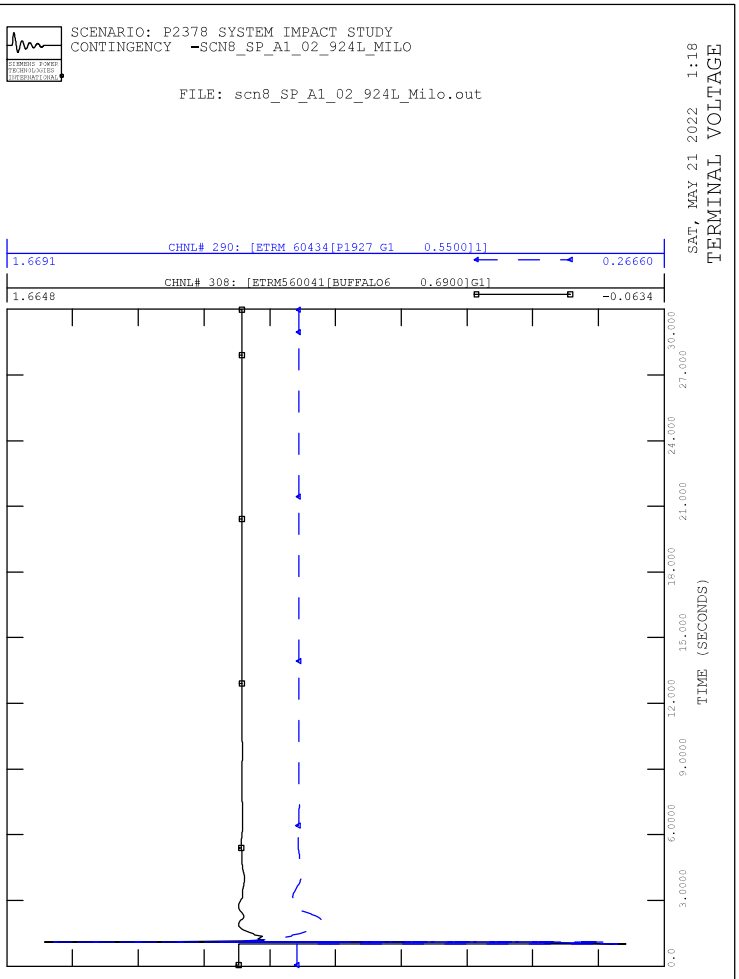
FILE: scn8_SP_A1_02_924L_Milo.out

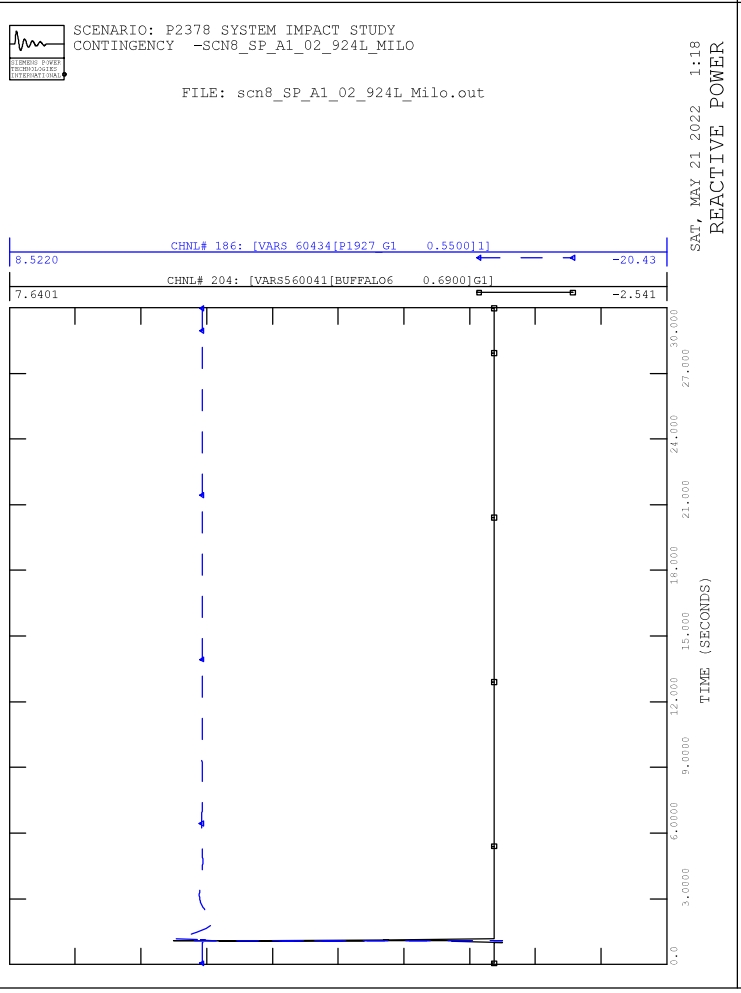
SAT, MAY 21 2022 1:18 REACTIVE POWER

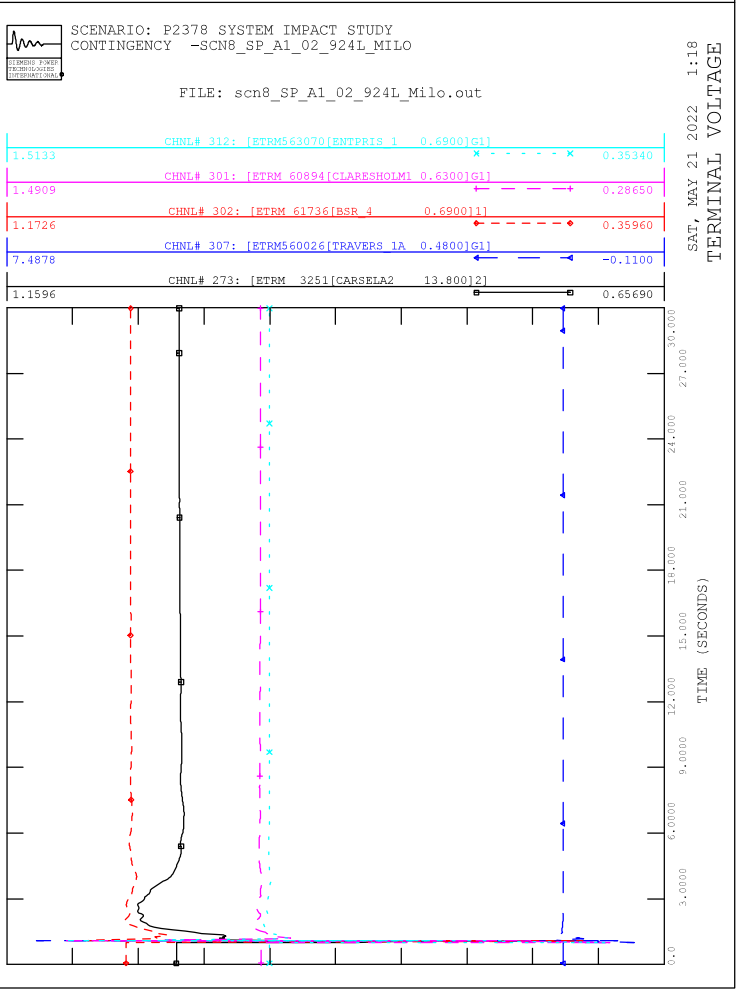
CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
1.0581 -0.5612
CHNL# 160: [VARS 3187[CECST 13.200]2]
1.8994 -0.8600
CHNL# 159: [VARS 775[SECCT2 21.000]3]
3.9409 -2.427
CHNL# 158: [VARS 774[SECCT1 21.000]2]
3.9409 -2.427
CHNL# 157: [VARS 773[SECST 20.000]1]
4.9253 -2.889
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
1.1399 -0.4289




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO
FILE: scn8_SP_A1_02_924L_Milo.out
CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1488
0.72810
CHNL# 264: [ETRM 3187[CECST 13.200]2]
1.1321
0.66970
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1272
0.58800
CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1272
0.58800
CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1262
0.59700
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.2478
0.26060
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO
FILE: scn8_SP_A1_02_924L_Milo.out
CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
1.6691
0.26660
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.6648
-0.0634
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

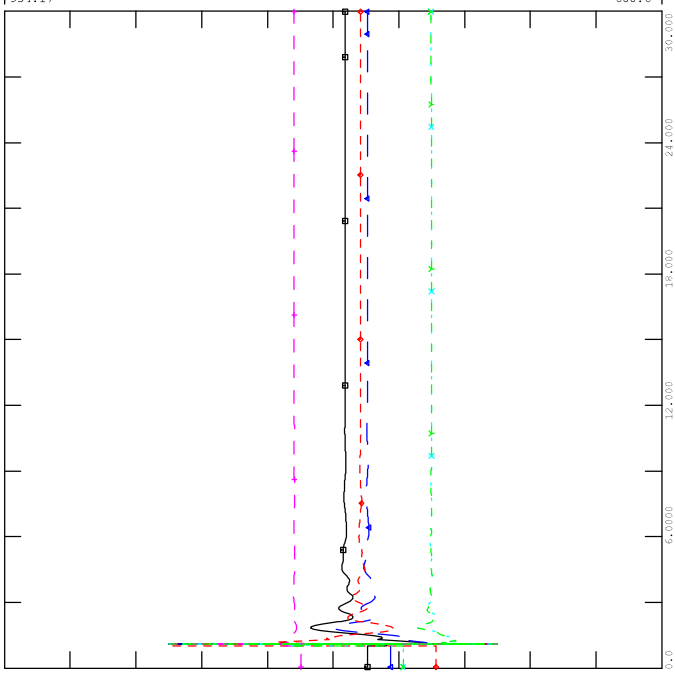

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO
FILE: scn8_SP_A1_02_924L_Milo.out
CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
8.5220
-20.43
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
7.6401
-2.541
SAT, MAY 21 2022 1:18
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO
FILE: scn8_SP_A1_02_924L_Milo.out
CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.5133
0.35340
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.4909
0.28650
CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1726
0.35960
CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
7.4878
-0.1100
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1596
0.65690
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

FILE: scn8_SP_A1_02_924L_Milo.out

CHNL# 357: [1107L P]
512.31 -965.5
CHNL# 335: [1106L P]
512.39 -965.6
CHNL# 347: [1005L P]
2814.7 -4093.
CHNL# 359: [1036L P]
147.18 -466.3
CHNL# 351: [935L P]
904.06 -646.5
CHNL# 339: [923L P]
934.17 -688.6



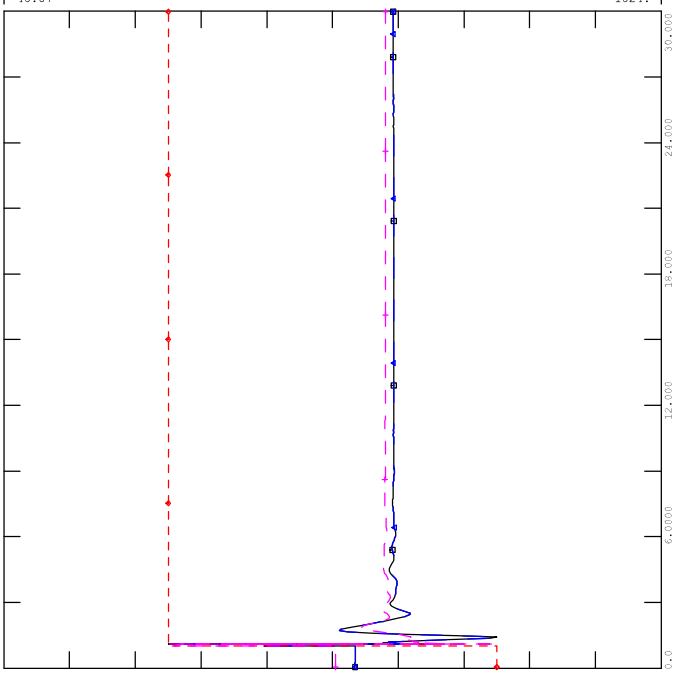
TIME (SECONDS)

SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

FILE: scn8_SP_A1_02_924L_Milo.out

CHNL# 353: [927L A1 1 P]
685.05 -1791.
CHNL# 371: [924L P]
220.98 -662.9
CHNL# 341: [1003L P]
-40.42 -1013.
CHNL# 365: [985L P]
-40.87 -1024.



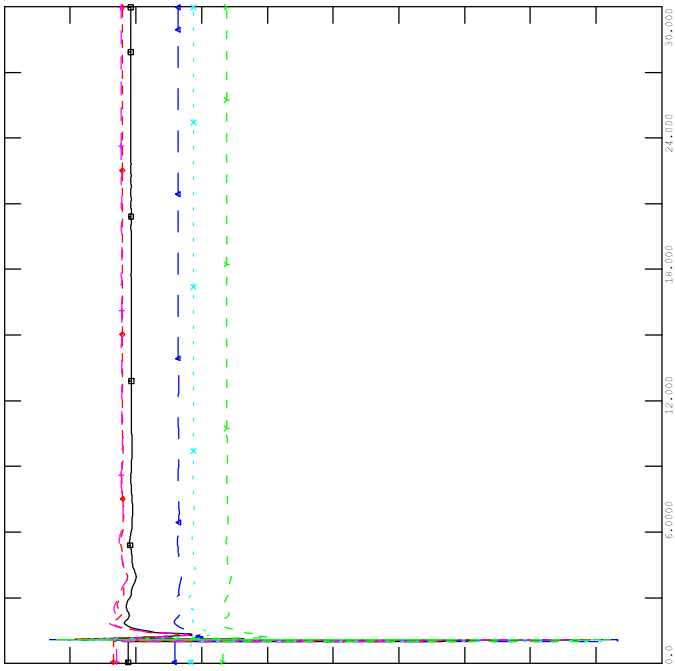
TIME (SECONDS)

SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

FILE: scn8_SP_A1_02_924L_Milo.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.4575 0.14370
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3566 0.26310
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1785 0.47360
CHNL# 334: [VOLT 902378 [927L_TAP 240.00]]
1.1989 0.27170
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.4279 -0.0729
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.2012 0.42010



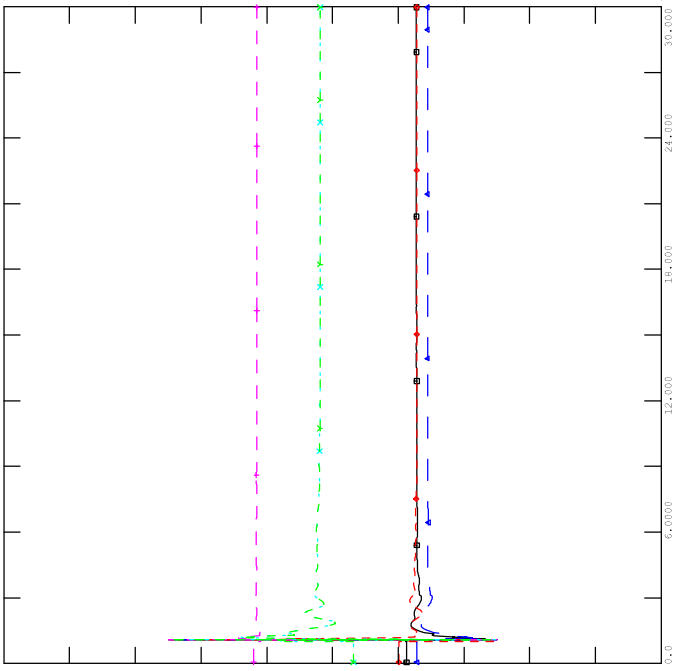
TIME (SECONDS)

SAT, MAY 21 2022 1:18
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

FILE: scn8_SP_A1_02_924L_Milo.out

CHNL# 358: [1107L Q]
523.64 -172.5
CHNL# 336: [1106L Q]
523.68 -172.3
CHNL# 348: [1005L Q]
2053.6 -3240.
CHNL# 360: [1036L Q]
501.12 -187.7
CHNL# 352: [935L Q]
846.91 -541.9
CHNL# 340: [923L Q]
837.34 -571.8



TIME (SECONDS)

SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
121.21 -60.00
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
104.05 -66.28
CHNL# 4: [ANGL 3187[CECST 13.200]2]
96.791 -78.75
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
122.02 -64.32
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
122.02 -64.32
CHNL# 1: [ANGL 773[SECST 20.000]1]
125.50 -57.04

SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.66020 -0.0542
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.63370 -0.0991
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.6514 0.09320
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
1.2028 -0.0796
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.77810 -0.0998

SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_02_924L_MILO

FILE: scn8_SP_A1_02_924L_Milo.out

CHNL# 354: [927L A1 1 Q]
1089.0 -696.7
CHNL# 372: [924L Q]
244.09 -81.36
CHNL# 342: [1003L Q]
523.33 -178.0
CHNL# 366: [985L Q]
529.90 -179.9

SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

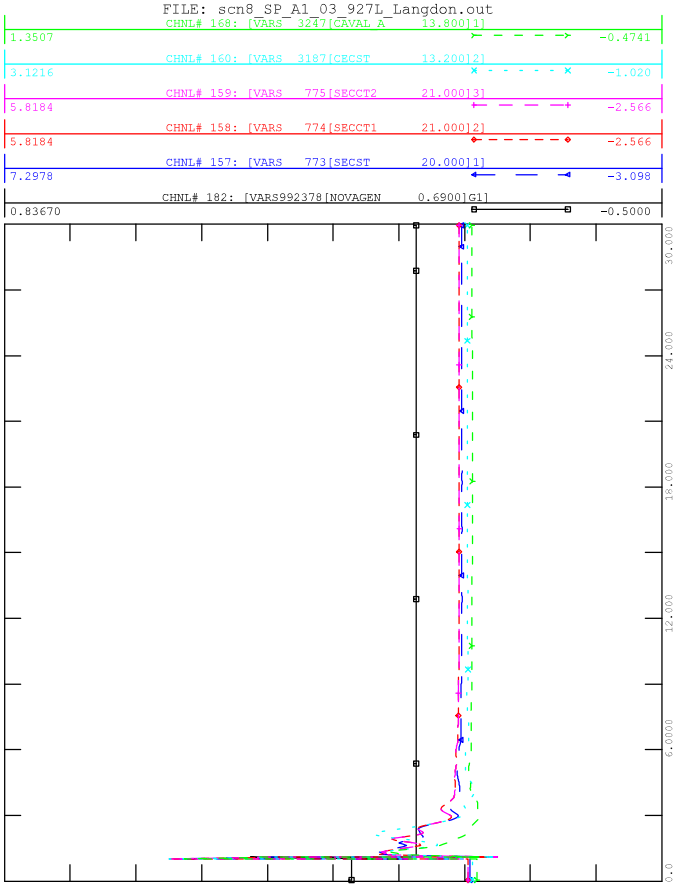
FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.71310 0.03510
CHNL# 108: [POWR 3187[CECST 13.200]2]
1.8628 -0.4209
CHNL# 107: [POWR 775[SECCT2 21.000]3]
3.9563 0.22820
CHNL# 106: [POWR 774[SECCT1 21.000]2]
3.9563 0.22820
CHNL# 105: [POWR 773[SECST 20.000]1]
5.0049 0.38880
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.7000 -0.2000

SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

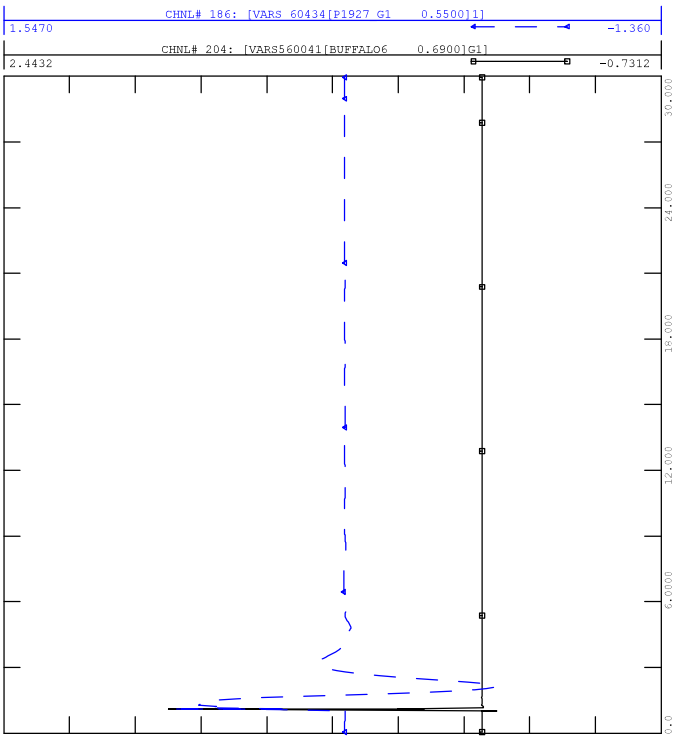
FILE: scn8_SP_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

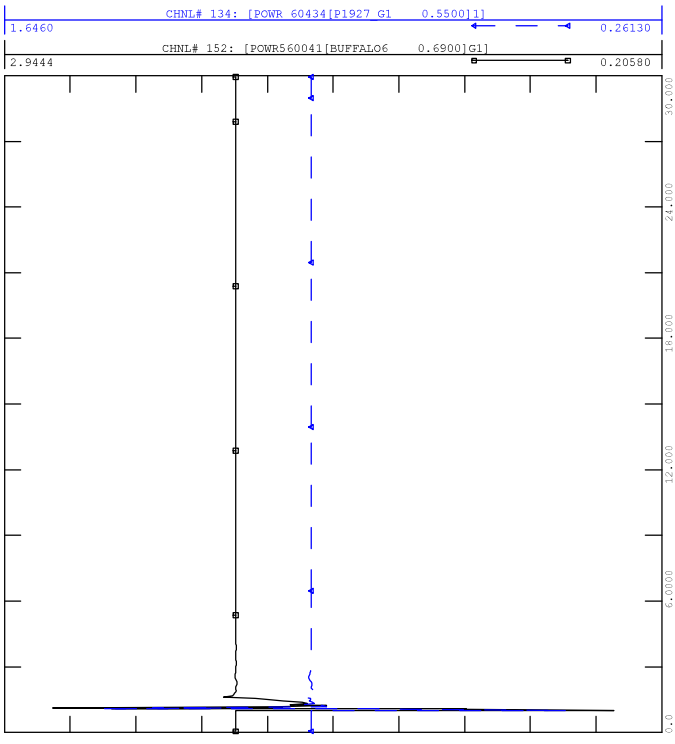
FILE: scn8_SP_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

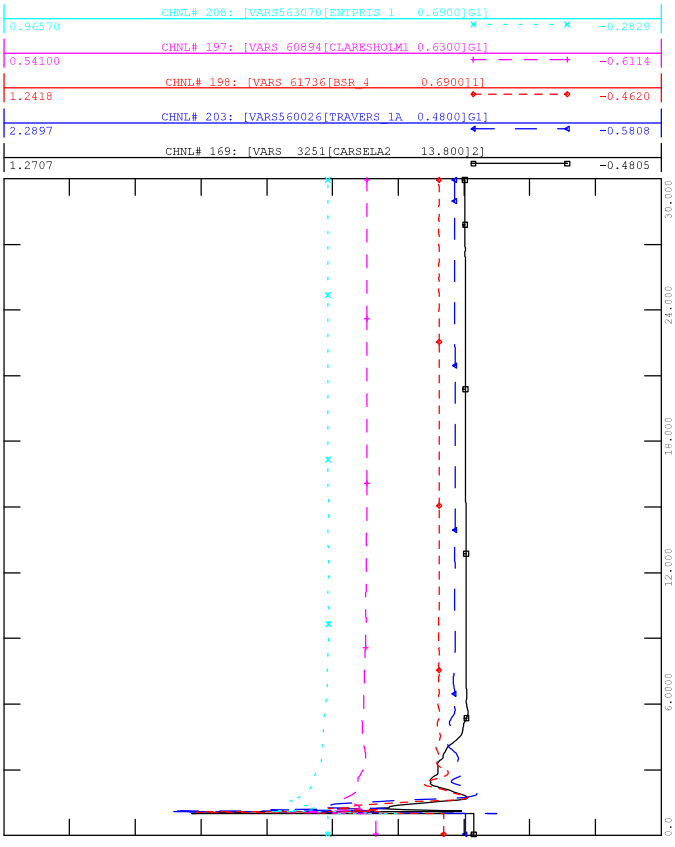
FILE: scn8_SP_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1]
1.2611 0.55170
CHNL# 301: [ETRM_60894[CLARESHOLM1 0.6300]G1]
1.2062 0.46650
CHNL# 302: [ETRM_61736[BSR_4 0.6900]1]
1.1320 0.61850
CHNL# 307: [ETRM560026[TRAVERS_1A 0.4800]G1]
1.2894 0.42500
CHNL# 273: [ETRM_3251[CARSELA2 13.800]2]
1.1746 0.57580

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1338 0.35780
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.2748 0.57290
CHNL# 327: [VOLT 160 [JANET_4 240.00]]
1.1865 0.09630
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1455 -0.1000
CHNL# 332: [VOLT 943 [MILO_1 240.00]]
1.1889 0.37420
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1728 -0.0923

SAT, MAY 21 2022 1:18
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 272: [ETRM_3247[CAVAL_A 13.800]1]
1.1772 0.58290
CHNL# 264: [ETRM_3187[CECST 13.200]2]
1.1863 0.47800
CHNL# 263: [ETRM_775[SECCT2 21.000]3]
1.1729 0.35350
CHNL# 262: [ETRM_774[SECCT1 21.000]2]
1.1729 0.35350
CHNL# 261: [ETRM_773[SECST 20.000]1]
1.1706 0.36990
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 -0.1000

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 290: [ETRM_60434[P1927_G1 0.5500]1]
1.2963 0.58350
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.2297 0.39400

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

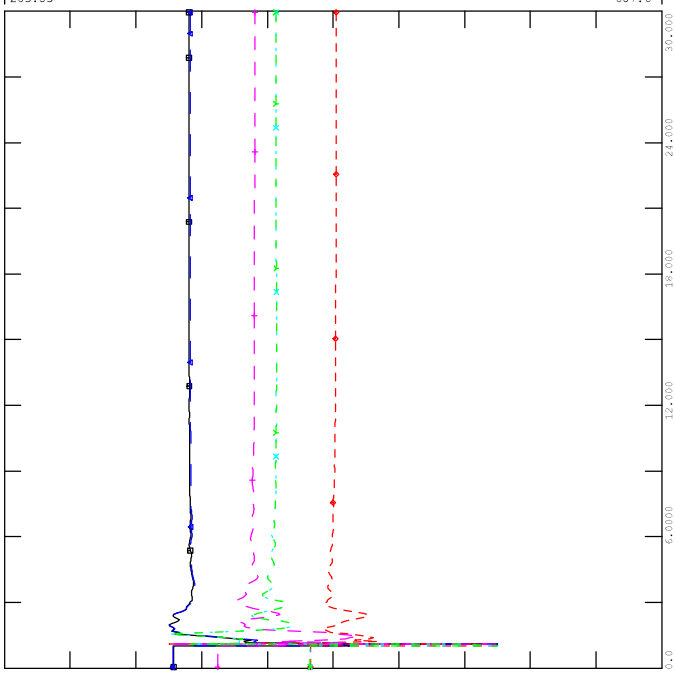
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 358: [1107L Q] 471.22 -212.4
CHNL# 336: [1106L Q] 471.50 -212.5
CHNL# 348: [1005L Q] 189.13 -260.4
CHNL# 360: [1036L Q] 307.23 -166.2
CHNL# 352: [935L Q] 182.15 -630.4
CHNL# 340: [923L Q] 203.53 -687.6

BRANCH Q 1:18
SAT, MAY 21 2022

TIME (SECONDS)



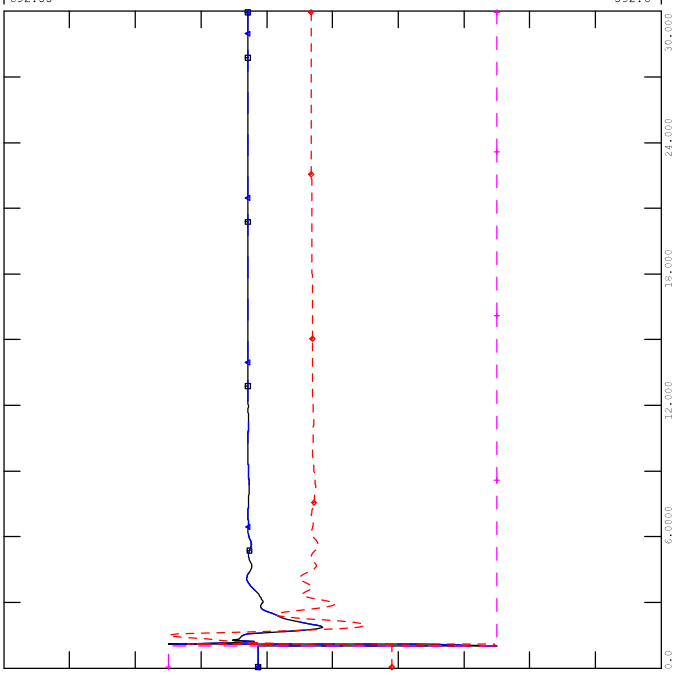
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 354: [927L A1 1 Q] 275.28 -91.76
CHNL# 372: [924L Q] 783.14 -268.0
CHNL# 342: [1003L Q] 684.01 -585.7
CHNL# 366: [985L Q] 692.55 -592.6

BRANCH Q 1:18
SAT, MAY 21 2022

TIME (SECONDS)



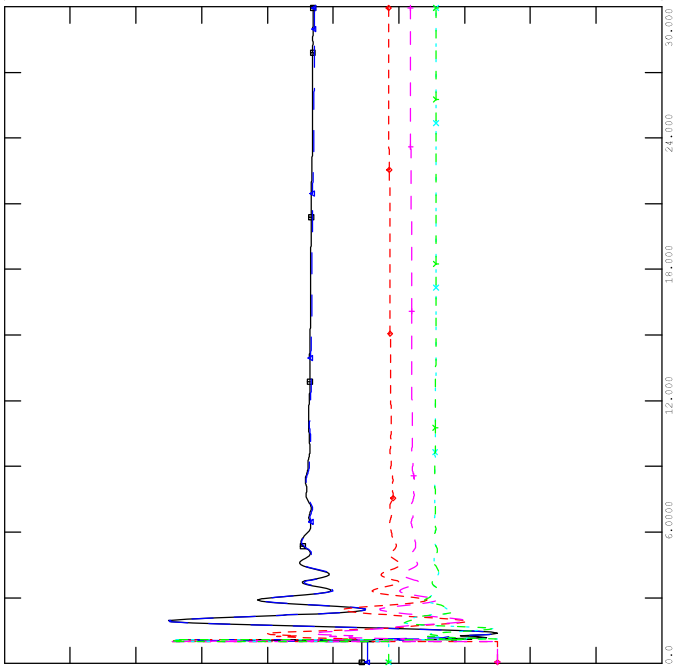
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 357: [1107L P] 136.35 -753.3
CHNL# 335: [1106L P] 136.33 -753.4
CHNL# 347: [1005L P] 91.740 -432.7
CHNL# 359: [1036L P] 54.519 -359.2
CHNL# 351: [935L P] 312.33 -265.5
CHNL# 339: [923L P] 380.91 -249.9

BRANCH P 1:18
SAT, MAY 21 2022

TIME (SECONDS)



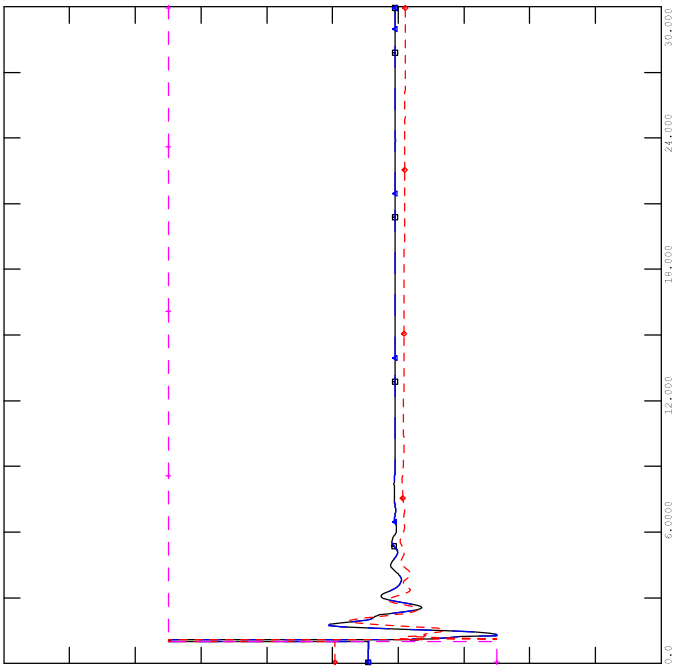
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_03_927L_LANGDON

FILE: scn8_SP_A1_03_927L_Langdon.out

CHNL# 353: [927L A1 1 P] 282.30 -846.9
CHNL# 371: [924L P] 425.03 -1296.
CHNL# 341: [1003L P] 233.28 -1197.
CHNL# 365: [985L P] 235.72 -1210.

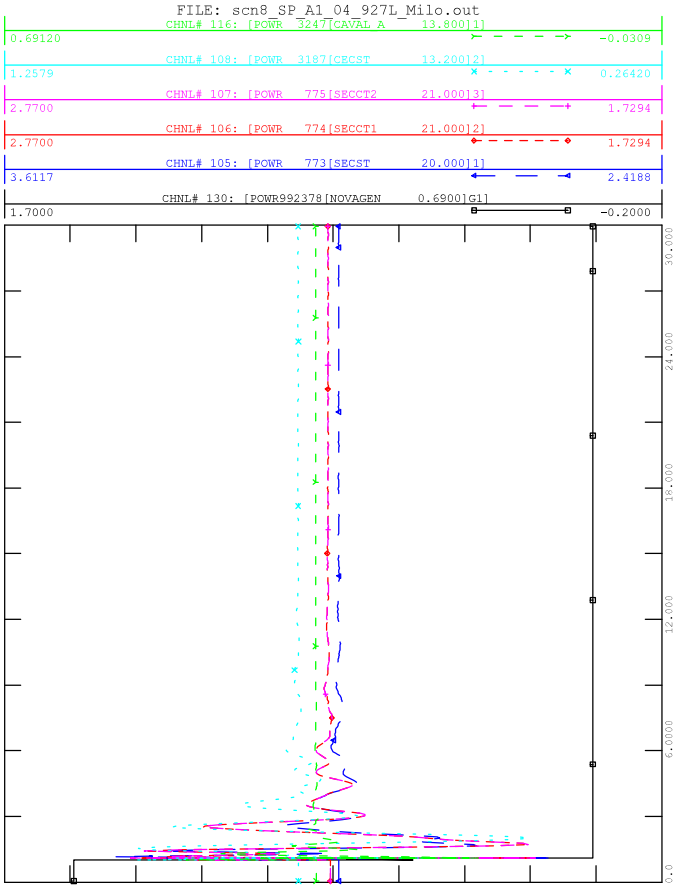
BRANCH P 1:18
SAT, MAY 21 2022

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

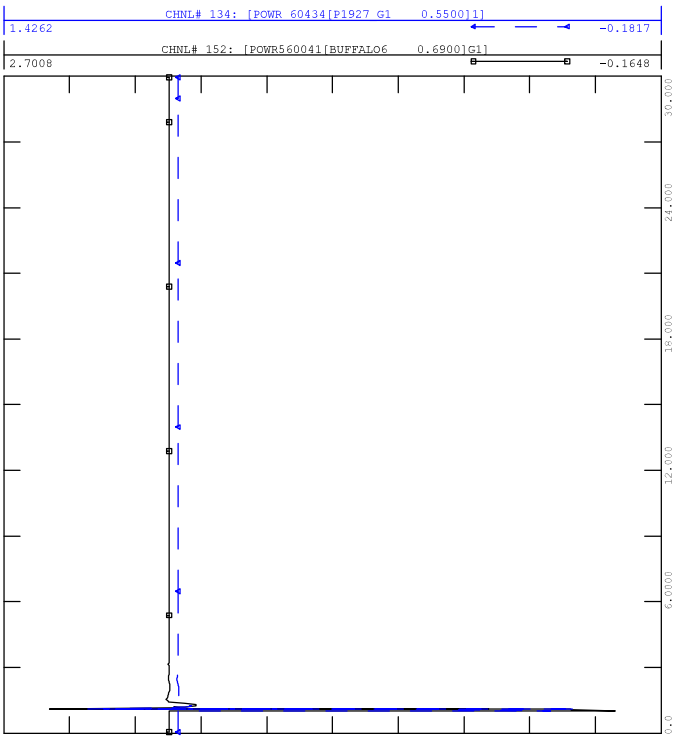
FILE: scn8_SP_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

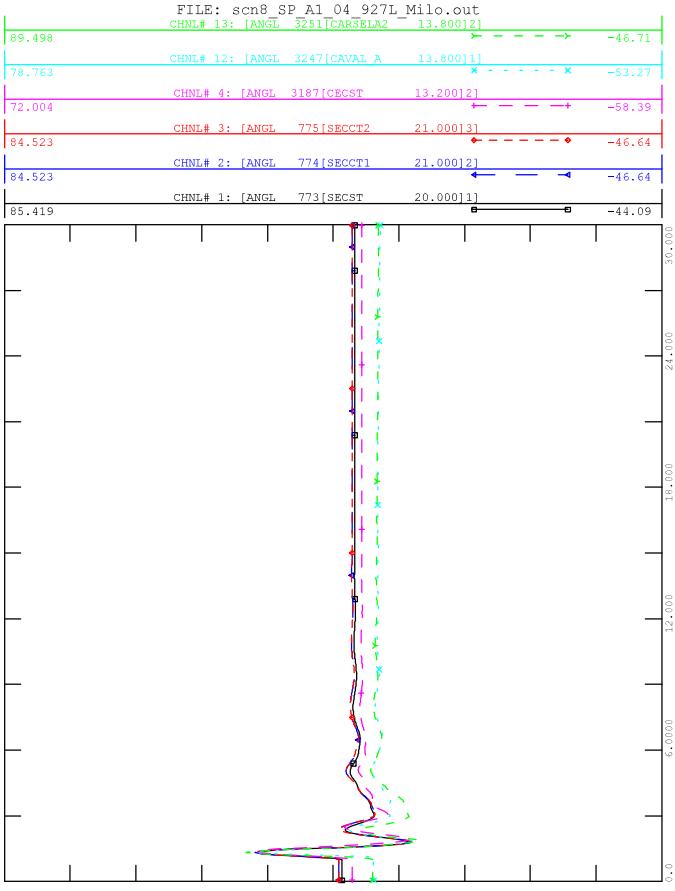
FILE: scn8_SP_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

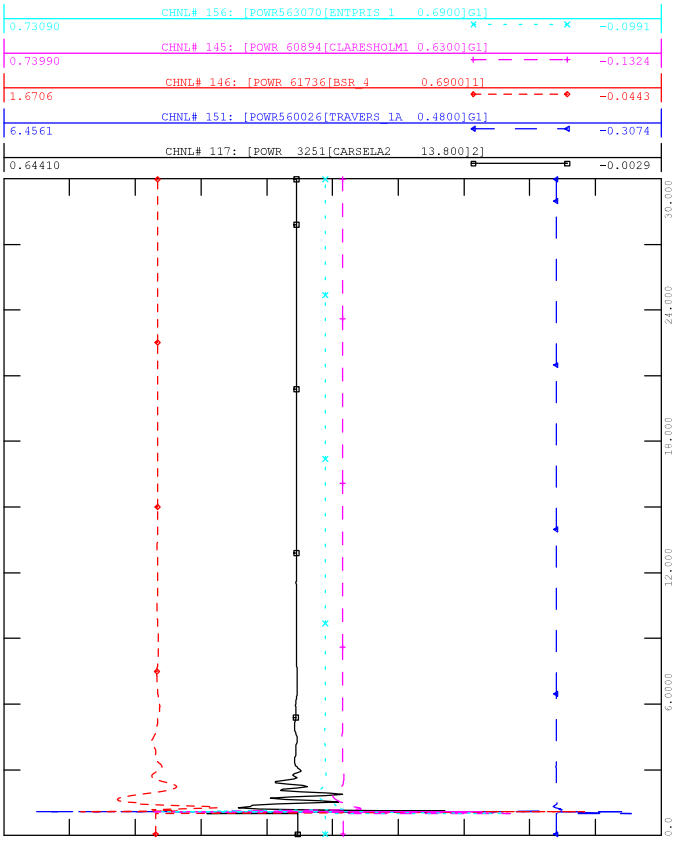
FILE: scn8_SP_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

FILE: scn8_SP_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

FILE: scn8_SP_A1_04_927L_Milo.out

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1]
1.0501 -0.3193
CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.57000 -0.6114
CHNL# 198: [VARS 61736[BSR_4 0.6900]1]
1.2569 -0.5277
CHNL# 203: [VARS560026[TRAVERS 1A 0.4800]G1]
9.4283 -16.82
CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
0.97430 -0.4817

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

FILE: scn8_SP_A1_04_927L_Milo.out

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1547 0.78090
CHNL# 264: [ETRM 3187[CECST 13.200]2]
1.1279 0.72720
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1256 0.66530
CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1256 0.66530
CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1263 0.67150
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 -0.1000

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

FILE: scn8_SP_A1_04_927L_Milo.out

CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
0.92360 -0.4710
CHNL# 160: [VARS 3187[CECST 13.200]2]
1.5894 -0.4475
CHNL# 159: [VARS 775[SECCT2 21.000]3]
3.0533 -1.301
CHNL# 158: [VARS 774[SECCT1 21.000]2]
3.0533 -1.301
CHNL# 157: [VARS 773[SECST 20.000]1]
3.7910 -1.504
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
0.85160 -0.5000

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

FILE: scn8_SP_A1_04_927L_Milo.out

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
1.9119 -2.268
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
5.4230 -1.776

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

FILE: scn8_SP_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
1.3001 0.31670

CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.5111 0.08810

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

FILE: scn8_SP_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:18 BRANCH P

CHNL# 357: [1107L P]
69.391 -744.1

CHNL# 335: [1106L P]
69.507 -744.2

CHNL# 347: [1005L P]
691.98 -632.8

CHNL# 359: [1036L P]
92.919 -372.0

CHNL# 351: [935L P]
314.75 -364.9

CHNL# 339: [923L P]
397.04 -411.3

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

FILE: scn8_SP_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3969 0.43370

CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.3578 0.36360

CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1399 0.39110

CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
6.8258 0.01840

CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1564 0.73000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO

FILE: scn8_SP_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:18 BUS VOLTAGE

CHNL# 329: [VOLT 457 [MATLB1 240.00]]
1.2798 0.06210

CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3293 0.37450

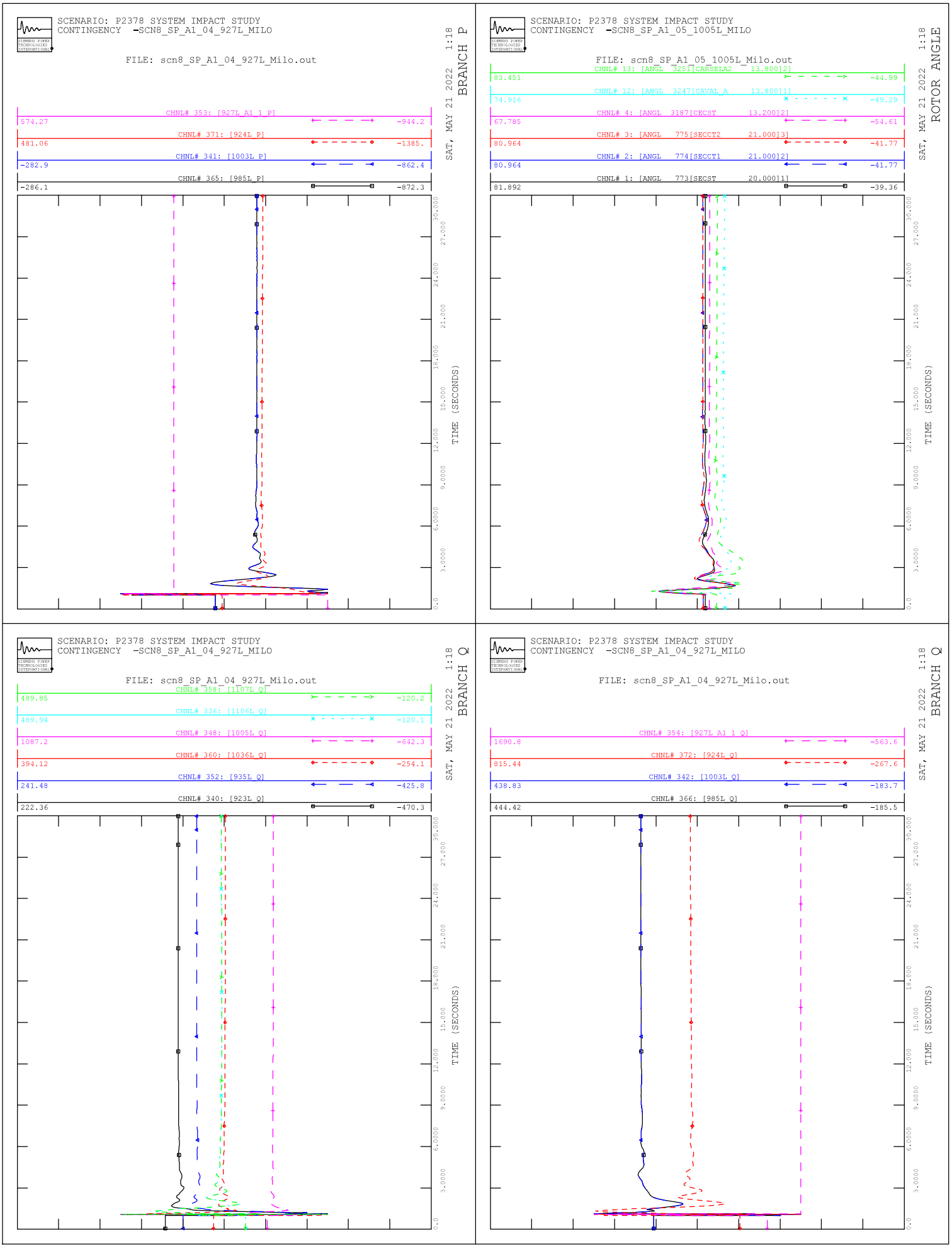
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1680 0.60560

CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1455 -0.1000

CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.3212 0.07800

CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1606 0.56210

TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO
FILE: scn8_SP_A1_04_927L_Milo.out
CHNL# 353: [927L_A1_1_P]
574.27
-944.2
CHNL# 371: [924L_P]
481.06
-1385.
CHNL# 341: [1003L_P]
-282.9
-862.4
CHNL# 365: [985L_P]
-286.1
-872.3
BRANCH P
SAT, MAY 21 2022 1:18
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO
FILE: scn8_SP_A1_05_1005L_Milo.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
83.451
-44.99
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
74.916
-49.29
CHNL# 4: [ANGL 3187[CECST 13.200]2]
67.785
-54.61
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
80.964
-41.77
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
80.964
-41.77
CHNL# 1: [ANGL 773[SECST 20.000]1]
81.892
-39.36
ROTOR ANGLE
SAT, MAY 21 2022 1:18
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO
FILE: scn8_SP_A1_04_927L_Milo.out
CHNL# 358: [1107L_Q]
489.85
-120.2
CHNL# 336: [1106L_Q]
489.94
-120.1
CHNL# 348: [1005L_Q]
1087.2
-642.3
CHNL# 360: [1036L_Q]
394.12
-254.1
CHNL# 352: [935L_Q]
241.48
-425.8
CHNL# 340: [923L_Q]
222.36
-470.3
BRANCH Q
SAT, MAY 21 2022 1:18
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_04_927L_MILO
FILE: scn8_SP_A1_04_927L_Milo.out
CHNL# 354: [927L_A1_1_Q]
1690.8
-563.6
CHNL# 372: [924L_Q]
815.44
-267.6
CHNL# 342: [1003L_Q]
438.83
-183.7
CHNL# 366: [985L_Q]
444.42
-185.5
BRANCH Q
SAT, MAY 21 2022 1:18
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.81690 -0.1317
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.79610 -0.1565
CHNL# 146: [POWR 61736[BSR_4 0.6900]1]
1.7295 0.02080
CHNL# 151: [POWR560026[TRAVERS_1A 0.4800]G1]
1.0471 -0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.66990 0.01890

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
0.95410 -0.4991
CHNL# 160: [VARS 3187[CECST 13.200]2]
1.7426 -0.6618
CHNL# 159: [VARS 775[SECCT2 21.000]3]
3.3707 -1.746
CHNL# 158: [VARS 774[SECCT1 21.000]2]
3.3707 -1.746
CHNL# 157: [VARS 773[SECST 20.000]1]
4.1871 -2.059
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
1.1634 -0.4305

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.71530 -0.0844
CHNL# 108: [POWR 3187[CECST 13.200]2]
1.2774 0.35320
CHNL# 107: [POWR 775[SECCT2 21.000]3]
2.7544 1.7189
CHNL# 106: [POWR 774[SECCT1 21.000]2]
2.7544 1.7189
CHNL# 105: [POWR 773[SECST 20.000]1]
3.5144 2.5469
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
2.0096 0.29190

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
1.2031 -0.2000
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
2.1964 -0.2000

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

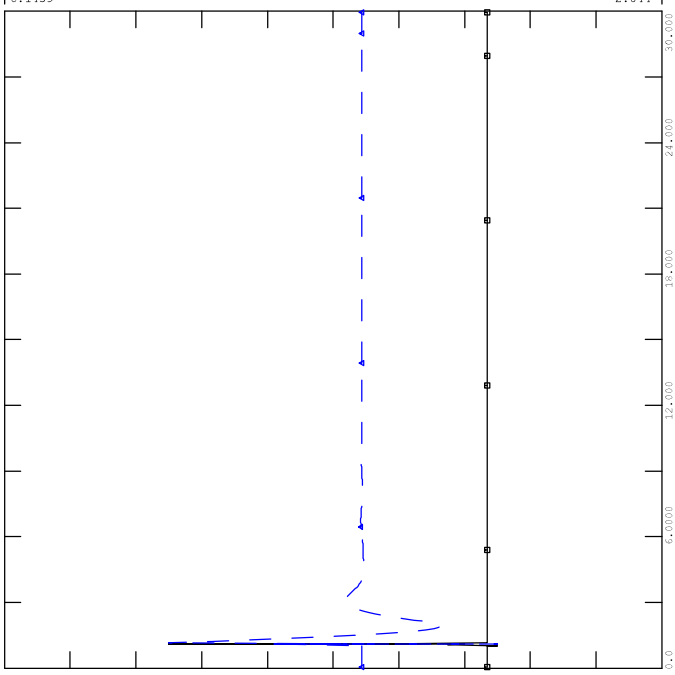
FILE: scn8_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:18

REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
2.5305 -2.053

CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
6.1439 -2.044



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:18

TERMINAL VOLTAGE

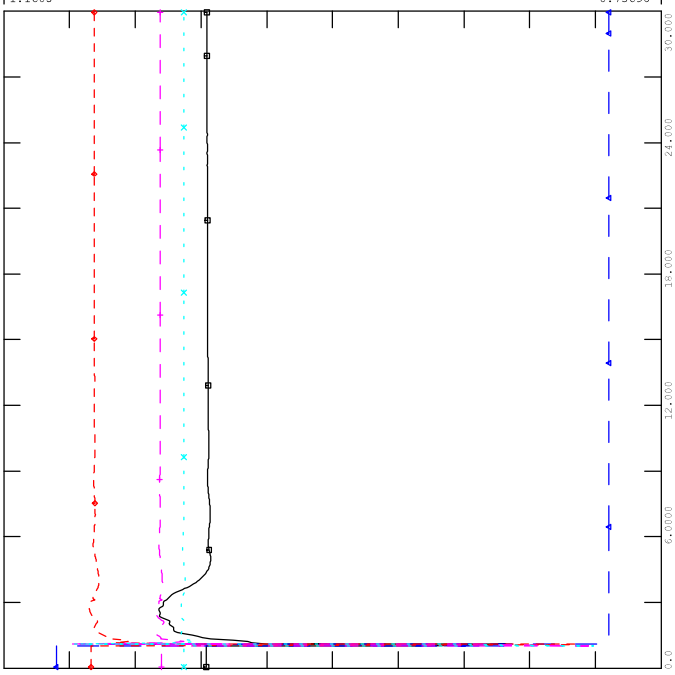
CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1]
1.3166 0.34310

CHNL# 301: [ETRM_60894[CLARESHOLM1 0.6300]G1]
1.2629 0.27180

CHNL# 302: [ETRM_61736[BSR_4 0.6900]1]
1.1272 0.35870

CHNL# 307: [ETRM560026[TRAVERS_1A 0.4800]G1]
1.1550 -0.1000

CHNL# 273: [ETRM_3251[CARSELA2 13.800]2]
1.1605 0.73690



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:18

REACTIVE POWER

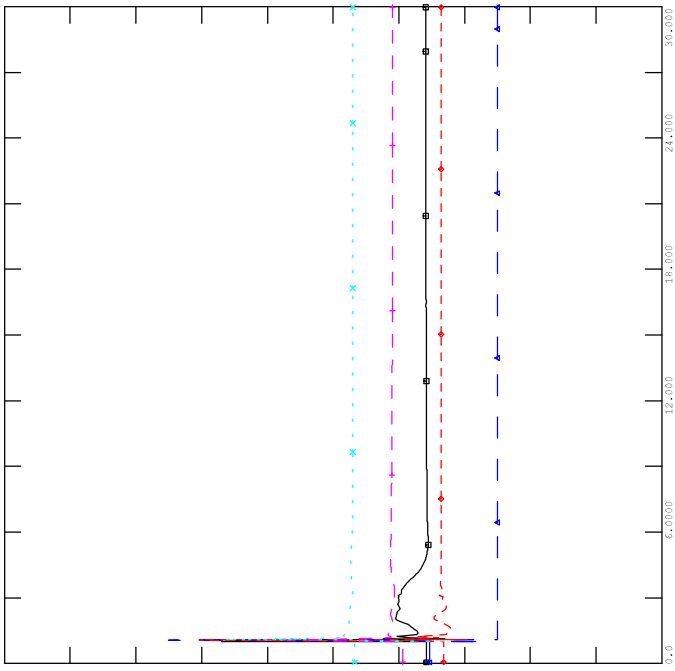
CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1]
1.1504 -0.3514

CHNL# 197: [VARS_60894[CLARESHOLM1 0.6300]G1]
0.65850 -0.6114

CHNL# 198: [VARS_61736[BSR_4 0.6900]1]
1.2279 -0.4576

CHNL# 203: [VARS560026[TRAVERS_1A 0.4800]G1]
1.9992 -0.6664

CHNL# 169: [VARS_3251[CARSELA2 13.800]2]
0.99070 -0.5230



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:18

TERMINAL VOLTAGE

CHNL# 272: [ETRM_3247[CAVAL A 13.800]1]
1.1478 0.78580

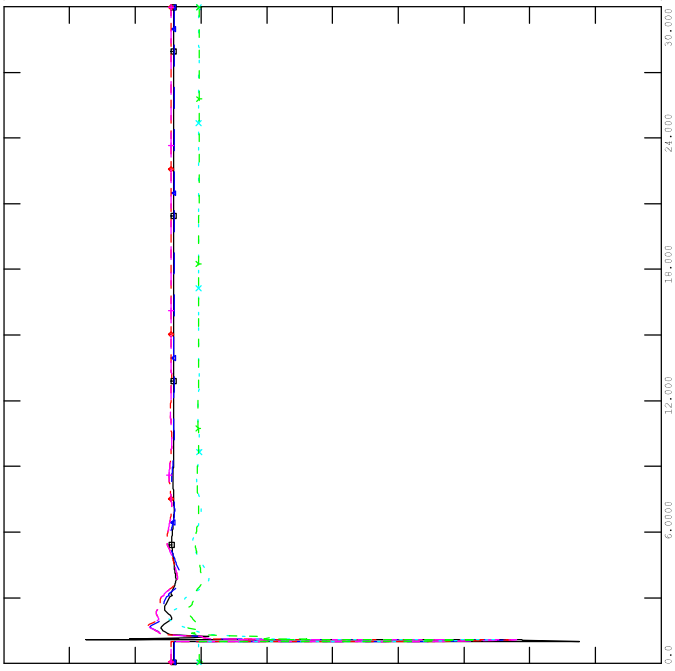
CHNL# 264: [ETRM_3187[CECST 13.200]2]
1.1192 0.71750

CHNL# 263: [ETRM_775[SECCT2 21.000]3]
1.1159 0.66090

CHNL# 262: [ETRM_774[SECCT1 21.000]2]
1.1159 0.66090

CHNL# 261: [ETRM_773[SECST 20.000]1]
1.1164 0.66690

CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.2565 0.45670



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1301 0.11410
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3660 0.26320
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1656 0.60060
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1714 0.44070
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.2793 -0.0900
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1613 0.55060

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:18
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

CHNL# 358: [1107L Q]
404.91 66.890
CHNL# 336: [1106L Q]
405.06 67.004
CHNL# 348: [1005L Q]
83.488 -40.00
CHNL# 360: [1036L Q]
1190.7 -407.6
CHNL# 352: [935L Q]
82.556 -276.7
CHNL# 340: [923L Q]
101.99 -342.7

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
1.3603 0.26680
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.3985 -0.0748

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

FILE: scn8_SP_A1_05_1005L_Milo.out

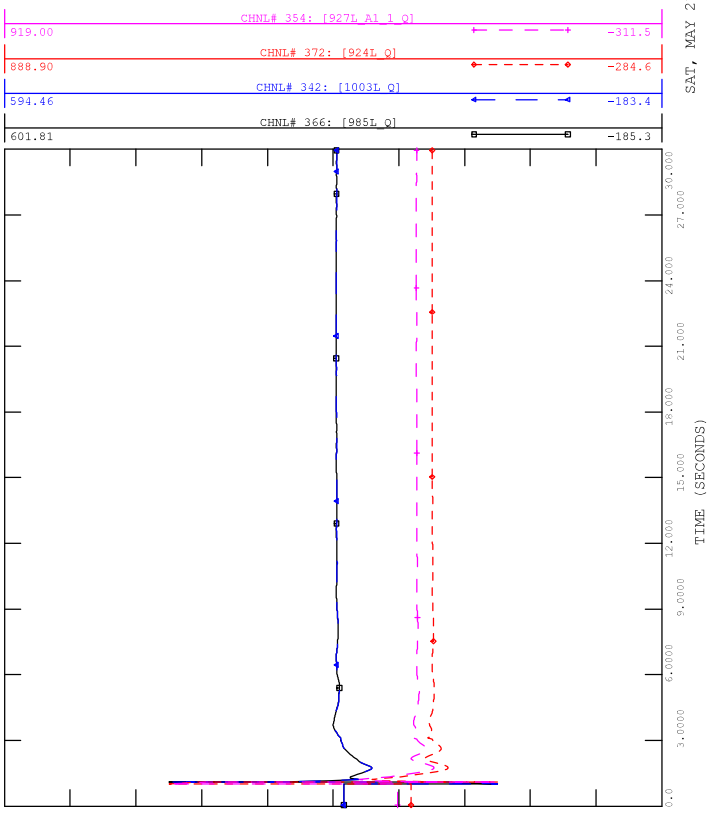
CHNL# 357: [1107L P]
28.227 -637.8
CHNL# 335: [1106L P]
28.304 -637.9
CHNL# 347: [1005L P]
150.80 -452.4
CHNL# 359: [1036L P]
171.36 -528.2
CHNL# 351: [935L P]
281.42 -691.2
CHNL# 339: [923L P]
374.11 -774.8

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

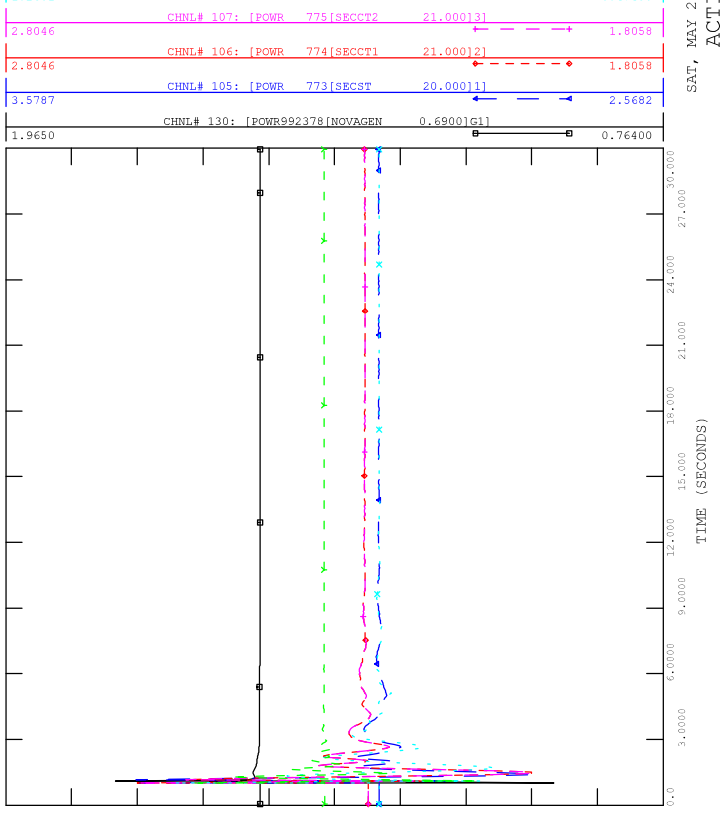
FILE: scn8_SP_A1_05_1005L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

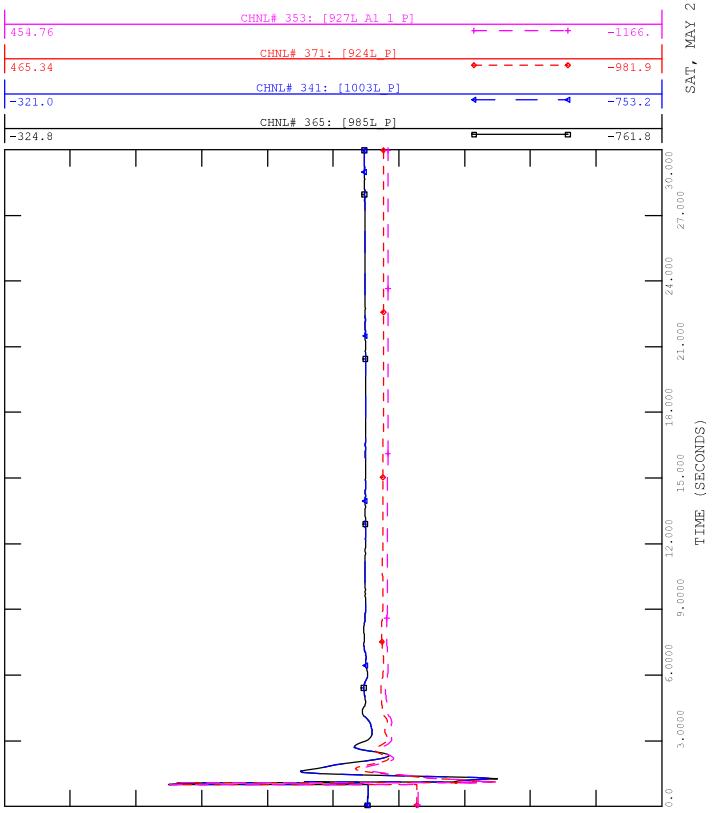
FILE: scn8_SP_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_05_1005L_MILO

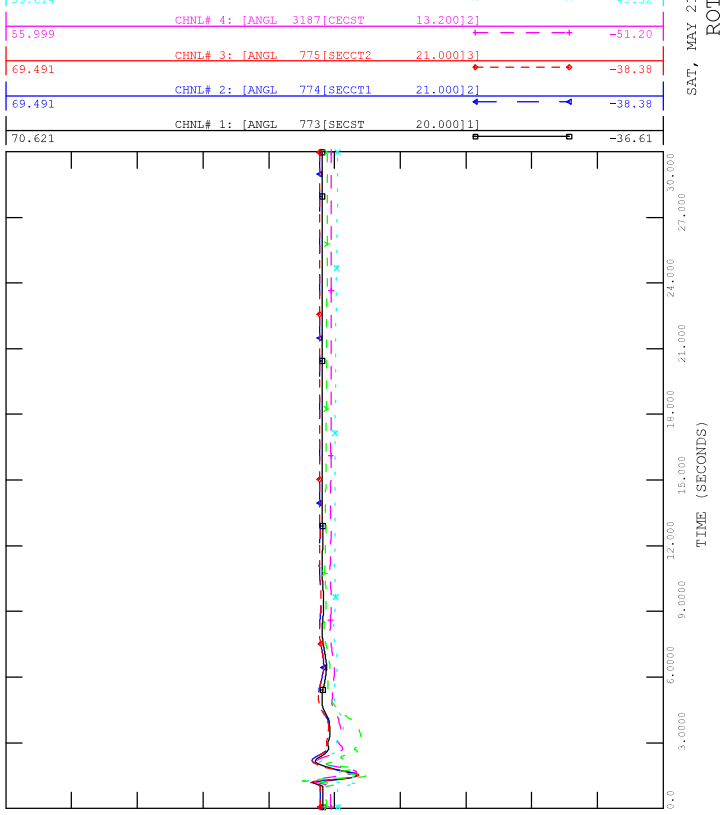
FILE: scn8_SP_A1_05_1005L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 134: [POWR 60434[P1927 G1 0.5500]1] 1.5015 0.19790
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1] 2.9711 0.33310

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1] 1.0120 -0.3242
CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.61570 -0.6114
CHNL# 198: [VARS 61736[BSR_4 0.6900]1] 1.1493 -0.4141
CHNL# 203: [VARS560026[TRAVERS 1A 0.4800]G1] 2.1668 -0.7223
CHNL# 169: [VARS 3251[CARSELA2 13.800]2] 0.92010 -0.5275

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1] 0.69380 -0.1044
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.73300 -0.1498
CHNL# 146: [POWR 61736[BSR_4 0.6900]1] 1.5501 0.48430
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1] 0.97390 -0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2] 0.66550 0.02990

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

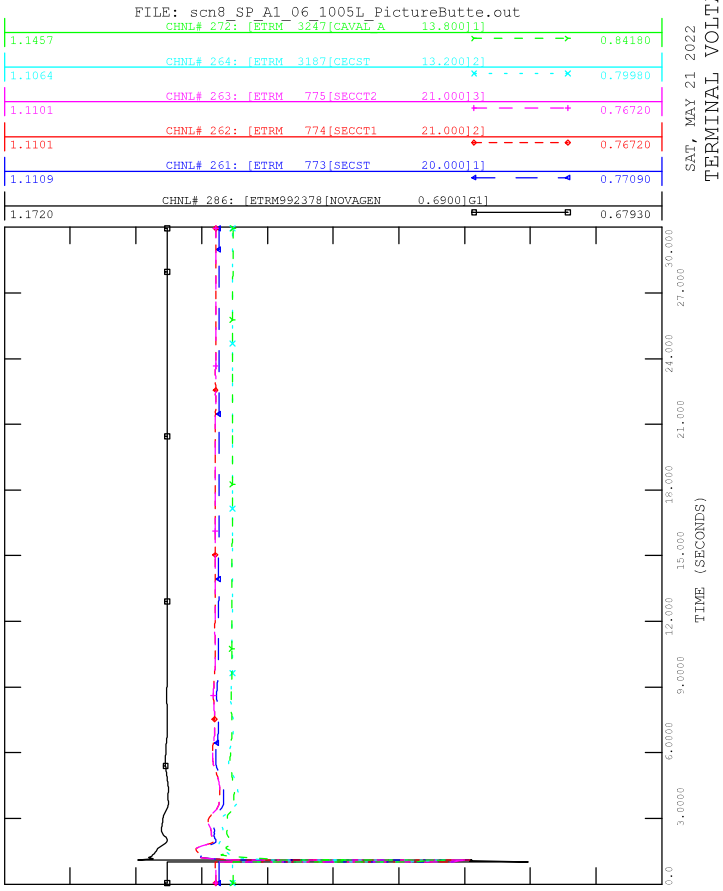
CHNL# 168: [VARS 3247[CAVAL A 13.800]1] 0.84350 -0.4984
CHNL# 160: [VARS 3187[CECST 13.200]2] 1.3327 -0.4722
CHNL# 159: [VARS 775[SECCT2 21.000]3] 2.3226 -1.176
CHNL# 158: [VARS 774[SECCT1 21.000]2] 2.3226 -1.176
CHNL# 157: [VARS 773[SECST 20.000]1] 2.8929 -1.362
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1] 0.73910 -0.4027

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A1_06_1005L_PictureButte.out

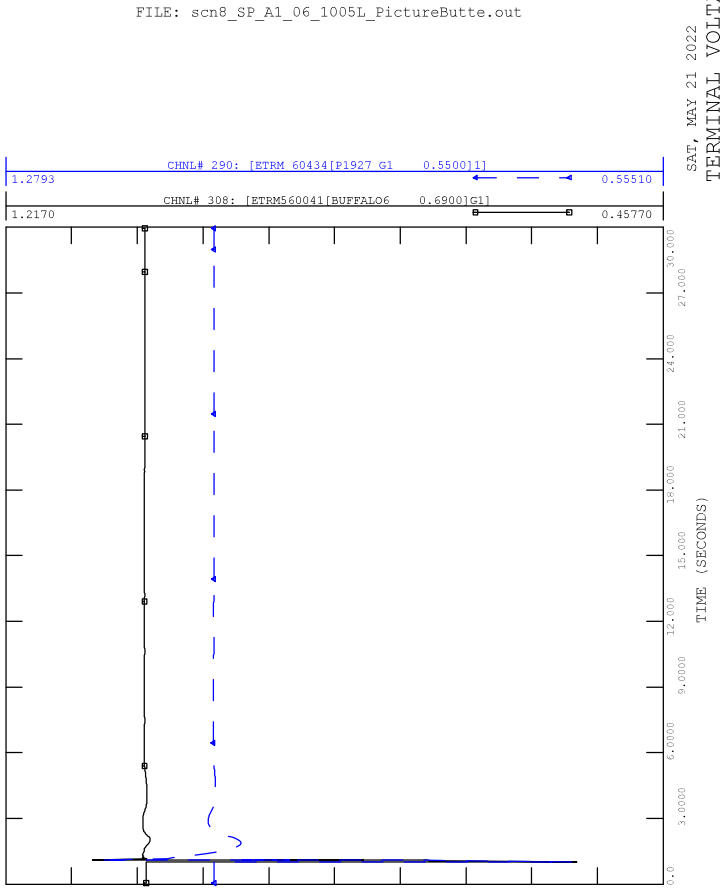
SAT, MAY 21 2022 1:18



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A1_06_1005L_PictureButte.out

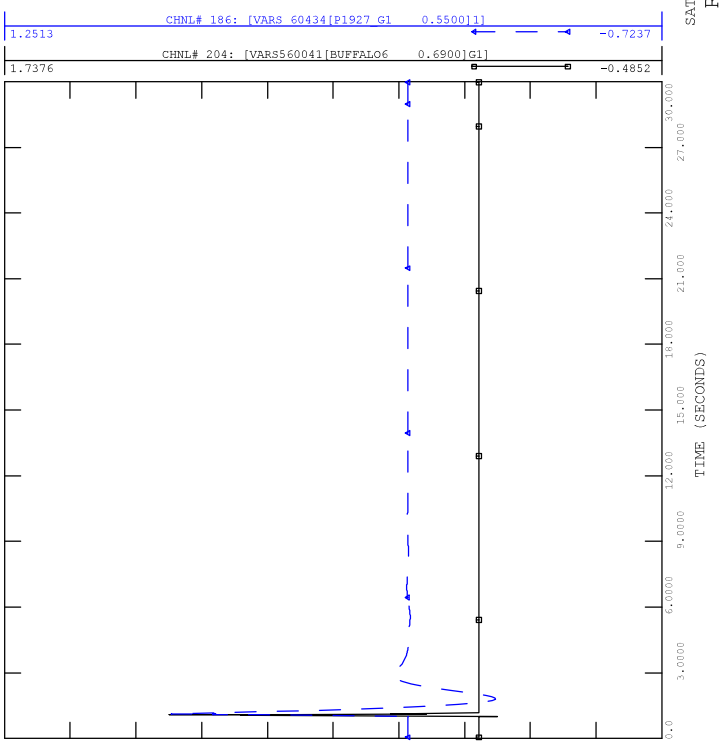
SAT, MAY 21 2022 1:18



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A1_06_1005L_PictureButte.out

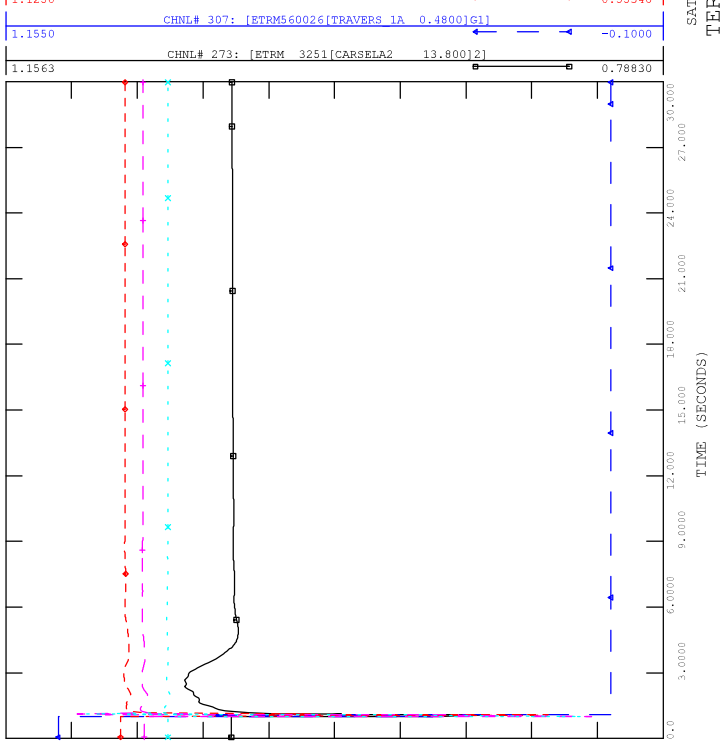
SAT, MAY 21 2022 1:18



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

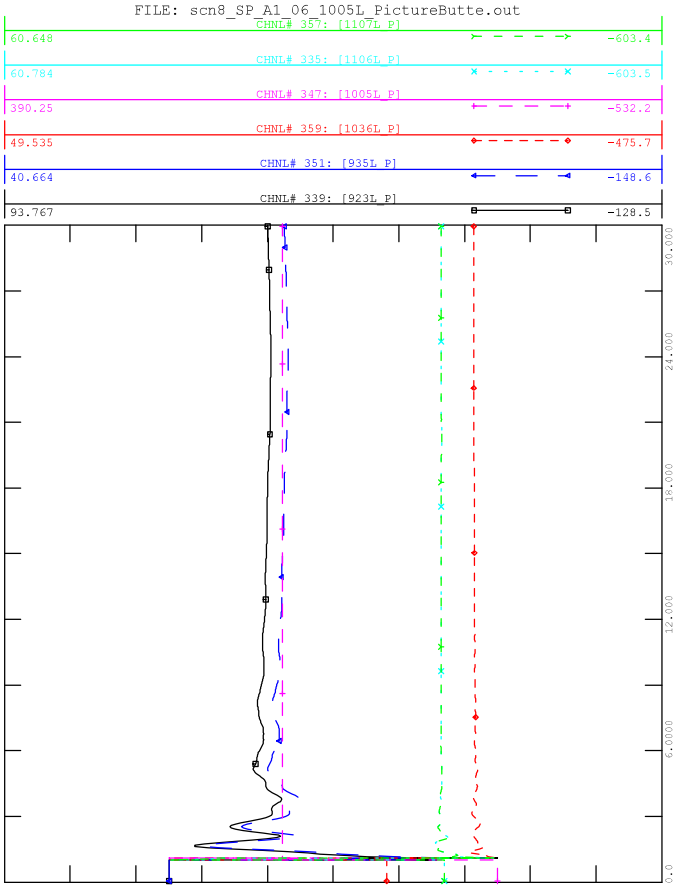
FILE: scn8_SP_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:18



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

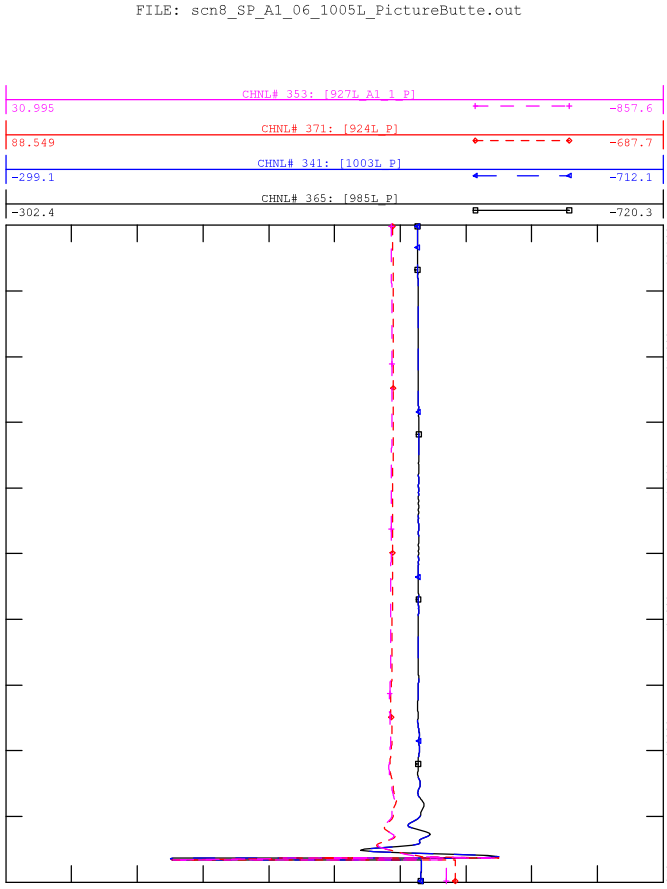
FILE: scn8_SP_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

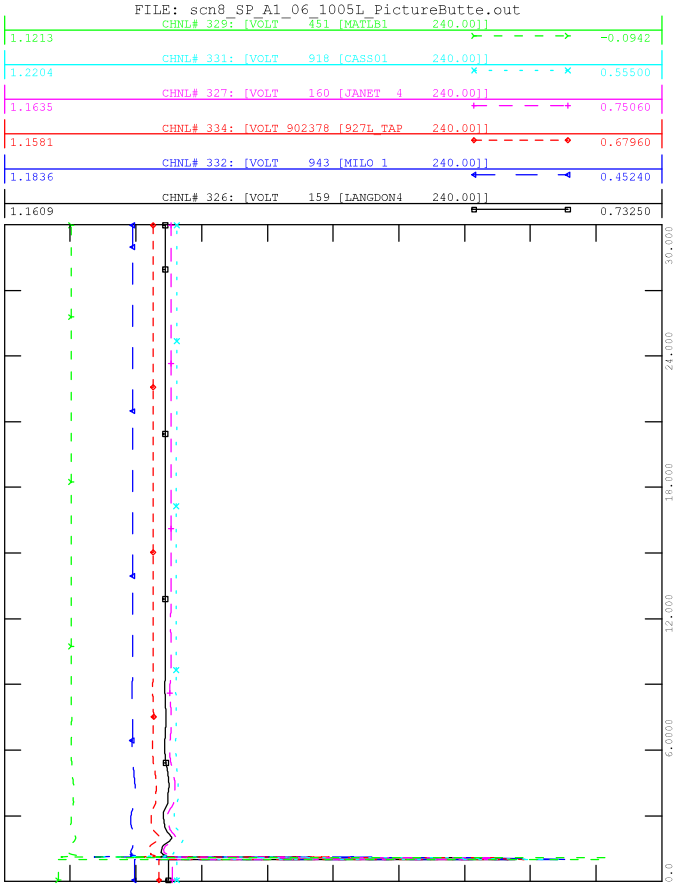
FILE: scn8_SP_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

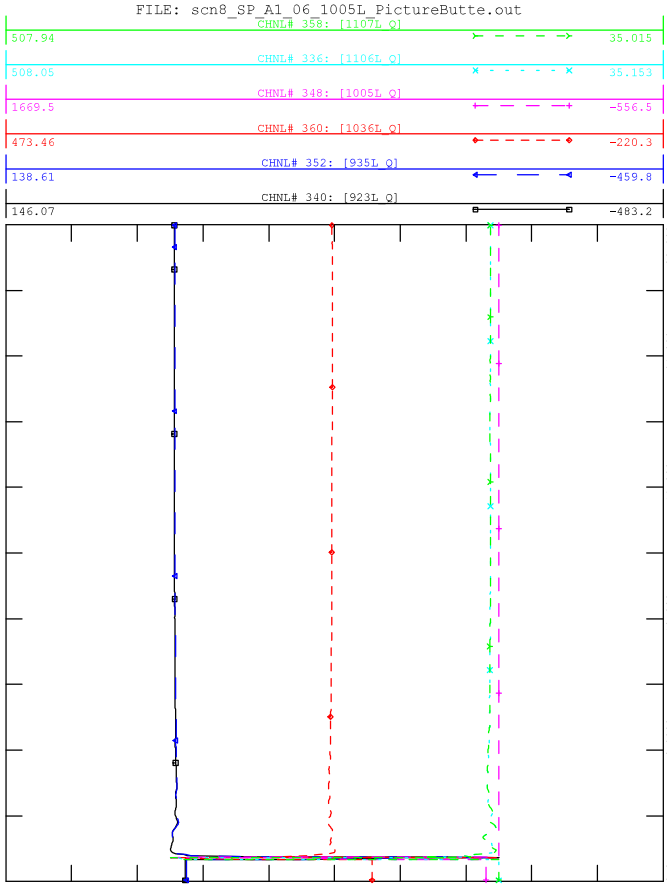
FILE: scn8_SP_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO

FILE: scn8_SP_A1_07_1036L_Milo.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
87.456 -44.30
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
77.775 -48.00
CHNL# 4: [ANGL 3187[CECST 13.200]2]
68.757 -53.25
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
82.496 -40.73
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
82.496 -40.73
CHNL# 1: [ANGL 773[SECST 20.000]1]
83.600 -38.46

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO

FILE: scn8_SP_A1_07_1036L_Milo.out

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.82660 -0.1318
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.81270 -0.1566
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.5009 0.01200
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
1.2203 -0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.69290 0.00540

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A1_06_1005L_PictureButte.out

CHNL# 354: [927L A1 1 Q]
502.28 17.298
CHNL# 372: [924L Q]
470.68 1.2227
CHNL# 342: [1003L Q]
287.15 136.12
CHNL# 366: [985L Q]
290.43 138.54

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO

FILE: scn8_SP_A1_07_1036L_Milo.out

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.72360 -0.0859
CHNL# 108: [POWR 3187[CECST 13.200]2]
1.2780 0.35110
CHNL# 107: [POWR 775[SECCT2 21.000]3]
2.7945 1.7074
CHNL# 106: [POWR 774[SECCT1 21.000]2]
2.7945 1.7074
CHNL# 105: [POWR 773[SECST 20.000]1]
3.5378 2.5305
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
2.0208 0.29190

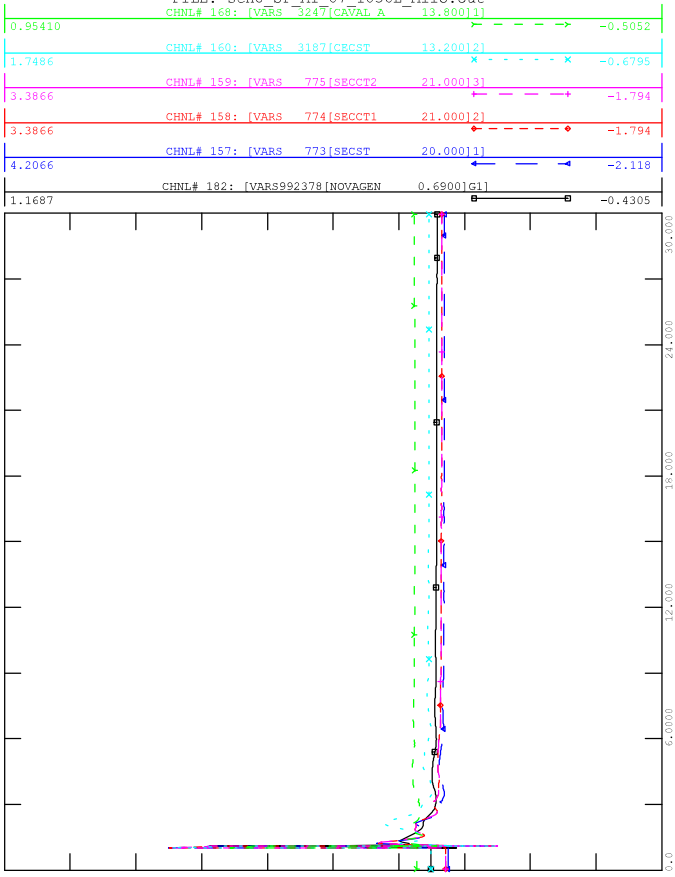
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO

FILE: scn8_SP_A1_07_1036L_Milo.out

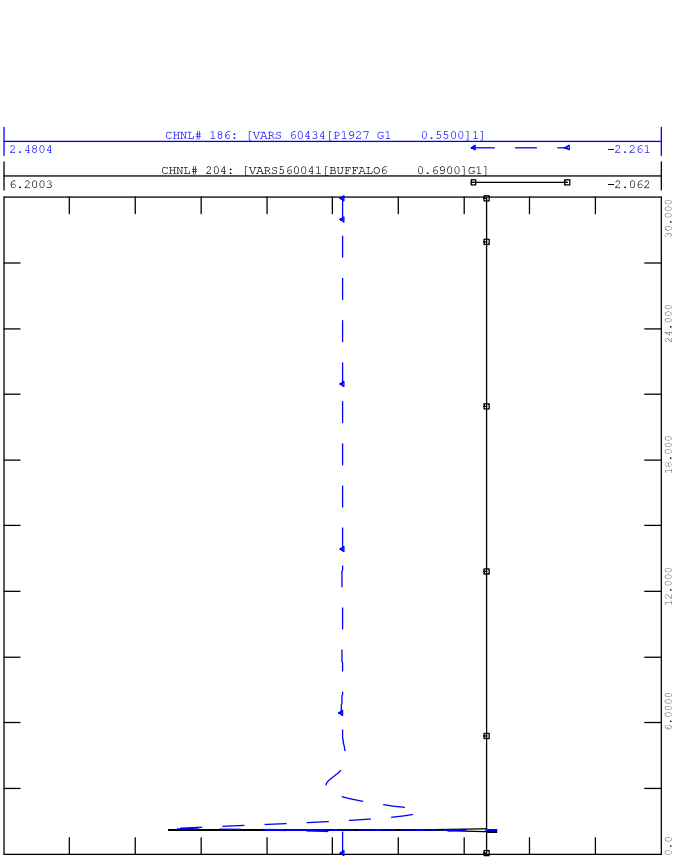
SAT, MAY 21 2022 1:18 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO

FILE: scn8_SP_A1_07_1036L_Milo.out

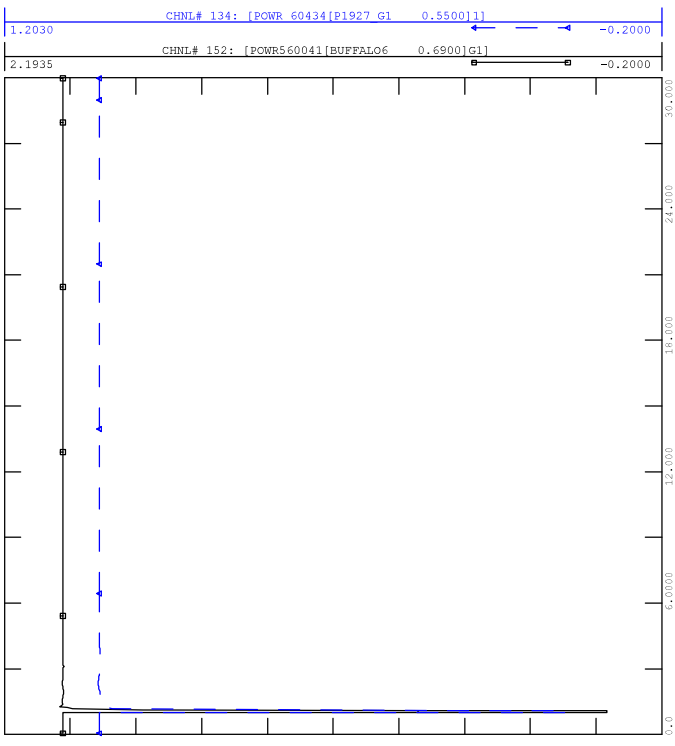
SAT, MAY 21 2022 1:18 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO

FILE: scn8_SP_A1_07_1036L_Milo.out

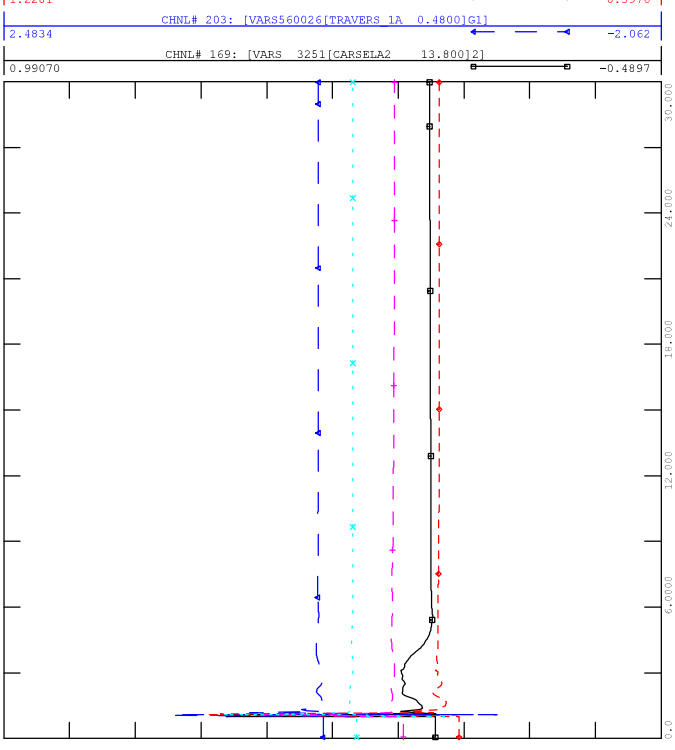
SAT, MAY 21 2022 1:18 ACTIVE POWER

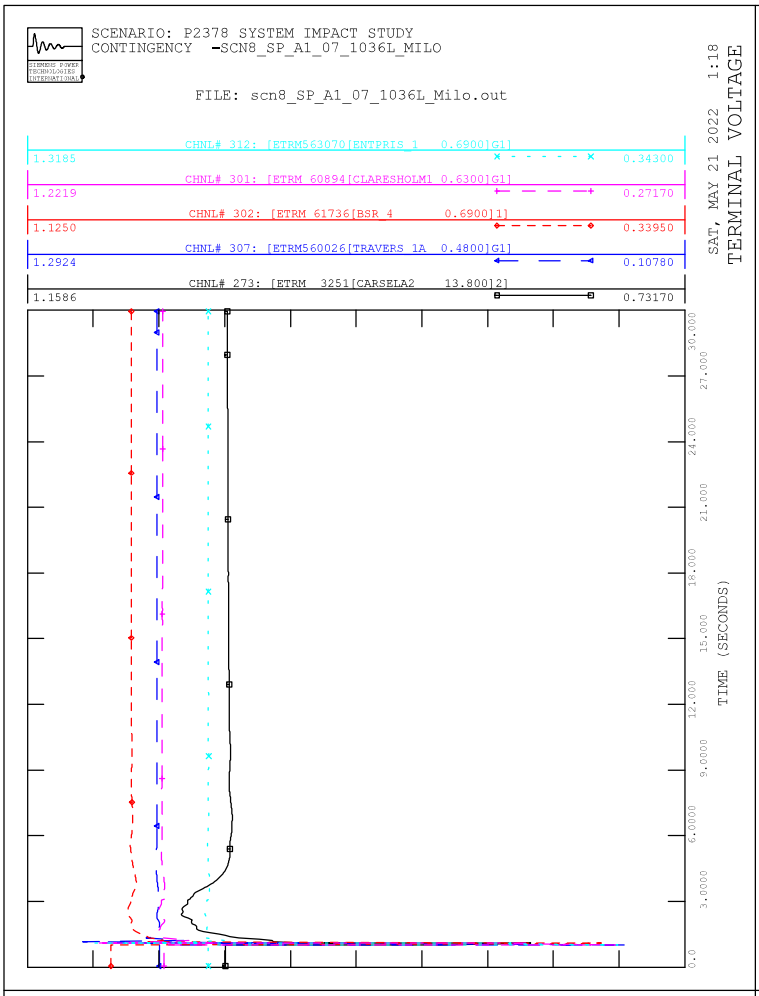


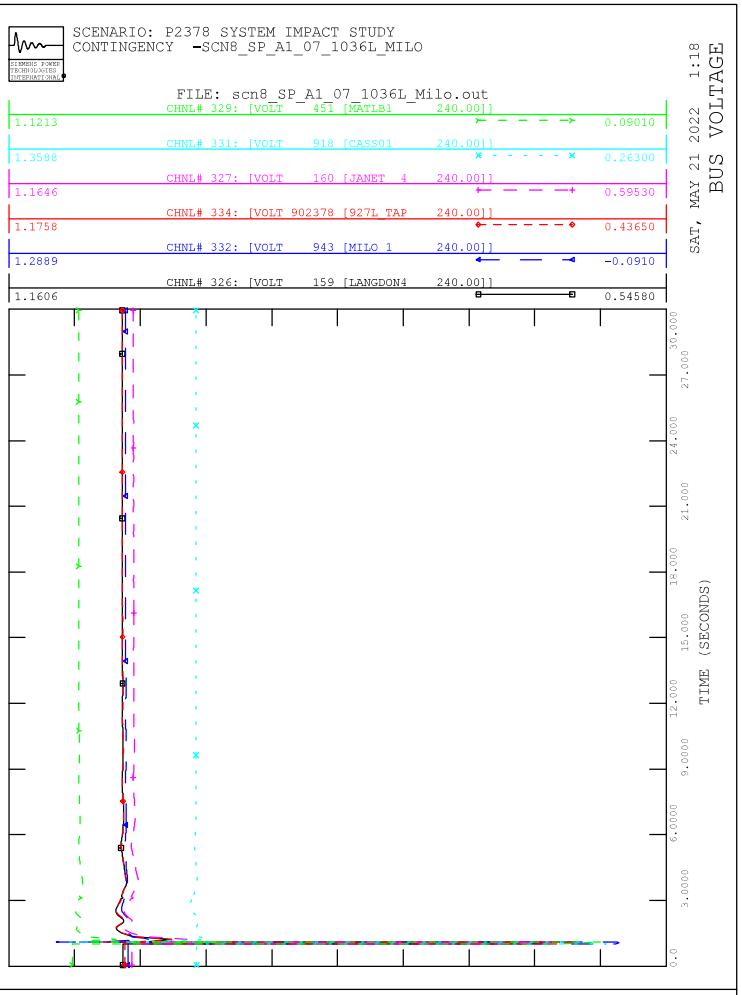
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO

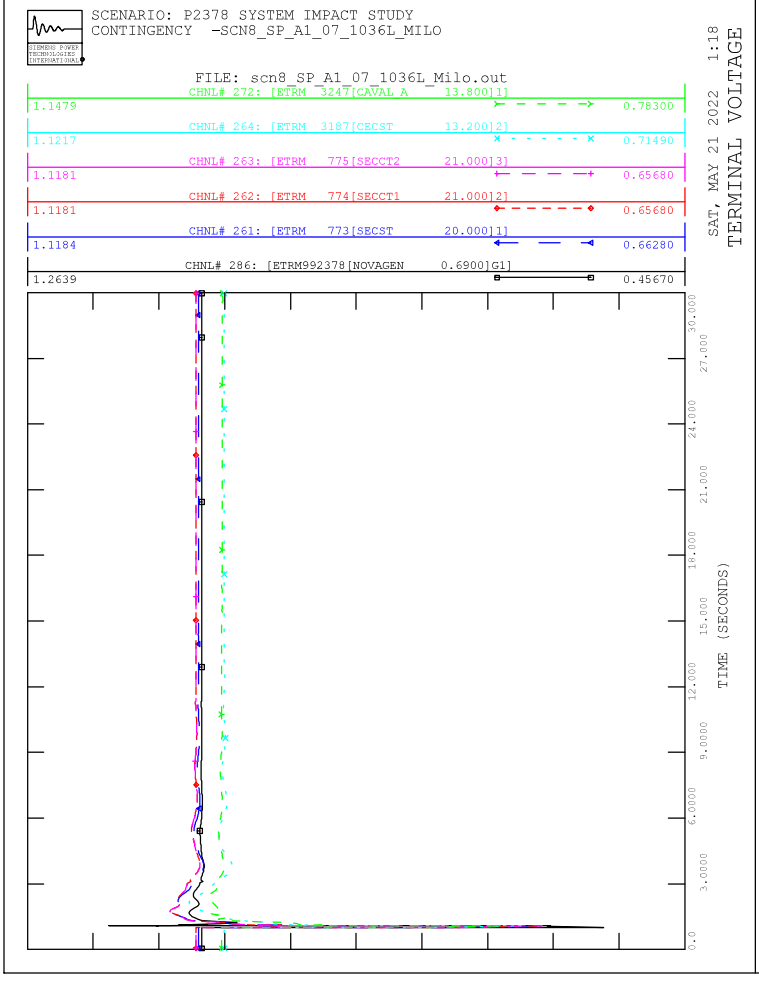
FILE: scn8_SP_A1_07_1036L_Milo.out

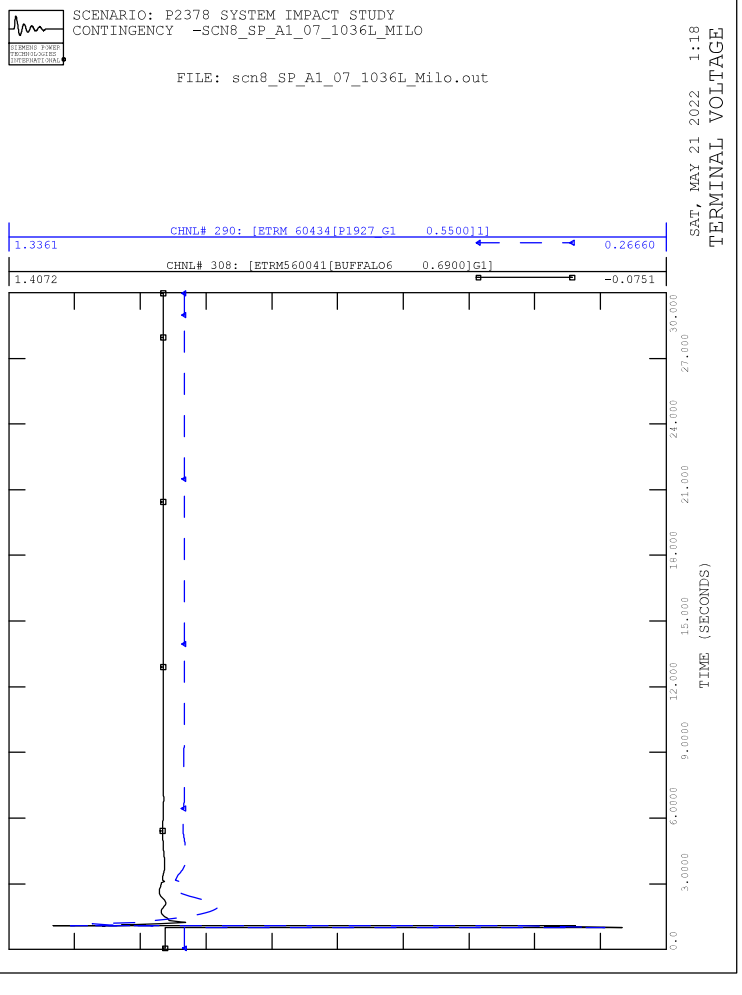
SAT, MAY 21 2022 1:18 REACTIVE POWER

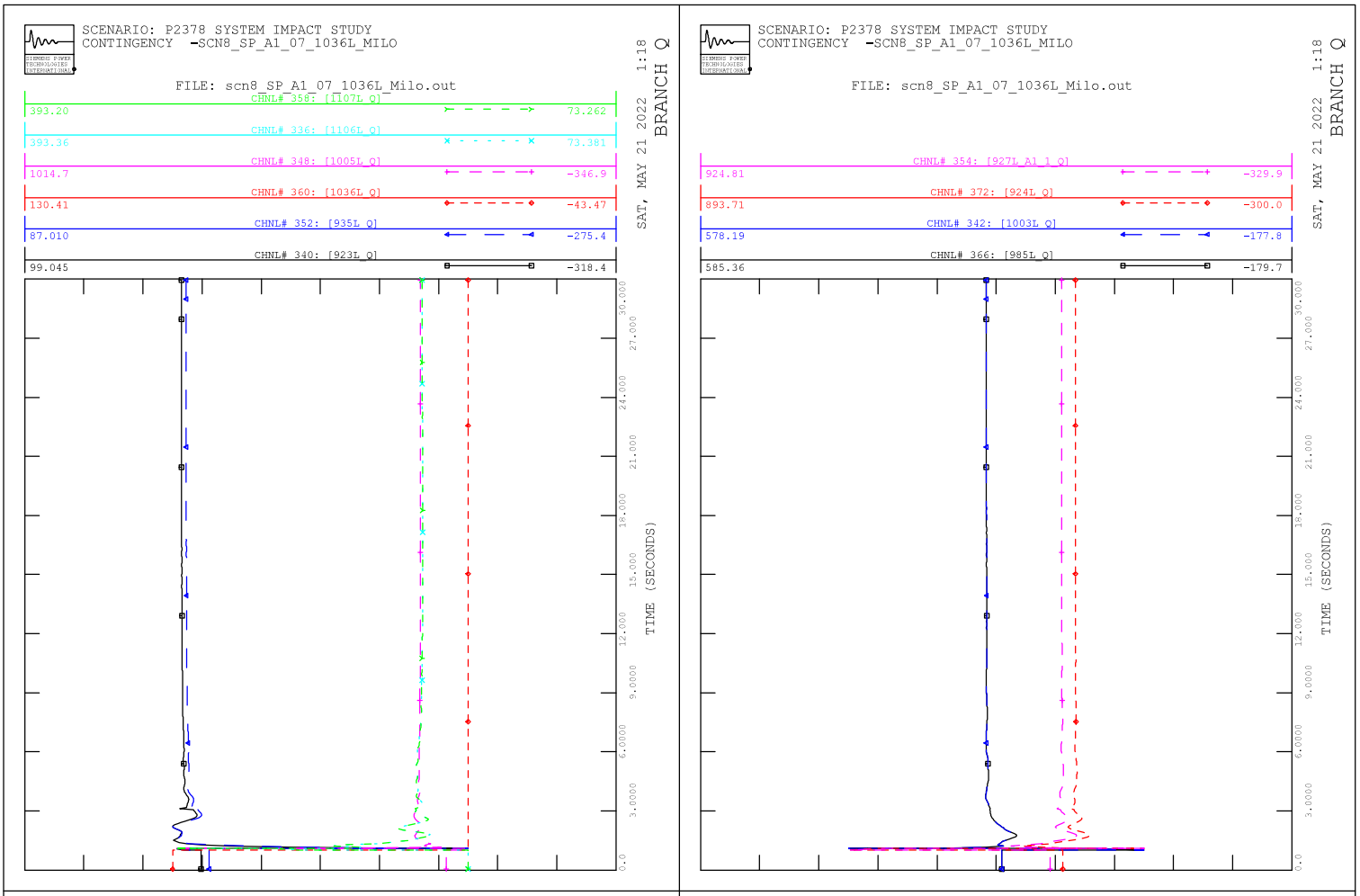



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO
FILE: scn8_SP_A1_07_1036L_Milo.out
CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1]
1.3185
0.34300
CHNL# 301: [ETRM_60894[CLARESHOLM1 0.6300]G1]
1.2219
0.27170
CHNL# 302: [ETRM_61736[BSR_4 0.6900]1]
1.1250
0.33950
CHNL# 307: [ETRM560026[TRAVERS_1A 0.4800]G1]
1.2924
0.10780
CHNL# 273: [ETRM_3251[CARSELA2 13.800]2]
1.1586
0.73170
TERMINAL VOLTAGE
SAT, MAY 21 2022 1:18
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

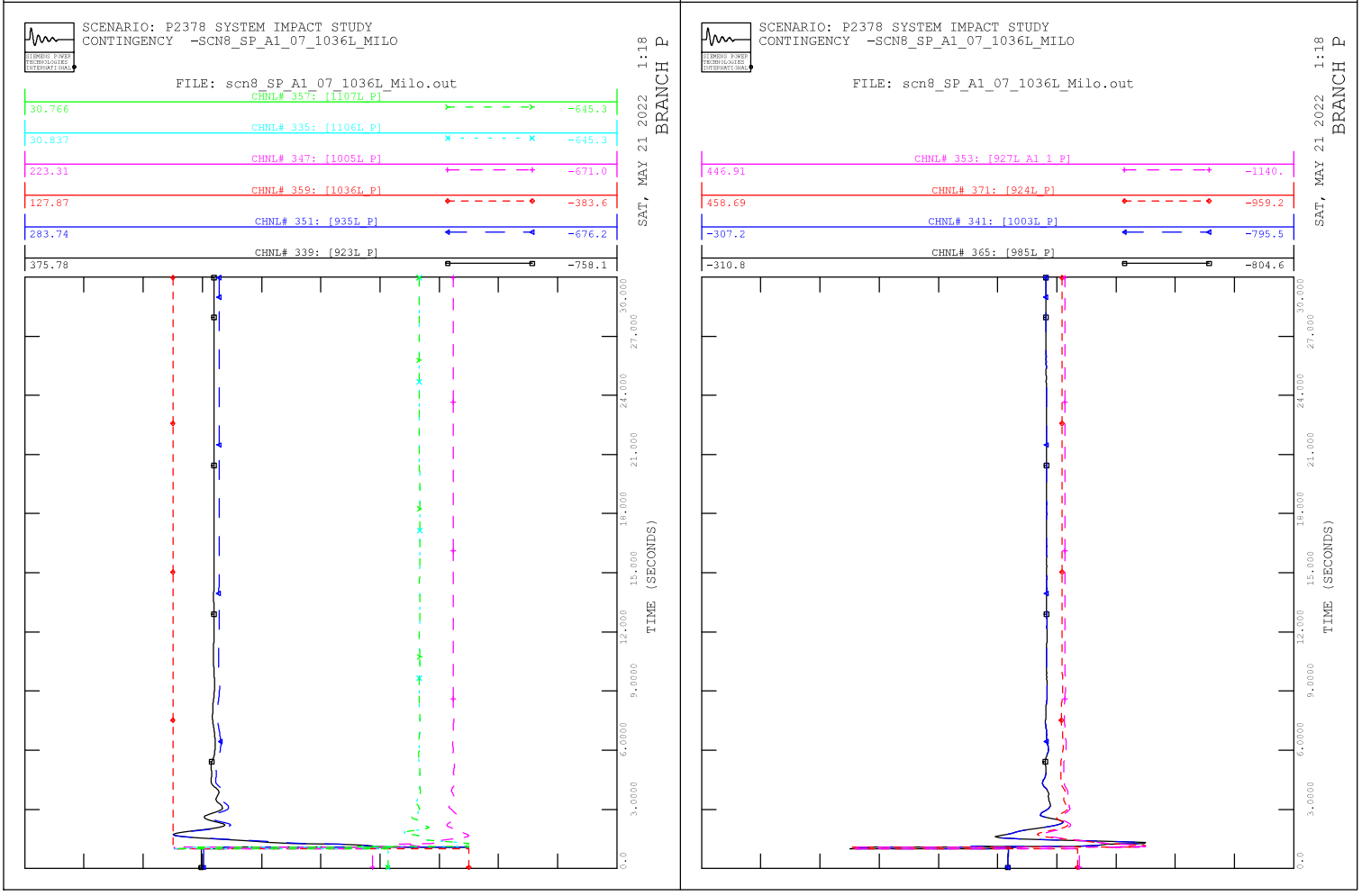

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO
FILE: scn8_SP_A1_07_1036L_Milo.out
CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1213
0.09010
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3588
0.26300
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1646
0.59530
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1758
0.43650
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.2889
-0.0910
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1606
0.54580
BUS VOLTAGE
SAT, MAY 21 2022 1:18
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO
FILE: scn8_SP_A1_07_1036L_Milo.out
CHNL# 272: [ETRM_3247[CAVAL A 13.800]1]
1.1479
0.78300
CHNL# 264: [ETRM_3187[CECST 13.200]2]
1.1217
0.71490
CHNL# 263: [ETRM_775[SECCT2 21.000]3]
1.1181
0.65680
CHNL# 262: [ETRM_774[SECCT1 21.000]2]
1.1181
0.65680
CHNL# 261: [ETRM_773[SECST 20.000]1]
1.1184
0.66280
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.2639
0.45670
TERMINAL VOLTAGE
SAT, MAY 21 2022 1:18
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

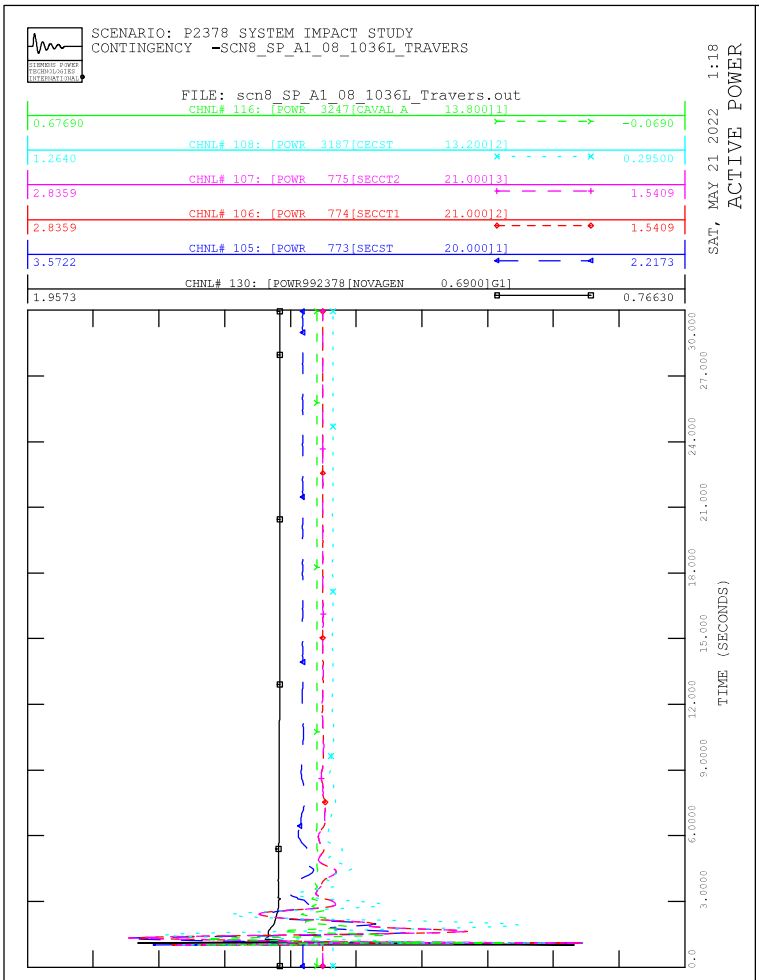

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO
FILE: scn8_SP_A1_07_1036L_Milo.out
CHNL# 290: [ETRM_60434[P1927 G1 0.5500]1]
1.3361
0.26660
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.4072
-0.0751
TERMINAL VOLTAGE
SAT, MAY 21 2022 1:18
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

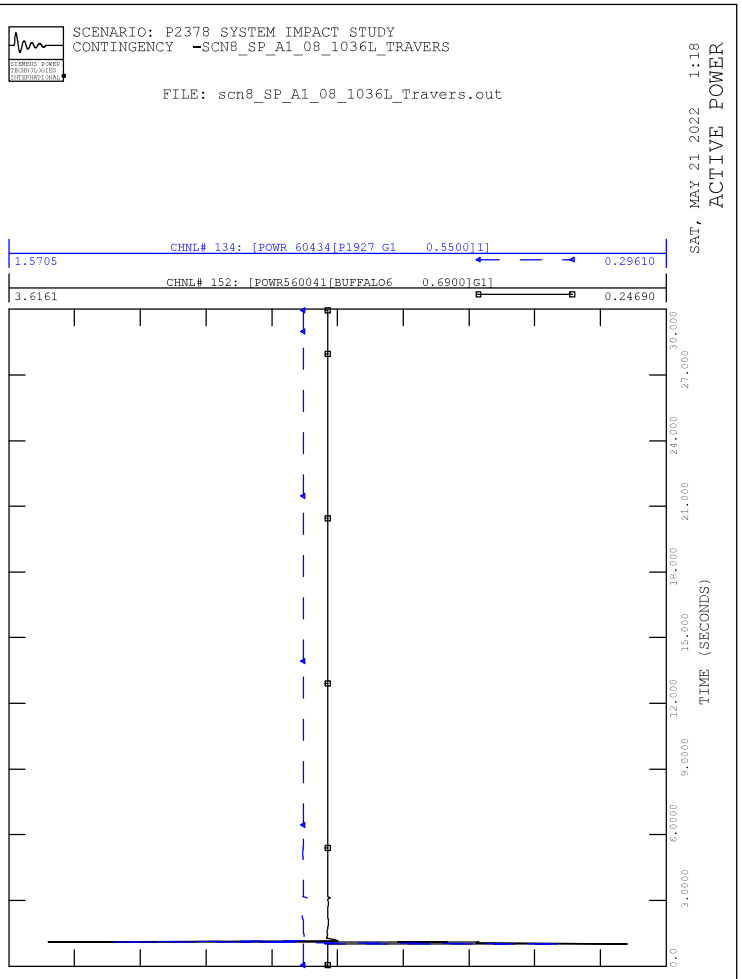

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO
FILE: scn8_SP_A1_07_1036L_Milo.out
CHNL# 358: [1107L Q]
393.20
73.262
CHNL# 336: [1106L Q]
393.36
73.381
CHNL# 348: [1005L Q]
1014.7
-346.9
CHNL# 360: [1036L Q]
130.41
-43.47
CHNL# 352: [935L Q]
87.010
-275.4
CHNL# 340: [923L Q]
99.045
-318.4
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

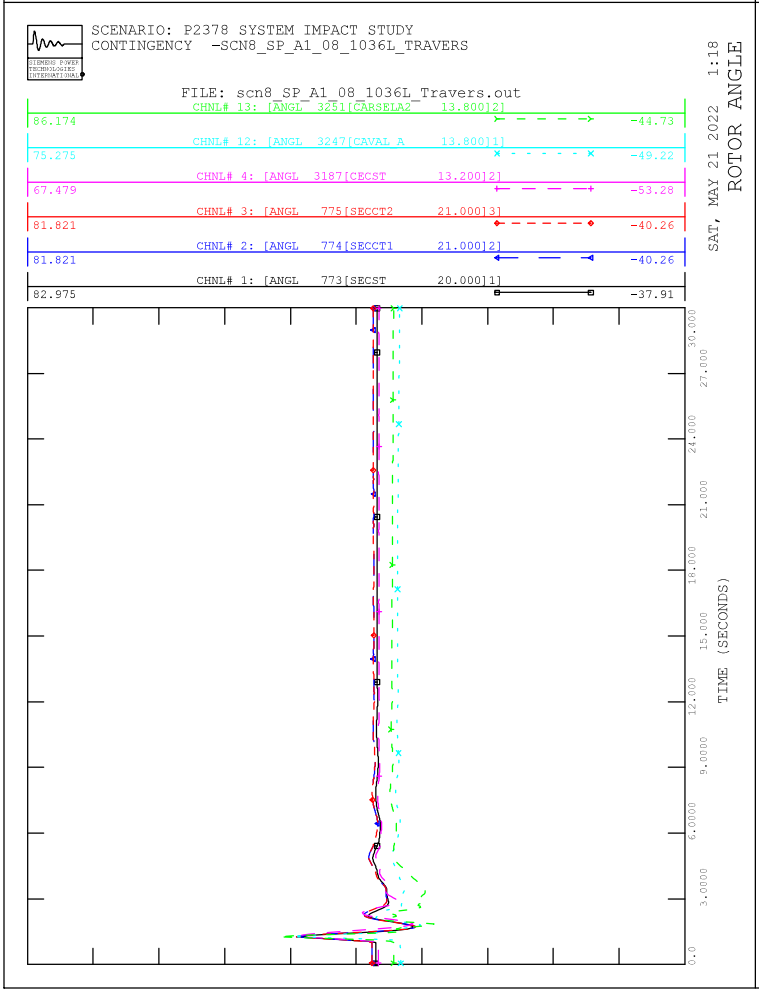
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO
FILE: scn8_SP_A1_07_1036L_Milo.out
CHNL# 354: [927L A1 1 Q]
924.81
-329.9
CHNL# 372: [924L Q]
893.71
-300.0
CHNL# 342: [1003L Q]
578.19
-177.8
CHNL# 366: [985L Q]
585.36
-179.7
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

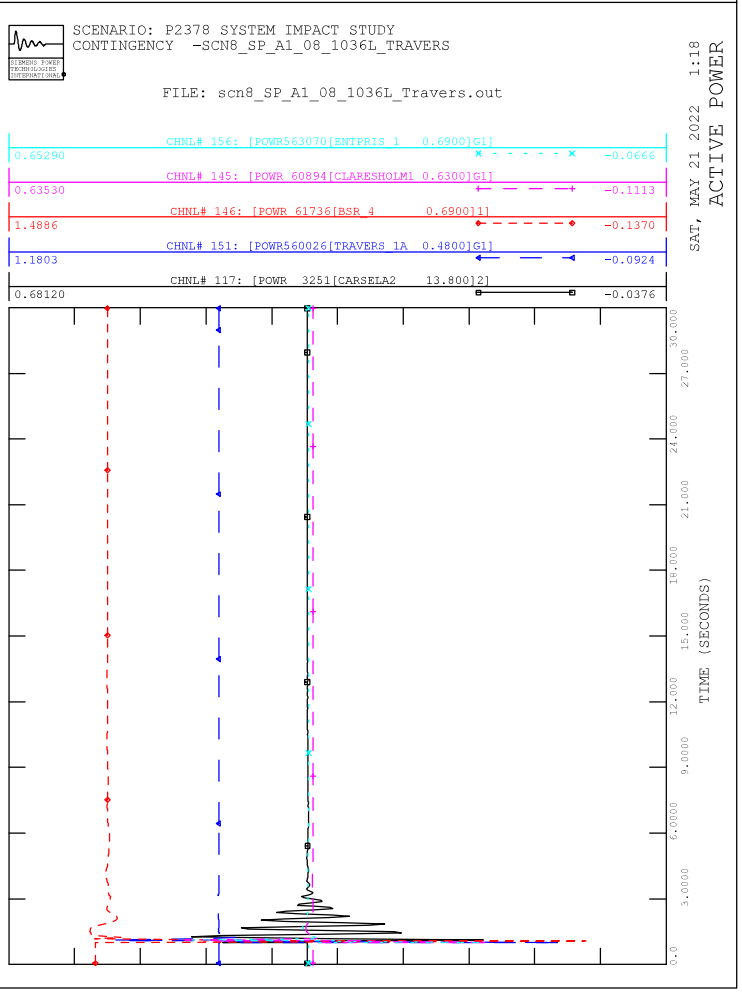

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO
FILE: scn8_SP_A1_07_1036L_Milo.out
CHNL# 357: [1107L P]
30.766
-645.3
CHNL# 335: [1106L P]
30.837
-645.3
CHNL# 347: [1005L P]
223.31
-671.0
CHNL# 359: [1036L P]
127.87
-383.6
CHNL# 351: [935L P]
283.74
-676.2
CHNL# 339: [923L P]
375.78
-758.1
SAT, MAY 21 2022 1:18
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_07_1036L_MILO
FILE: scn8_SP_A1_07_1036L_Milo.out
CHNL# 353: [927L A1 1 P]
446.91
-1140.
CHNL# 371: [924L P]
458.69
-959.2
CHNL# 341: [1003L P]
-307.2
-795.5
CHNL# 365: [985L P]
-310.8
-804.6
SAT, MAY 21 2022 1:18
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.67690
-0.0690
CHNL# 108: [POWR 3187[CECST 13.200]2]
1.2640
0.29500
CHNL# 107: [POWR 775[SECCT2 21.000]3]
2.8359
1.5409
CHNL# 106: [POWR 774[SECCT1 21.000]2]
2.8359
1.5409
CHNL# 105: [POWR 773[SECST 20.000]1]
3.5722
2.2173
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.9573
0.76630
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
1.5705
0.29610
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
3.6161
0.24690
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
86.174
-44.73
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
75.275
-49.22
CHNL# 4: [ANGL 3187[CECST 13.200]2]
67.479
-53.28
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
81.821
-40.26
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
81.821
-40.26
CHNL# 1: [ANGL 773[SECST 20.000]1]
82.975
-37.91
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 156: [POWR563070[ENTPRIS 1 0.6900]G1]
0.65290
-0.0666
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.63530
-0.1113
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.4886
-0.1370
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
1.1803
-0.0924
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.68120
-0.0376
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

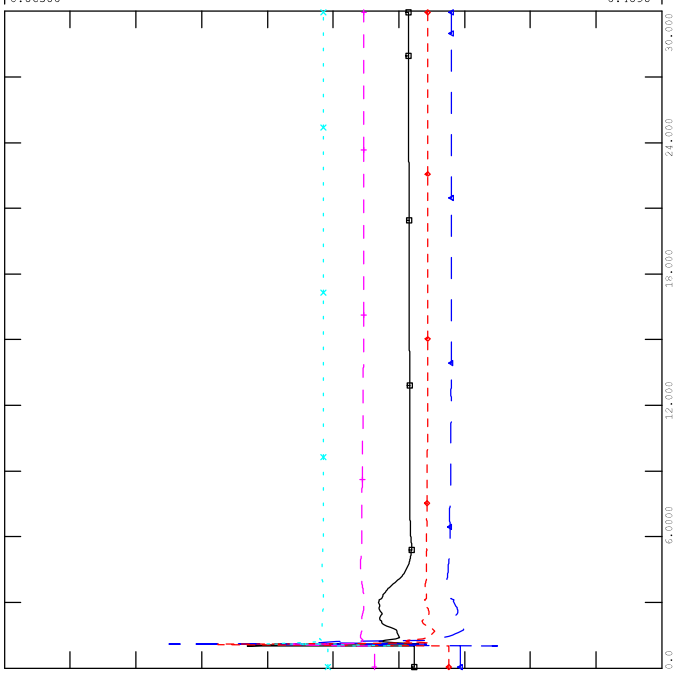
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS

FILE: scn8_SP_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1]
0.97160 -0.2923
CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.53150 -0.6114
CHNL# 198: [VARS 61736[BSR_4 0.6900]1]
1.1446 -0.3976
CHNL# 203: [VARS560026[TRAVERS 1A 0.4800]G1]
1.9994 -0.4878
CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
0.86380 -0.4898

TIME (SECONDS)



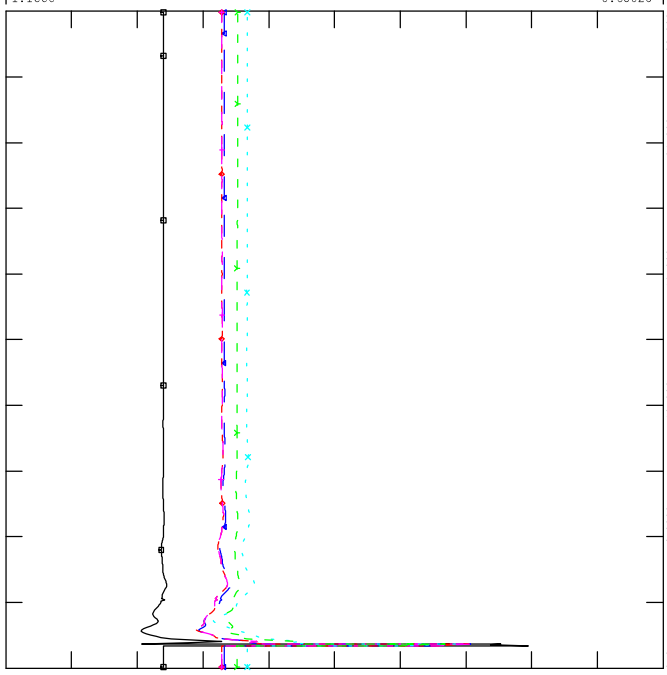
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS

FILE: scn8_SP_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1460 0.84460
CHNL# 264: [ETRM 3187[CECST 13.200]2]
1.1162 0.79950
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1134 0.76830
CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1134 0.76830
CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1132 0.77230
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.1666 0.68020

TIME (SECONDS)



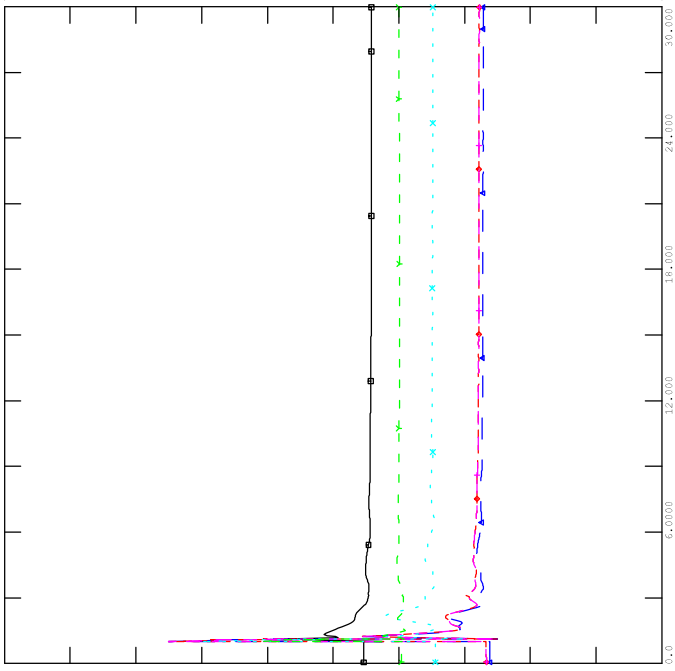
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS

FILE: scn8_SP_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
0.81190 -0.4677
CHNL# 160: [VARS 3187[CECST 13.200]2]
1.2817 -0.4081
CHNL# 159: [VARS 775[SECCT2 21.000]3]
2.0755 -0.8803
CHNL# 158: [VARS 774[SECCT1 21.000]2]
2.0755 -0.8803
CHNL# 157: [VARS 773[SECST 20.000]1]
2.5869 -0.9988
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
0.77310 -0.4026

TIME (SECONDS)



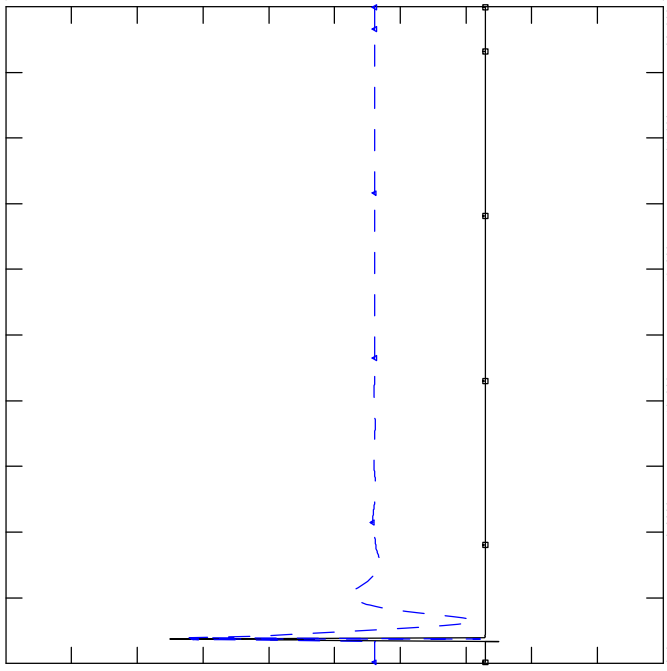
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS

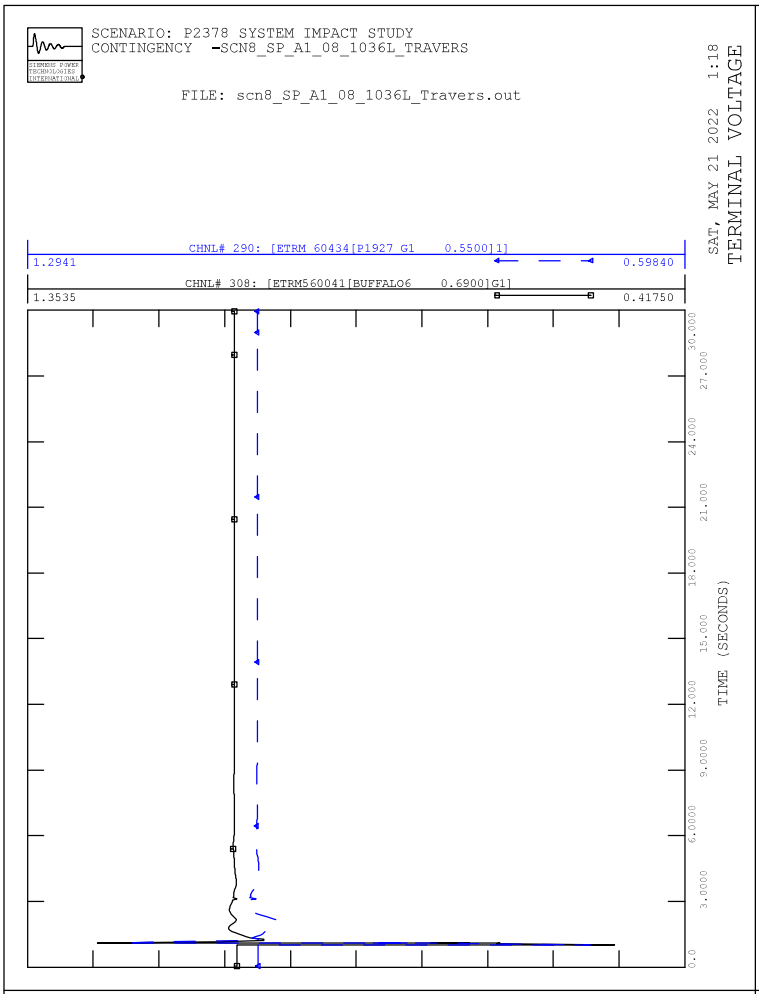
FILE: scn8_SP_A1_08_1036L_Travers.out

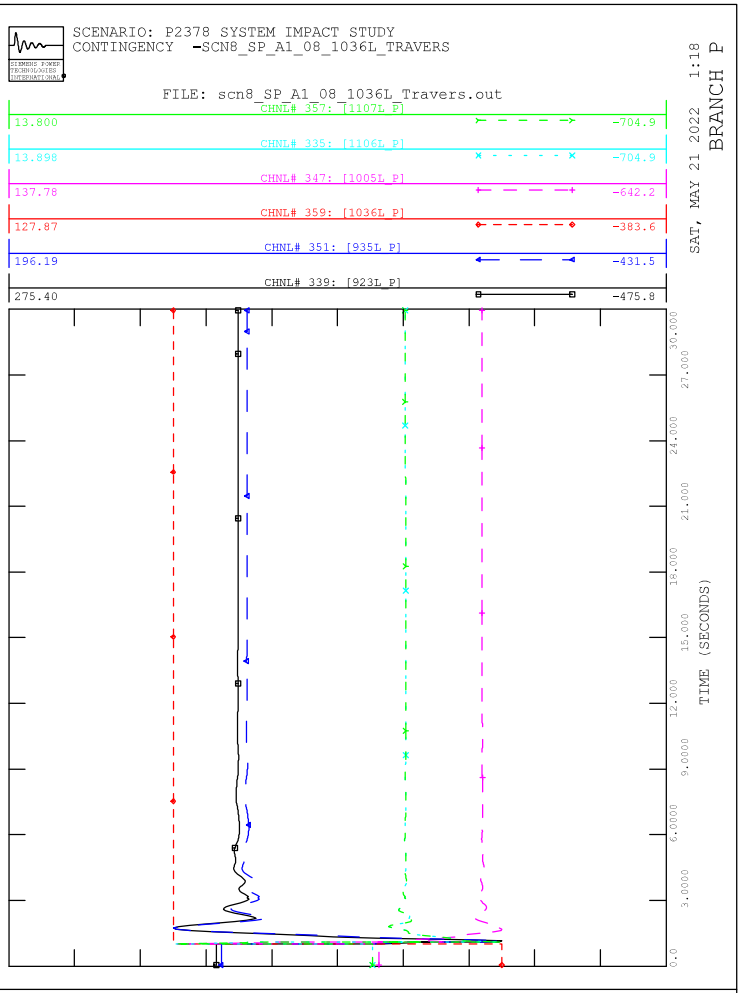
SAT, MAY 21 2022 1:18 REACTIVE POWER

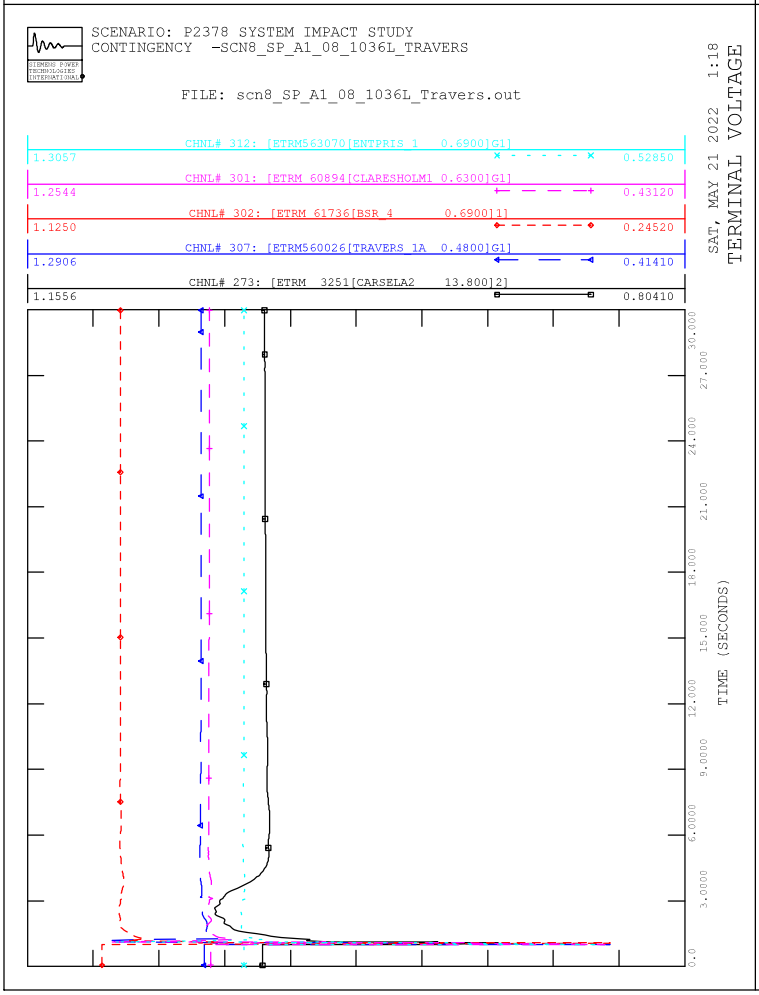
CHNL# 186: [VARS 60434[P1927_G1 0.5500]1]
1.0461 -0.7488
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
2.5078 -0.7491

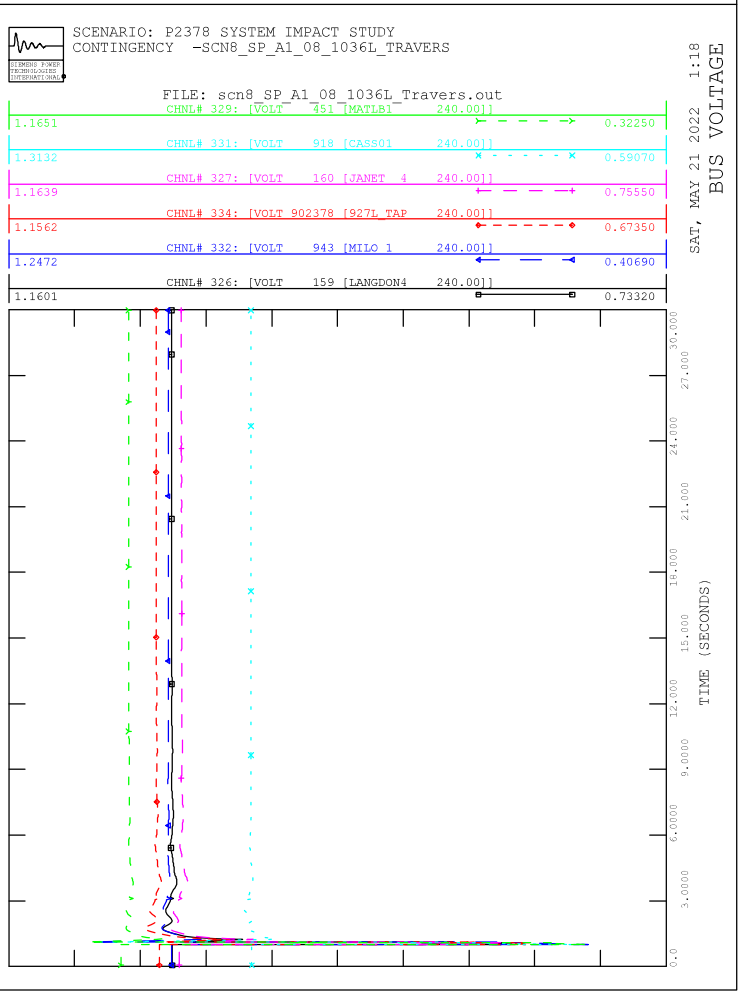
TIME (SECONDS)

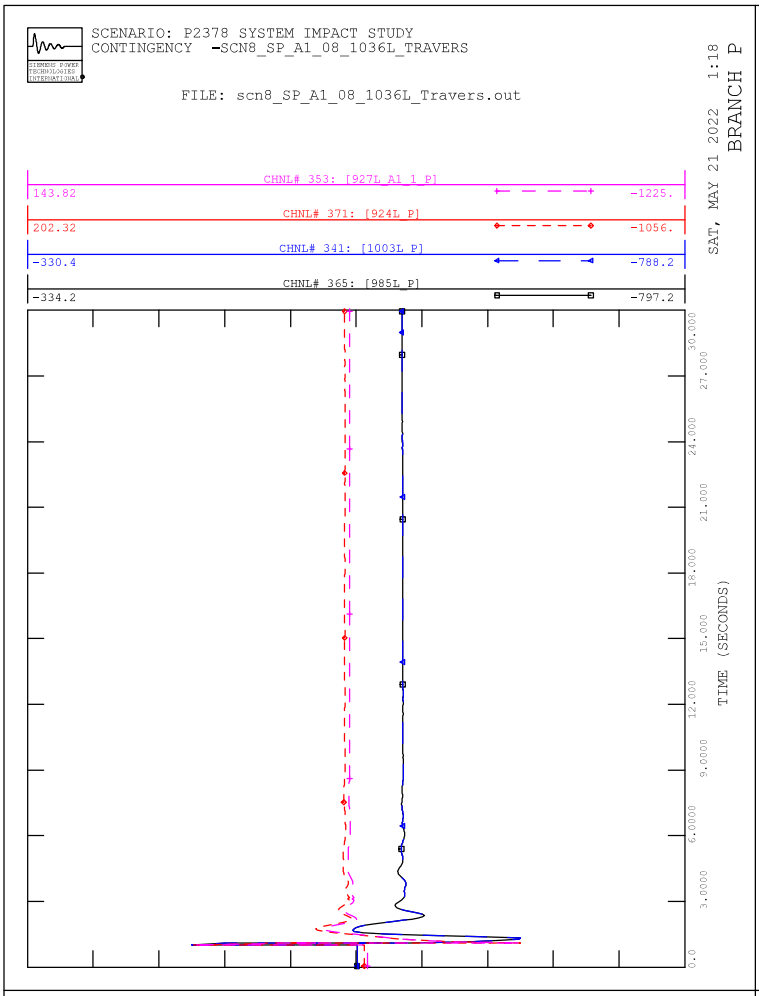


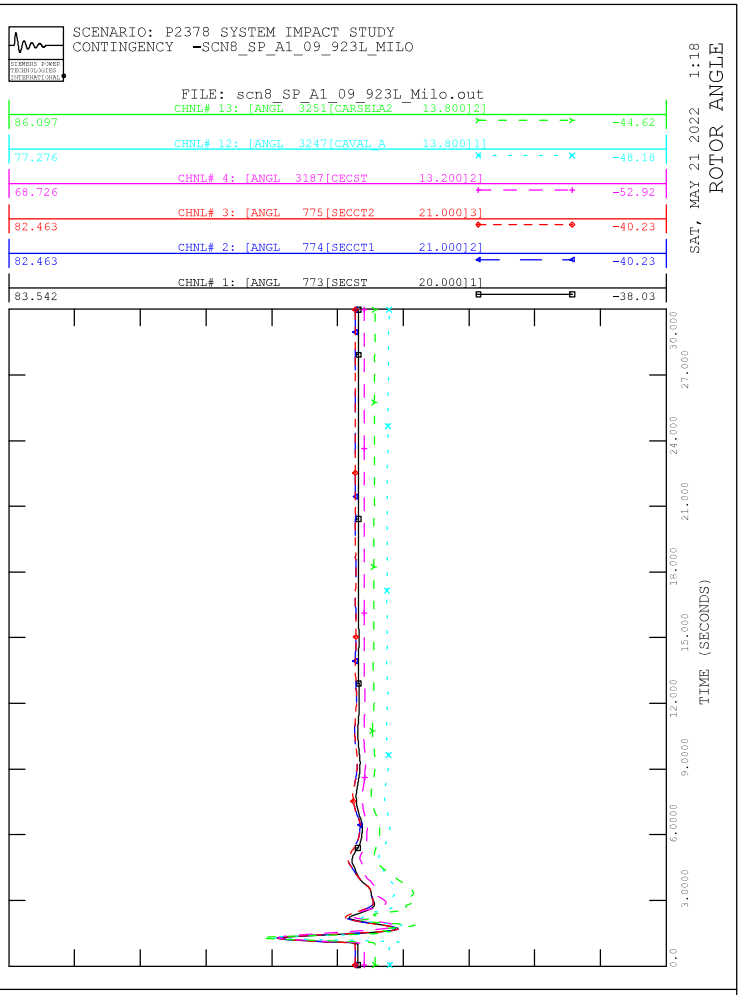

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
1.2941
0.59840
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.3535
0.41750
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
TIME (SECONDS)

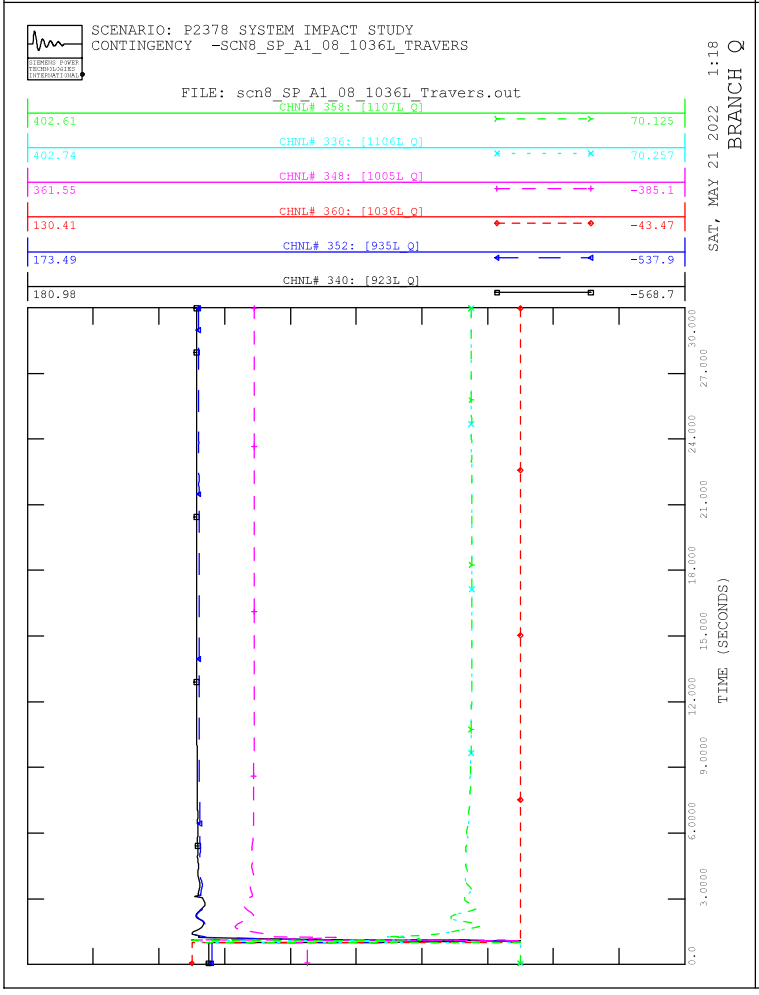

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 357: [1107L P]
13.800
-704.9
CHNL# 335: [1106L P]
13.898
-704.9
CHNL# 347: [1005L P]
137.78
-642.2
CHNL# 359: [1036L P]
127.87
-383.6
CHNL# 351: [935L P]
196.19
-431.5
CHNL# 339: [923L P]
275.40
-475.8
SAT, MAY 21 2022 1:18
BRANCH P
TIME (SECONDS)

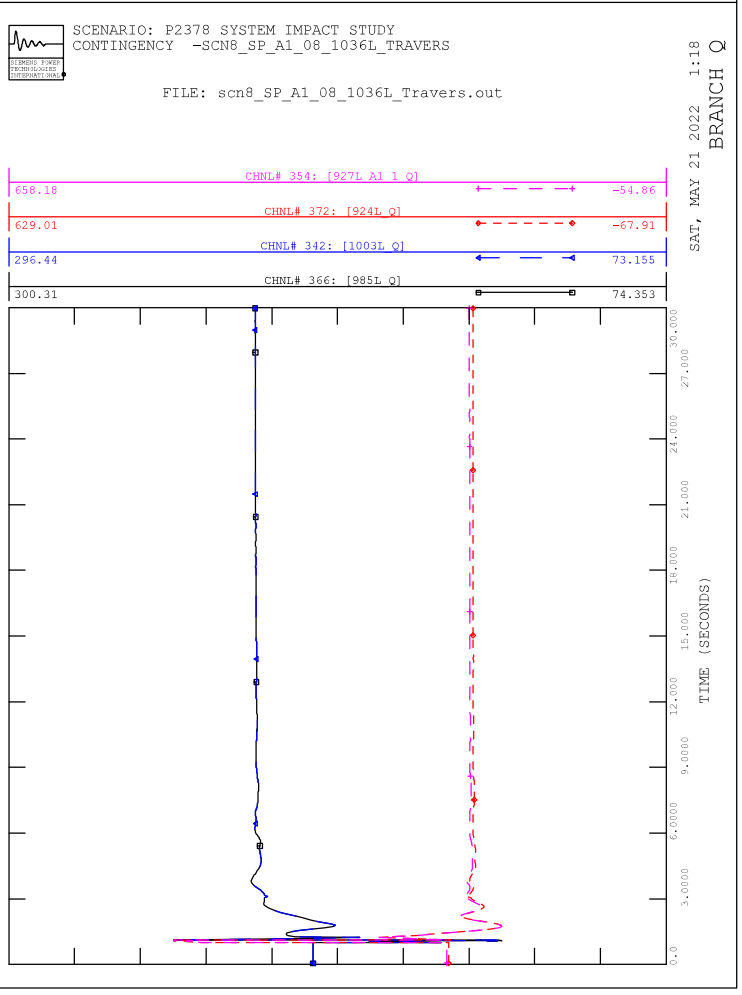

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3057
0.52850
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2544
0.43120
CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1250
0.24520
CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2906
0.41410
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1556
0.80410
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1651
0.32250
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3132
0.59070
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1639
0.75550
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1562
0.67350
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.2472
0.40690
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1601
0.73320
SAT, MAY 21 2022 1:18
BUS VOLTAGE
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 353: [927L A1 1 P]
143.82
-1225.
CHNL# 371: [924L P]
202.32
-1056.
CHNL# 341: [1003L P]
-330.4
-788.2
CHNL# 365: [985L P]
-334.2
-797.2
SAT, MAY 21 2022 1:18
BRANCH P
TIME (SECONDS)

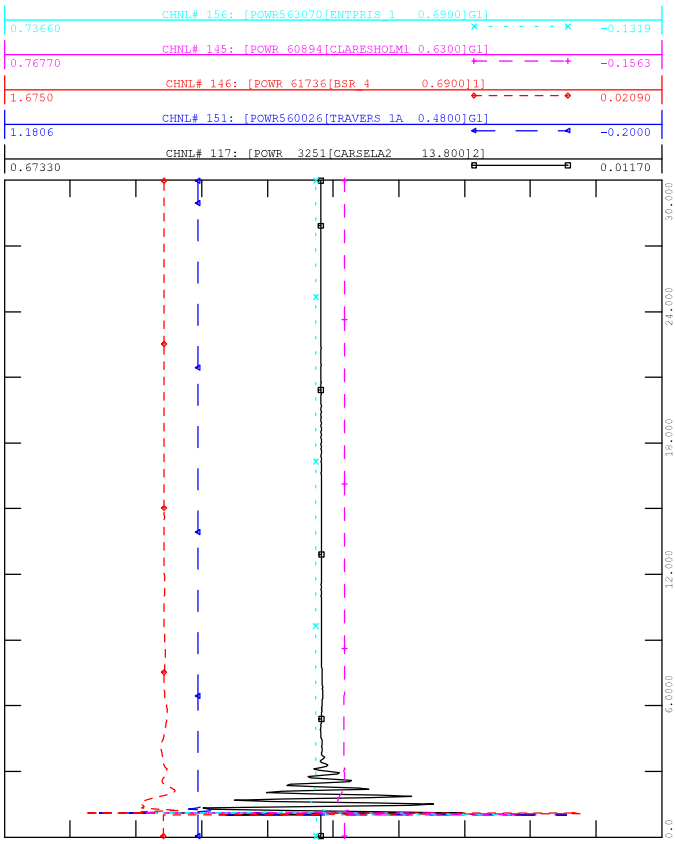

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO
FILE: scn8_SP_A1_09_923L_Milo.out
CHNL# 13: [ANGL 3251[CARBELA2 13.800]2]
86.097
-44.62
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
77.276
-48.18
CHNL# 4: [ANGL 3187[CECST 13.200]2]
68.726
-52.92
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
82.463
-40.23
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
82.463
-40.23
CHNL# 1: [ANGL 773[SECST 20.000]1]
83.542
-38.03
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 358: [1107L Q]
402.61
70.125
CHNL# 336: [1106L Q]
402.74
70.257
CHNL# 348: [1005L Q]
361.55
-385.1
CHNL# 360: [1036L Q]
130.41
-43.47
CHNL# 352: [935L Q]
173.49
-537.9
CHNL# 340: [923L Q]
180.98
-568.7
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_08_1036L_TRAVERS
FILE: scn8_SP_A1_08_1036L_Travers.out
CHNL# 354: [927L A1 1 Q]
658.18
-54.86
CHNL# 372: [924L Q]
629.01
-67.91
CHNL# 342: [1003L Q]
296.44
73.155
CHNL# 366: [985L Q]
300.31
74.353
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)

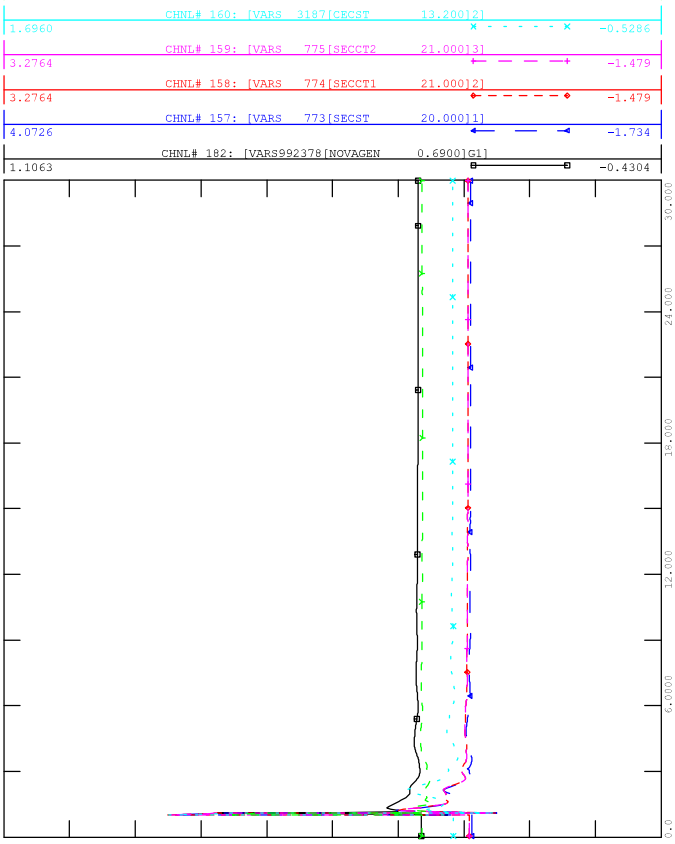
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out



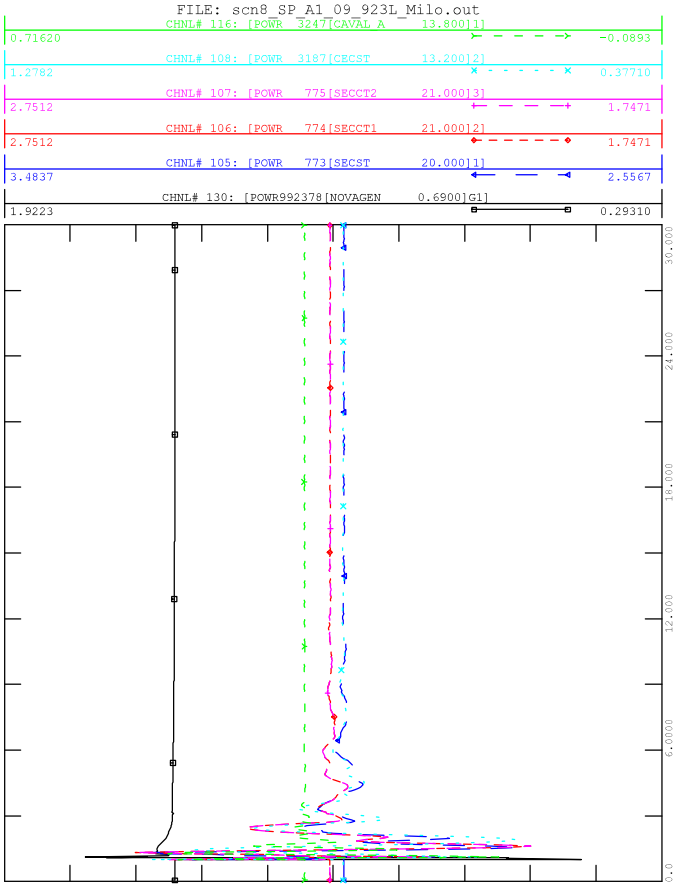
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out



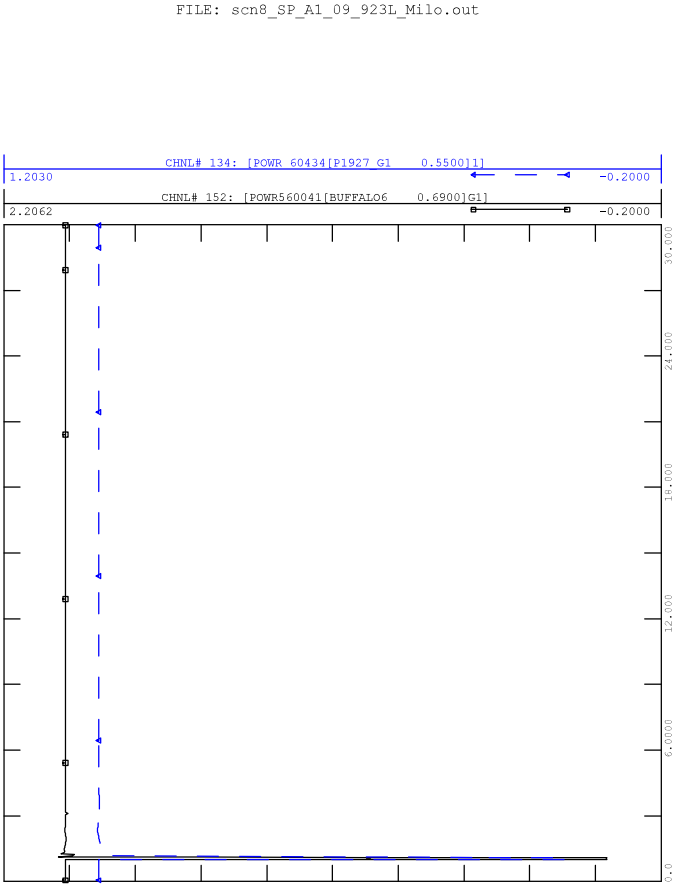
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

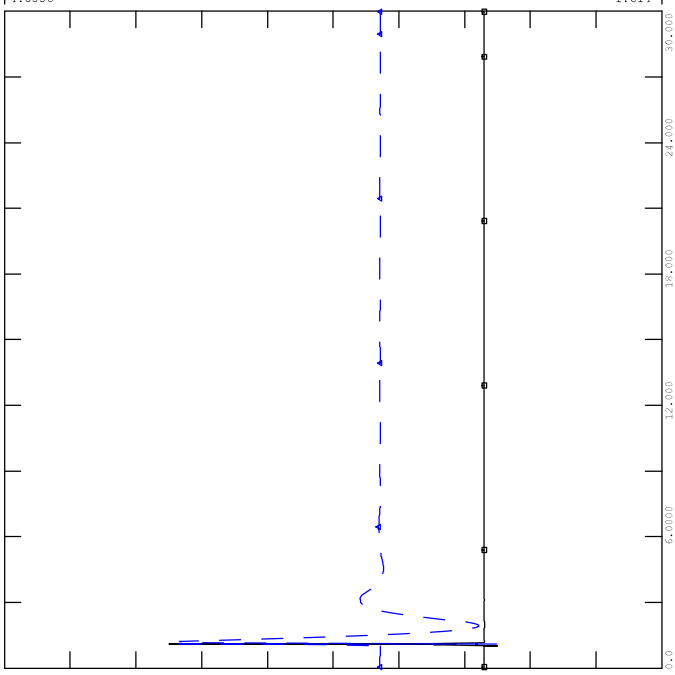
FILE: scn8_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:18

REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
2.1873 -1.573

CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
4.8556 -1.614



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:18

TERMINAL VOLTAGE

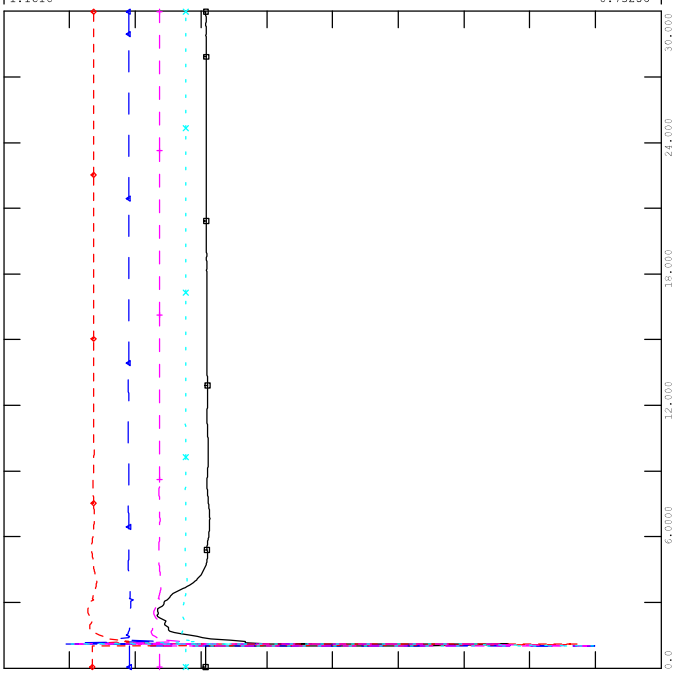
CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3202 0.34270

CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2585 0.27270

CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1302 0.34740

CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2782 0.10960

CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1616 0.73250



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:18

REACTIVE POWER

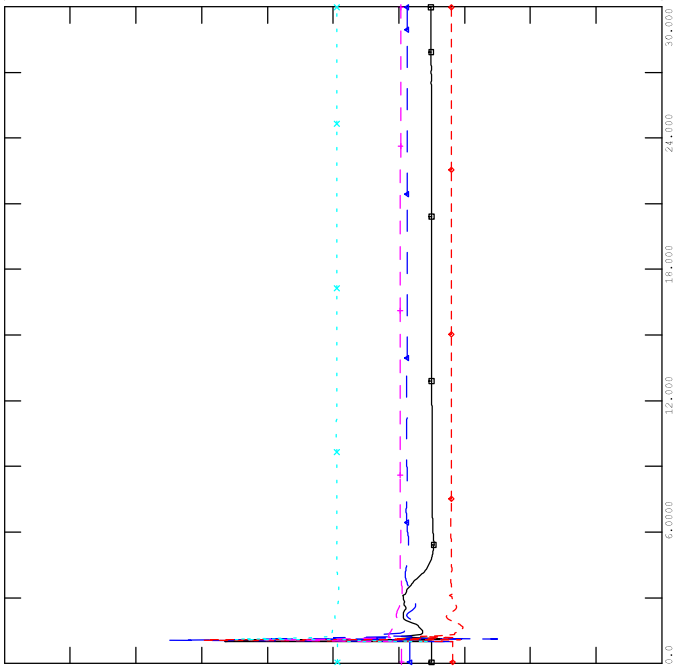
CHNL# 208: [VARS563070[ENTPRIS 1 0.6900]G1]
1.0698 -0.3516

CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.65200 -0.6125

CHNL# 198: [VARS 61736[BSR 4 0.6900]1]
1.2289 -0.4232

CHNL# 203: [VARS560026[TRAVERS 1A 0.4800]G1]
2.0833 -0.8497

CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
0.98940 -0.5044



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:18

TERMINAL VOLTAGE

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1493 0.78340

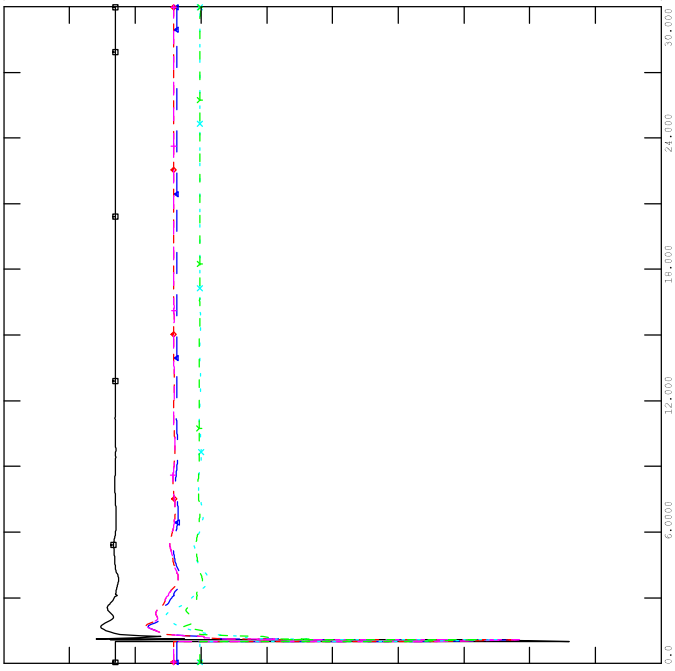
CHNL# 264: [ETRM 3187[CECST 13.200]2]
1.1211 0.71540

CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1194 0.65760

CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1194 0.65760

CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1200 0.66360

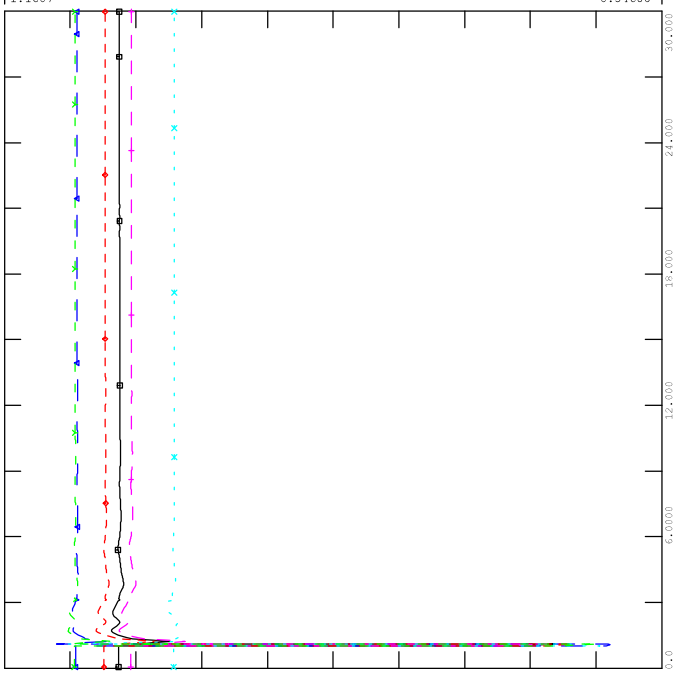
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.1711 0.45740



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1311 0.09880
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3192 0.25860
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1676 0.59610
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1541 0.43770
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.1766 -0.0913
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1607 0.54680

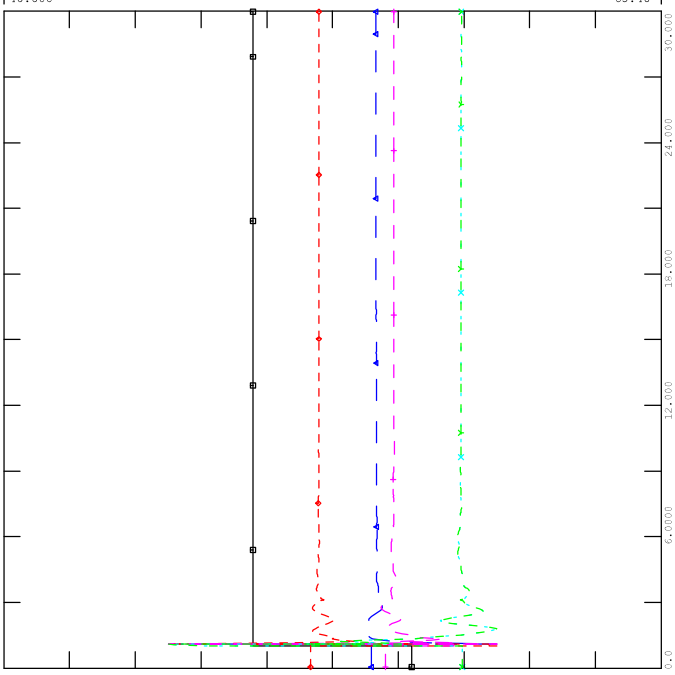


SAT, MAY 21 2022 1:18
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out

CHNL# 358: [1107L Q]
313.62 83.648
CHNL# 336: [1106L Q]
313.69 83.785
CHNL# 348: [1005L Q]
298.91 -141.3
CHNL# 360: [1036L Q]
243.72 -92.00
CHNL# 352: [935L Q]
856.39 -722.0
CHNL# 340: [923L Q]
40.000 -65.48

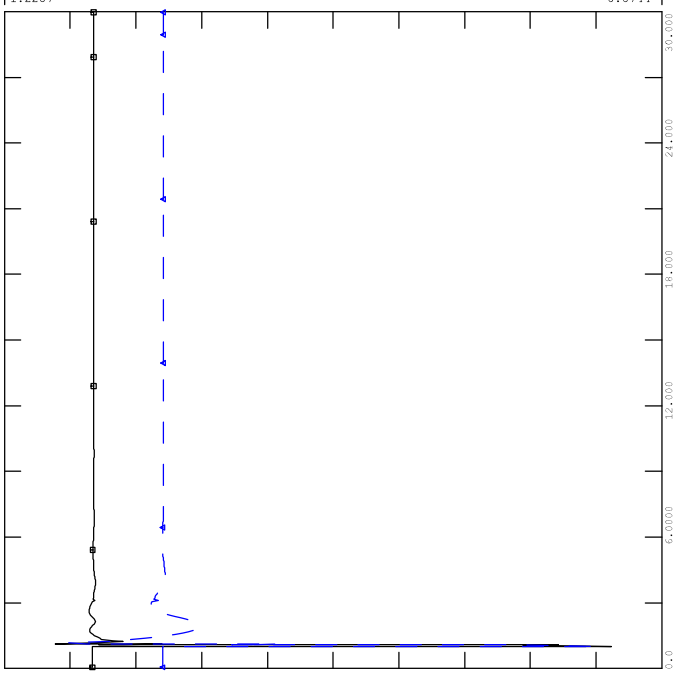


SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
1.3001 0.26220
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.2287 -0.0744

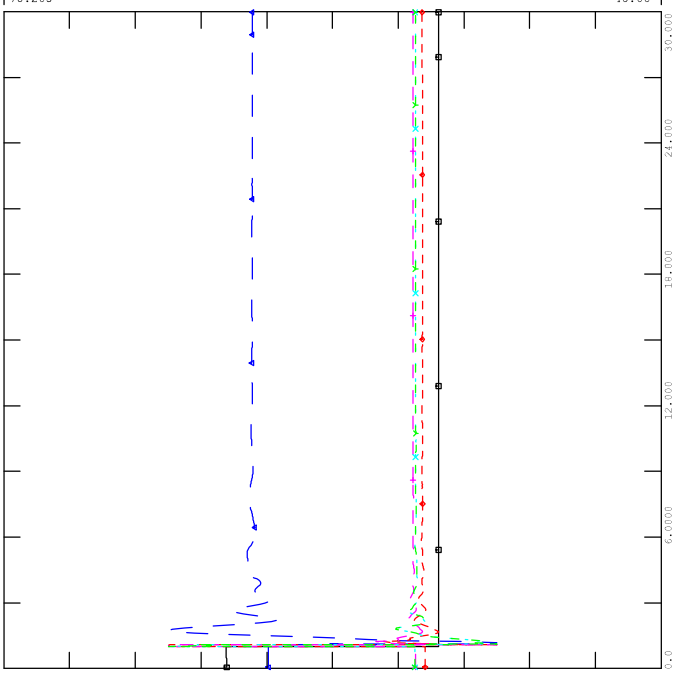


SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

FILE: scn8_SP_A1_09_923L_Milo.out

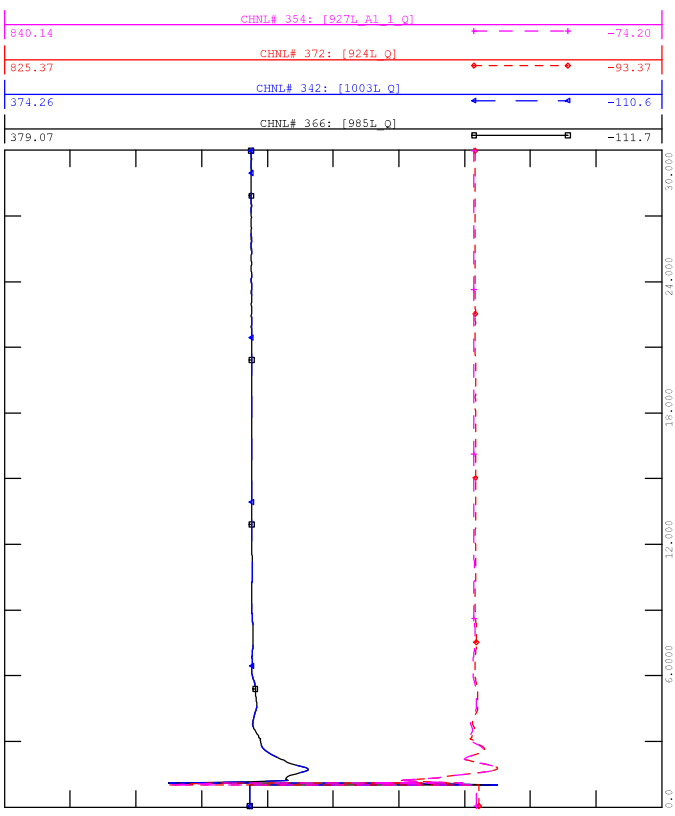
CHNL# 357: [1107L P]
23.774 -628.3
CHNL# 335: [1106L P]
23.851 -628.4
CHNL# 347: [1005L P]
197.11 -599.7
CHNL# 359: [1036L P]
158.35 -487.9
CHNL# 351: [935L P]
458.19 -696.6
CHNL# 339: [923L P]
78.205 -40.00



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

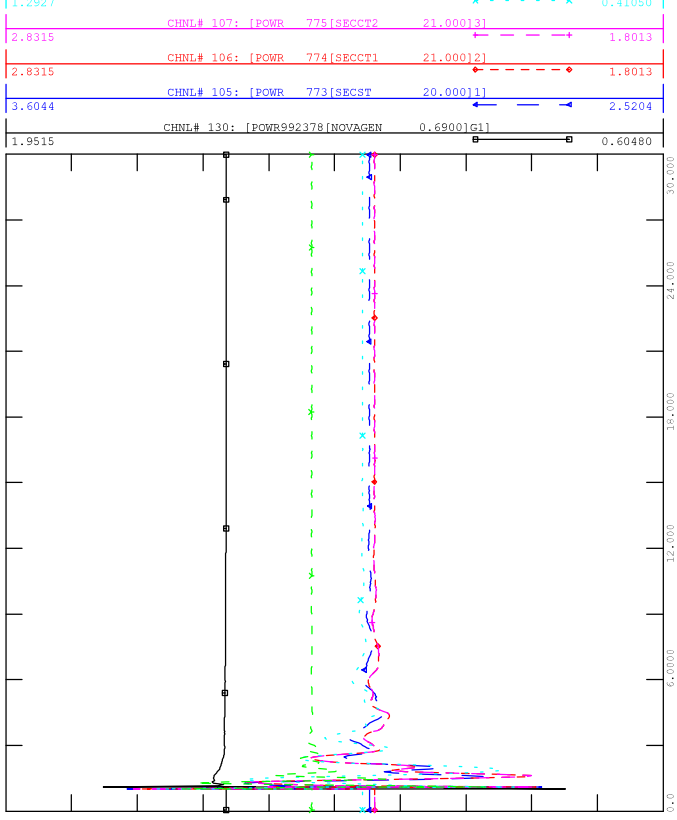
FILE: scn8_SP_A1_09_923L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

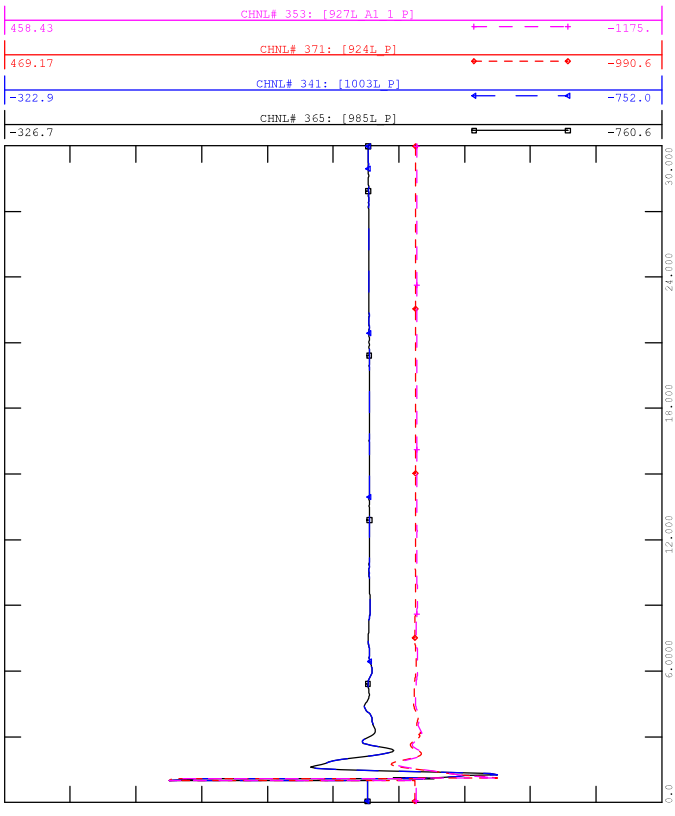
FILE: scn8_SP_A1_10_923L_Newell.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_09_923L_MILO

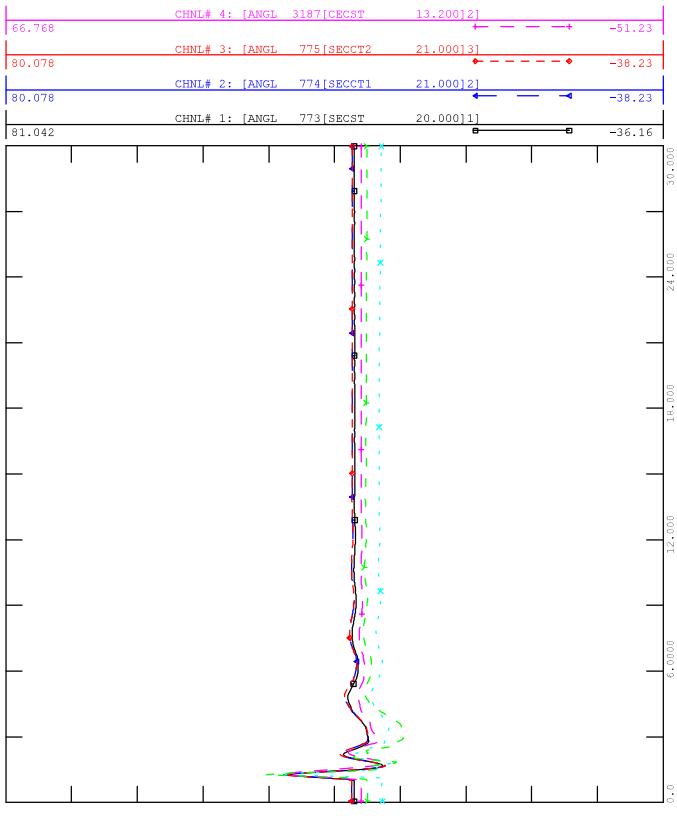
FILE: scn8_SP_A1_09_923L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

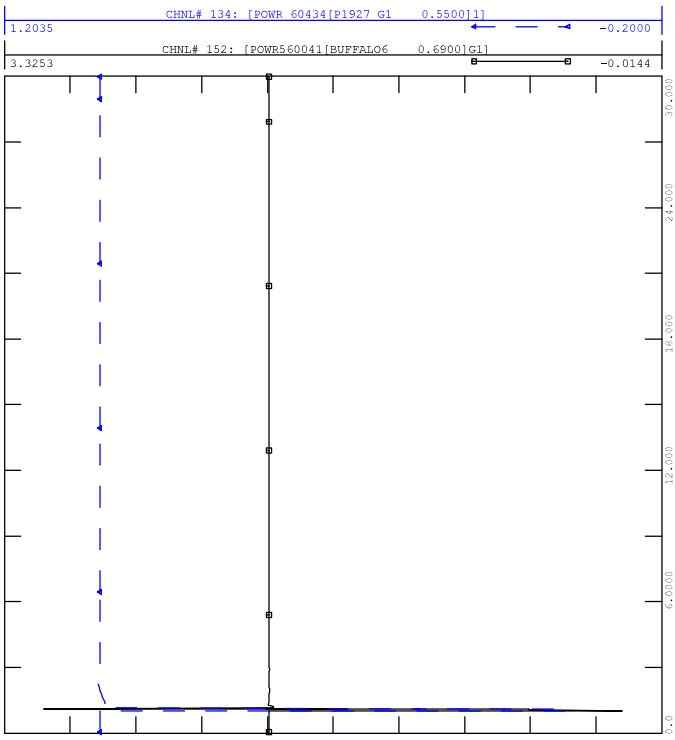


SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

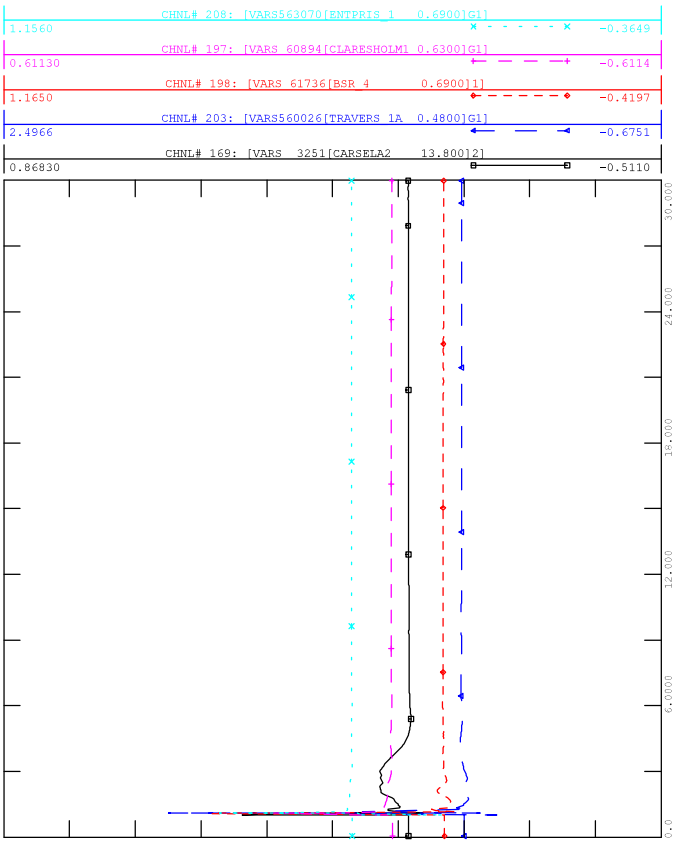
SAT, MAY 21 2022 1:18 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

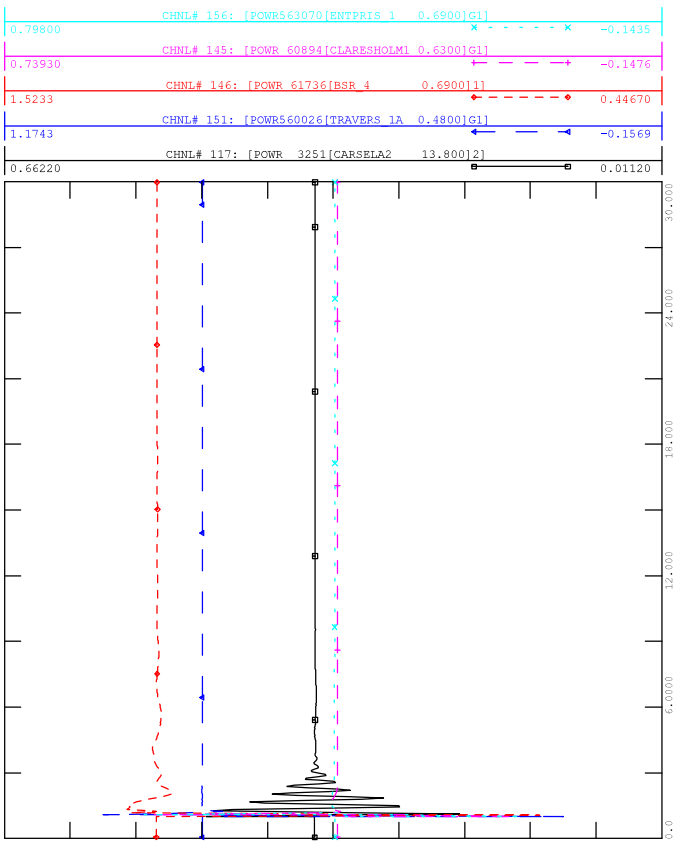
SAT, MAY 21 2022 1:18 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

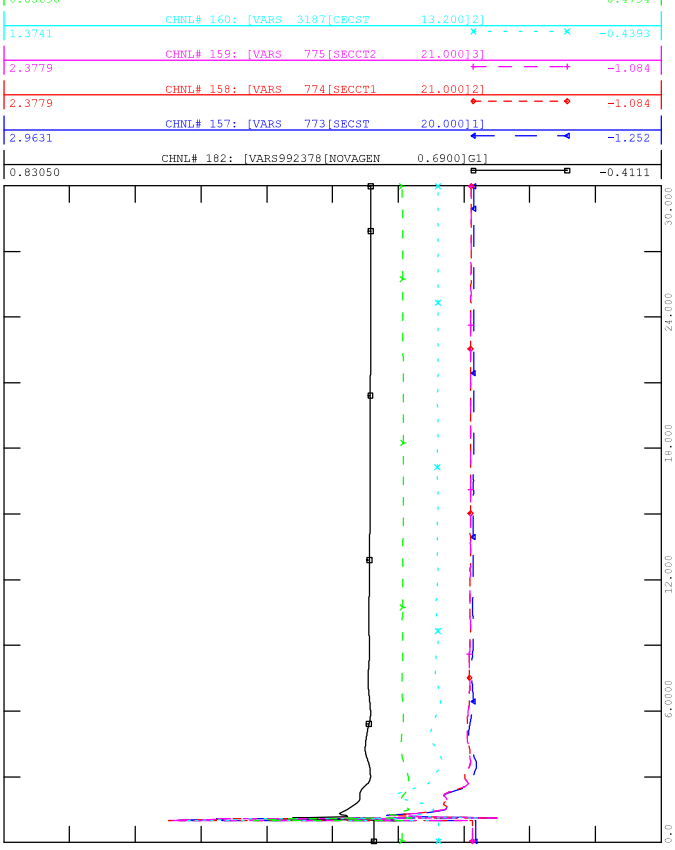
SAT, MAY 21 2022 1:18 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

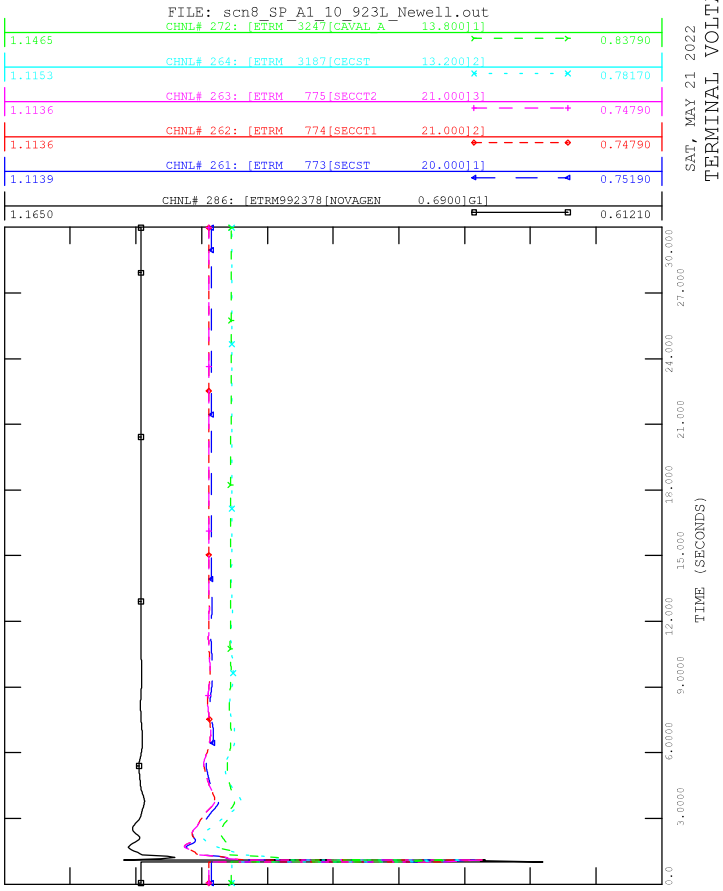
SAT, MAY 21 2022 1:18 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

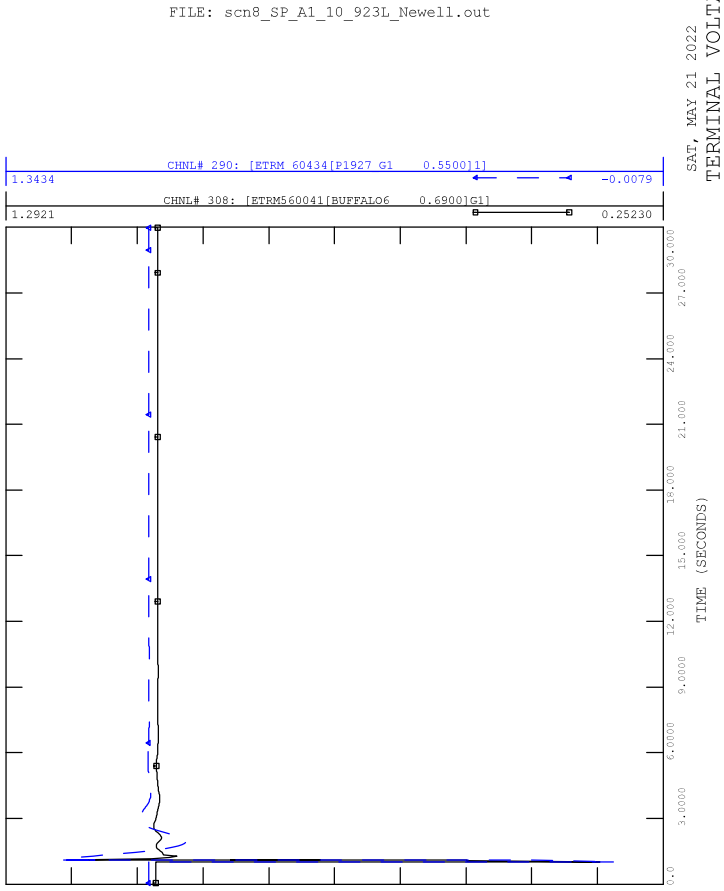
SAT, MAY 21 2022 1:18



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

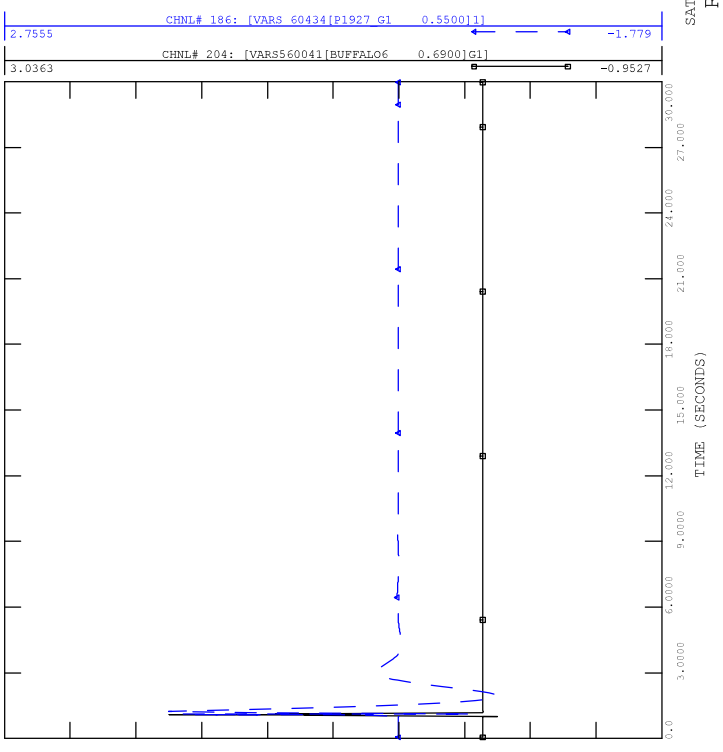
SAT, MAY 21 2022 1:18



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

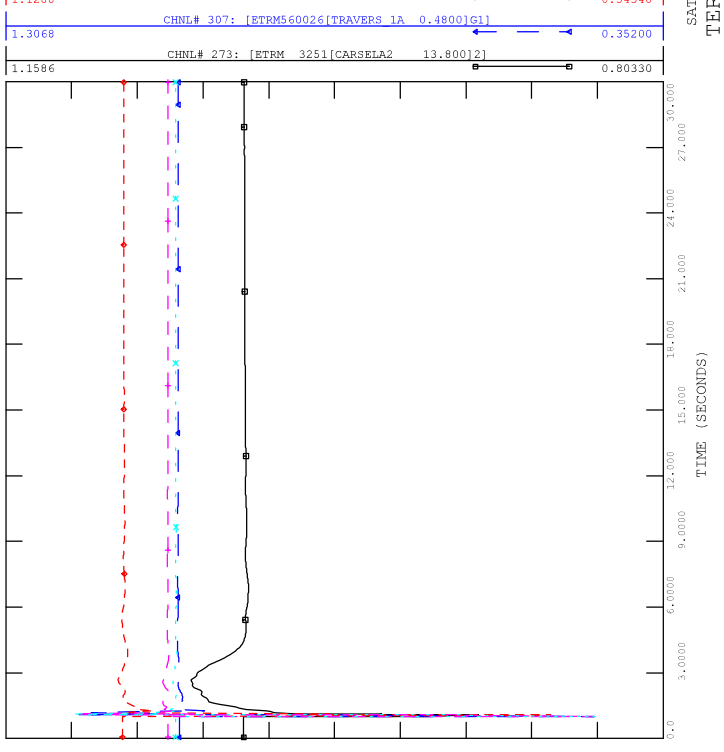
SAT, MAY 21 2022 1:18



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:18



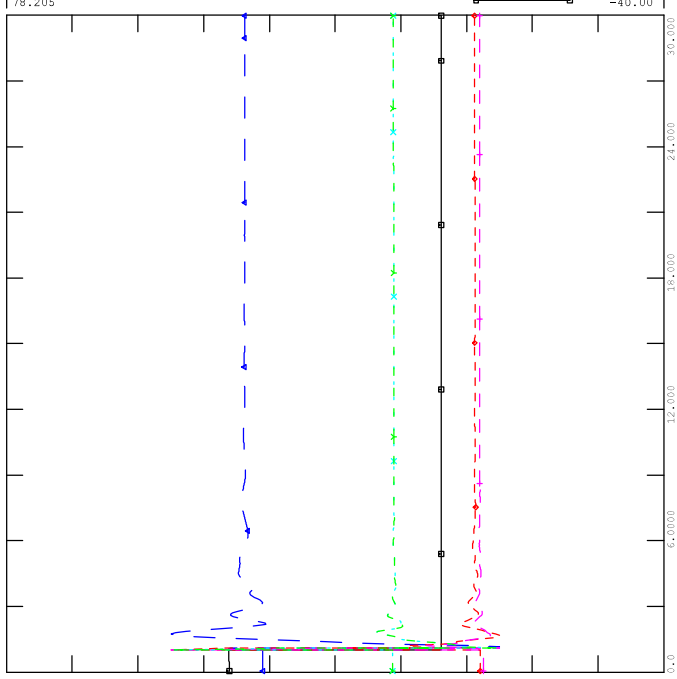
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

CHNL# 357: [1107L P]
-37.14 -627.4
CHNL# 335: [1106L P]
-37.07 -627.5
CHNL# 347: [1005L P]
56.267 -437.2
CHNL# 359: [1036L P]
-27.78 -344.0
CHNL# 351: [935L P]
398.21 -640.5
CHNL# 339: [923L P]
78.205 -40.00

SAT, MAY 21 2022 1:18
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000



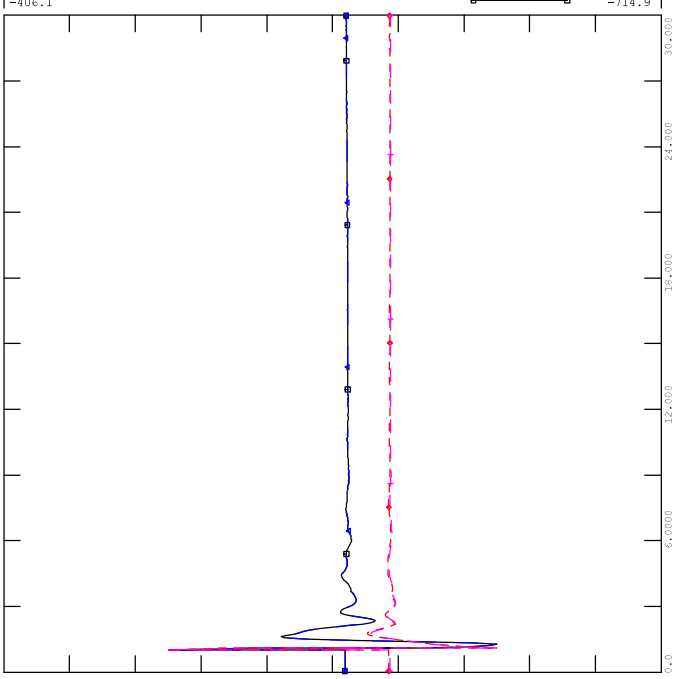
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

CHNL# 353: [927L_A1_1 P]
267.30 -1149.
CHNL# 371: [924L P]
311.09 -974.7
CHNL# 341: [1003L P]
-401.4 -706.8
CHNL# 365: [985L P]
-406.1 -714.9

SAT, MAY 21 2022 1:18
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000



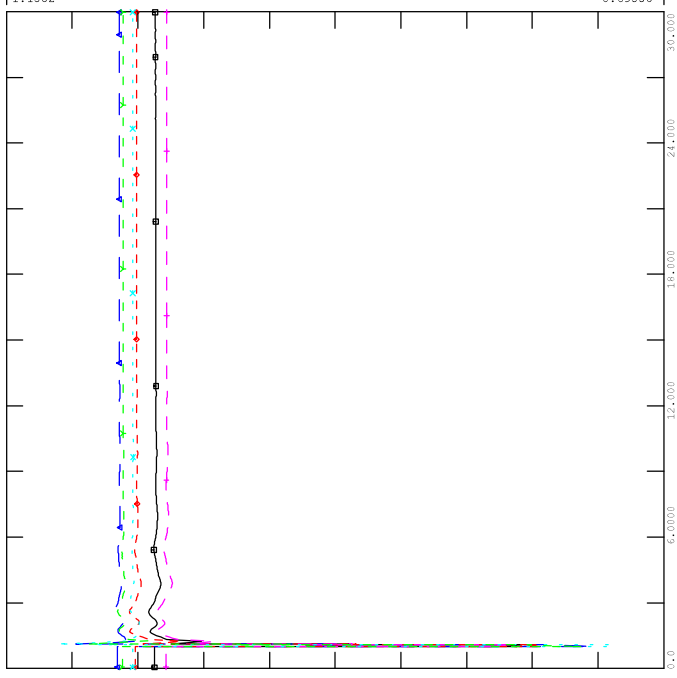
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

FILE: scn8_SP_A1_10_923L_Newell.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1636 0.35500
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.2970 -0.0113
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1638 0.72660
CHNL# 334: [VOLT 902378 [927L_TAP 240.00]]
1.1499 0.61600
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.2000 0.24720
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1582 0.69550

SAT, MAY 21 2022 1:18
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000



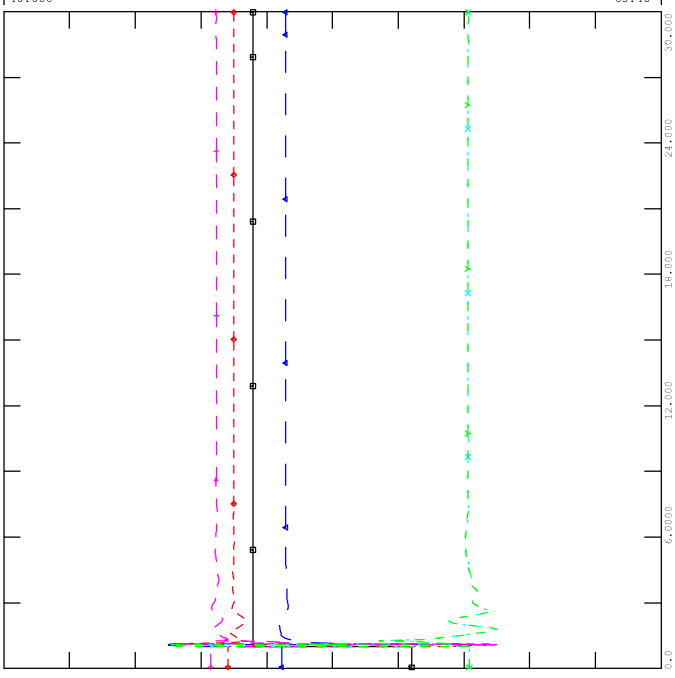
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL

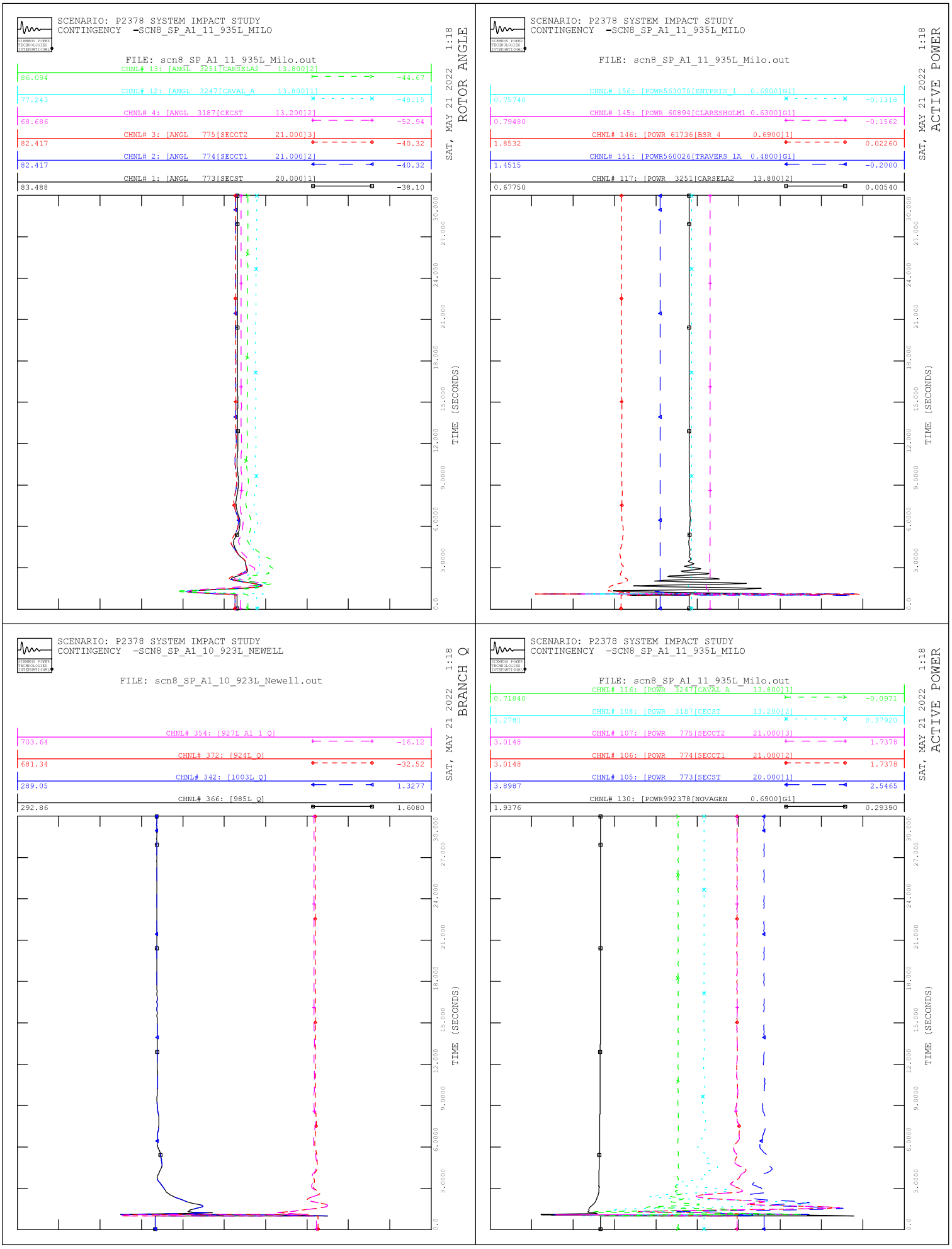
FILE: scn8_SP_A1_10_923L_Newell.out

CHNL# 358: [1107L Q]
298.80 93.258
CHNL# 336: [1106L Q]
298.92 93.385
CHNL# 348: [1005L Q]
248.66 -403.8
CHNL# 360: [1036L Q]
250.21 -228.6
CHNL# 352: [935L Q]
800.56 -1156.
CHNL# 340: [923L Q]
40.000 -65.48

SAT, MAY 21 2022 1:18
BRANCH Q

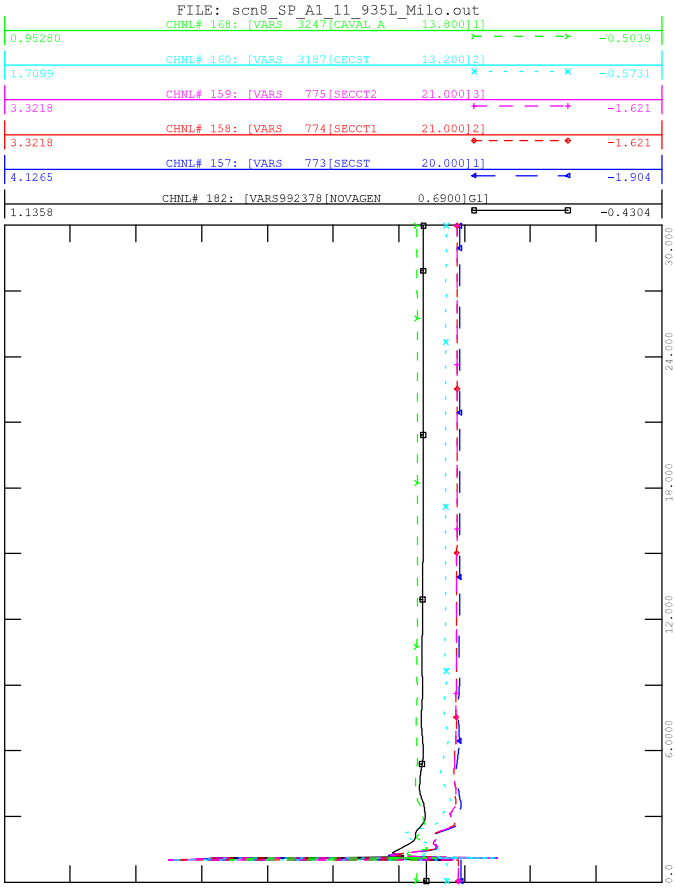
TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO
FILE: scn8_SP_A1_11_935L_Milo.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
86.094
-44.67
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
77.243
-48.15
CHNL# 4: [ANGL 3187[CECST 13.200]2]
68.686
-52.94
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
82.417
-40.32
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
82.417
-40.32
CHNL# 1: [ANGL 773[SECST 20.000]1]
83.488
-38.10
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO
FILE: scn8_SP_A1_11_935L_Milo.out
CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.75740
-0.1318
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.79480
-0.1562
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.8532
0.02260
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
1.4515
-0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.67750
0.00540
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_10_923L_NEWELL
FILE: scn8_SP_A1_10_923L_Newell.out
CHNL# 354: [927L A1 1 Q]
703.64
-16.12
CHNL# 372: [924L Q]
681.34
-32.52
CHNL# 342: [1003L Q]
289.05
1.3277
CHNL# 366: [985L Q]
292.86
1.6080
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO
FILE: scn8_SP_A1_11_935L_Milo.out
CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.71840
-0.0971
CHNL# 108: [POWR 3187[CECST 13.200]2]
1.2781
0.37920
CHNL# 107: [POWR 775[SECCT2 21.000]3]
3.0148
1.7378
CHNL# 106: [POWR 774[SECCT1 21.000]2]
3.0148
1.7378
CHNL# 105: [POWR 773[SECST 20.000]1]
3.8987
2.5465
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.9376
0.29390
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO

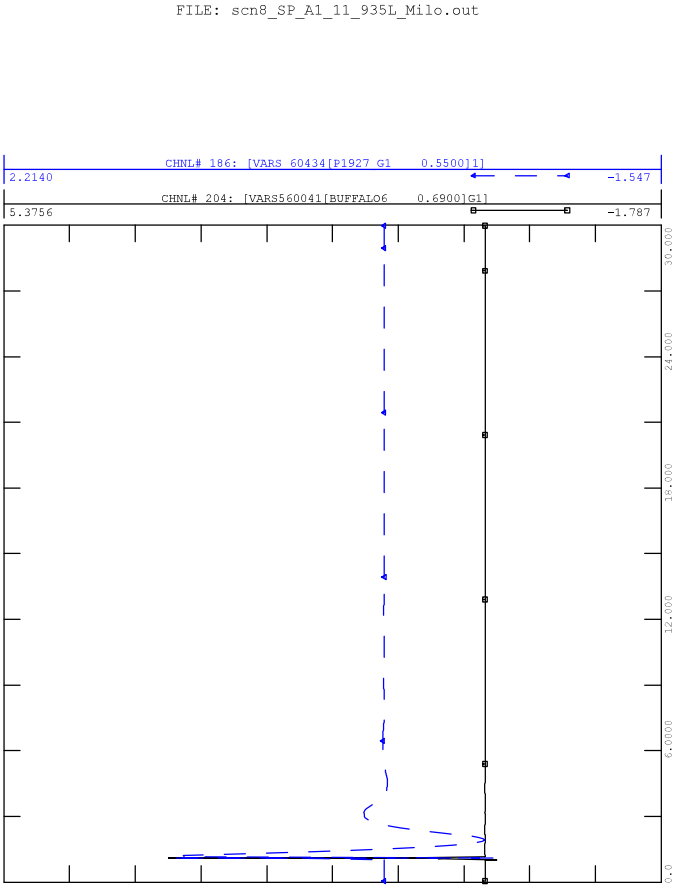
FILE: scn8_SP_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO

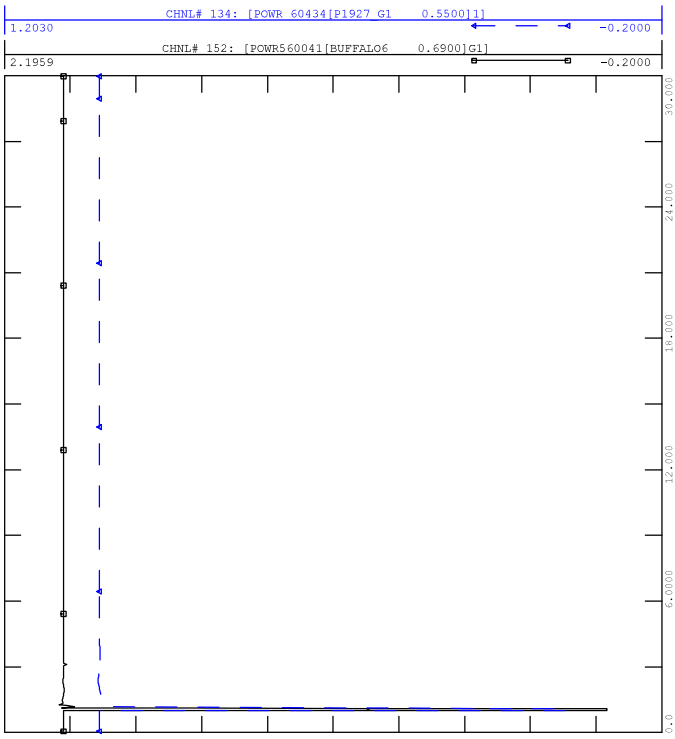
FILE: scn8_SP_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO

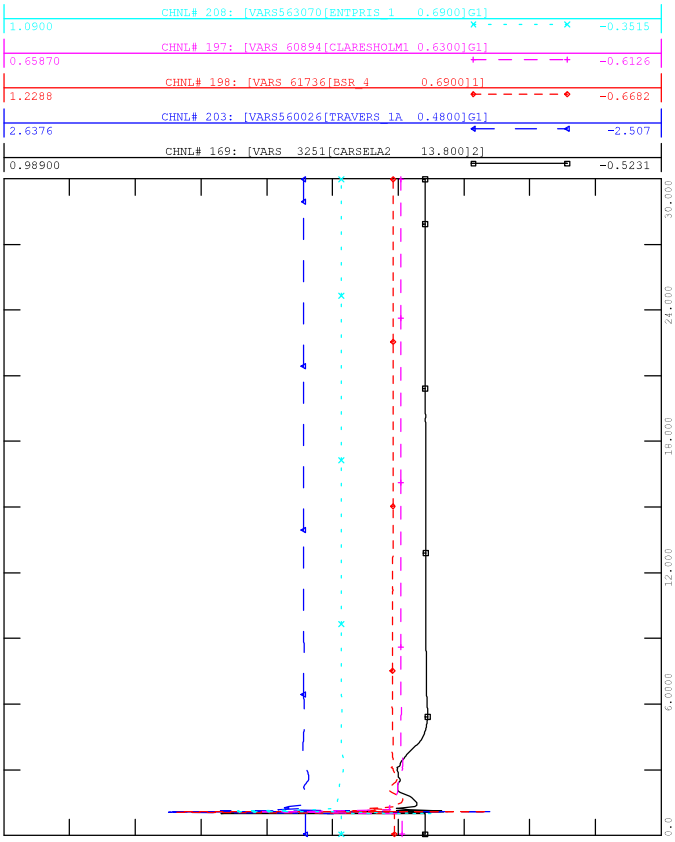
FILE: scn8_SP_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO

FILE: scn8_SP_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO

FILE: scn8_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:18

TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1]
1.3349 0.34300
CHNL# 301: [ETRM_60894[CLARESHOLM1 0.6300]G1]
1.2781 0.27310
CHNL# 302: [ETRM_61736[BSR_4 0.6900]1]
1.1449 0.34200
CHNL# 307: [ETRM560026[TRAVERS_1A 0.4800]G1]
1.4932 0.11030
CHNL# 273: [ETRM_3251[CARSELA2 13.800]2]
1.1618 0.73210

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO

FILE: scn8_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:18

BUS VOLTAGE

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1509 0.09150
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3253 0.25860
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1677 0.59540
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1542 0.43620
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.1998 -0.0906
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1607 0.54570

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO

FILE: scn8_SP_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:18

TERMINAL VOLTAGE

CHNL# 272: [ETRM_3247[CAVAL A 13.800]1]
1.1495 0.78320
CHNL# 264: [ETRM_3187[CECST 13.200]2]
1.1211 0.71490
CHNL# 263: [ETRM_775[SECCT2 21.000]3]
1.1197 0.65690
CHNL# 262: [ETRM_774[SECCT1 21.000]2]
1.1197 0.65690
CHNL# 261: [ETRM_773[SECST 20.000]1]
1.1204 0.66290
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.2088 0.45780

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO

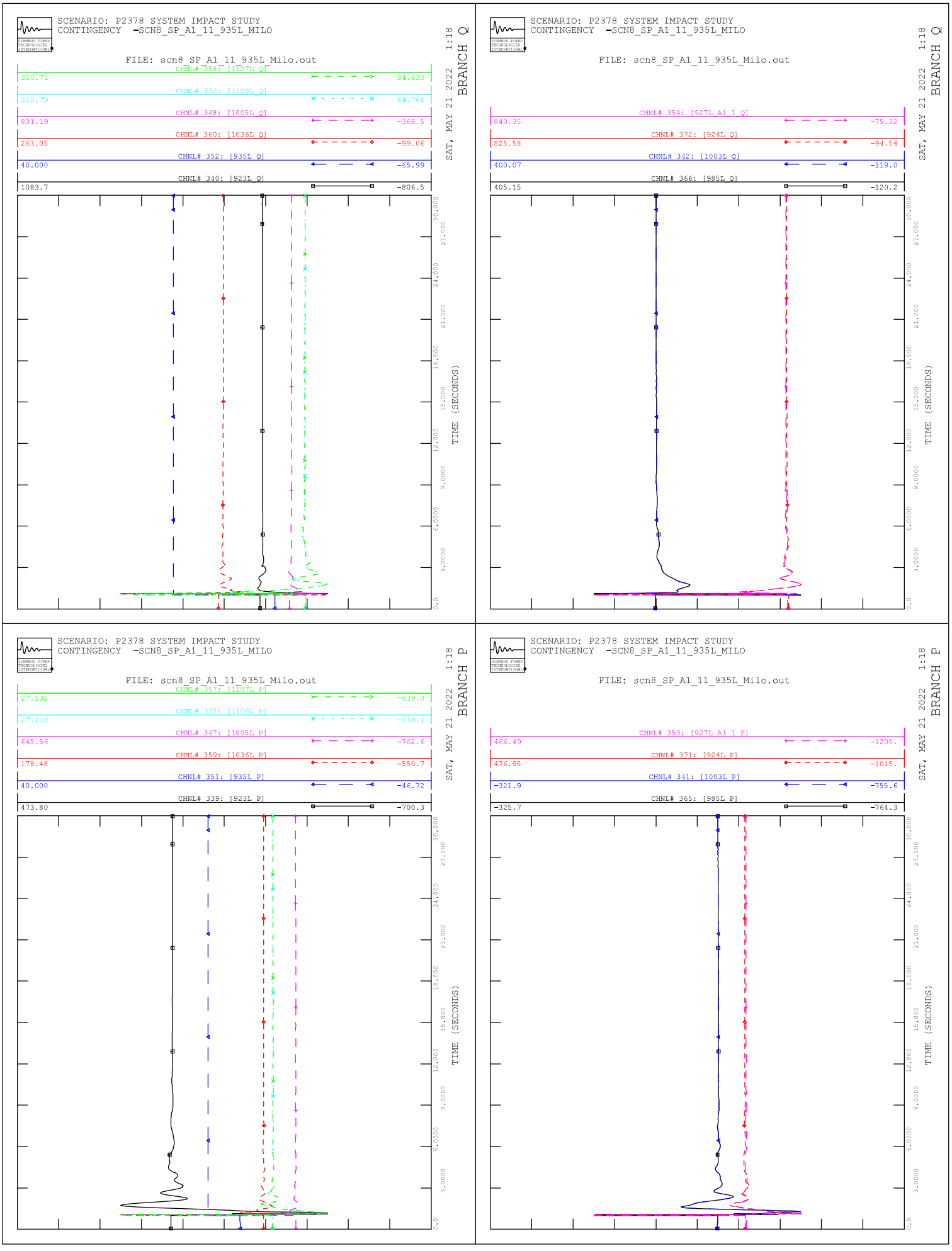
FILE: scn8_SP_A1_11_935L_Milo.out

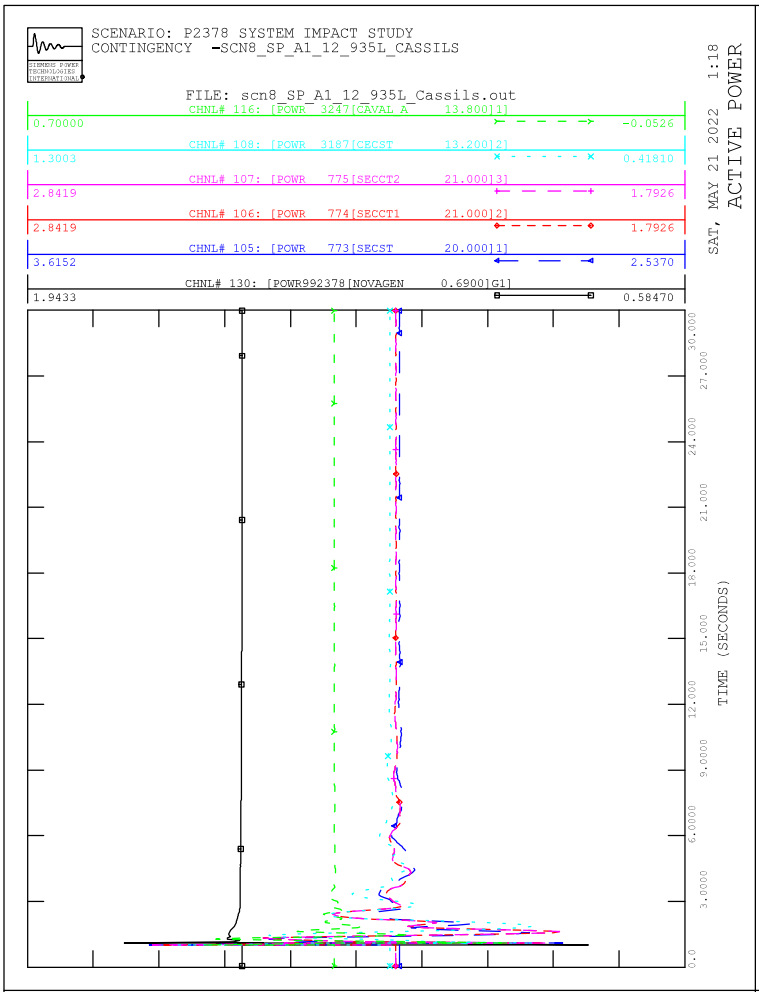
SAT, MAY 21 2022 1:18

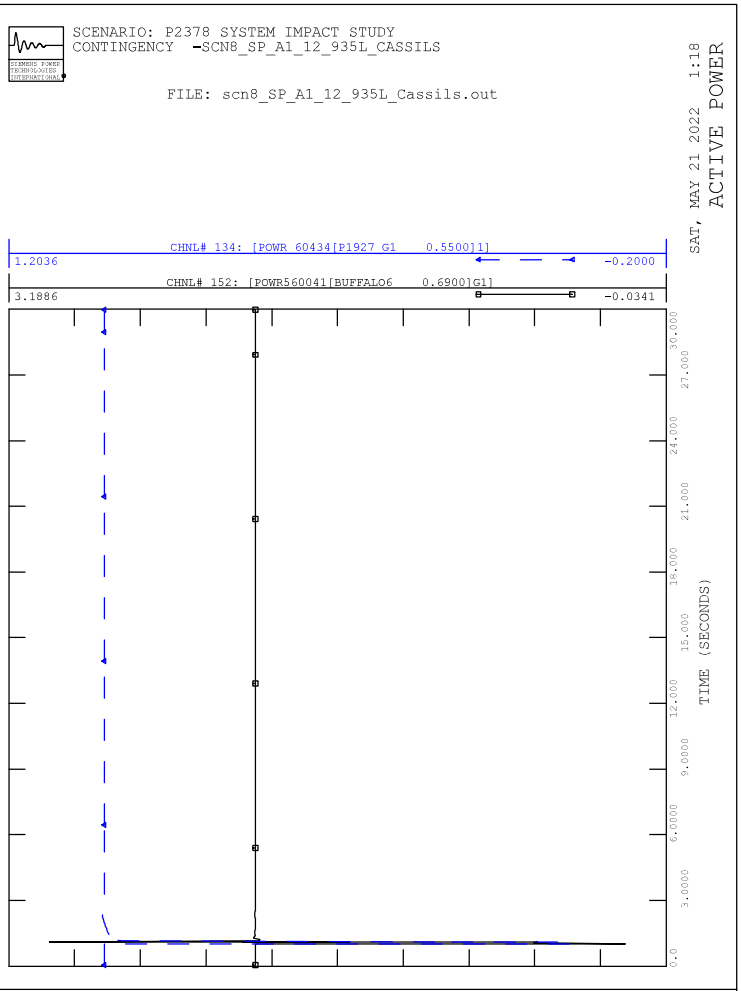
TERMINAL VOLTAGE

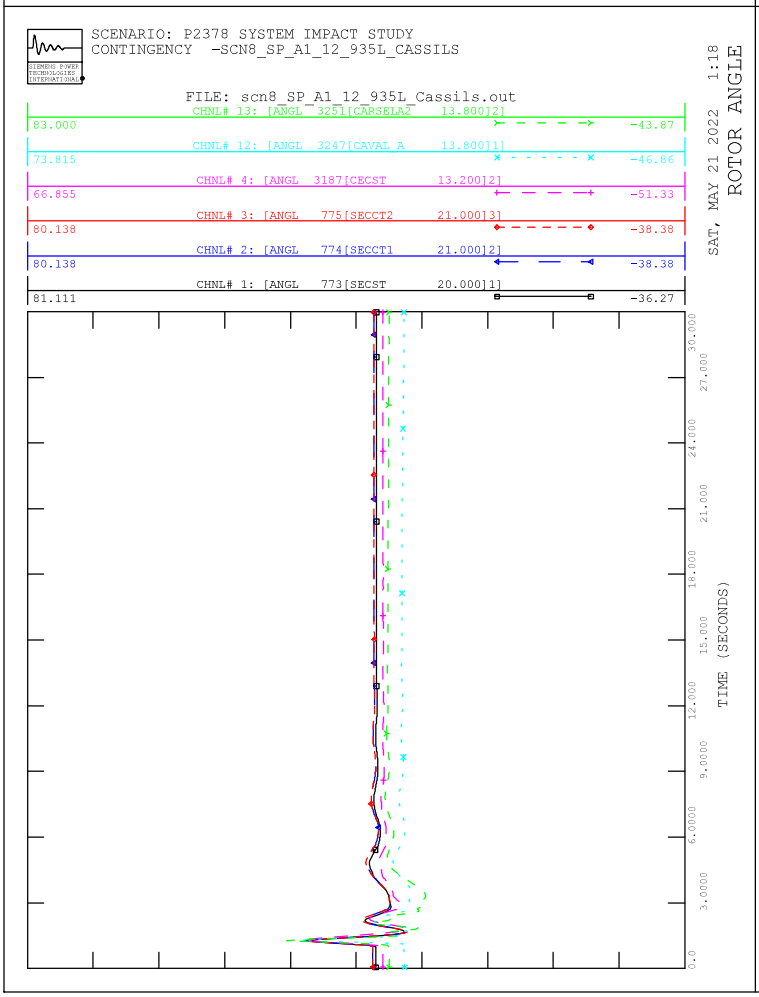
CHNL# 290: [ETRM_60434[P1927_G1 0.5500]1]
1.3000 0.26220
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.2664 -0.0734

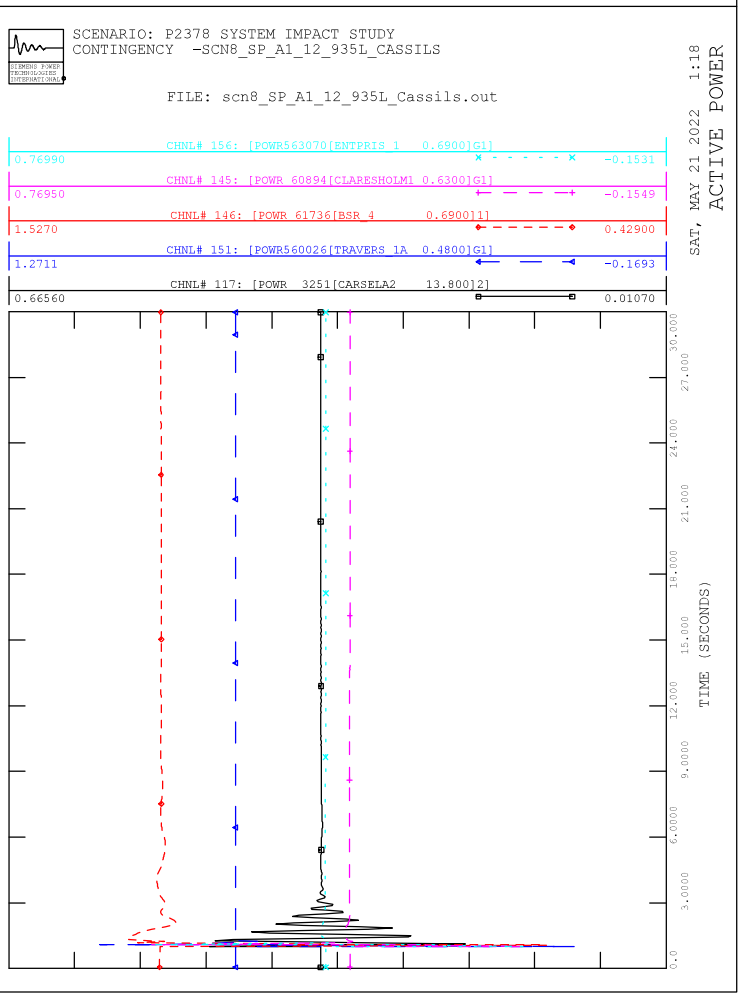
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO
FILE: scn8_SP_A1_11_935L_Milo.out
CHNL# 358: [1107L Q]
310.71
84.630
CHNL# 336: [1106L Q]
310.79
84.766
CHNL# 348: [1005L Q]
831.19
-366.5
CHNL# 360: [1036L Q]
263.05
-99.06
CHNL# 352: [935L Q]
40.000
-65.99
CHNL# 340: [923L Q]
1083.7
-806.5
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:18
BRANCH Q
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO
FILE: scn8_SP_A1_11_935L_Milo.out
CHNL# 354: [927L A1_1 Q]
840.35
-75.32
CHNL# 372: [924L Q]
825.58
-94.54
CHNL# 342: [1003L Q]
400.07
-119.0
CHNL# 366: [985L Q]
405.15
-120.2
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:18
BRANCH Q
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO
FILE: scn8_SP_A1_11_935L_Milo.out
CHNL# 357: [1107L P]
27.132
-639.0
CHNL# 335: [1106L P]
27.210
-639.1
CHNL# 347: [1005L P]
645.56
-762.6
CHNL# 359: [1036L P]
178.48
-550.7
CHNL# 351: [935L P]
40.000
-46.72
CHNL# 339: [923L P]
473.80
-700.3
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:18
BRANCH P
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_11_935L_MILO
FILE: scn8_SP_A1_11_935L_Milo.out
CHNL# 353: [927L A1_1 P]
466.49
-1200.
CHNL# 371: [924L P]
476.95
-1015.
CHNL# 341: [1003L P]
-321.9
-755.6
CHNL# 365: [985L P]
-325.7
-764.3
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:18
BRANCH P


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS
FILE: scn8_SP_A1_12_935L_Cassils.out
CHNL# 116: [POWR 3247[CAVAL A 13.800]1] 0.70000 -0.0526
CHNL# 108: [POWR 3187[CECST 13.200]2] 1.3003 0.41810
CHNL# 107: [POWR 775[SECCT2 21.000]3] 2.8419 1.7926
CHNL# 106: [POWR 774[SECCT1 21.000]2] 2.8419 1.7926
CHNL# 105: [POWR 773[SECST 20.000]1] 3.6152 2.5370
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1] 1.9433 0.58470
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS
FILE: scn8_SP_A1_12_935L_Cassils.out
CHNL# 134: [POWR 60434[P1927 G1 0.5500]1] 1.2036 -0.2000
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1] 3.1886 -0.0341
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS
FILE: scn8_SP_A1_12_935L_Cassils.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2] 83.000 -43.87
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 73.815 -46.86
CHNL# 4: [ANGL 3187[CECST 13.200]2] 66.855 -51.33
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 80.138 -38.38
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 80.138 -38.38
CHNL# 1: [ANGL 773[SECST 20.000]1] 81.111 -36.27
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS
FILE: scn8_SP_A1_12_935L_Cassils.out
CHNL# 156: [POWR563070[ENTPRIS 1 0.6900]G1] 0.76990 -0.1531
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.76950 -0.1549
CHNL# 146: [POWR 61736[BSR 4 0.6900]1] 1.5270 0.42900
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1] 1.2711 -0.1693
CHNL# 117: [POWR 3251[CARSELA2 13.800]2] 0.66560 0.01070
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS

FILE: scn8_SP_A1_12_935L_Cassils.out

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1]
1.1875 -0.3769
CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.63290 -0.6114
CHNL# 198: [VARS 61736[BSR_4 0.6900]1]
1.1717 -0.4147
CHNL# 203: [VARS560026[TRAVERS 1A 0.4800]G1]
2.4665 -0.6699
CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
0.87750 -0.5073

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS

FILE: scn8_SP_A1_12_935L_Cassils.out

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1466 0.83370
CHNL# 264: [ETRM 3187[CECST 13.200]2]
1.1157 0.77630
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1141 0.74080
CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1141 0.74080
CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1144 0.74510
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.1609 0.60310

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS

FILE: scn8_SP_A1_12_935L_Cassils.out

CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
0.84510 -0.4770
CHNL# 160: [VARS 3187[CECST 13.200]2]
1.3938 -0.4339
CHNL# 159: [VARS 775[SECCT2 21.000]3]
2.4320 -1.084
CHNL# 158: [VARS 774[SECCT1 21.000]2]
2.4320 -1.084
CHNL# 157: [VARS 773[SECST 20.000]1]
3.0305 -1.253
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
0.84470 -0.4122

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

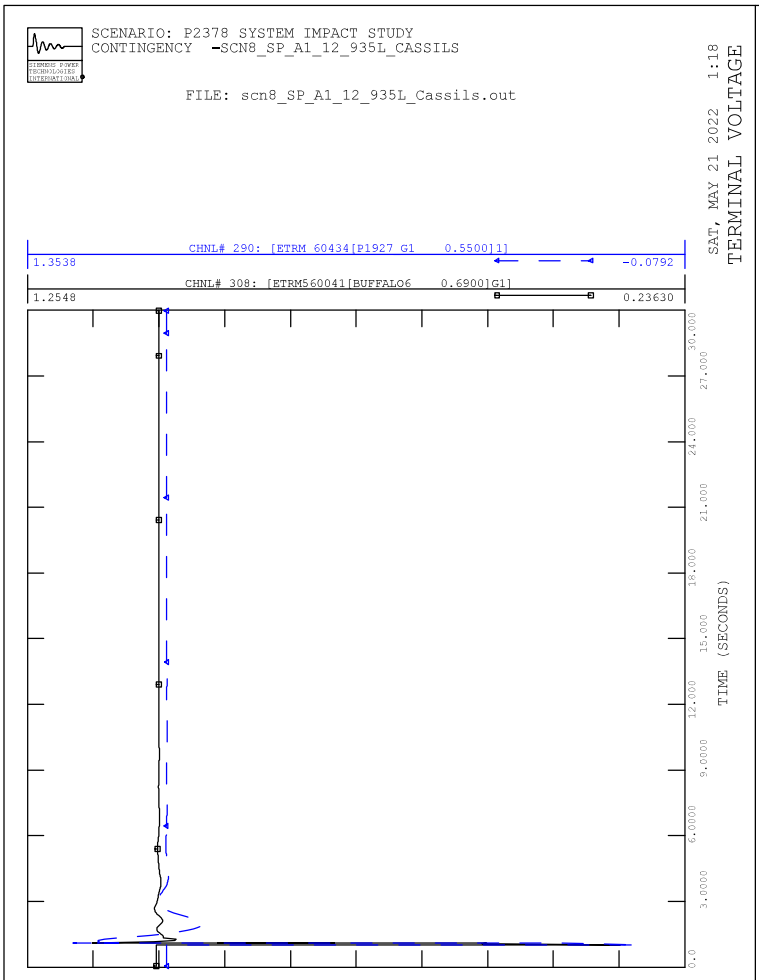
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS

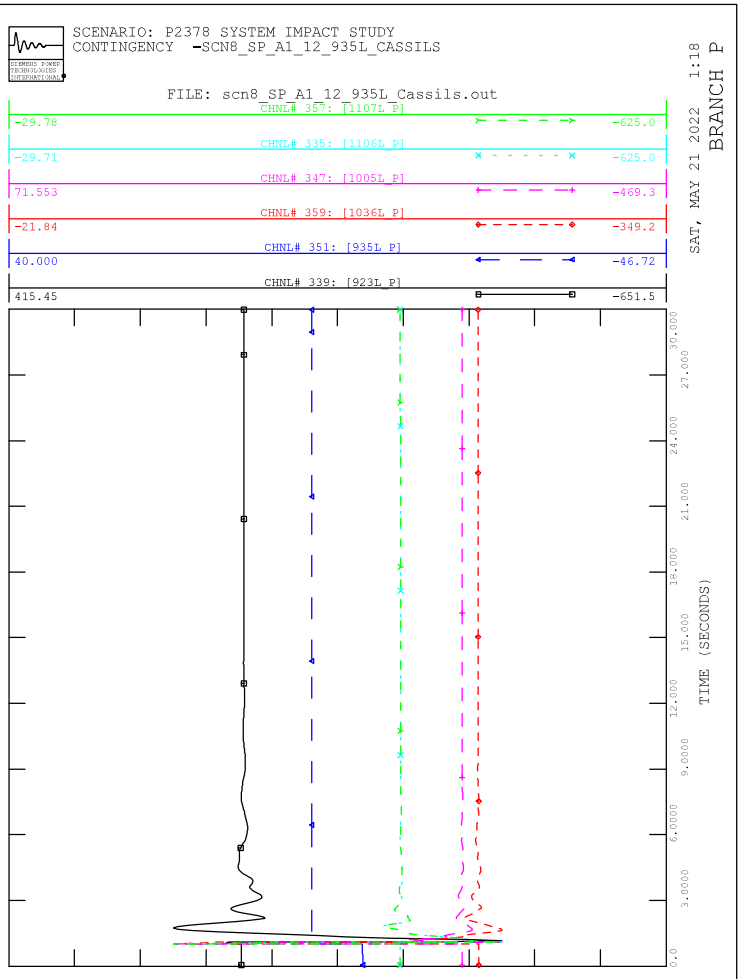
FILE: scn8_SP_A1_12_935L_Cassils.out

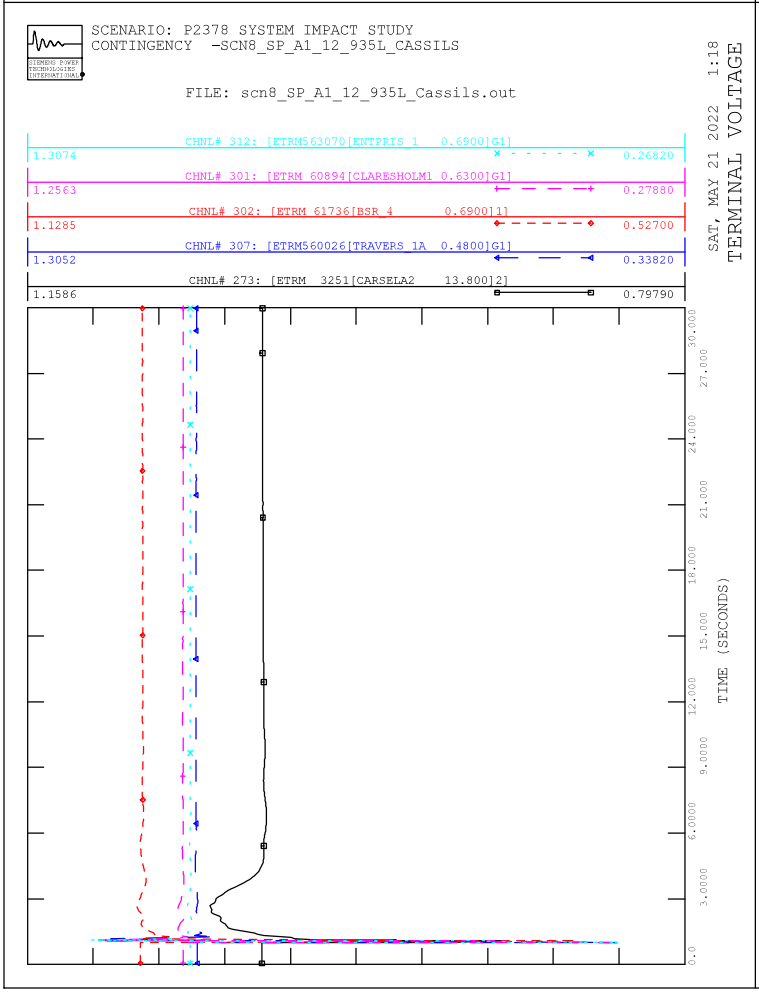
CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
2.8249 -1.810
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
3.1981 -1.009

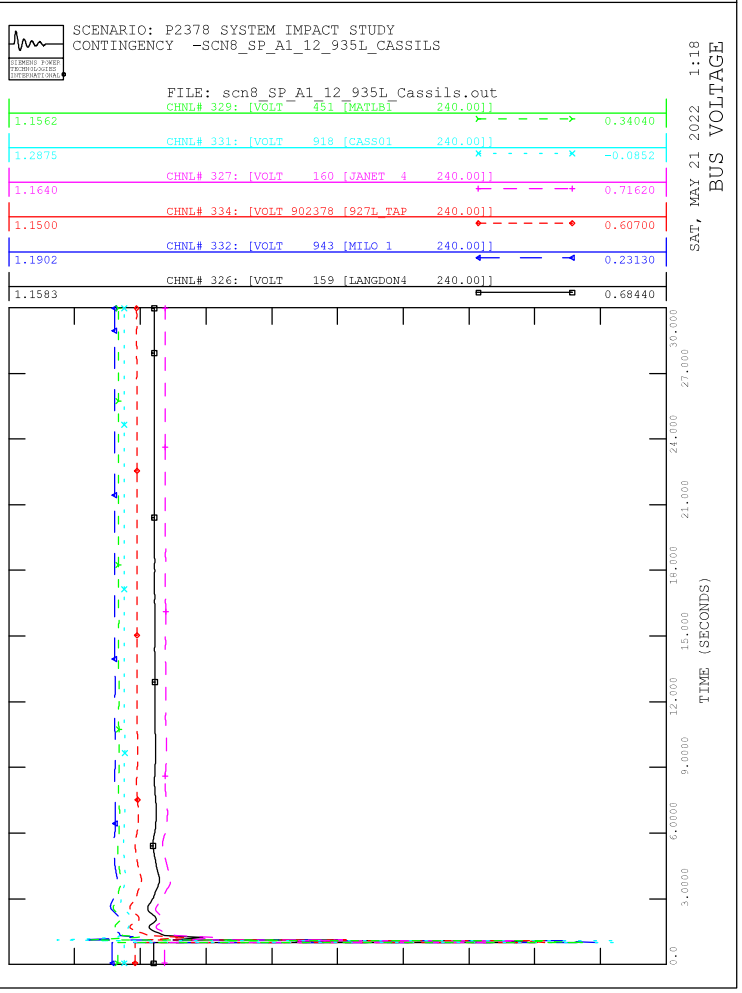
SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS
FILE: scn8_SP_A1_12_935L_Cassils.out
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
1.3538
-0.0792
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.2548
0.23630
TIME (SECONDS)

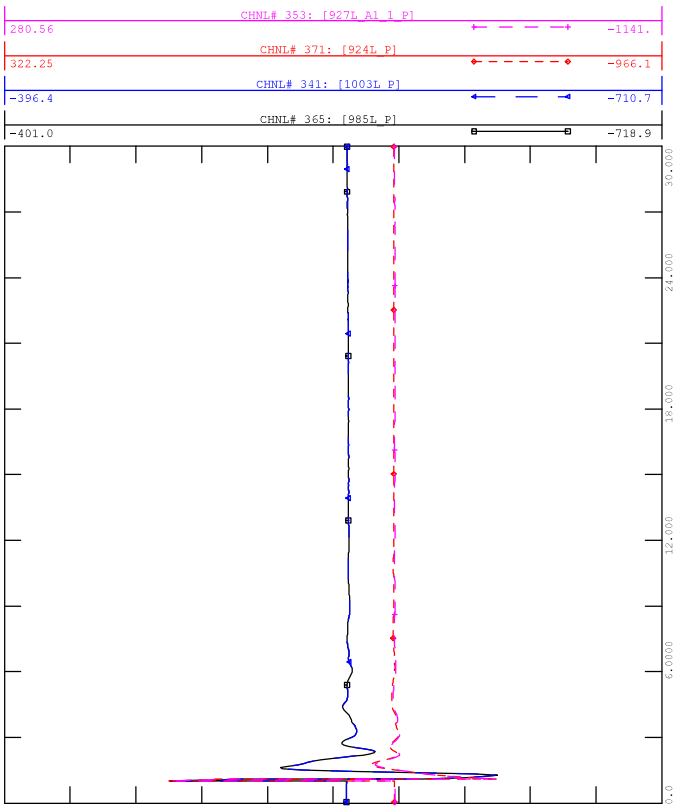

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS
FILE: scn8_SP_A1_12_935L_Cassils.out
SAT, MAY 21 2022 1:18
BRANCH P
CHNL# 357: [1107L P]
-29.78
-625.0
CHNL# 335: [1106L P]
-29.71
-625.0
CHNL# 347: [1005L P]
71.553
-469.3
CHNL# 359: [1036L P]
-21.84
-349.2
CHNL# 351: [935L P]
40.000
-46.72
CHNL# 339: [923L P]
415.45
-651.5
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS
FILE: scn8_SP_A1_12_935L_Cassils.out
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3074
0.26820
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2563
0.27880
CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1285
0.52700
CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3052
0.33820
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1586
0.79790
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS
FILE: scn8_SP_A1_12_935L_Cassils.out
SAT, MAY 21 2022 1:18
BUS VOLTAGE
CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1562
0.34040
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.2875
-0.0852
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1640
0.71620
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1500
0.60700
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.1902
0.23130
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1583
0.68440
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS

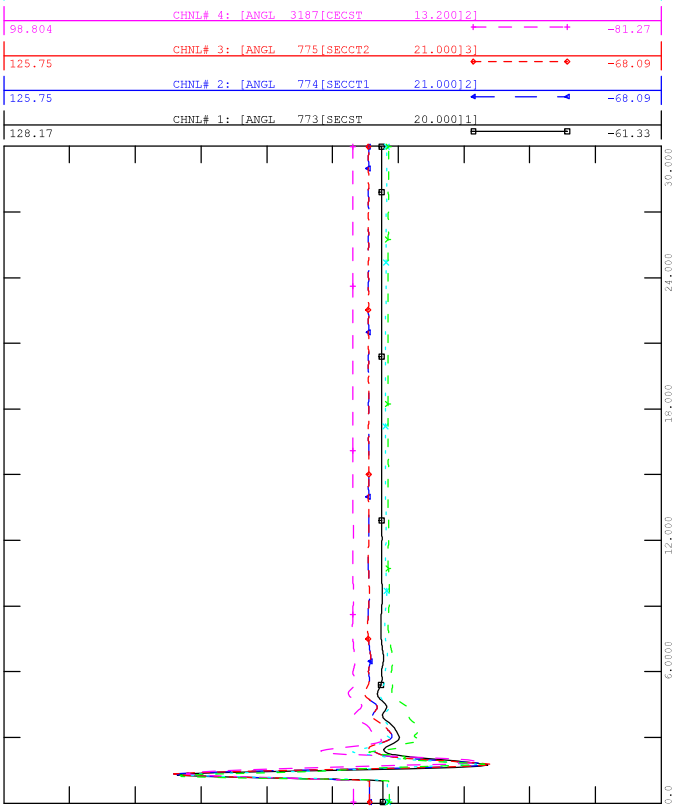
FILE: scn8_SP_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

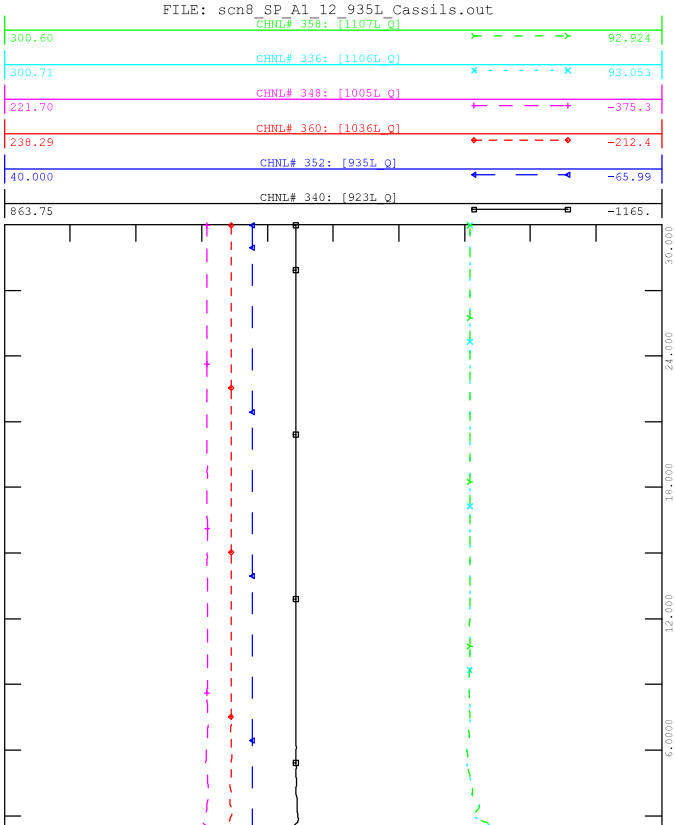
FILE: scn8_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS

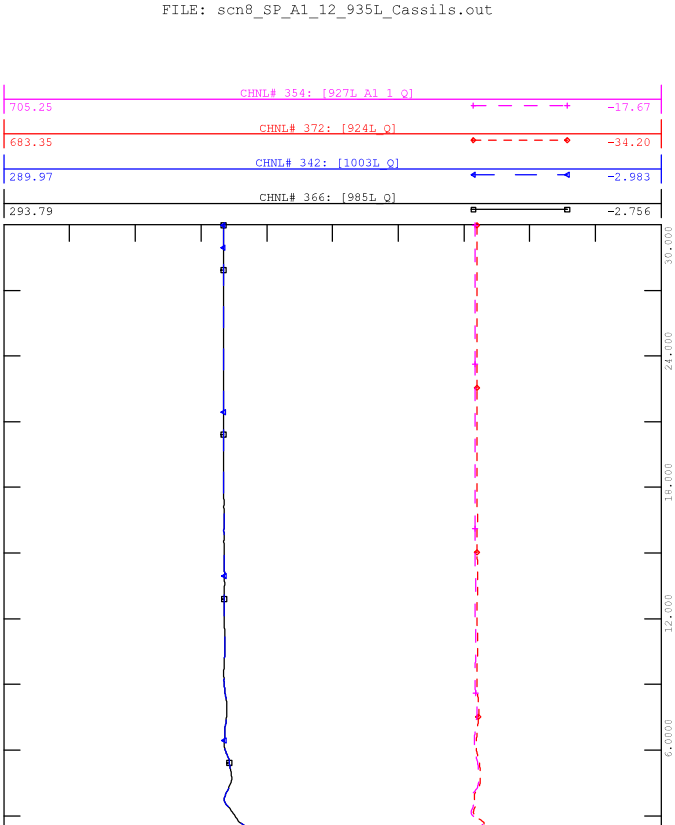
FILE: scn8_SP_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_12_935L_CASSILS

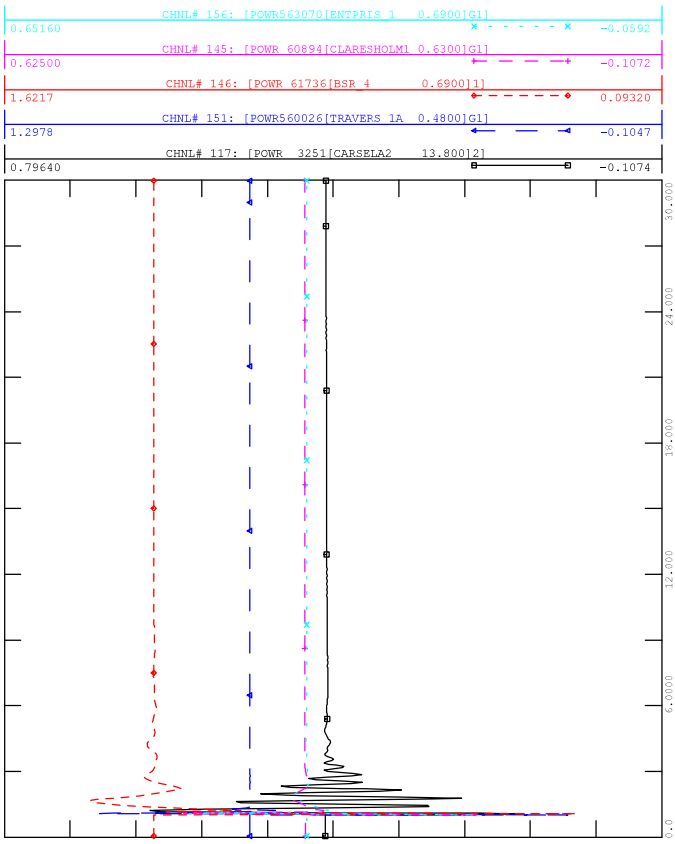
FILE: scn8_SP_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

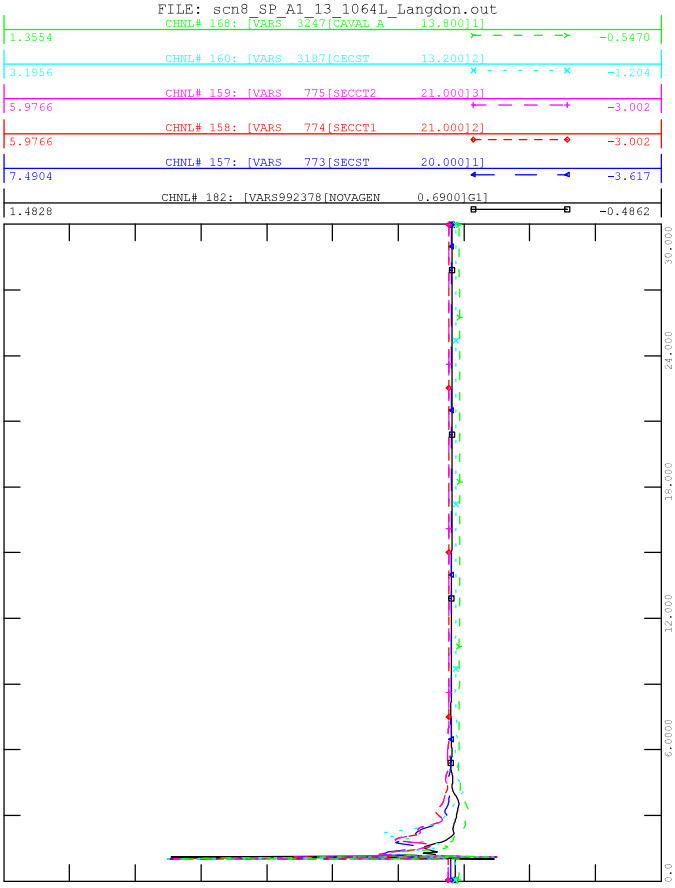
FILE: scn8_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

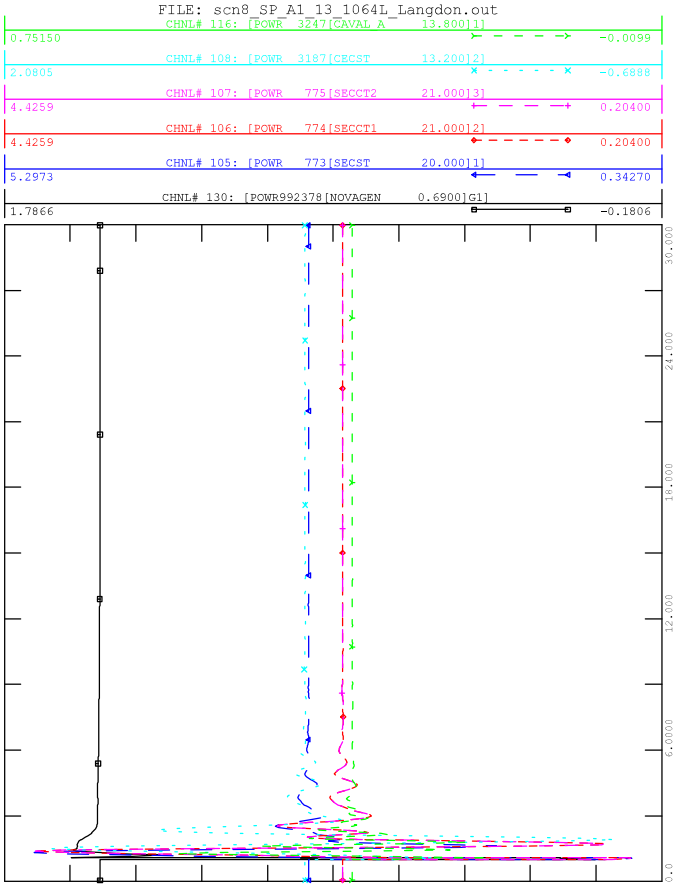
FILE: scn8_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

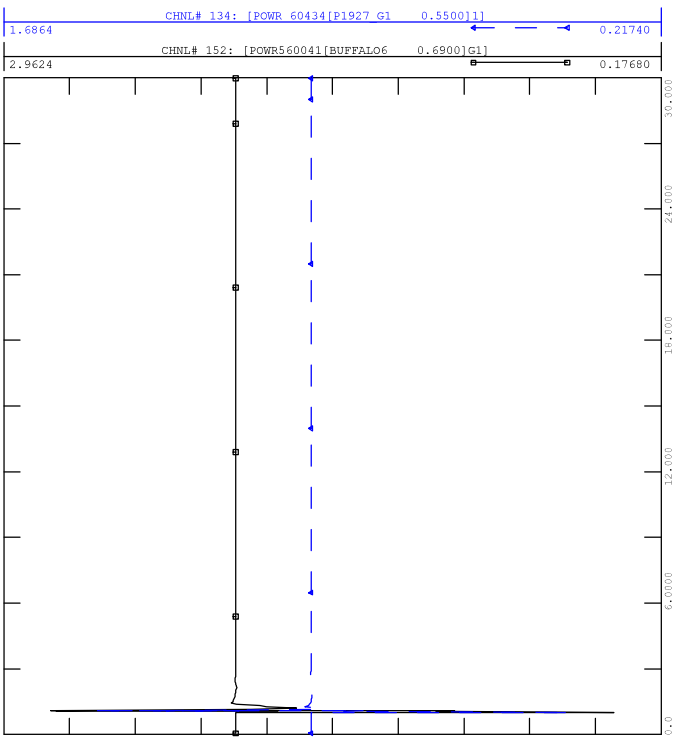
FILE: scn8_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

FILE: scn8_SP_A1_13_1064L_Langdon.out

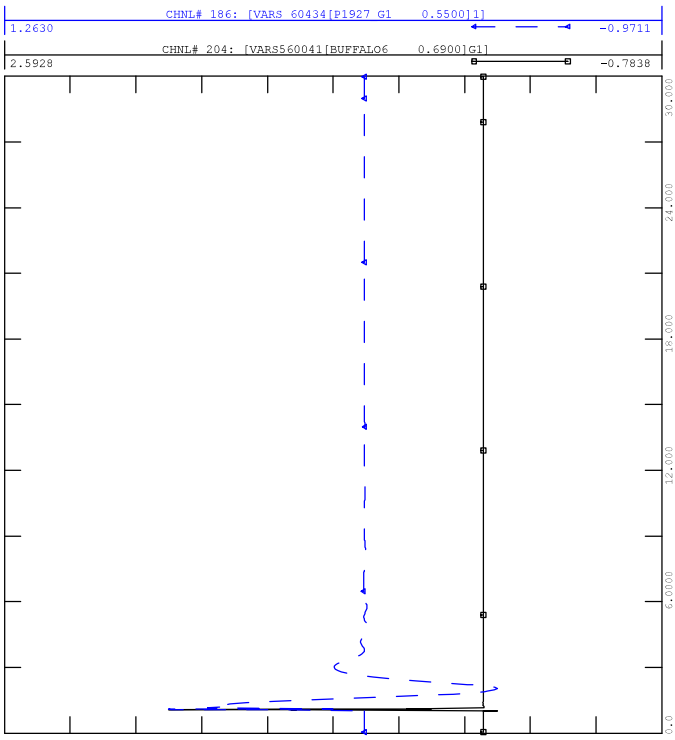


SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

FILE: scn8_SP_A1_13_1064L_Langdon.out

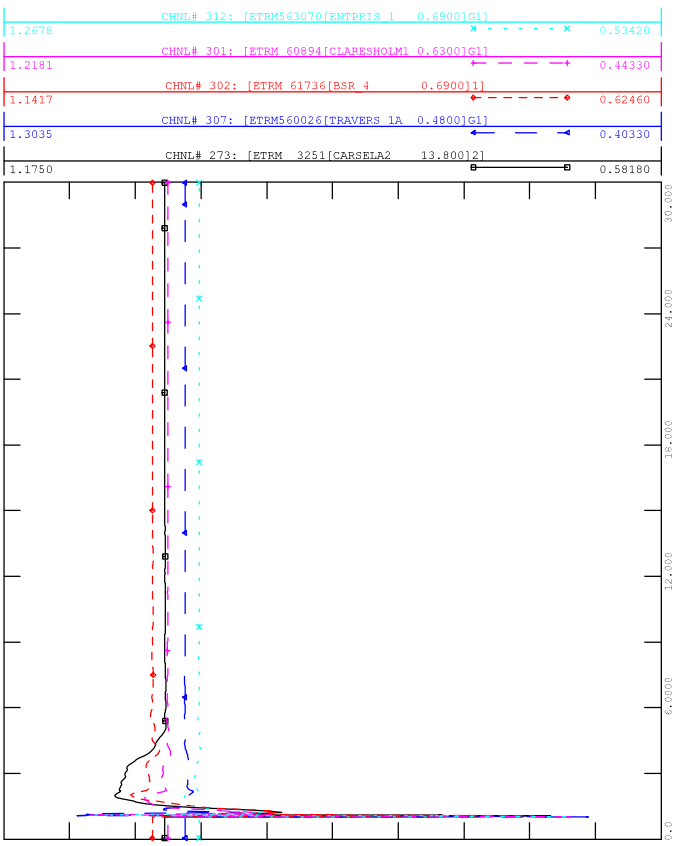
SAT, MAY 21 2022 1:18
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

FILE: scn8_SP_A1_13_1064L_Langdon.out

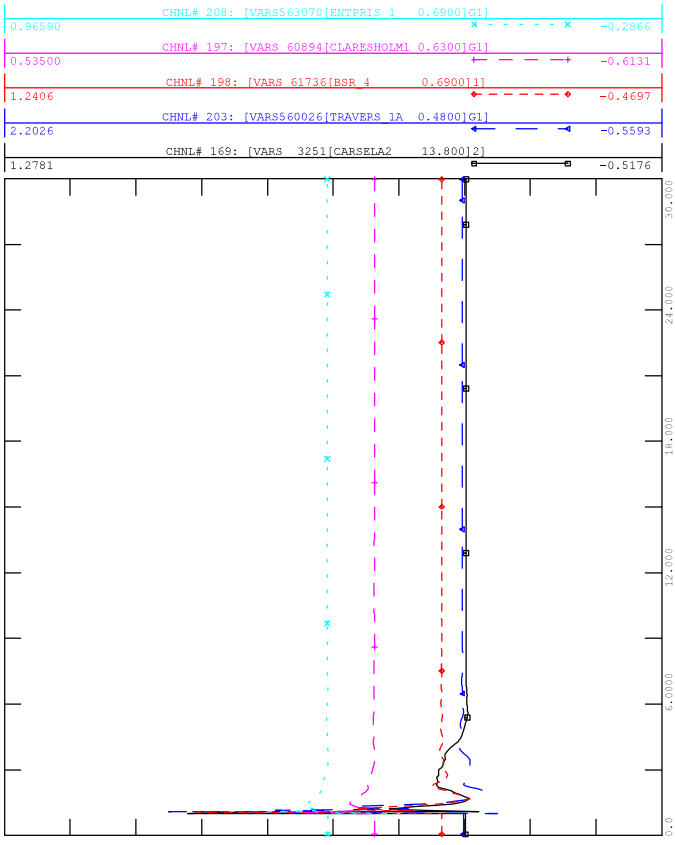
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

FILE: scn8_SP_A1_13_1064L_Langdon.out

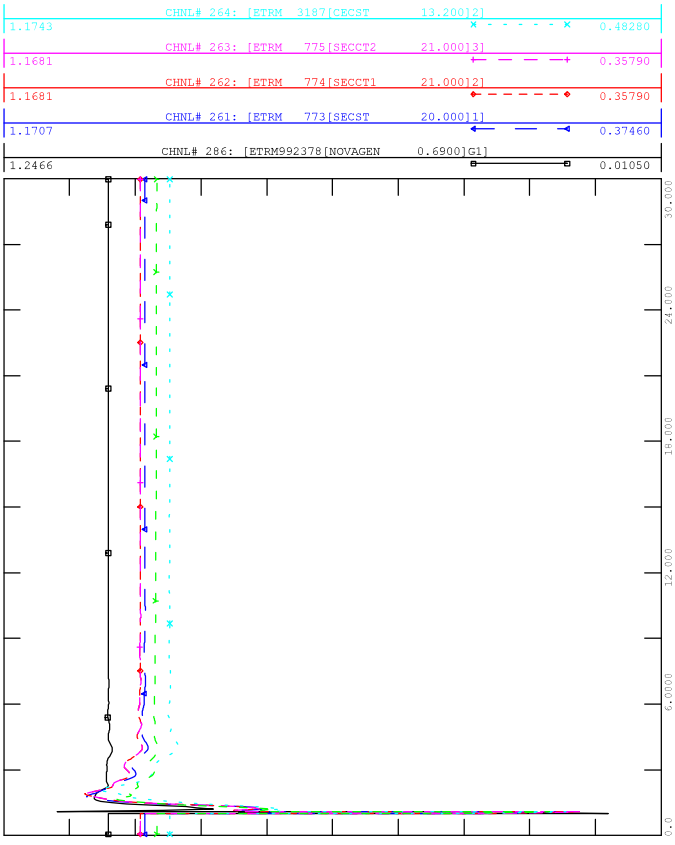
SAT, MAY 21 2022 1:18
REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

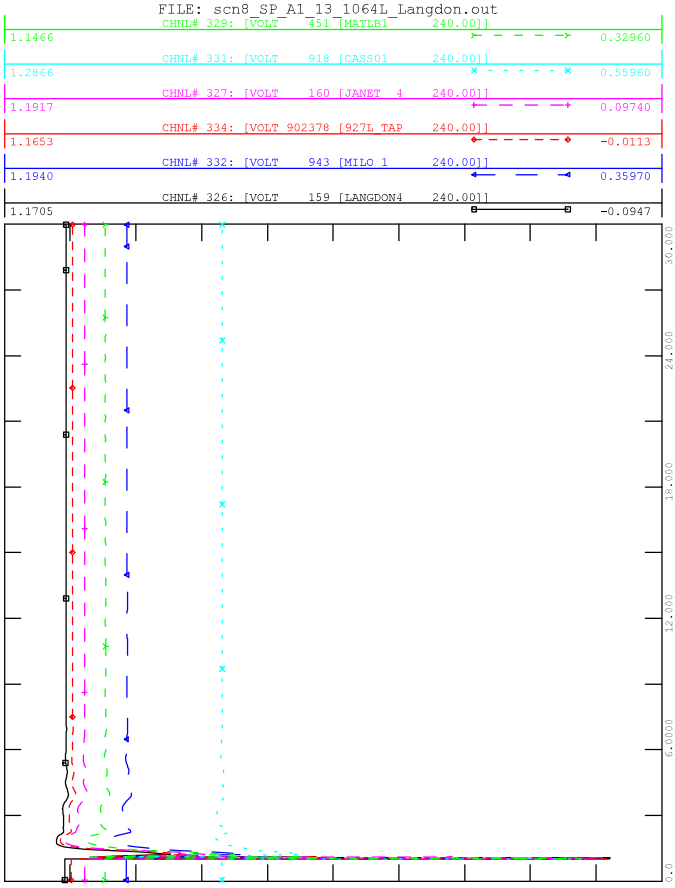
FILE: scn8_SP_A1_13_1064L_Langdon.out

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

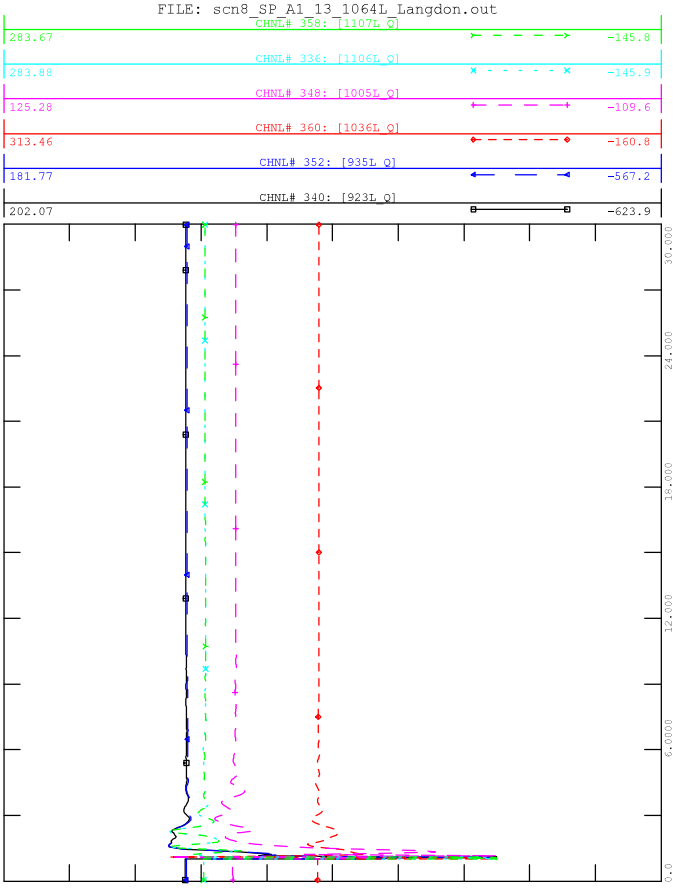
FILE: scn8_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:18
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

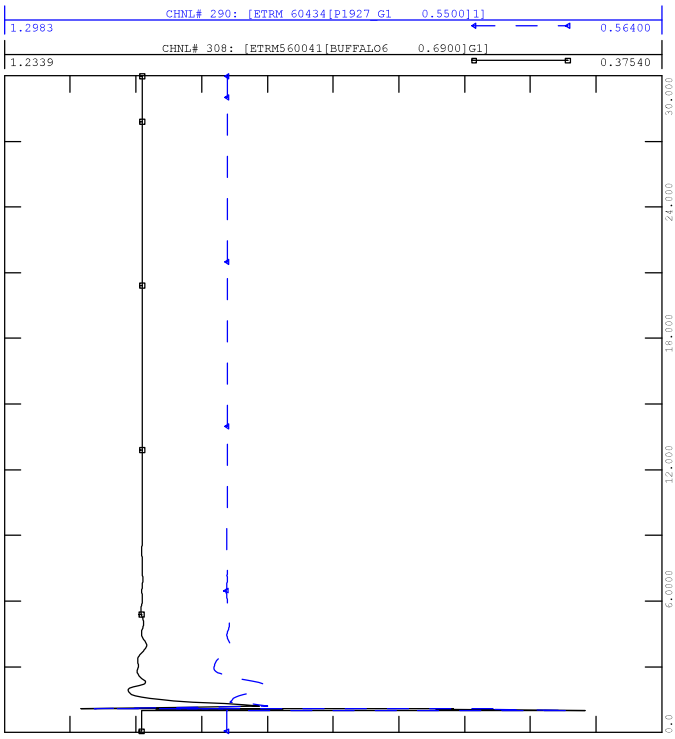
FILE: scn8_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

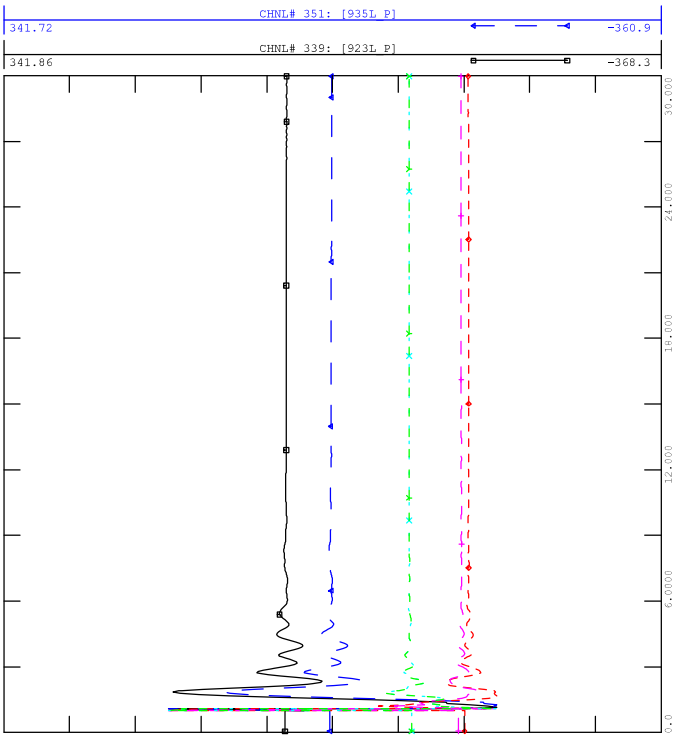
FILE: scn8_SP_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

FILE: scn8_SP_A1_13_1064L_Langdon.out

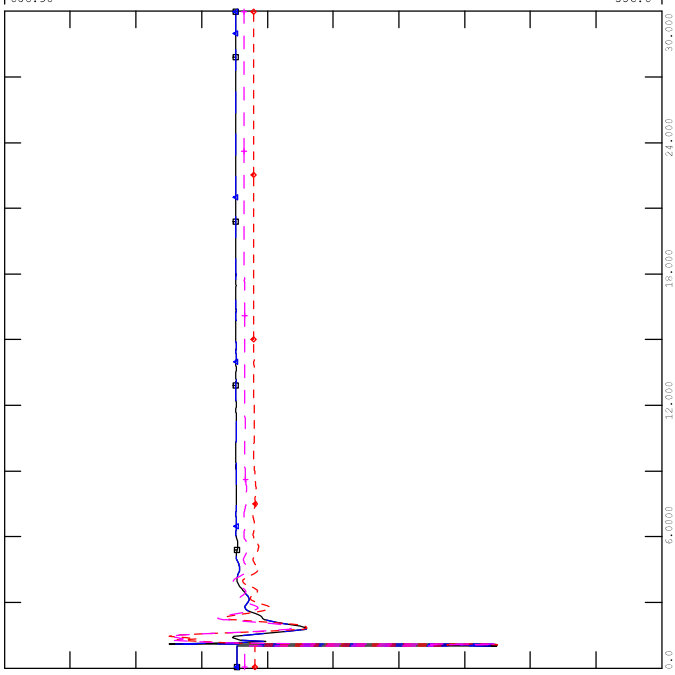


SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

FILE: scn8_SP_A1_13_1064L_Langdon.out

CHNL# 354: [927L A1 1 Q]
421.72 -230.3
CHNL# 372: [924L Q]
376.91 -185.5
CHNL# 342: [1003L Q]
599.43 -550.3
CHNL# 366: [985L Q]
606.90 -556.6



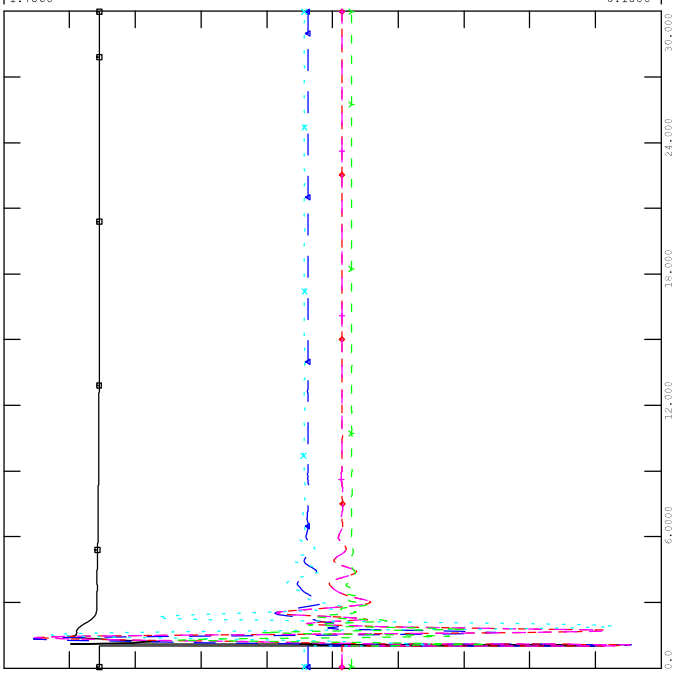
TIME (SECONDS)

SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

FILE: scn8_SP_A1_14_1065L_Langdon.out

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.75150 -0.0099
CHNL# 108: [POWR 3187[CECST 13.200]2]
2.0805 -0.6888
CHNL# 107: [POWR 775[SECCT2 21.000]3]
4.4259 0.20400
CHNL# 106: [POWR 774[SECCT1 21.000]2]
4.4259 0.20400
CHNL# 105: [POWR 773[SECST 20.000]1]
5.2973 0.34270
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.7866 -0.1806



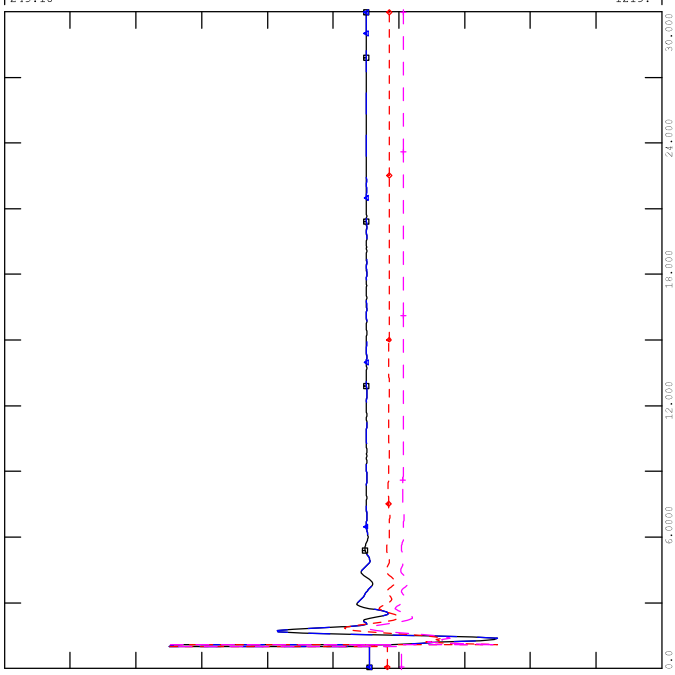
TIME (SECONDS)

SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_13_1064L_LANGDON

FILE: scn8_SP_A1_13_1064L_Langdon.out

CHNL# 353: [927L A1 1 P]
393.61 -1192.
CHNL# 371: [924L P]
327.90 -994.7
CHNL# 341: [1003L P]
246.58 -1205.
CHNL# 365: [985L P]
249.18 -1219.



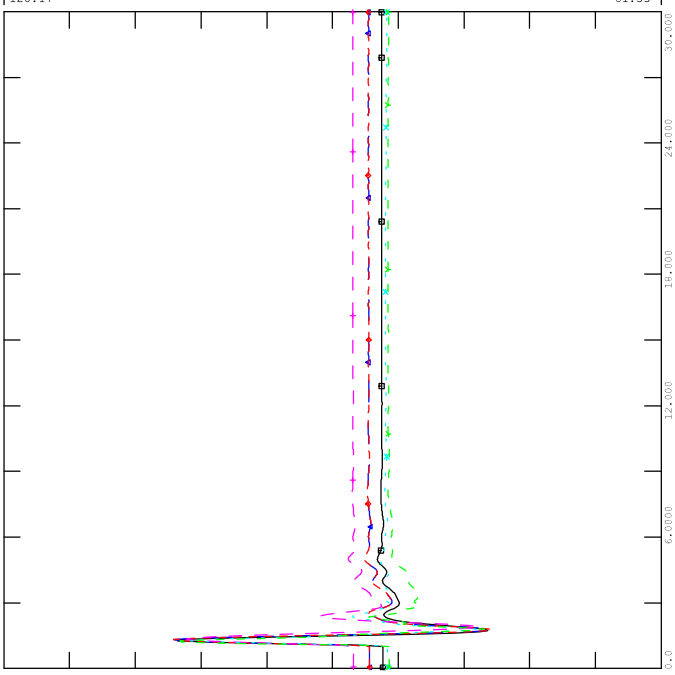
TIME (SECONDS)

SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

FILE: scn8_SP_A1_14_1065L_Langdon.out

CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2]
122.39 -63.92
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
108.24 -69.31
CHNL# 4: [ANGL 3187[CECST 13.200]2]
98.804 -81.27
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
125.75 -68.09
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
125.75 -68.09
CHNL# 1: [ANGL 773[SECST 20.000]1]
128.17 -61.33



TIME (SECONDS)

SAT, MAY 21 2022 1:18
ROTOR ANGLE

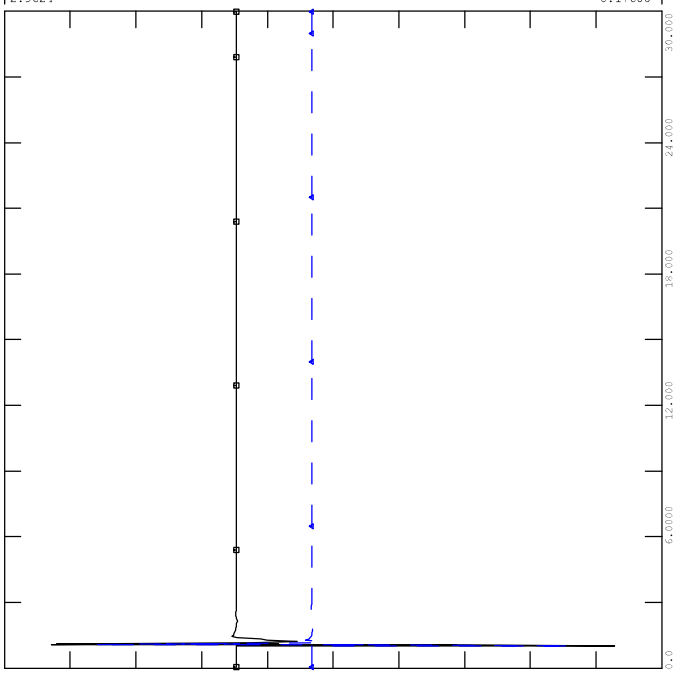
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

FILE: scn8_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 134: [POWR 60434[P1927 G1 0.5500]1] 1.6864 0.21740
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1] 2.9624 0.17680

TIME (SECONDS)



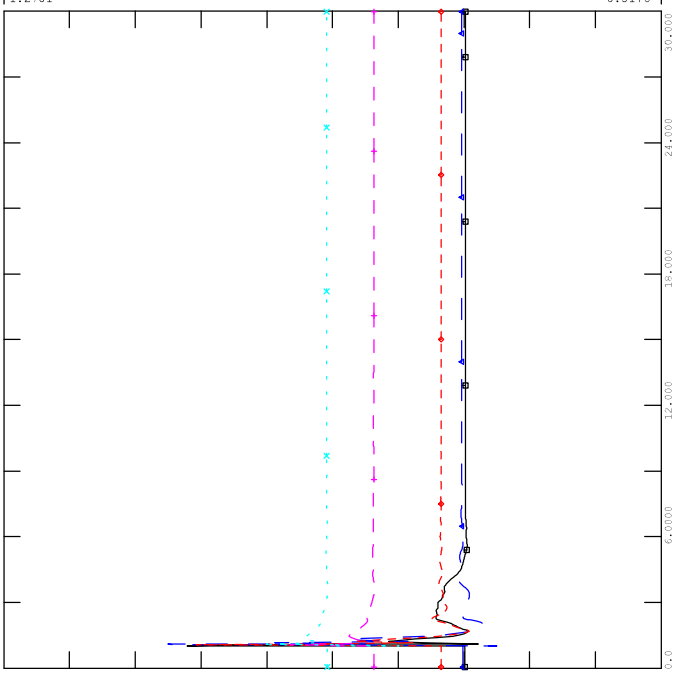
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

FILE: scn8_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1] 0.96590 -0.2866
CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.53500 -0.6131
CHNL# 198: [VARS 61736[BSR_4 0.6900]1] 1.2406 -0.4697
CHNL# 203: [VARS560026[TRAVERS_1A 0.4800]G1] 2.2026 -0.5593
CHNL# 169: [VARS 3251[CARSELA2 13.800]2] 1.2781 -0.5176

TIME (SECONDS)



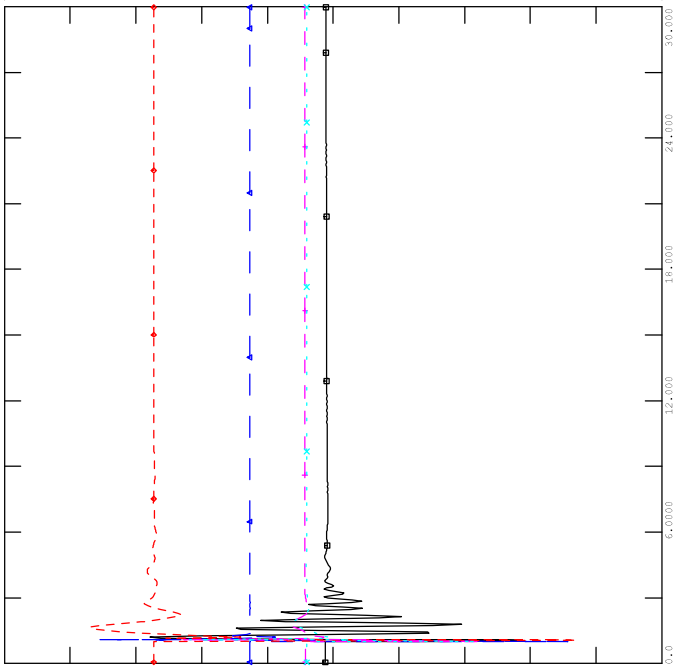
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

FILE: scn8_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1] 0.65160 -0.0592
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.62500 -0.1072
CHNL# 146: [POWR 61736[BSR_4 0.6900]1] 1.6217 0.09320
CHNL# 151: [POWR560026[TRAVERS_1A 0.4800]G1] 1.2978 -0.1047
CHNL# 117: [POWR 3251[CARSELA2 13.800]2] 0.79640 -0.1074

TIME (SECONDS)



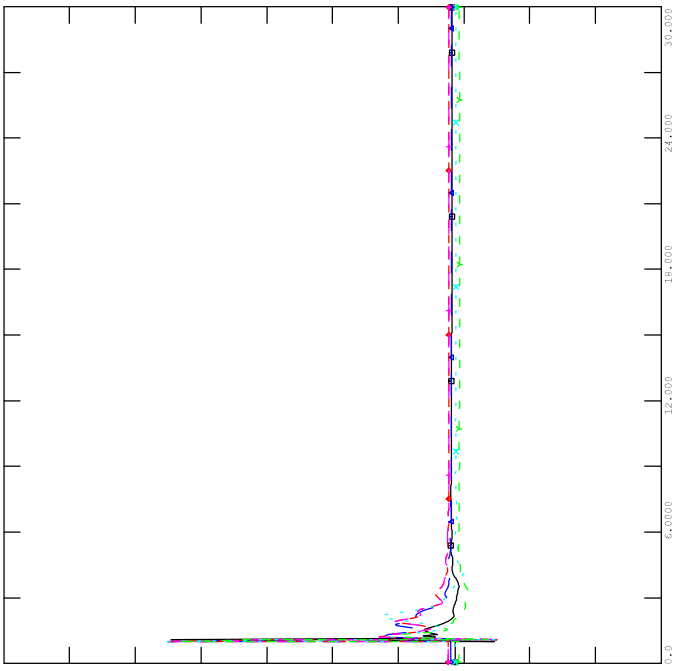
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

FILE: scn8_SP_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

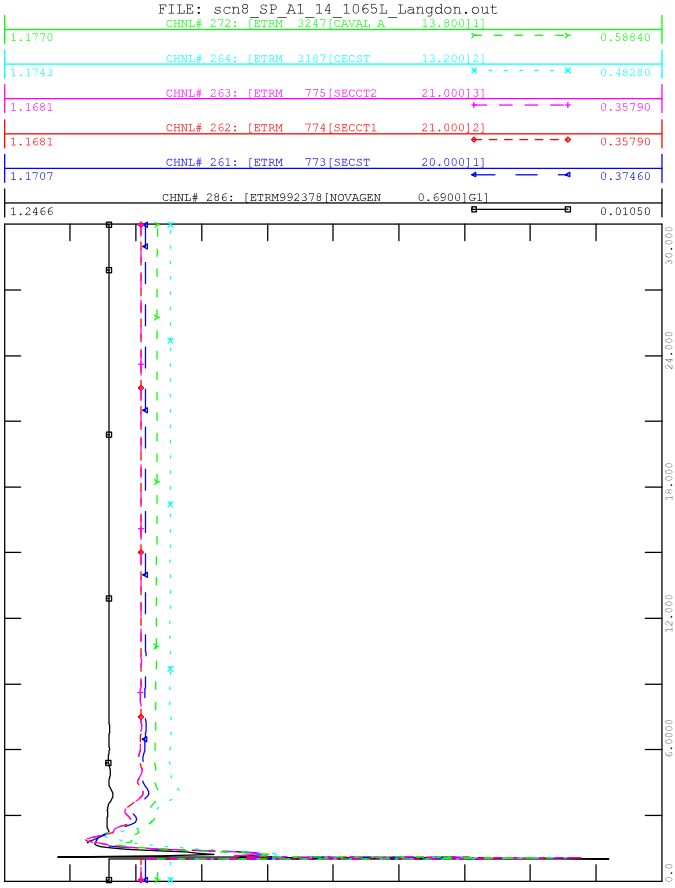
CHNL# 168: [VARS 3247[CAVAL_A 13.800]1] 1.3554 -0.5470
CHNL# 160: [VARS 3187[CECST 13.200]2] 3.1956 -1.204
CHNL# 159: [VARS 775[SECCT2 21.000]3] 5.9766 -3.002
CHNL# 158: [VARS 774[SECCT1 21.000]2] 5.9766 -3.002
CHNL# 157: [VARS 773[SECST 20.000]1] 7.4904 -3.617
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1] 1.4828 -0.4862

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

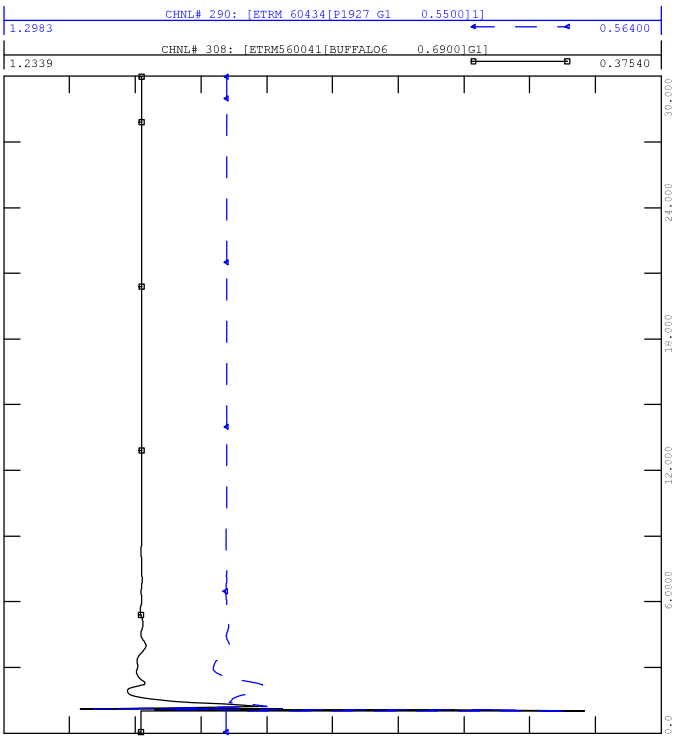
FILE: scn8_SP_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

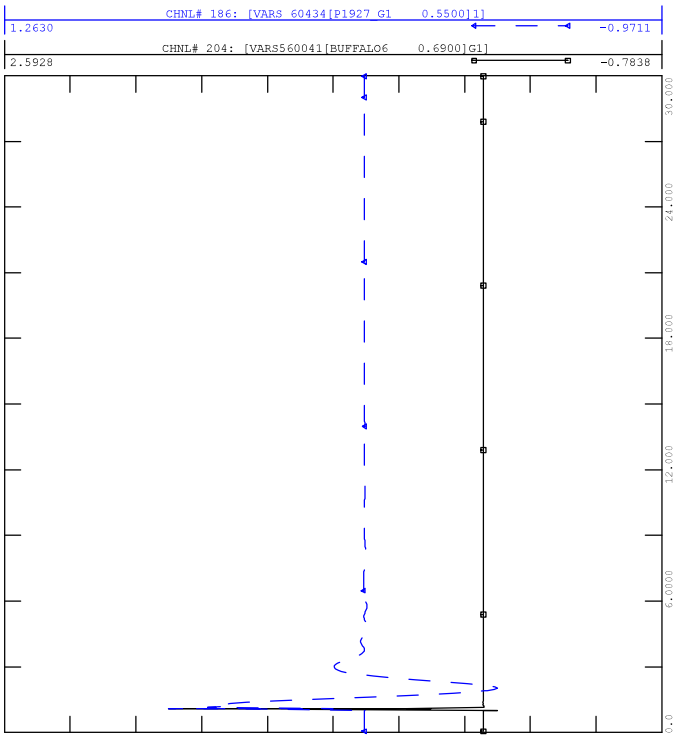
FILE: scn8_SP_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

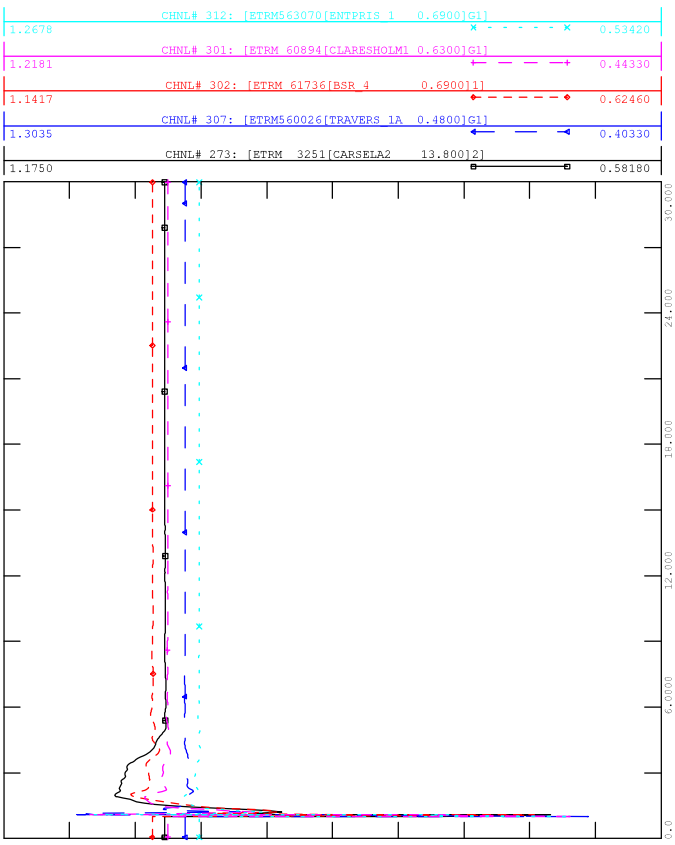
FILE: scn8_SP_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

FILE: scn8_SP_A1_14_1065L_Langdon.out

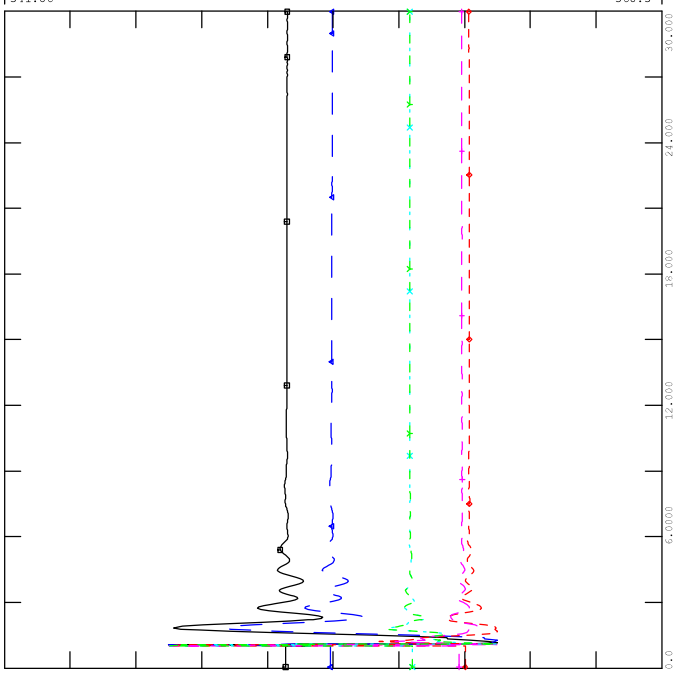


SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

FILE: scn8_SP_A1_14_1065L_Langdon.out

CHNL# 357: [1107L P]
129.25 -697.5
CHNL# 335: [1106L P]
129.24 -697.6
CHNL# 347: [1005L P]
132.54 -495.4
CHNL# 359: [1036L P]
76.976 -397.7
CHNL# 351: [935L P]
341.72 -360.9
CHNL# 339: [923L P]
341.86 -368.3

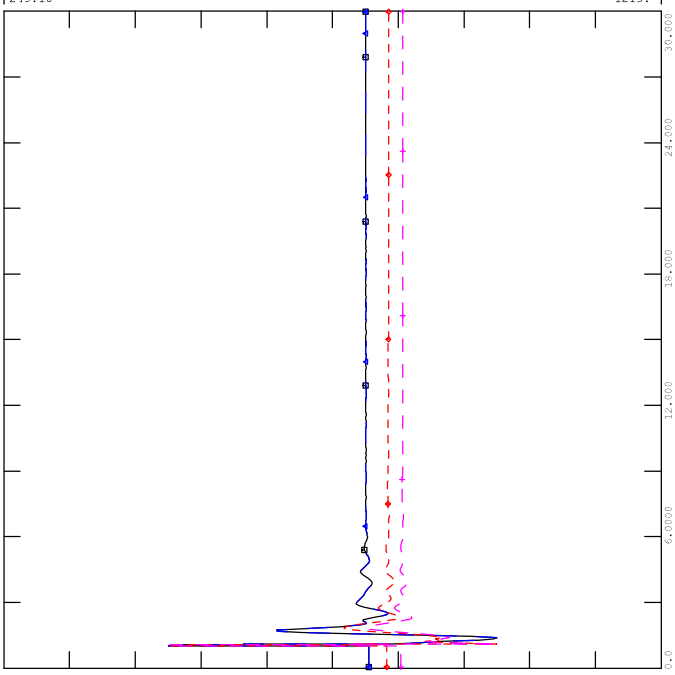


SAT, MAY 21 2022 1:18 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

FILE: scn8_SP_A1_14_1065L_Langdon.out

CHNL# 353: [927L_A1_1 P]
393.61 -1192.
CHNL# 371: [924L P]
327.90 -994.7
CHNL# 341: [1003L P]
246.58 -1205.
CHNL# 365: [985L P]
249.18 -1219.

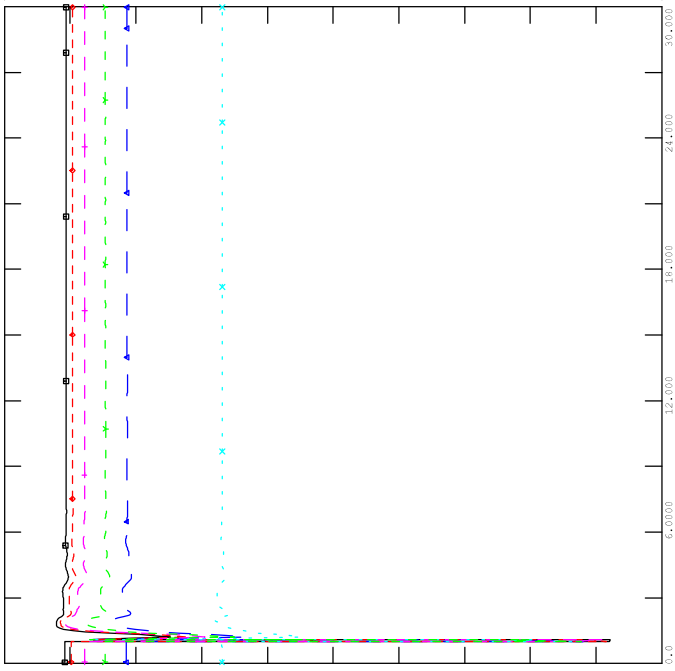


SAT, MAY 21 2022 1:18 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

FILE: scn8_SP_A1_14_1065L_Langdon.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1466 0.32960
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.2866 0.55960
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1917 0.09740
CHNL# 334: [VOLT 902378 [927L_TAP 240.00]]
1.1653 -0.0113
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.1940 0.35970
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1705 -0.0947

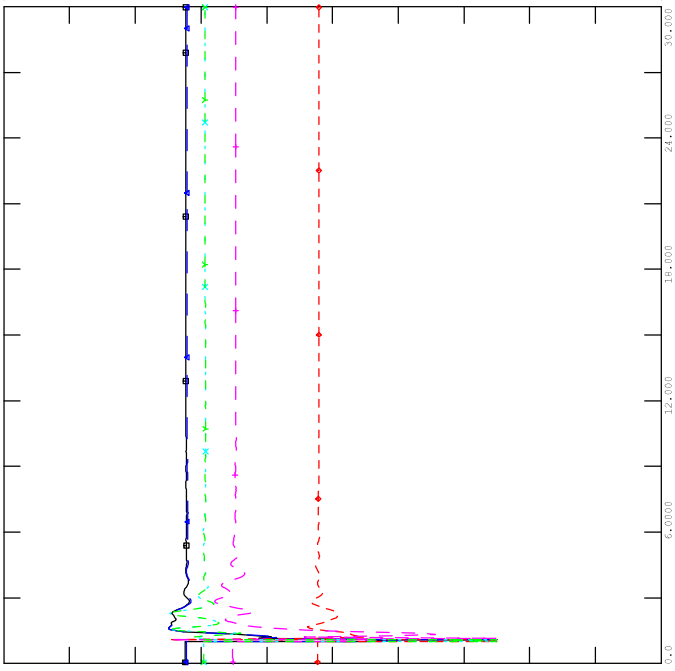


SAT, MAY 21 2022 1:18 BUS VOLTAGE

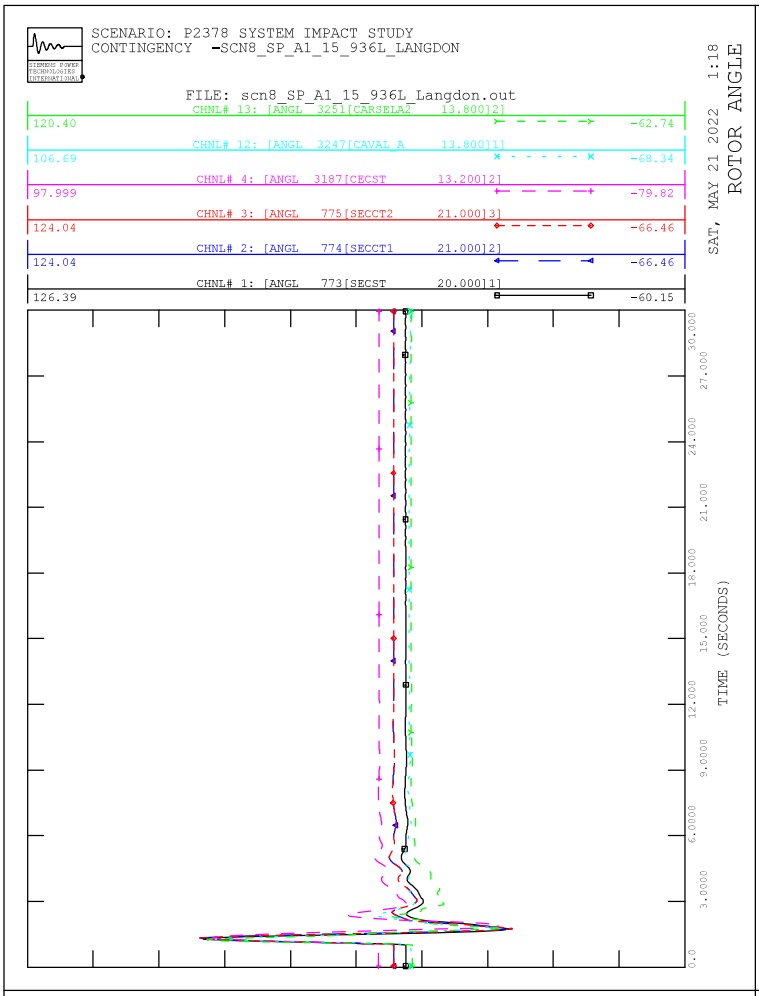
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON

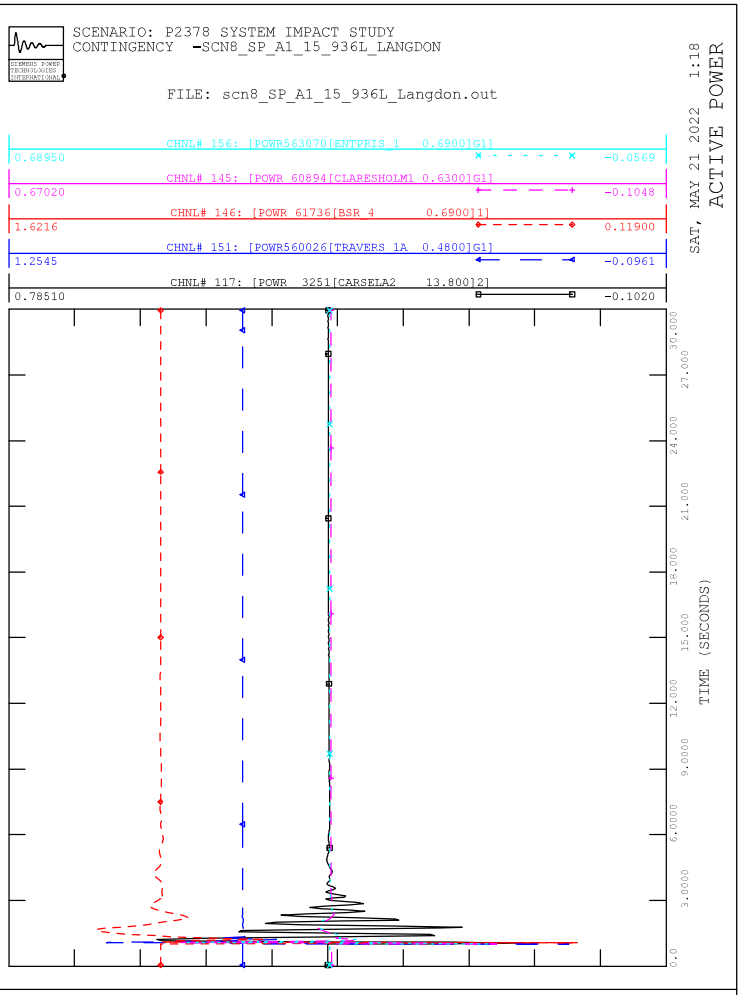
FILE: scn8_SP_A1_14_1065L_Langdon.out

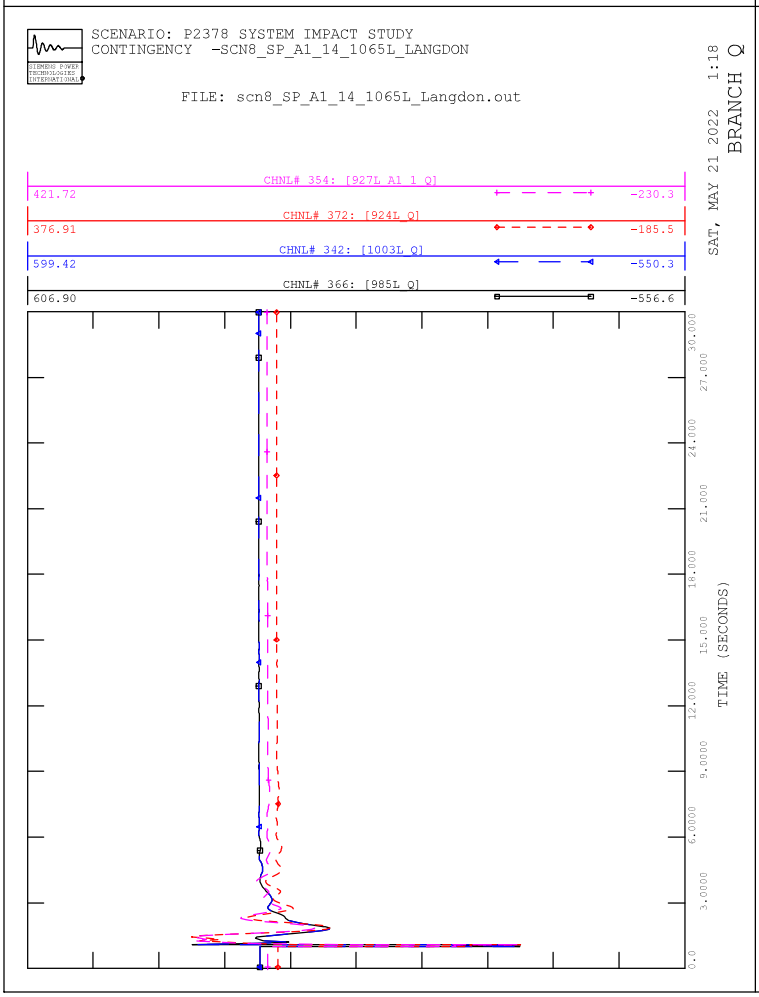
CHNL# 358: [1107L Q]
283.67 -145.8
CHNL# 336: [1106L Q]
283.88 -145.9
CHNL# 348: [1005L Q]
125.28 -109.6
CHNL# 360: [1036L Q]
313.46 -160.8
CHNL# 352: [935L Q]
181.77 -567.2
CHNL# 340: [923L Q]
202.07 -623.9

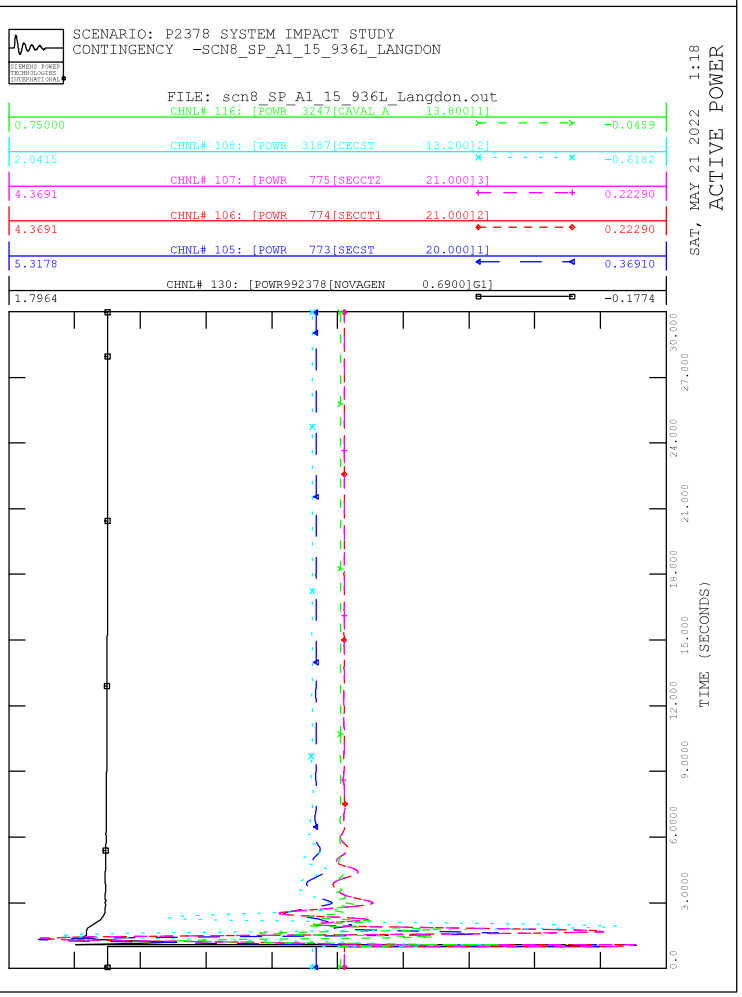


SAT, MAY 21 2022 1:18 BRANCH Q


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON
FILE: scn8_SP_A1_15_936L_Langdon.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
120.40
-62.74
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
106.69
-68.34
CHNL# 4: [ANGL 3187[CECST 13.200]2]
97.999
-79.82
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
124.04
-66.46
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
124.04
-66.46
CHNL# 1: [ANGL 773[SECST 20.000]1]
126.39
-60.15
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

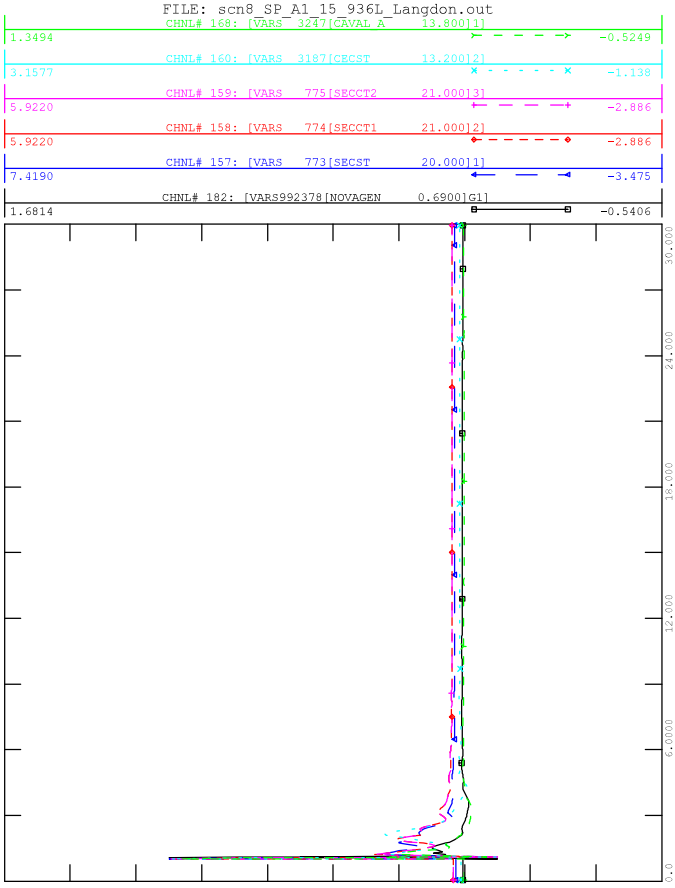

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON
FILE: scn8_SP_A1_15_936L_Langdon.out
CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.68950
-0.0569
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.67020
-0.1048
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.6216
0.11900
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
1.2545
-0.0961
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.78510
-0.1020
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_14_1065L_LANGDON
FILE: scn8_SP_A1_14_1065L_Langdon.out
CHNL# 354: [927L A1 1 Q]
421.72
-230.3
CHNL# 372: [924L Q]
376.91
-185.5
CHNL# 342: [1003L Q]
599.42
-550.3
CHNL# 366: [985L Q]
606.90
-556.6
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON
FILE: scn8_SP_A1_15_936L_Langdon.out
CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.75000
-0.0459
CHNL# 108: [POWR 3187[CECST 13.200]2]
2.0415
-0.6182
CHNL# 107: [POWR 775[SECCT2 21.000]3]
4.3691
0.22290
CHNL# 106: [POWR 774[SECCT1 21.000]2]
4.3691
0.22290
CHNL# 105: [POWR 773[SECST 20.000]1]
5.3178
0.36910
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.7964
-0.1774
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

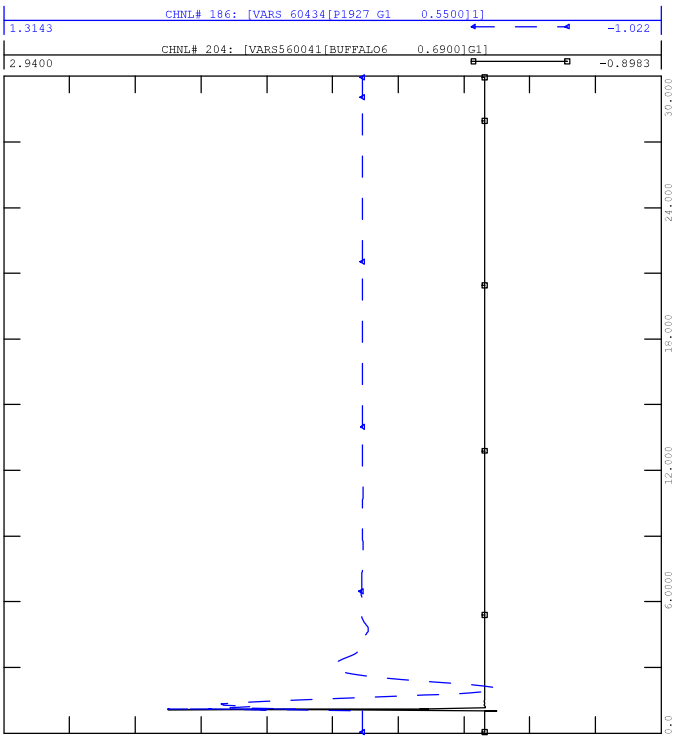
FILE: scn8_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

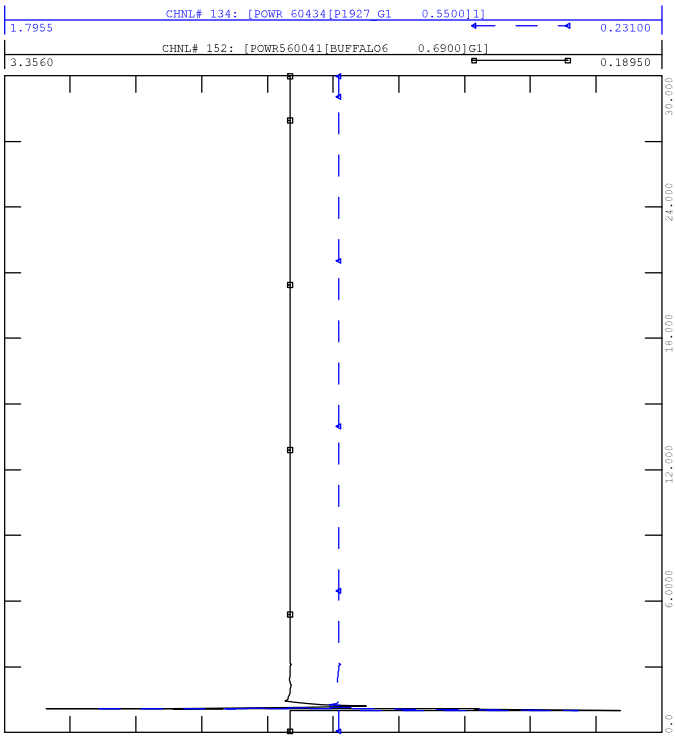
FILE: scn8_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

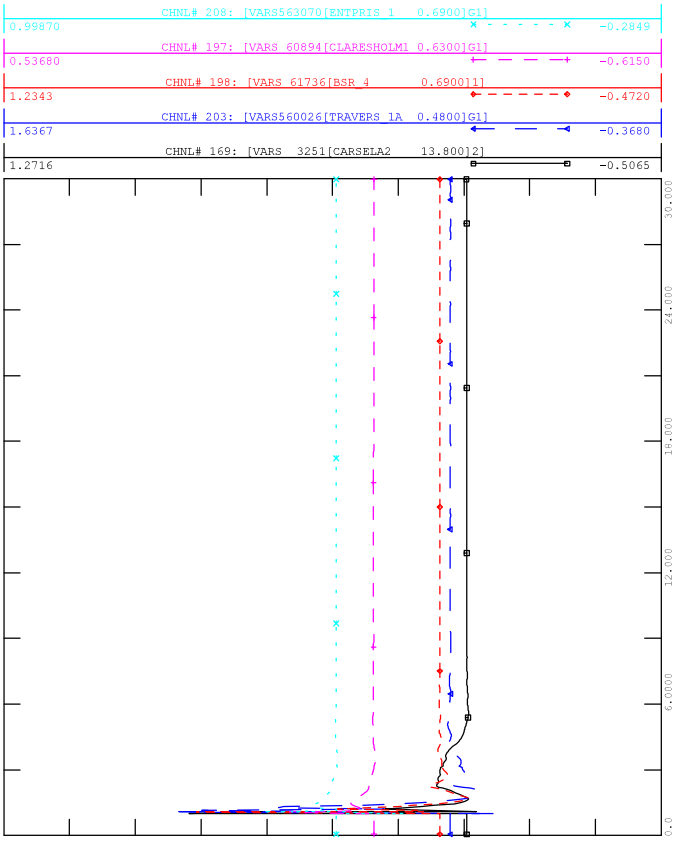
FILE: scn8_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

FILE: scn8_SP_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

FILE: scn8_SP_A1_15_936L_Langdon.out

CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1]
1.2732 0.54050
CHNL# 301: [ETRM_60894[CLARESHOLM1 0.6300]G1]
1.2288 0.45040
CHNL# 302: [ETRM_61736[BSR_4 0.6900]1]
1.1431 0.62820
CHNL# 307: [ETRM560026[TRAVERS_1A 0.4800]G1]
1.2997 0.41090
CHNL# 273: [ETRM_3251[CARSELA2 13.800]2]
1.1728 0.58540

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

FILE: scn8_SP_A1_15_936L_Langdon.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1469 0.33850
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.2756 0.56570
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1865 0.10650
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1688 -0.0020
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.1903 0.36730
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1737 -0.0858

SAT, MAY 21 2022 1:18
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

FILE: scn8_SP_A1_15_936L_Langdon.out

CHNL# 272: [ETRM_3247[CAVAL A 13.800]1]
1.1748 0.59170
CHNL# 264: [ETRM_3187[CECST 13.200]2]
1.1713 0.48660
CHNL# 263: [ETRM_775[SECCT2 21.000]3]
1.1637 0.36380
CHNL# 262: [ETRM_774[SECCT1 21.000]2]
1.1637 0.36380
CHNL# 261: [ETRM_773[SECST 20.000]1]
1.1665 0.38020
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.2003 0.01930

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

FILE: scn8_SP_A1_15_936L_Langdon.out

CHNL# 290: [ETRM_60434[P1927 G1 0.5500]1]
1.2977 0.57010
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.2806 0.38300

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

FILE: scn8_SP_A1_15_936L_Langdon.out

CHNL# 358: [1107L Q]
284.70 -146.6

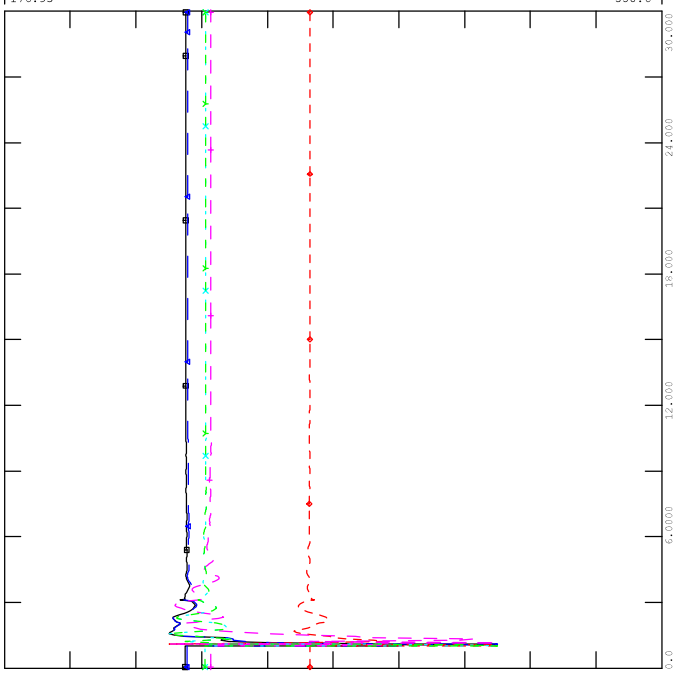
CHNL# 336: [1106L Q]
284.91 -146.6

CHNL# 348: [1005L Q]
108.89 -99.63

CHNL# 360: [1036L Q]
297.18 -155.7

CHNL# 352: [935L Q]
156.56 -499.7

CHNL# 340: [923L Q]
176.93 -558.6



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

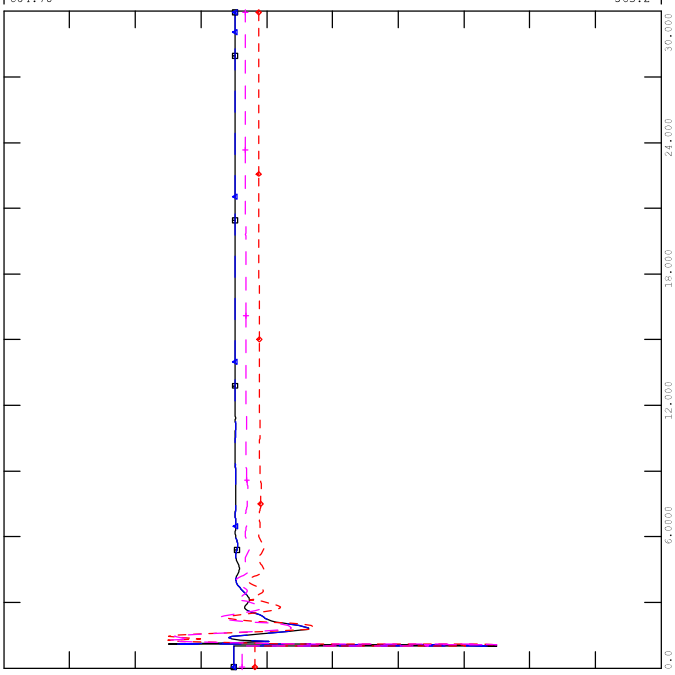
FILE: scn8_SP_A1_15_936L_Langdon.out

CHNL# 354: [927L A1 1 Q]
428.90 -247.7

CHNL# 372: [924L Q]
365.80 -165.9

CHNL# 342: [1003L Q]
597.31 -556.7

CHNL# 366: [985L Q]
604.78 -563.2



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

FILE: scn8_SP_A1_15_936L_Langdon.out

CHNL# 357: [1107L P]
118.24 -677.9

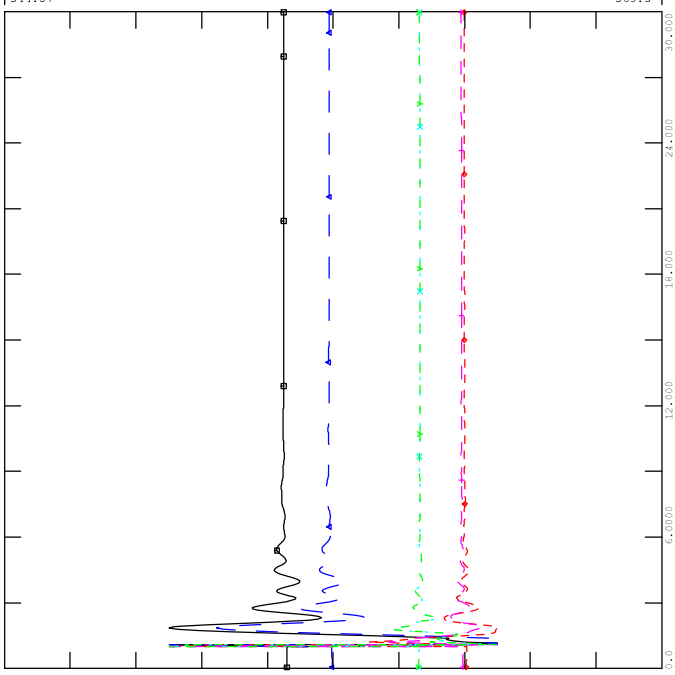
CHNL# 335: [1106L P]
118.23 -678.0

CHNL# 347: [1005L P]
128.12 -488.2

CHNL# 359: [1036L P]
74.648 -395.5

CHNL# 351: [935L P]
332.95 -348.7

CHNL# 339: [923L P]
344.57 -369.3



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_15_936L_LANGDON

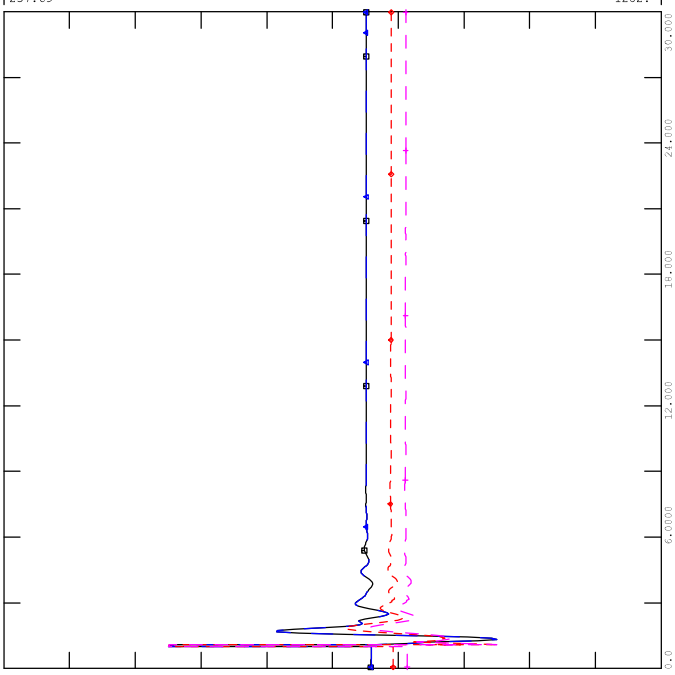
FILE: scn8_SP_A1_15_936L_Langdon.out

CHNL# 353: [927L A1 1 P]
374.91 -1156.

CHNL# 371: [924L P]
310.06 -960.2

CHNL# 341: [1003L P]
235.22 -1188.

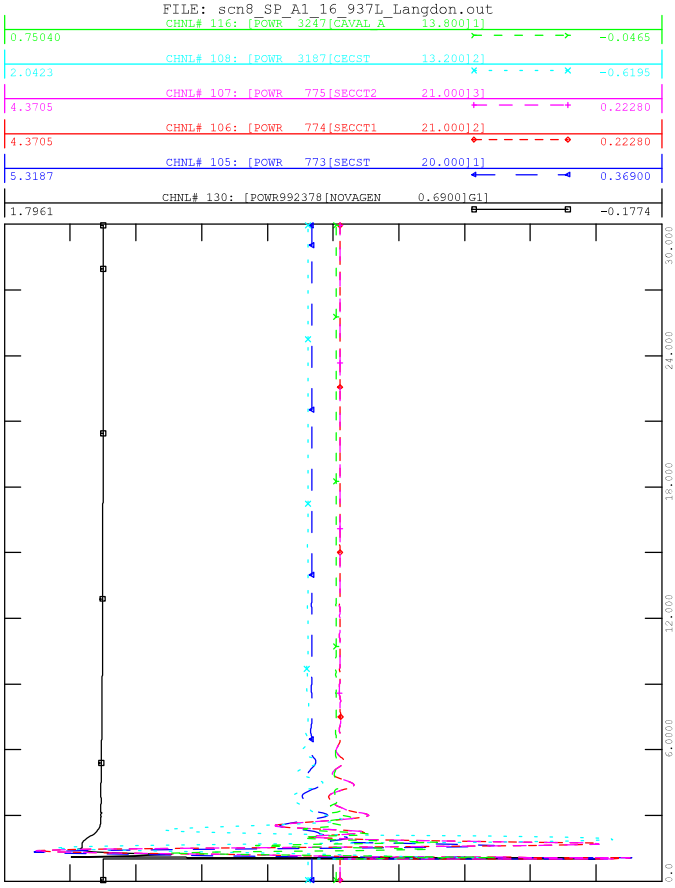
CHNL# 365: [985L P]
237.69 -1202.



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

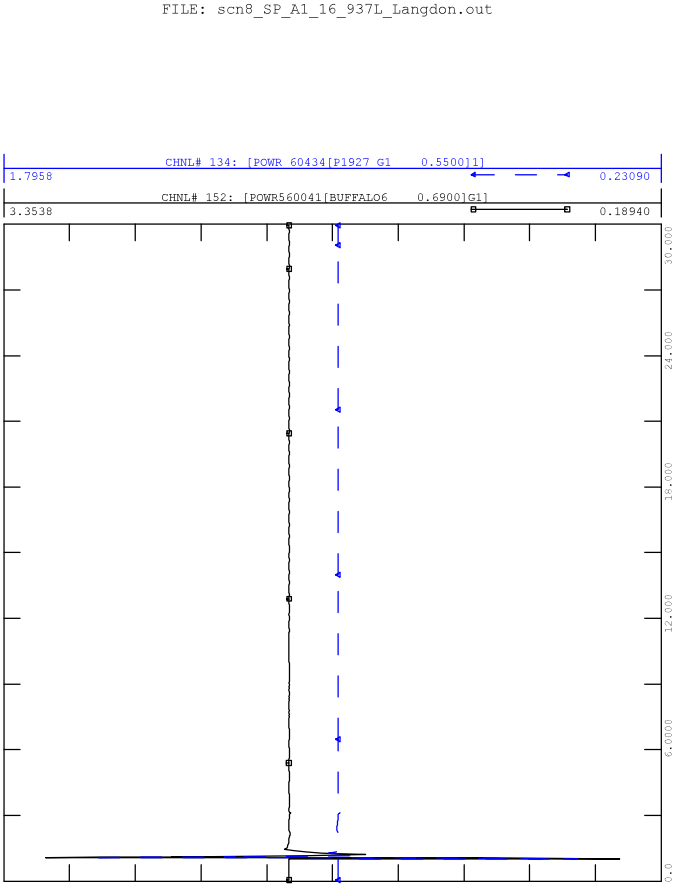
FILE: scn8_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

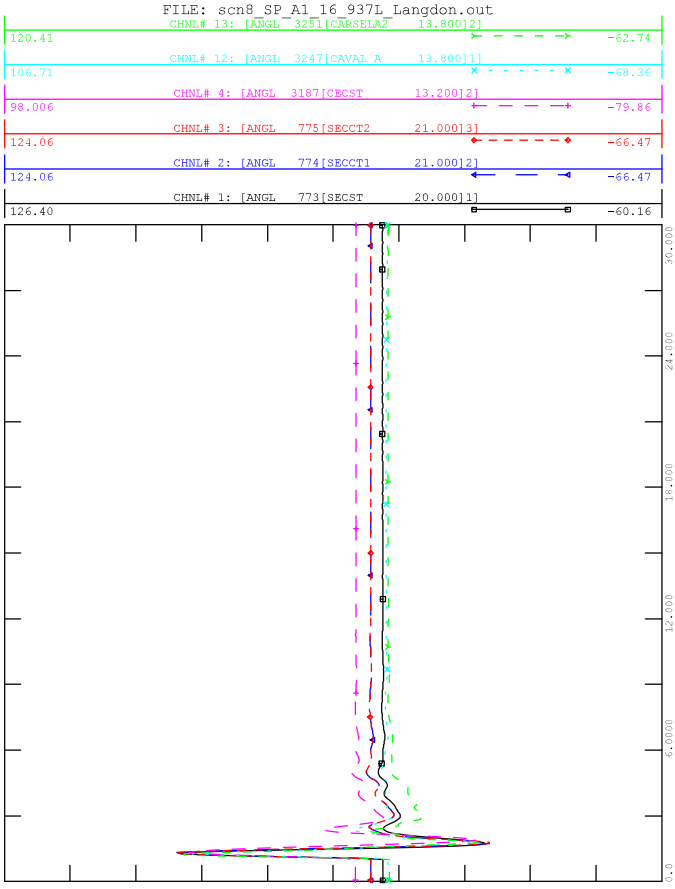
FILE: scn8_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

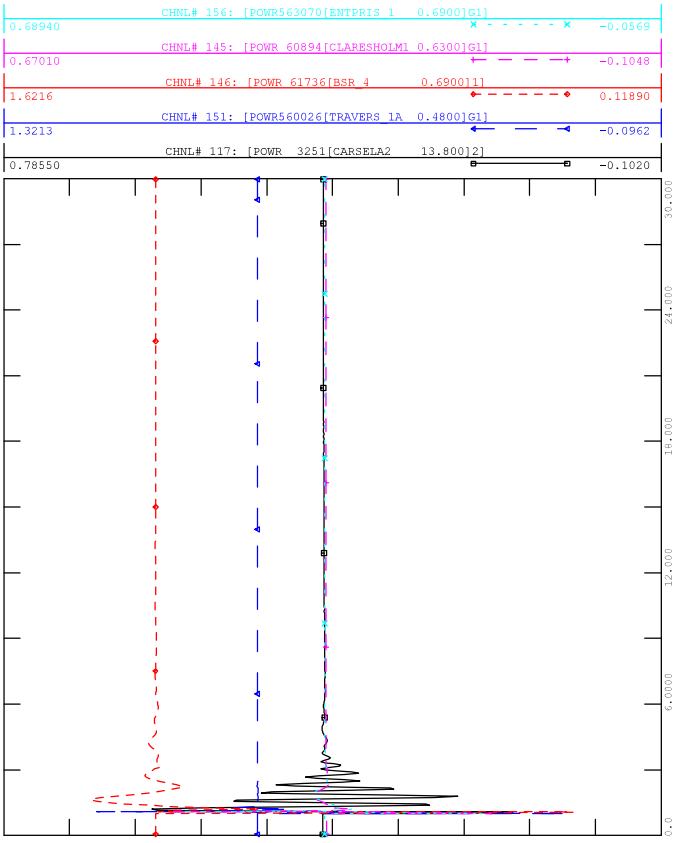
FILE: scn8_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

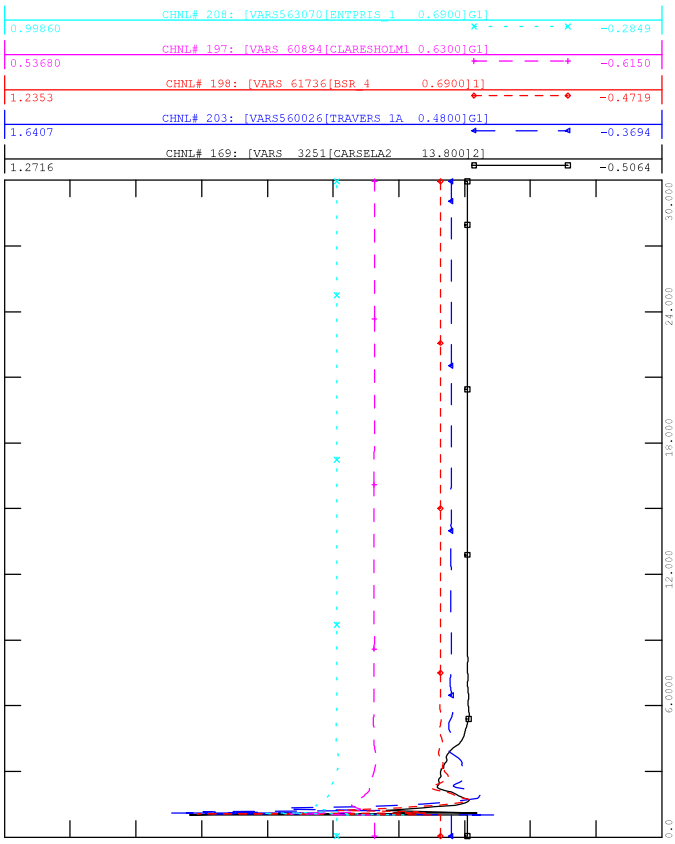
FILE: scn8_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

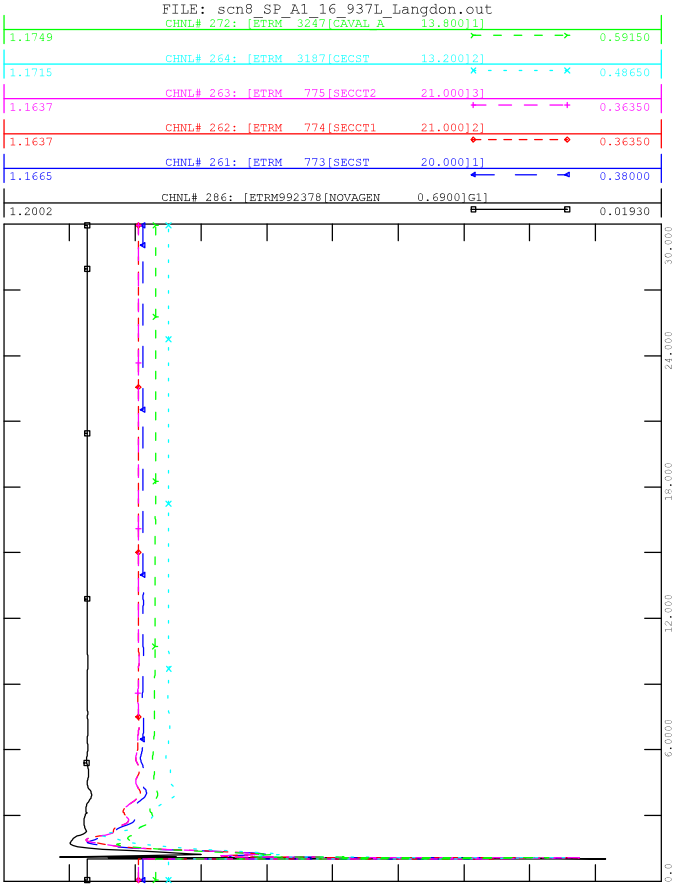
FILE: scn8_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

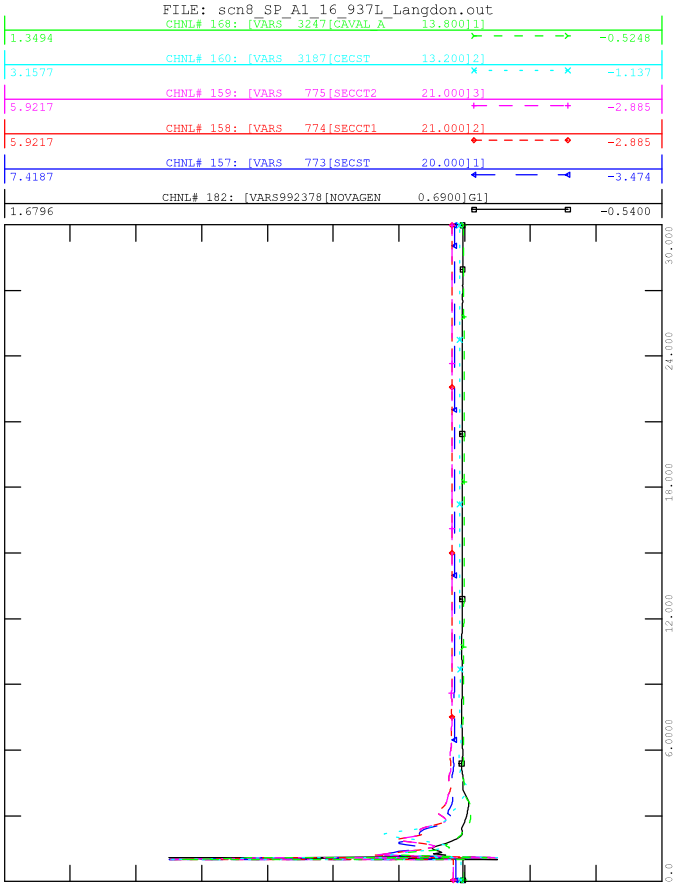
FILE: scn8_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

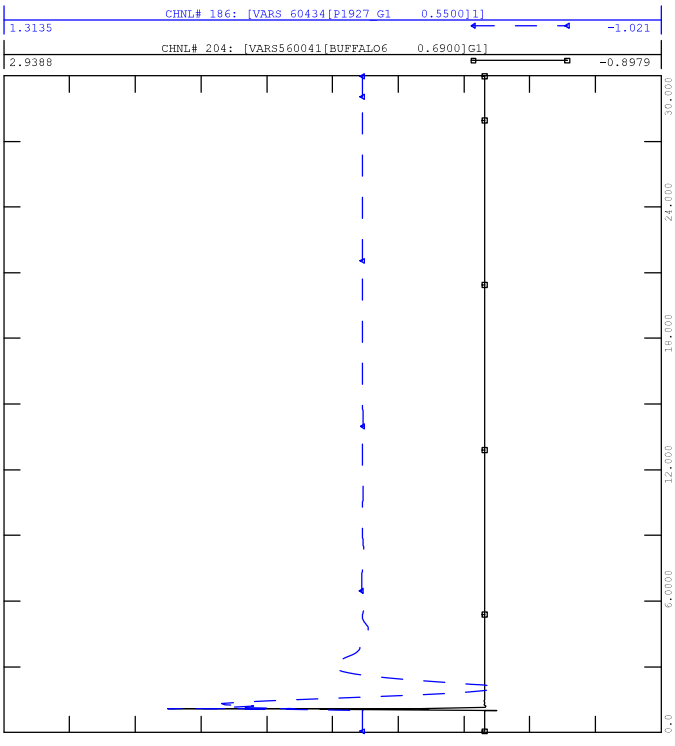
FILE: scn8_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

FILE: scn8_SP_A1_16_937L_Langdon.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

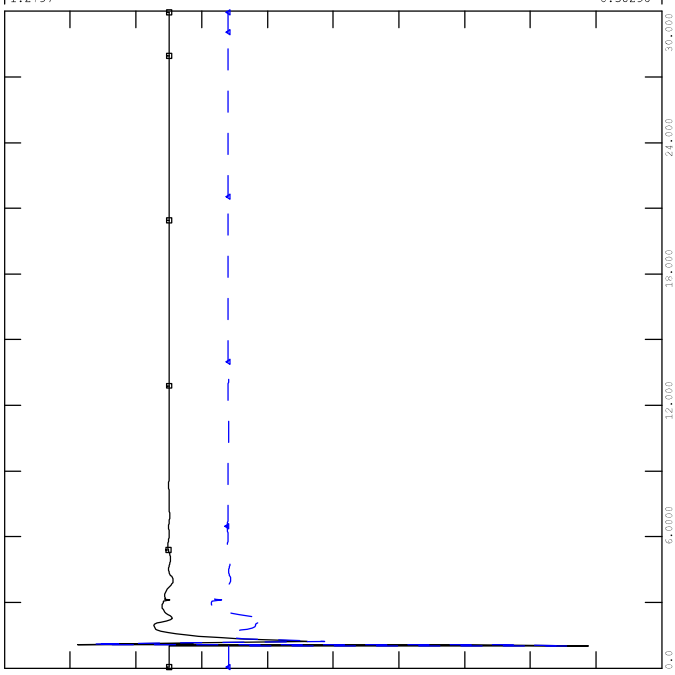
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

FILE: scn8_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
1.2978 0.57010

CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.2797 0.38290



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

FILE: scn8_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:18 BRANCH P

CHNL# 357: [1107L P]
118.25 -677.9

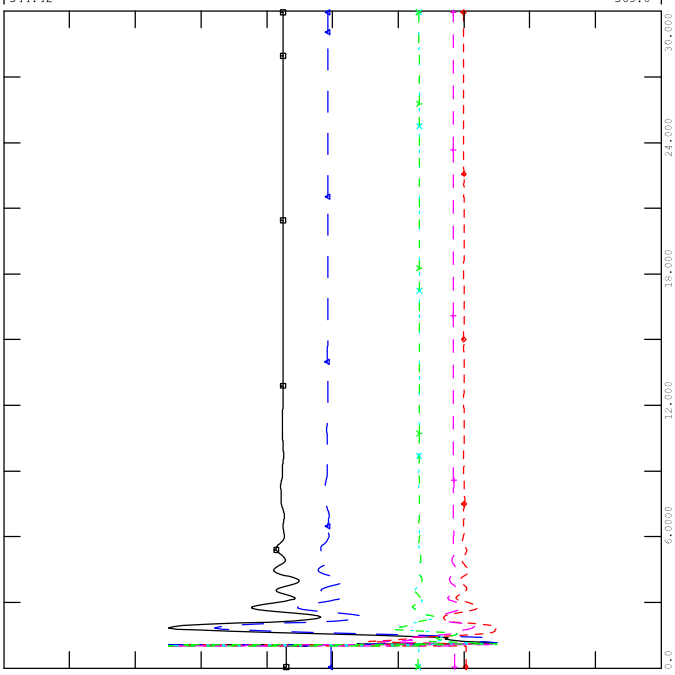
CHNL# 335: [1106L P]
118.24 -677.9

CHNL# 347: [1005L P]
132.12 -500.2

CHNL# 359: [1036L P]
74.650 -395.5

CHNL# 351: [935L P]
330.73 -347.8

CHNL# 339: [923L P]
344.42 -369.0



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

FILE: scn8_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

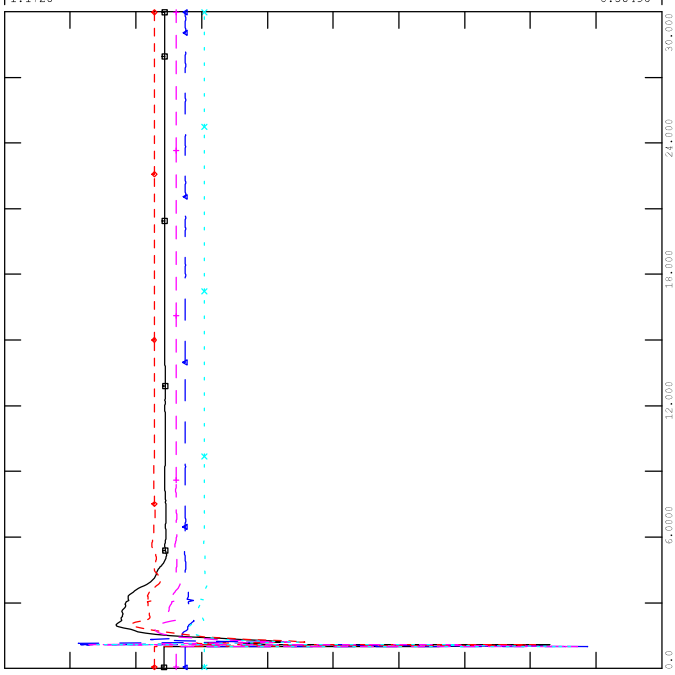
CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2728 0.54040

CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2283 0.45030

CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1431 0.62460

CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2997 0.41080

CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1728 0.58490



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON

FILE: scn8_SP_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:18 BUS VOLTAGE

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1469 0.33840

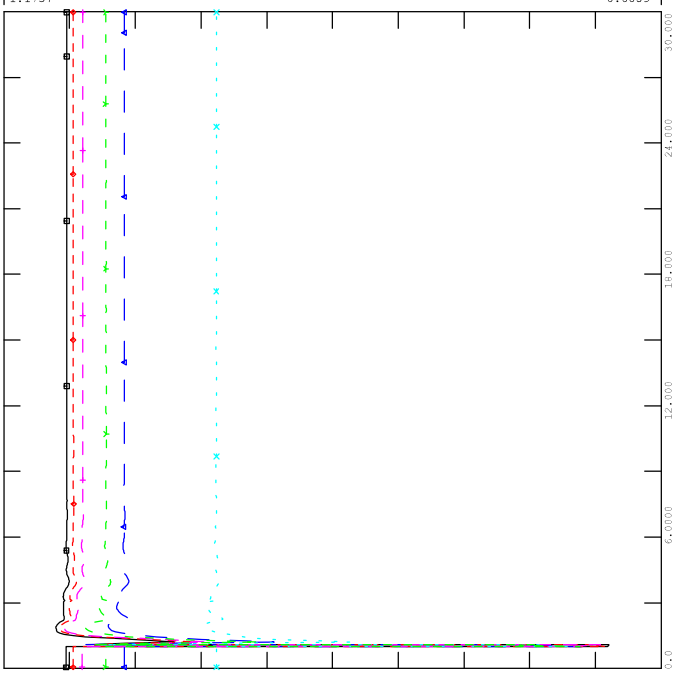
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.2755 0.56560

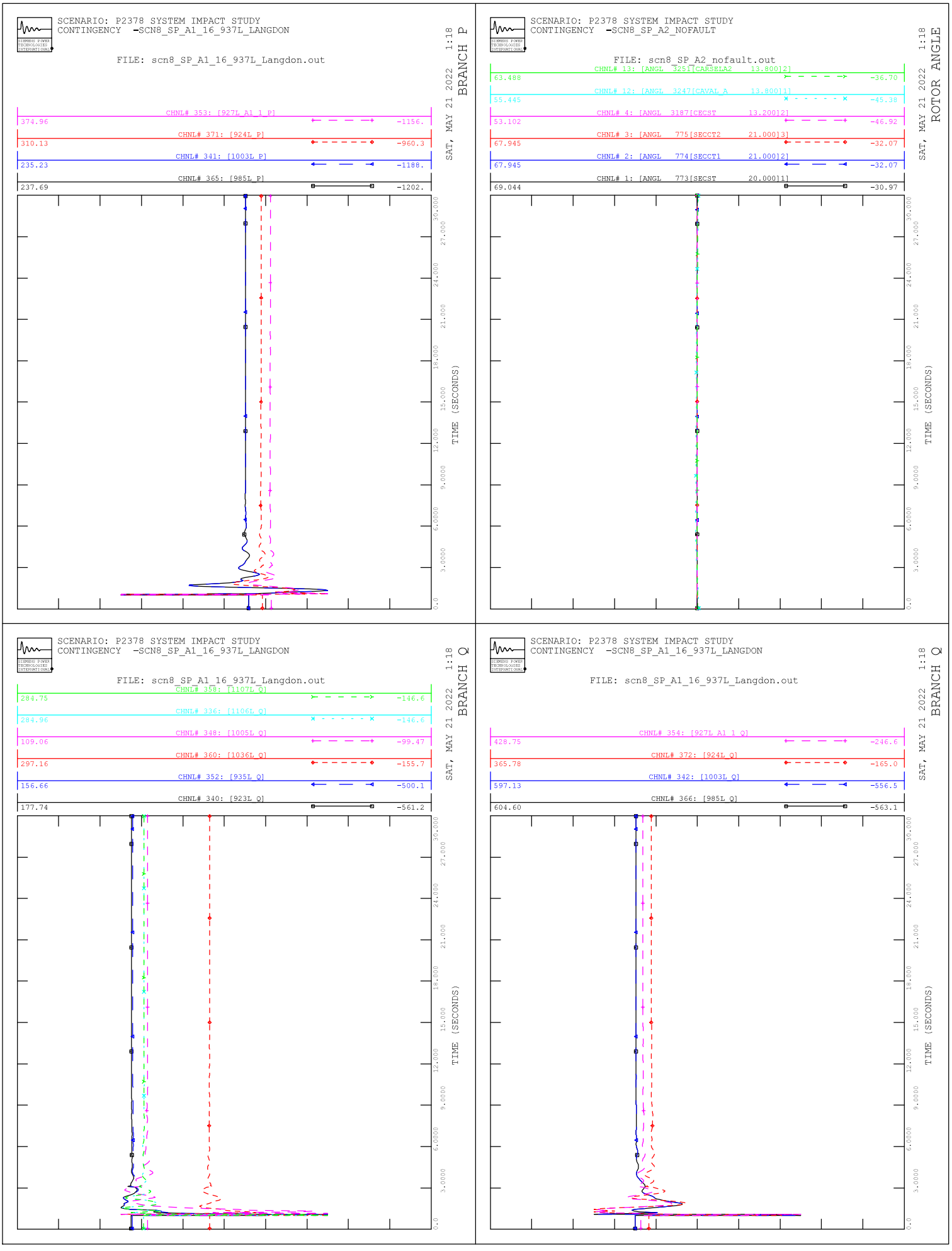
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1865 0.10620

CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1688 -0.0021

CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.1902 0.36720

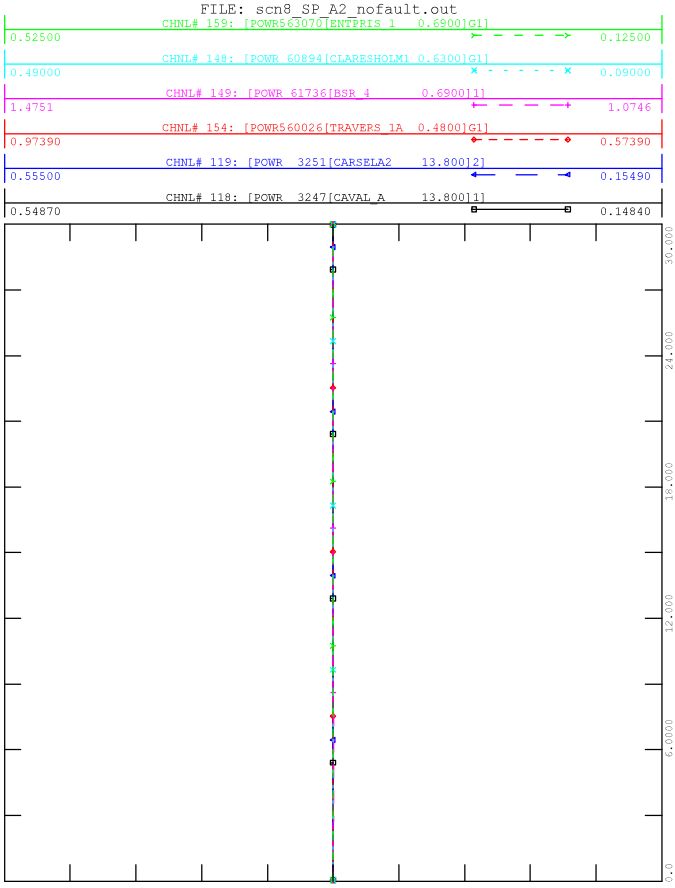
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1737 -0.0859




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON
FILE: scn8_SP_A1_16_937L_Langdon.out
CHNL# 353: [927L A1 1 P]
374.96
-1156.
CHNL# 371: [924L P]
310.13
-960.3
CHNL# 341: [1003L P]
235.23
-1188.
CHNL# 365: [985L P]
237.69
-1202.
BRANCH P
SAT, MAY 21 2022 1:18
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT
FILE: scn8_SP_A2_nofault.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
63.488
-36.70
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
55.445
-45.38
CHNL# 4: [ANGL 3187[CECST 13.200]2]
53.102
-46.92
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
67.945
-32.07
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
67.945
-32.07
CHNL# 1: [ANGL 773[SECST 20.000]1]
69.044
-30.97
ROTOR ANGLE
SAT, MAY 21 2022 1:18
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON
FILE: scn8_SP_A1_16_937L_Langdon.out
CHNL# 358: [1107L Q]
284.75
-146.6
CHNL# 336: [1106L Q]
284.96
-146.6
CHNL# 348: [1005L Q]
109.06
-99.47
CHNL# 360: [1036L Q]
297.16
-155.7
CHNL# 352: [935L Q]
156.66
-500.1
CHNL# 340: [923L Q]
177.74
-561.2
BRANCH Q
SAT, MAY 21 2022 1:18
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A1_16_937L_LANGDON
FILE: scn8_SP_A1_16_937L_Langdon.out
CHNL# 354: [927L A1 1 Q]
428.75
-246.6
CHNL# 372: [924L Q]
365.78
-165.0
CHNL# 342: [1003L Q]
597.13
-556.5
CHNL# 366: [985L Q]
604.60
-563.1
BRANCH Q
SAT, MAY 21 2022 1:18
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

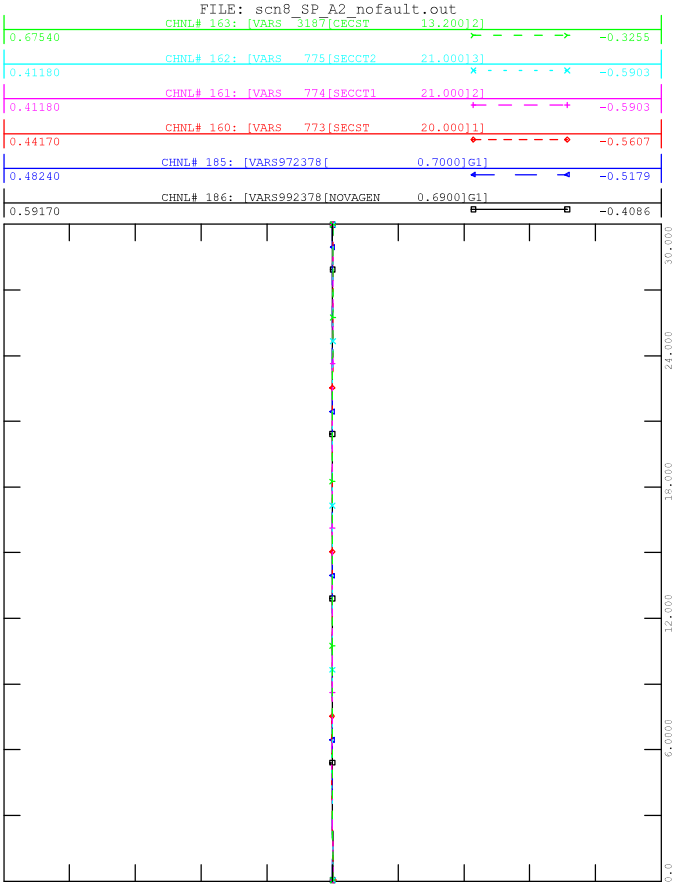
FILE: scn8_SP_A2_nofault.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

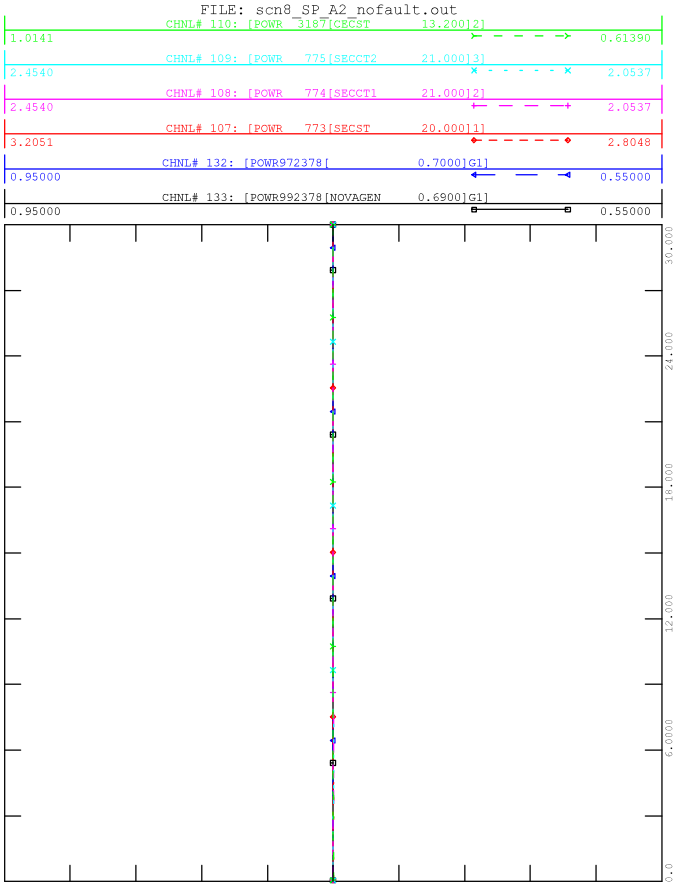
FILE: scn8_SP_A2_nofault.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

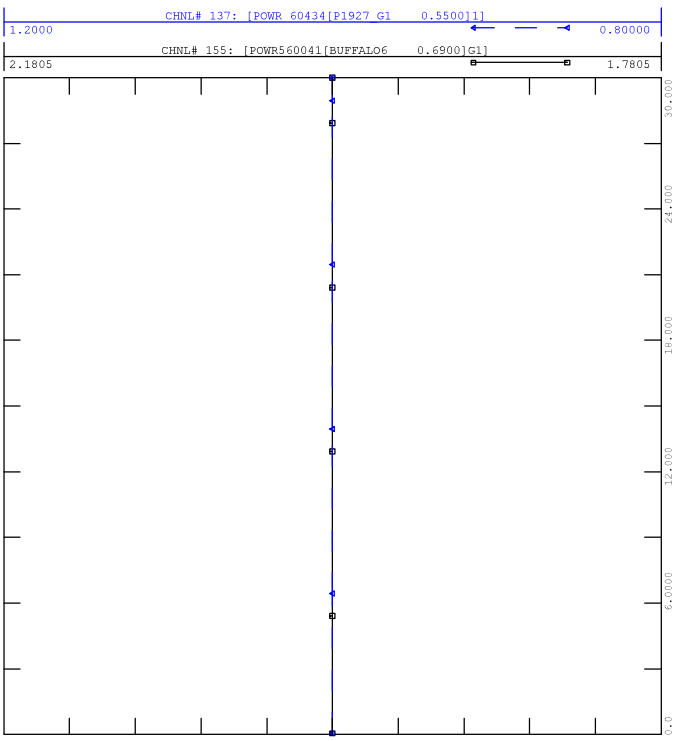
FILE: scn8_SP_A2_nofault.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

FILE: scn8_SP_A2_nofault.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

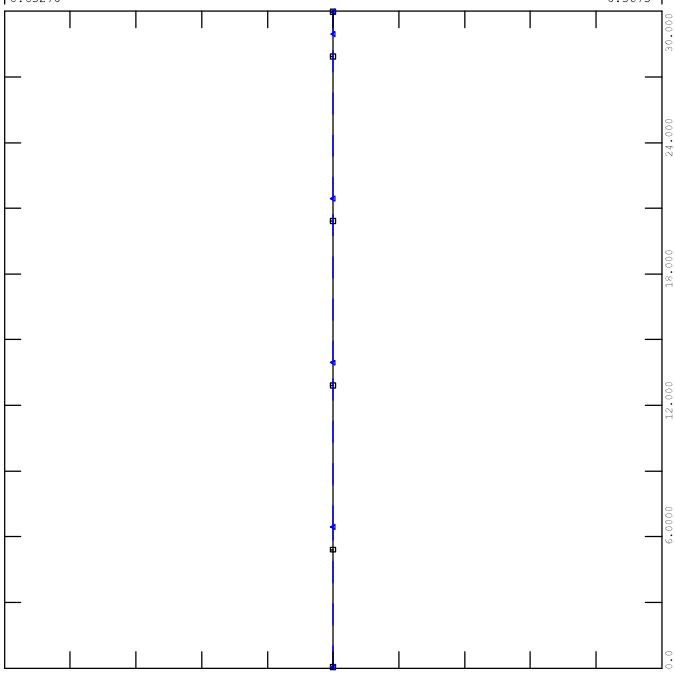
FILE: scn8_SP_A2_nofault.out

SAT, MAY 21 2022 1:18

REACTIVE POWER

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.54190 -0.4583

CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
0.63270 -0.3673



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

FILE: scn8_SP_A2_nofault.out

SAT, MAY 21 2022 1:18

TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.1500 0.95000

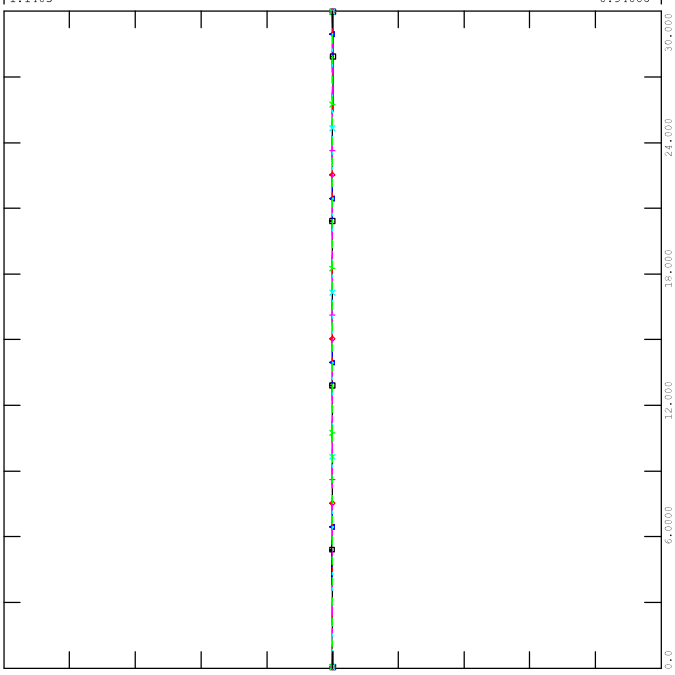
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.1250 0.92500

CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1250 0.92500

CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.1550 0.95500

CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1300 0.92990

CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1403 0.94000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

FILE: scn8_SP_A2_nofault.out

SAT, MAY 21 2022 1:18

REACTIVE POWER

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.85040 -0.1497

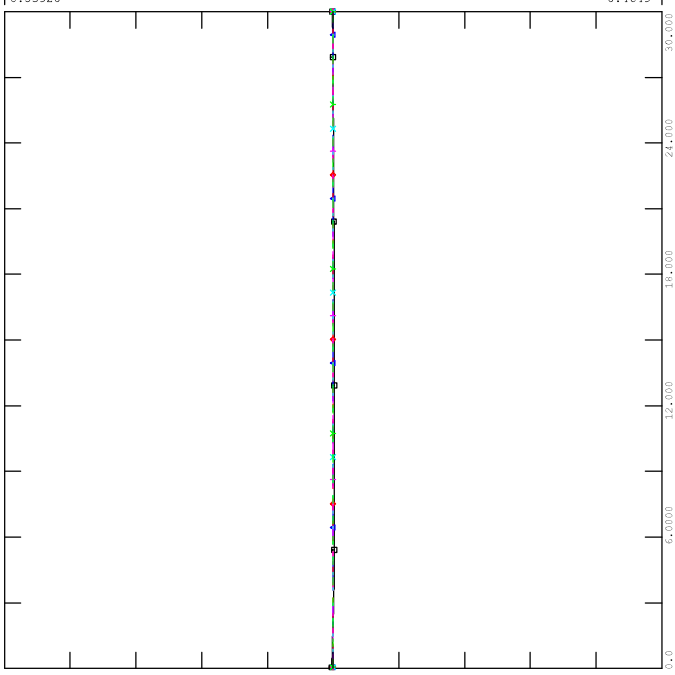
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.38880 -0.6113

CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
0.60240 -0.3978

CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.77510 -0.2251

CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
0.51990 -0.4805

CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.53920 -0.4649



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

FILE: scn8_SP_A2_nofault.out

SAT, MAY 21 2022 1:18

TERMINAL VOLTAGE

CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1000 0.90000

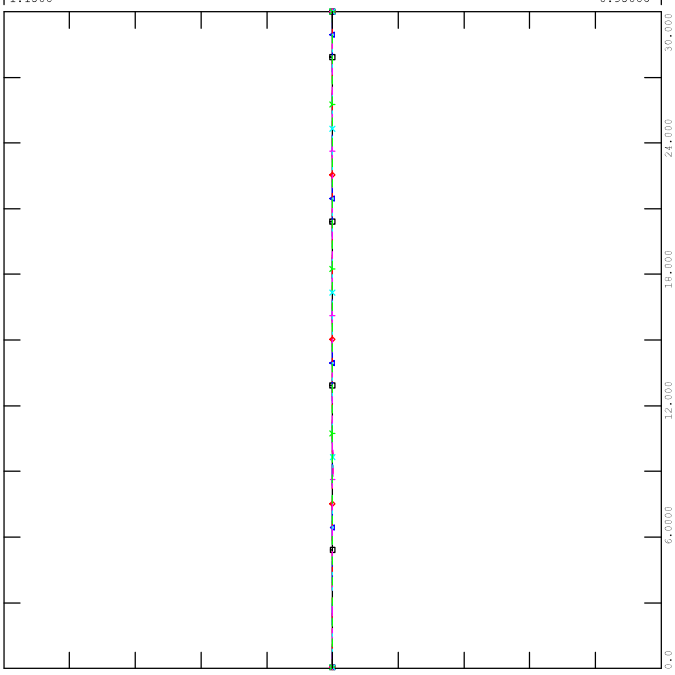
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1000 0.90000

CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1000 0.90000

CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1000 0.90000

CHNL# 291: [ETRM972378[0.7000]G1]
1.1500 0.95000

CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 0.95000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

FILE: scn8_SP_A2_nofault.out

SAT, MAY 21 2022 1:18 BUS VOLTAGE

CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1213 0.92120

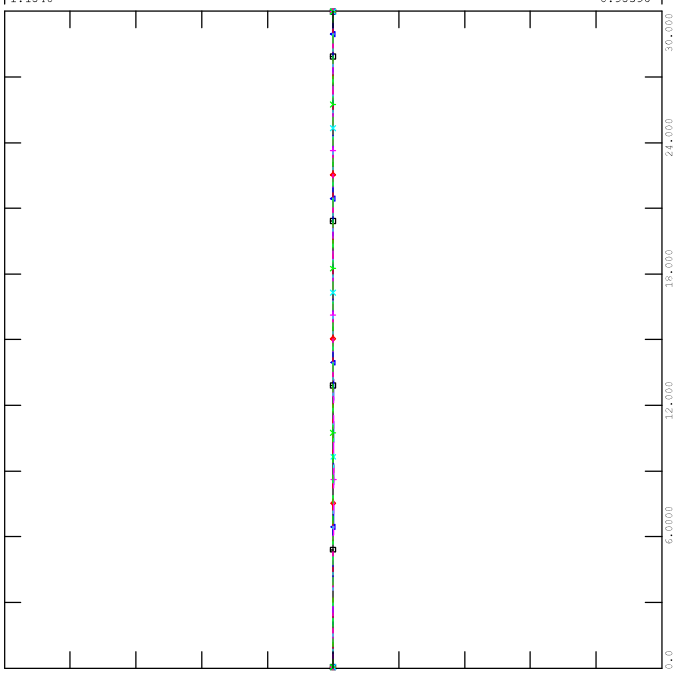
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.1459 0.94590

CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1579 0.95770

CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1464 0.94640

CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.1393 0.93920

CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1540 0.95390



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

FILE: scn8_SP_A2_nofault.out

SAT, MAY 21 2022 1:18 BRANCH Q

CHNL# 360: [1107L Q]
193.38 113.20

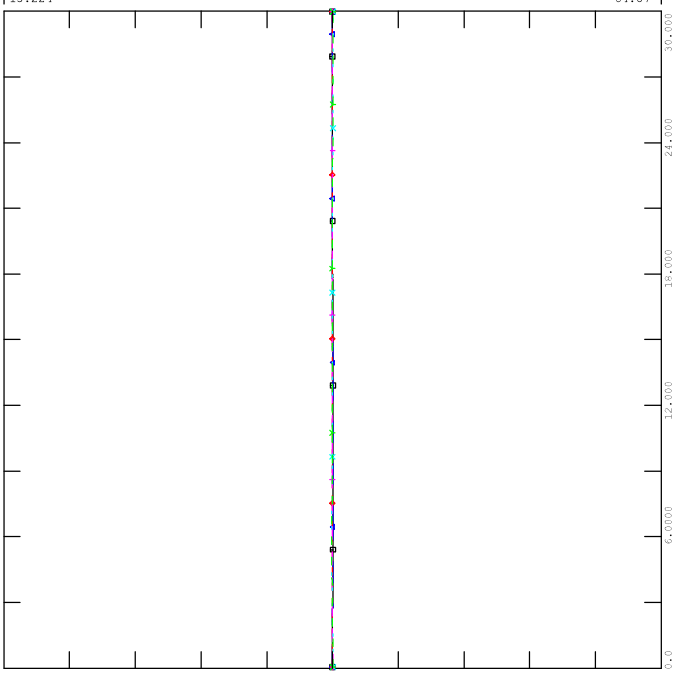
CHNL# 342: [1106L Q]
193.51 113.33

CHNL# 354: [1005L Q]
83.608 3.5497

CHNL# 364: [1036L Q]
127.04 47.011

CHNL# 358: [935L Q]
14.758 -65.34

CHNL# 346: [923L Q]
15.224 -64.87



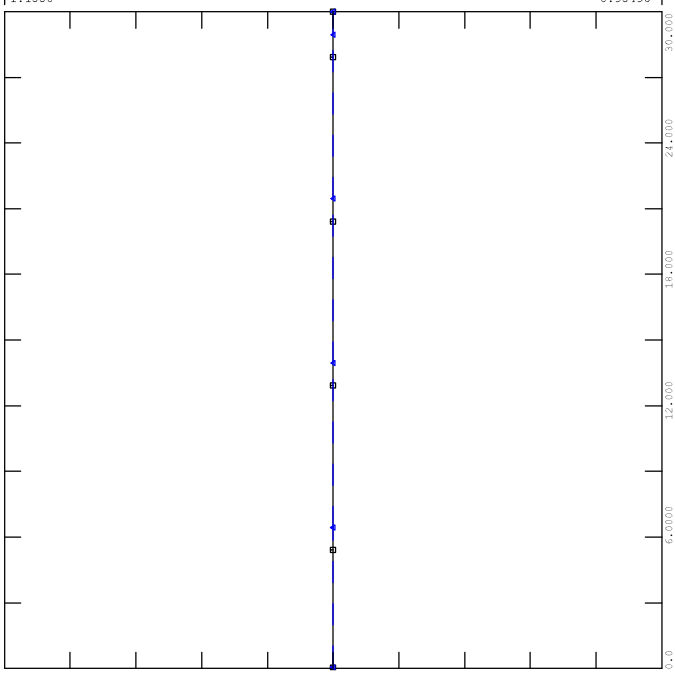
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

FILE: scn8_SP_A2_nofault.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
1.1500 0.95000

CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.1550 0.95490



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

FILE: scn8_SP_A2_nofault.out

SAT, MAY 21 2022 1:18 BRANCH P

CHNL# 359: [1107L P]
-343.7 -424.7

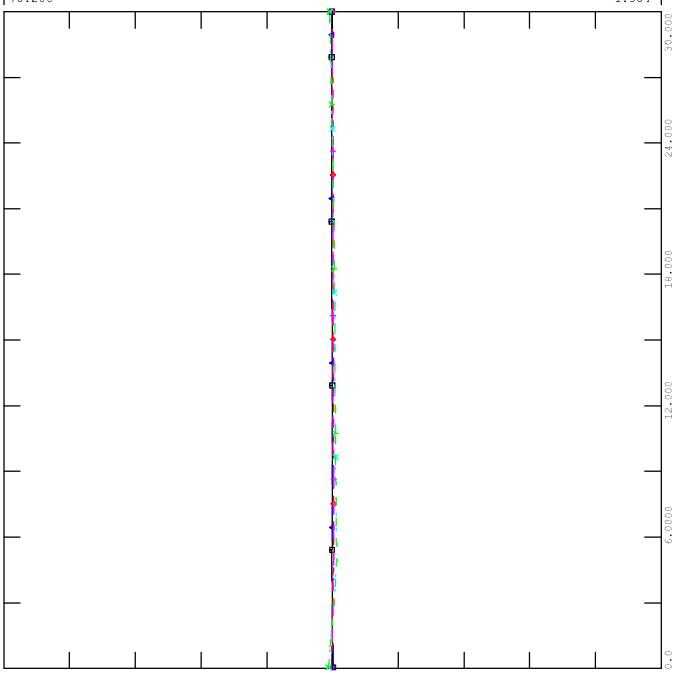
CHNL# 341: [1106L P]
-343.7 -424.7

CHNL# 353: [1005L P]
-261.6 -341.9

CHNL# 363: [1036L P]
-215.7 -296.0

CHNL# 357: [935L P]
33.341 -46.84

CHNL# 345: [923L P]
78.206 -1.984

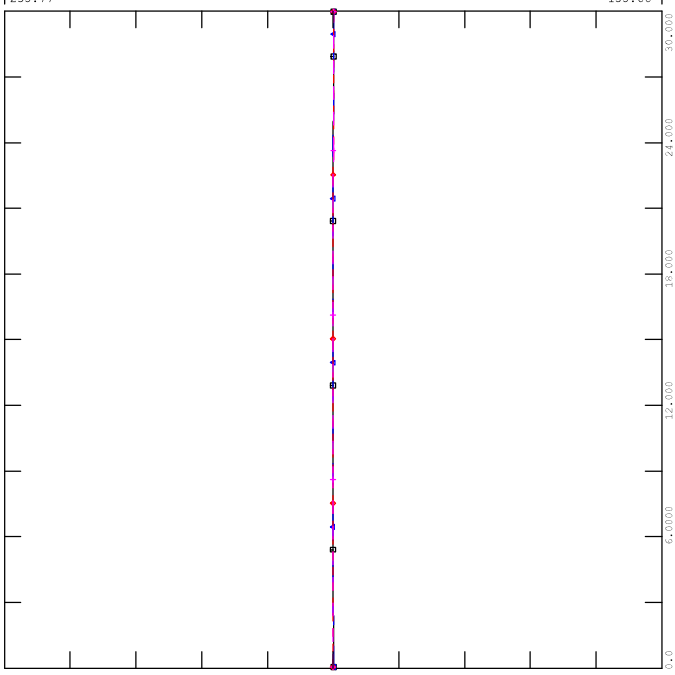


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

FILE: scn8_SP_A2_nofault.out

SAT, MAY 21 2022 1:18 BRANCH Q

CHNL# 380: [927L_A2_1_Q] 211.38 131.31
CHNL# 362: [924L_A2_1_Q] 206.69 126.62
CHNL# 348: [1003L_Q] 233.13 153.03
CHNL# 372: [985L_Q] 235.77 155.66

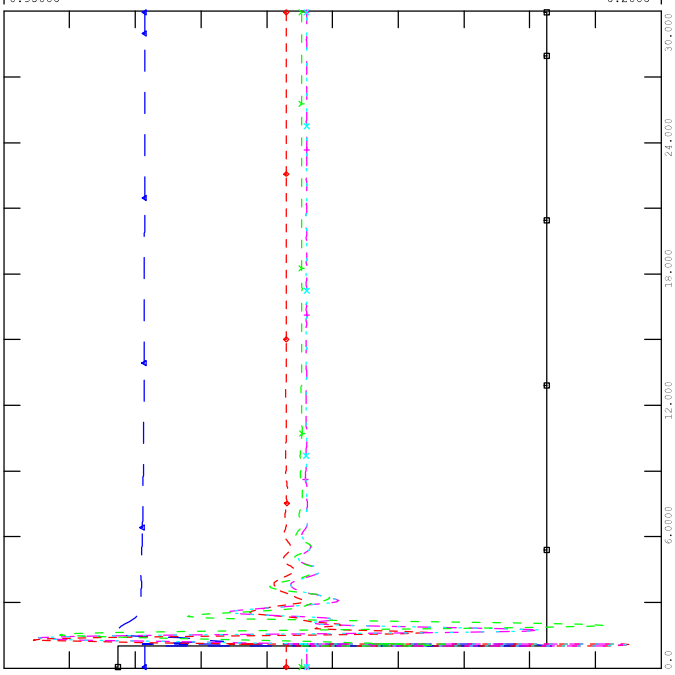


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON

FILE: scn8_SP_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 110: [POWR 3187[CECST 13.200]2] 1.8765 -0.4676
CHNL# 109: [POWR 775[SECCT2 21.000]3] 3.9936 0.22020
CHNL# 108: [POWR 774[SECCT1 21.000]2] 3.9936 0.22020
CHNL# 107: [POWR 773[SECST 20.000]1] 4.9814 0.37980
CHNL# 132: [POWR972378[0.7000]G1] 1.0075 -0.1942
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1] 0.95000 -0.2000

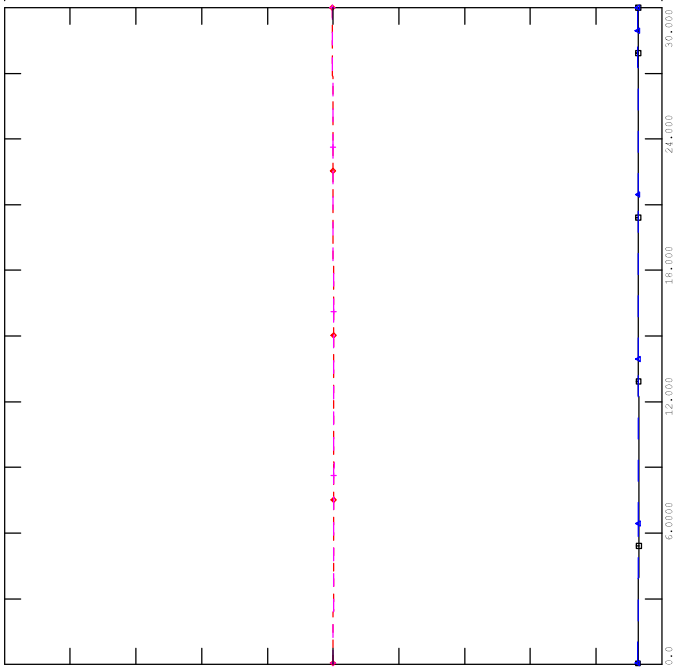


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_NOFAULT

FILE: scn8_SP_A2_nofault.out

SAT, MAY 21 2022 1:18 BRANCH P

CHNL# 379: [927L_A2_1_P] -466.2 -546.4
CHNL# 361: [924L_A2_1_P] -463.1 -543.3
CHNL# 347: [1003L_P] 519.79 -601.0
CHNL# 371: [985L_P] 526.18 -607.4

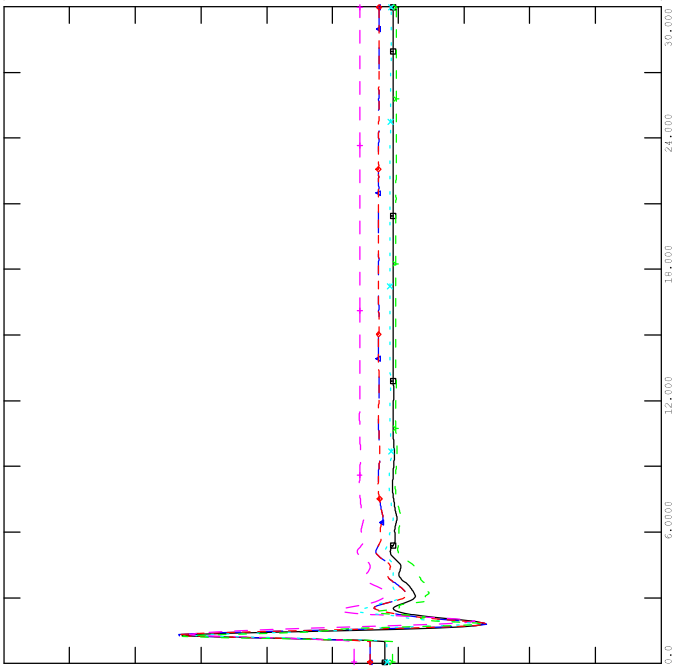


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON

FILE: scn8_SP_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:18 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSBLAZ 13.800]2] 121.91 -61.75
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1] 105.31 -67.34
CHNL# 4: [ANGL 3187[CECST 13.200]2] 97.233 -79.59
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 122.79 -65.41
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 122.79 -65.41
CHNL# 1: [ANGL 773[SECST 20.000]1] 126.17 -58.62



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON

FILE: scn8_SP_A2_01_924L_Langdon.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.7302 0.21620
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.9741 0.17450

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON

FILE: scn8_SP_A2_01_924L_Langdon.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.98340 -0.2865
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.53800 -0.6113
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2402 -0.4637
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
2.3058 -0.5939
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2754 -0.4805
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3523 -0.4945

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON

FILE: scn8_SP_A2_01_924L_Langdon.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.67400 -0.0592
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.65240 -0.1071
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.6455 0.09670
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.2933 -0.1053
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.77420 -0.1052
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.71790 0.02760

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON

FILE: scn8_SP_A2_01_924L_Langdon.out

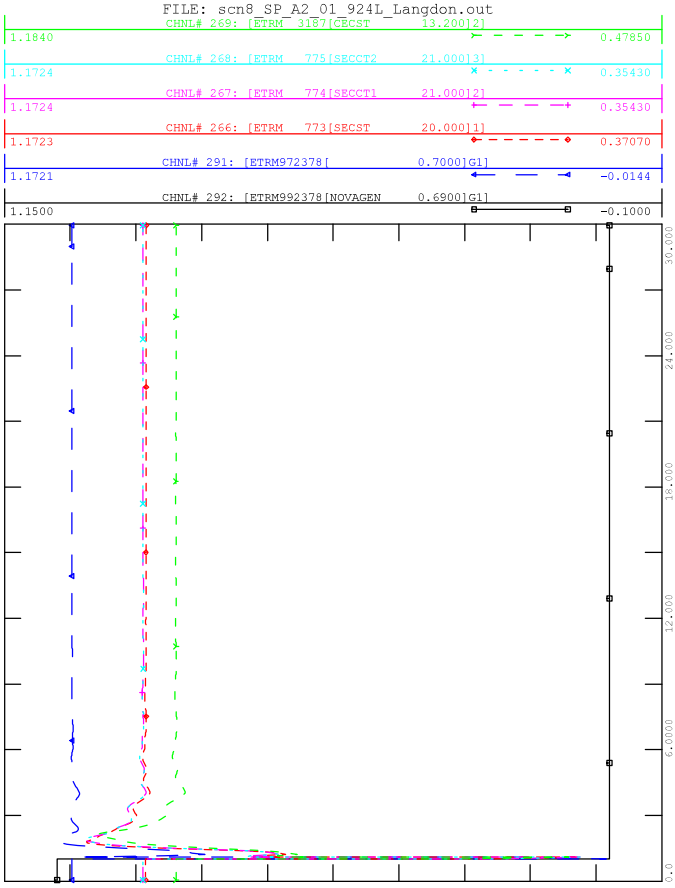
CHNL# 163: [VARS 3187[CECST 13.200]2]
3.1529 -1.099
CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.8488 -2.643
CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.8488 -2.643
CHNL# 160: [VARS 773[SECST 20.000]1]
7.3315 -3.175
CHNL# 185: [VARS972378[0.7000]G1]
1.0614 -0.5179
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.59140 -0.5000

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON

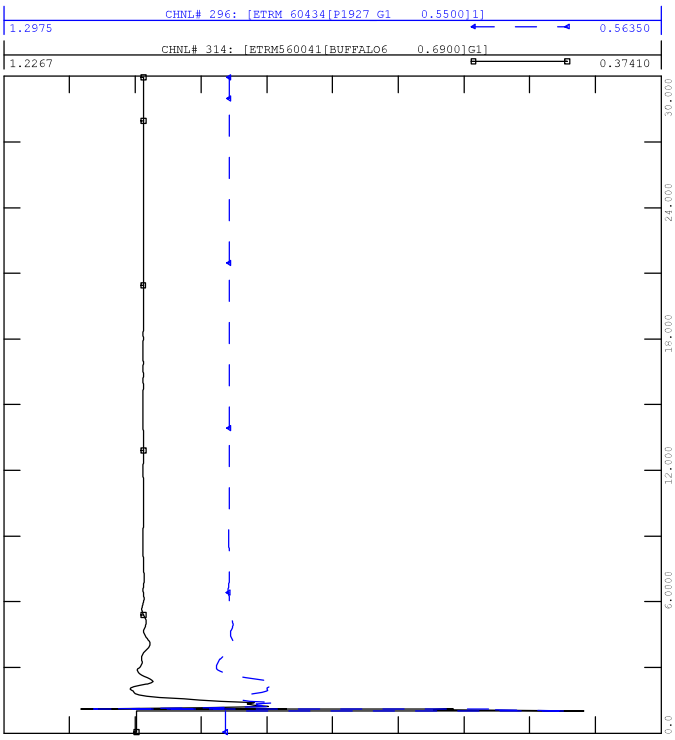
FILE: scn8_SP_A2_01_924L_Langdon.out



SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON

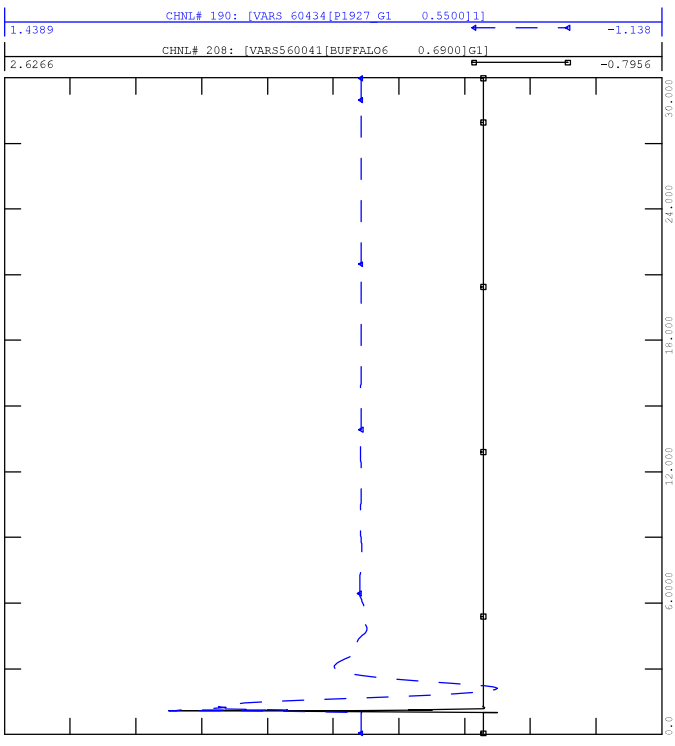
FILE: scn8_SP_A2_01_924L_Langdon.out



SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON

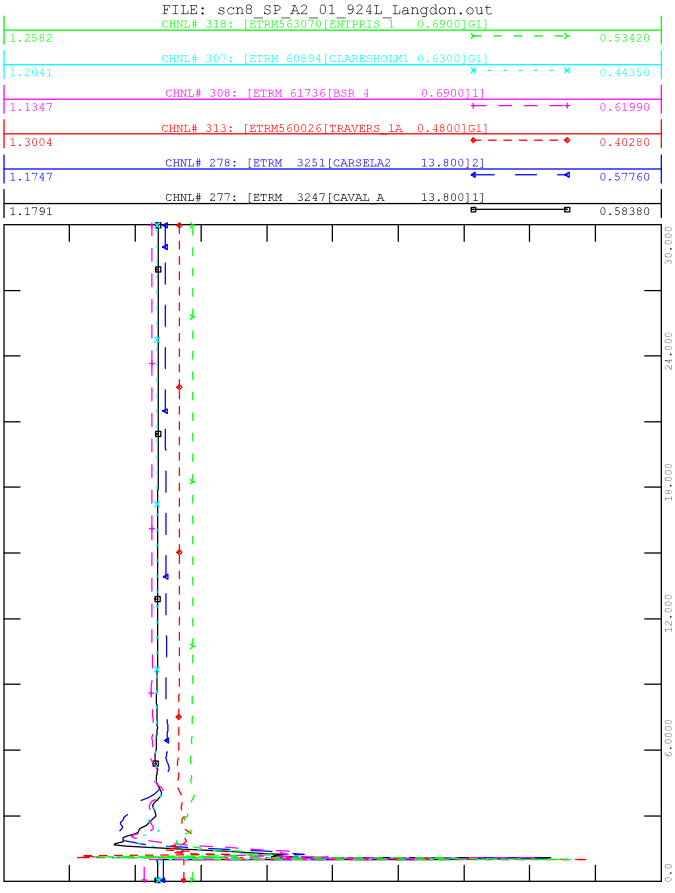
FILE: scn8_SP_A2_01_924L_Langdon.out



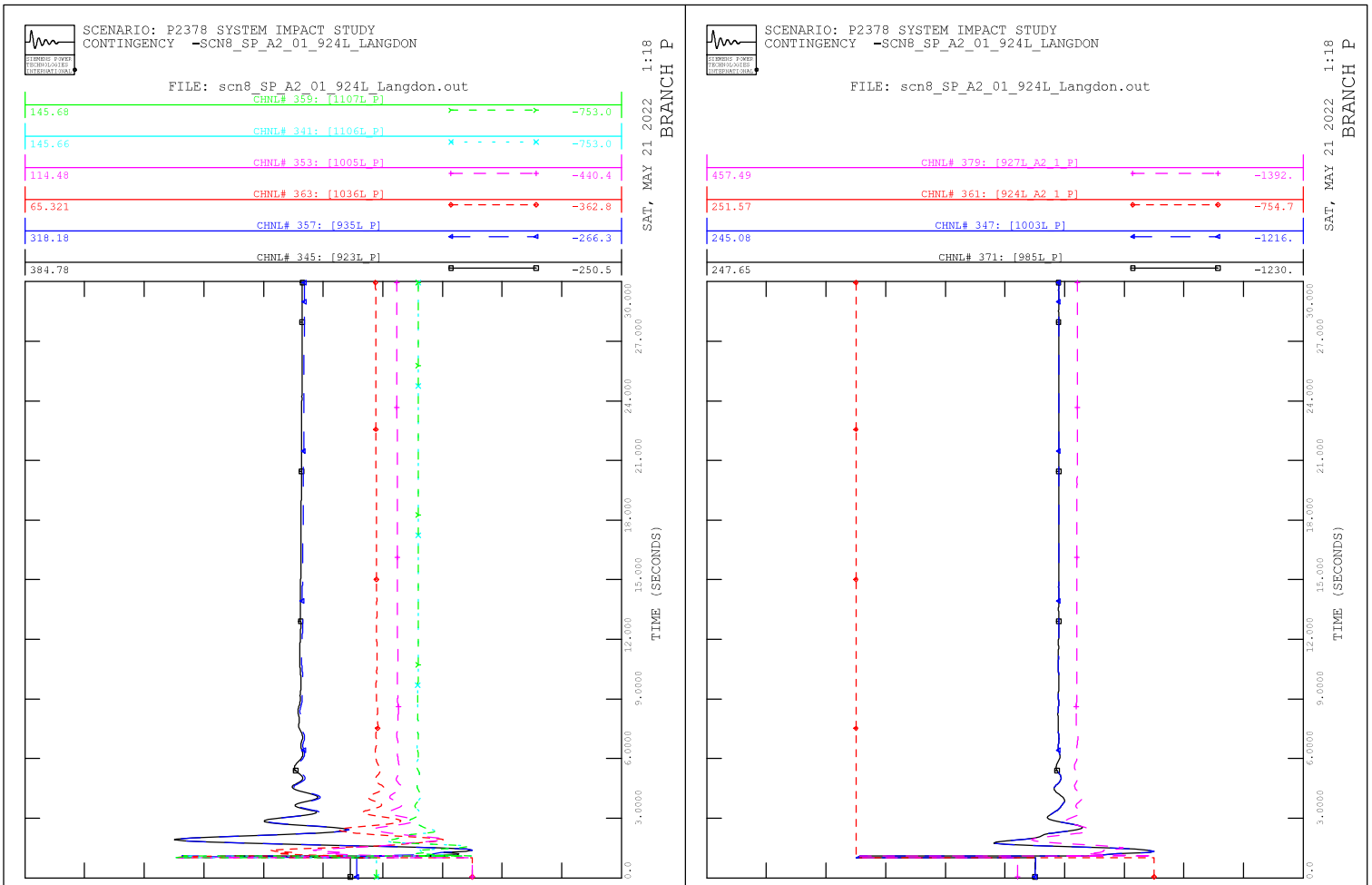
SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON

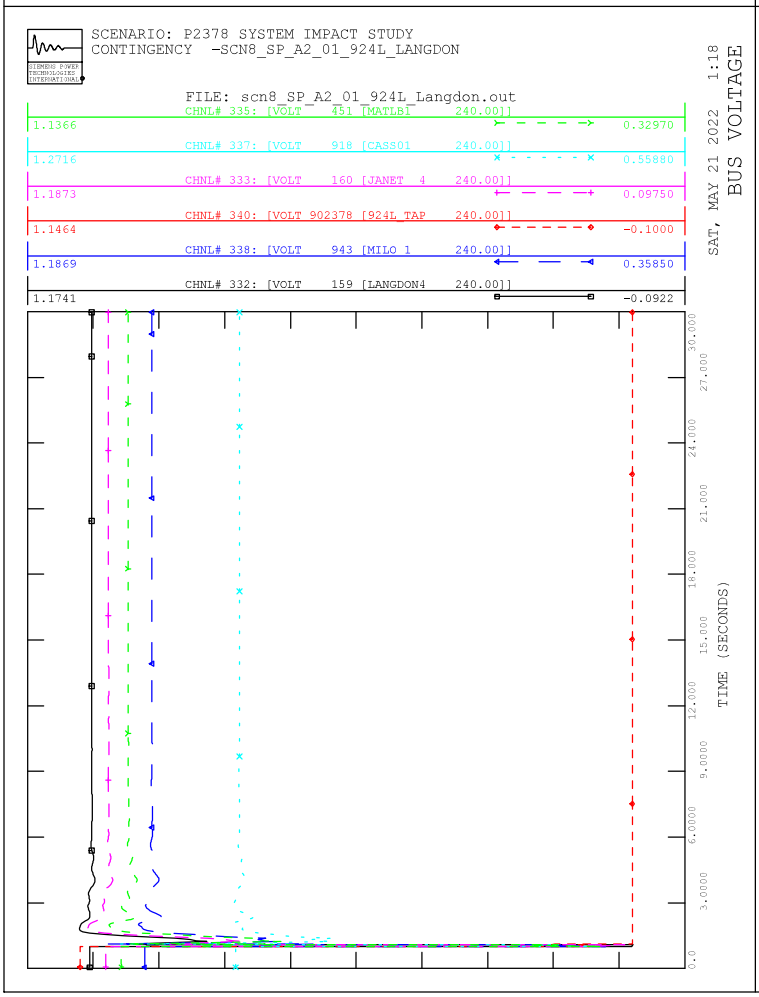
FILE: scn8_SP_A2_01_924L_Langdon.out

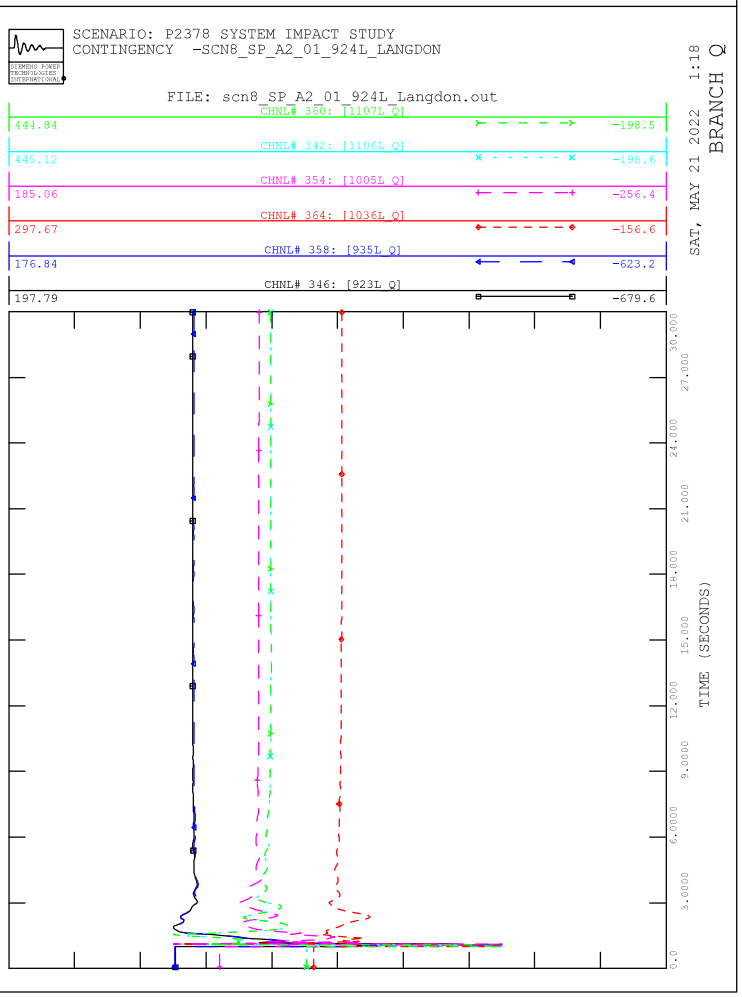


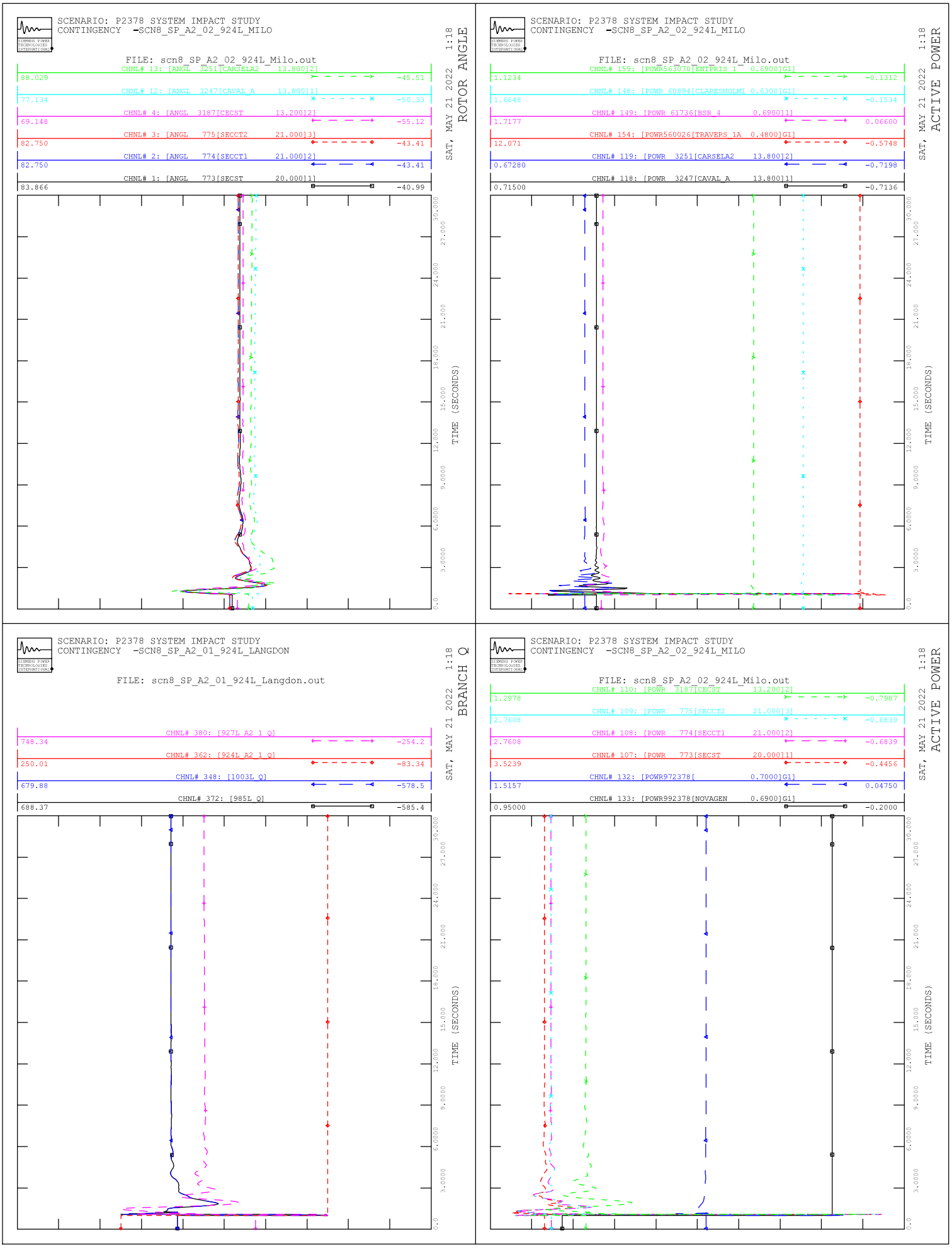
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON
FILE: scn8_SP_A2_01_924L_Langdon.out
CHNL# 359: [1107L P]
145.68
-753.0
CHNL# 341: [1106L P]
145.66
-753.0
CHNL# 353: [1005L P]
114.48
-440.4
CHNL# 363: [1036L P]
65.321
-362.8
CHNL# 357: [935L P]
318.18
-266.3
CHNL# 345: [923L P]
384.78
-250.5
SAT, MAY 21 2022 1:18
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON
FILE: scn8_SP_A2_01_924L_Langdon.out
CHNL# 379: [927L A2 1 P]
457.49
-1392.
CHNL# 361: [924L A2 1 P]
251.57
-754.7
CHNL# 347: [1003L P]
245.08
-1216.
CHNL# 371: [985L P]
247.65
-1230.
SAT, MAY 21 2022 1:18
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON
FILE: scn8_SP_A2_01_924L_Langdon.out
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1366
0.32970
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.2716
0.55880
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1873
0.09750
CHNL# 340: [VOLT 902378 [924L_TAP 240.00]]
1.1464
-0.1000
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.1869
0.35850
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1741
-0.0922
SAT, MAY 21 2022 1:18
BUS VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON
FILE: scn8_SP_A2_01_924L_Langdon.out
CHNL# 360: [1107L Q]
444.84
-198.5
CHNL# 342: [1106L Q]
445.12
-198.6
CHNL# 354: [1005L Q]
185.06
-256.4
CHNL# 364: [1036L Q]
297.67
-156.6
CHNL# 358: [935L Q]
176.84
-623.2
CHNL# 346: [923L Q]
197.79
-679.6
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO
FILE: scn8_SP_A2_02_924L_Milo.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
88.029
-45.51
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
77.134
-50.33
CHNL# 4: [ANGL 3187[CECST 13.200]2]
69.148
-55.12
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
82.750
-43.41
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
82.750
-43.41
CHNL# 1: [ANGL 773[SECST 20.000]1]
83.866
-40.99
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO
FILE: scn8_SP_A2_02_924L_Milo.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
1.1234
-0.1312
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
1.6648
-0.1534
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.7177
0.06600
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
12.071
-0.5748
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.67280
-0.7198
CHNL# 118: [POWR 3247[CAVAL_A 13.800]1]
0.71500
-0.7136
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_01_924L_LANGDON
FILE: scn8_SP_A2_01_924L_Langdon.out
CHNL# 380: [927L A2 1 Q]
748.34
-254.2
CHNL# 362: [924L A2 1 Q]
250.01
-83.34
CHNL# 348: [1003L Q]
679.88
-578.5
CHNL# 372: [985L Q]
688.37
-585.4
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO
FILE: scn8_SP_A2_02_924L_Milo.out
CHNL# 110: [POWR 3187[CECST 13.200]2]
1.2978
-0.7987
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.7608
-0.6839
CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.7608
-0.6839
CHNL# 107: [POWR 773[SECST 20.000]1]
3.5239
-0.4456
CHNL# 132: [POWR972378[0.7000]G1]
1.5157
0.04750
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
0.95000
-0.2000
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
2.0109 -1.471

CHNL# 162: [VARS 775[SECCT2 21.000]3]
4.3207 -4.652

CHNL# 161: [VARS 774[SECCT1 21.000]2]
4.3207 -4.652

CHNL# 160: [VARS 773[SECST 20.000]1]
5.3393 -5.580

CHNL# 185: [VARS972378[0.7000]G1]
0.88150 -0.5179

CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.59140 -0.5000

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
2.9860 -3.803

CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
12.290 -4.091

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.2033 -0.2000

CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.2128 -0.2000

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
1.4618 -0.3508

CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.87020 -0.6113

CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2300 -0.5515

CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
4.1491 -1.630

CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.1152 -1.423

CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.94850 -0.8569

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
2.7622 0.34140
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
2.8949 0.26540
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1388 0.35970
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
13.892 -0.4170
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.2398 0.73320
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1815 0.78300

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 335: [VOLT 451 [MATLB1 240.00]]
3.6608 0.11980
CHNL# 337: [VOLT 918 [CASS01 240.00]]
2.6141 0.25200
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.3328 0.59290
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1464 -0.1000
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
3.2489 -0.1331
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.3234 0.54180

SAT, MAY 21 2022 1:18
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1227 0.71330
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1831 0.65550
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1831 0.65550
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1806 0.66150
CHNL# 291: [ETRM972378[0.7000]G1]
1.7462 0.45840
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 -0.1000

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
2.1424 0.26310
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
3.4814 -0.1325

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 360: [1107L Q]
907.80 -1715.
CHNL# 342: [1106L Q]
907.99 -1715.
CHNL# 354: [1005L Q]
8534.3 -24652
CHNL# 364: [1036L Q]
2577.2 -875.3
CHNL# 358: [935L Q]
7026.6 -2640.
CHNL# 346: [923L Q]
6752.4 -2591.

SAT, MAY 21 2022 1:18 BRANCH Q

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 380: [927L A2 1 Q]
2014.9 -3645.
CHNL# 362: [924L A2 1 Q]
2978.9 -993.0
CHNL# 348: [1003L Q]
585.69 -653.3
CHNL# 372: [985L Q]
592.86 -660.2

SAT, MAY 21 2022 1:18 BRANCH Q

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

FILE: scn8_SP_A2_02_924L_Milo.out

CHNL# 359: [1107L P]
490.20 -1979.
CHNL# 341: [1106L P]
490.51 -1980.
CHNL# 353: [1005L P]
2575.3 -7730.
CHNL# 363: [1036L P]
233.55 -721.3
CHNL# 357: [935L P]
1213.1 -568.7
CHNL# 345: [923L P]
1165.6 -577.8

SAT, MAY 21 2022 1:18 BRANCH P

TIME (SECONDS)

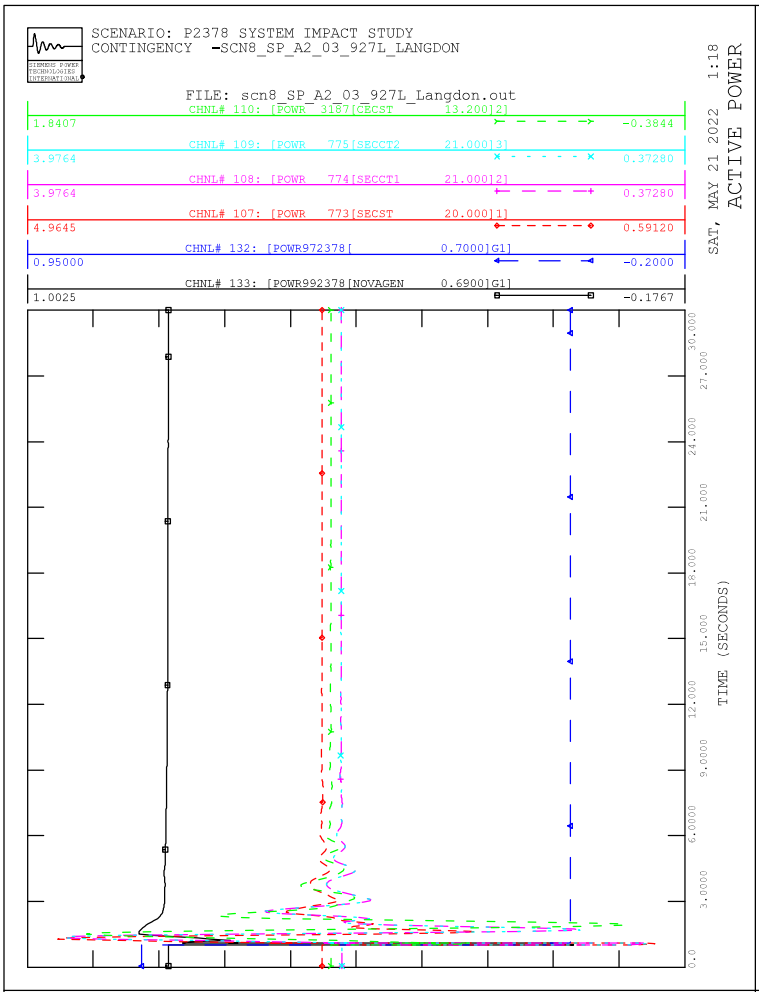
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_02_924L_MILO

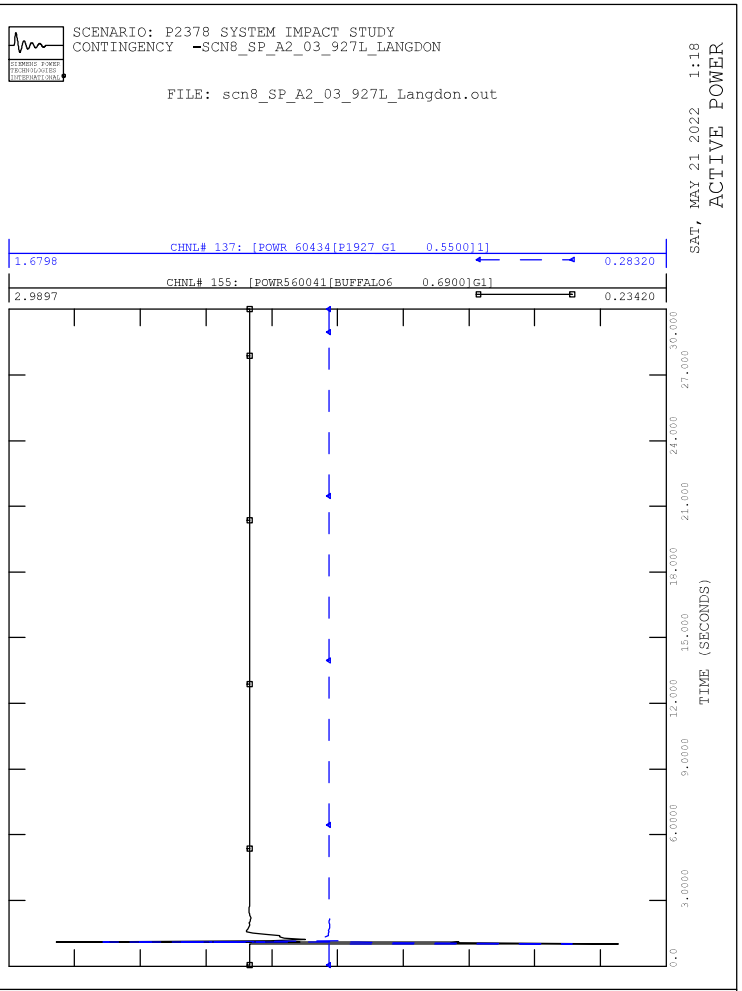
FILE: scn8_SP_A2_02_924L_Milo.out

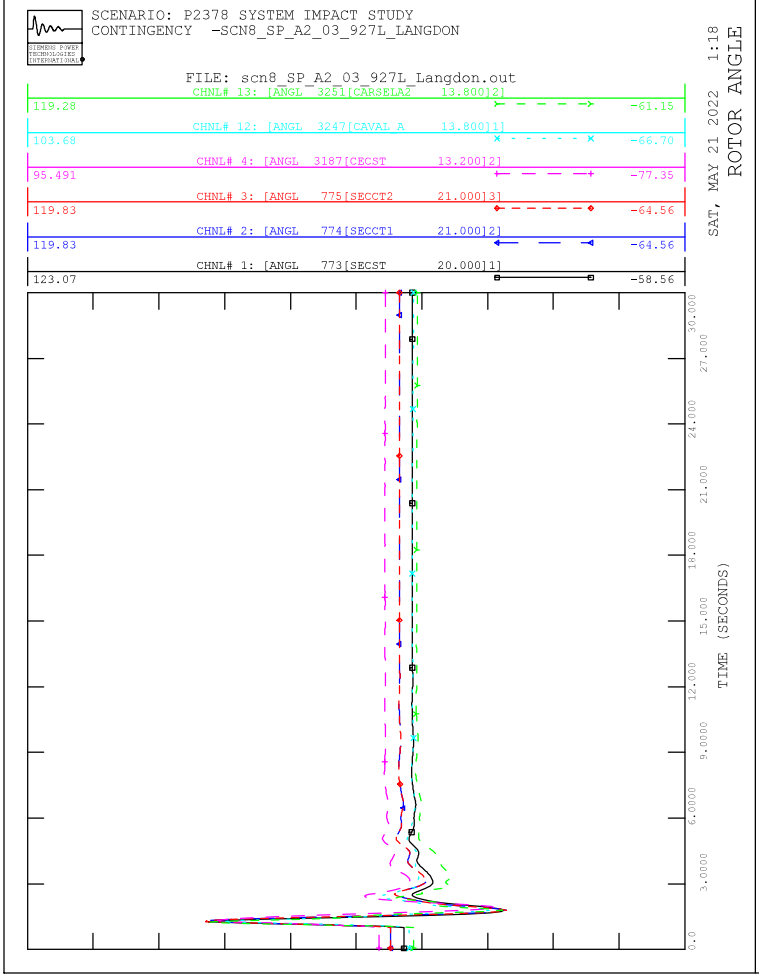
CHNL# 379: [927L A2 1 P]
1469.6 -4128.
CHNL# 361: [924L A2 1 P]
801.73 -938.1
CHNL# 347: [1003L P]
-169.3 -1205.
CHNL# 371: [985L P]
-171.2 -1219.

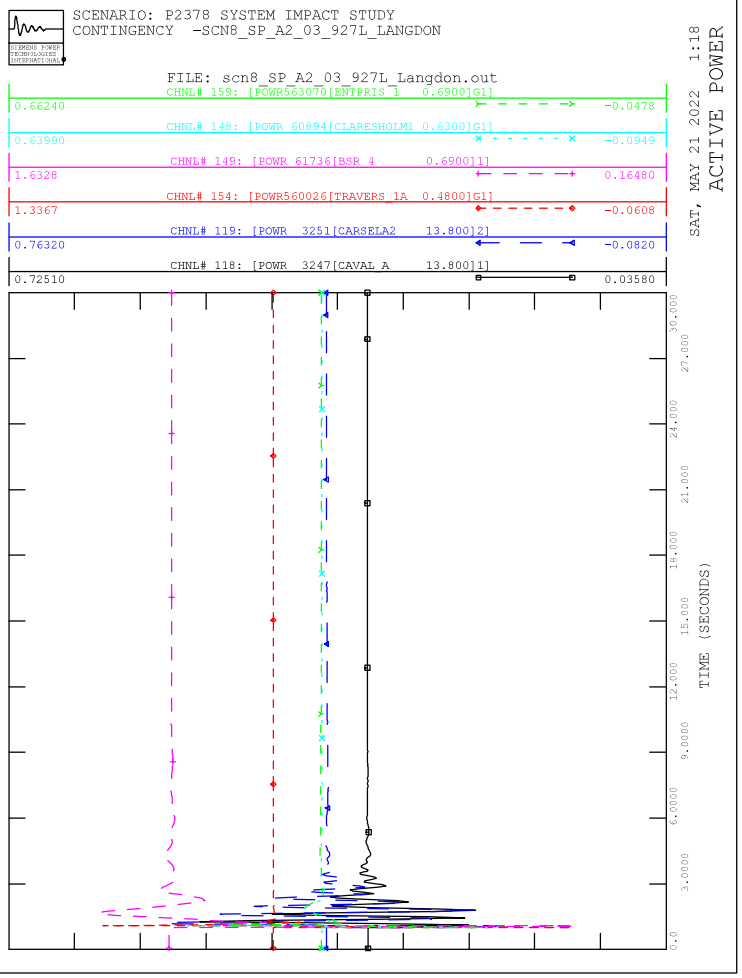
SAT, MAY 21 2022 1:18 BRANCH P

TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 110: [POWR 3187[CECST 13.200]2]
1.8407
-0.3844
CHNL# 109: [POWR 775[SECCT2 21.000]3]
3.9764
0.37280
CHNL# 108: [POWR 774[SECCT1 21.000]2]
3.9764
0.37280
CHNL# 107: [POWR 773[SECST 20.000]1]
4.9645
0.59120
CHNL# 132: [POWR972378[0.7000]G1]
0.95000
-0.2000
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0025
-0.1767
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.6798
0.28320
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.9897
0.23420
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

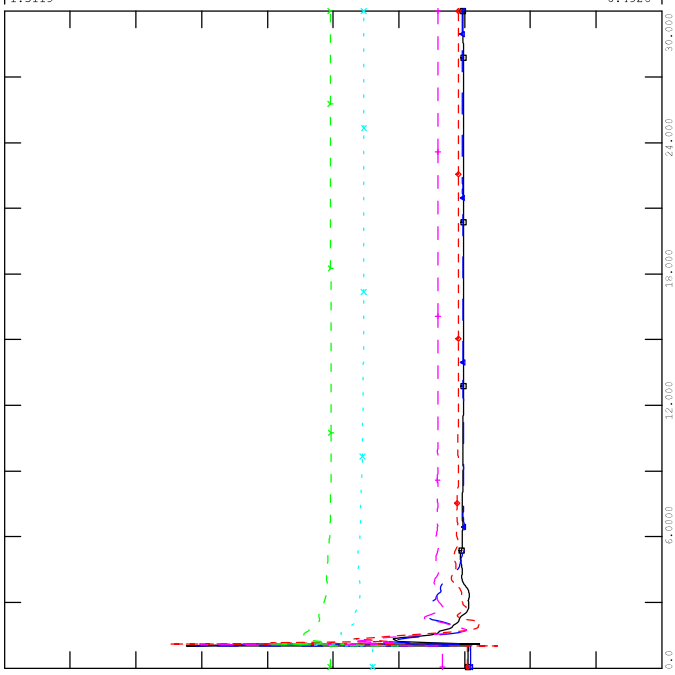

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
119.28
-61.15
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
103.68
-66.70
CHNL# 4: [ANGL 3187[CECST 13.200]2]
95.491
-77.35
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
119.83
-64.56
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
119.83
-64.56
CHNL# 1: [ANGL 773[SECST 20.000]1]
123.07
-58.56
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.66240
-0.0478
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.63990
-0.0949
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.6328
0.16480
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3367
-0.0608
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.76320
-0.0820
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.72510
0.03580
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON

FILE: scn8_SP_A2_03_927L_Langdon.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.96820 -0.2780
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.52530 -0.6113
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2227 -0.4601
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
2.3556 -0.5974
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2386 -0.4805
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3319 -0.4926

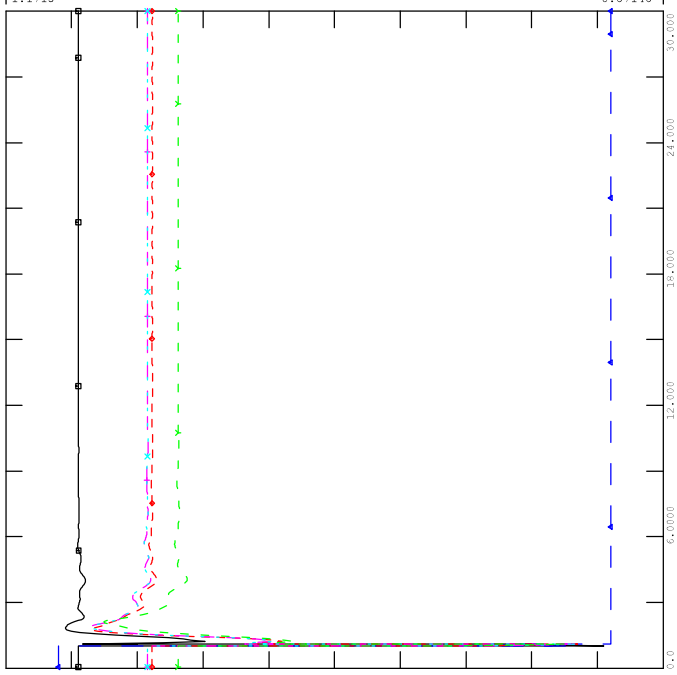


SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON

FILE: scn8_SP_A2_03_927L_Langdon.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1763 0.50420
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1683 0.38670
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1683 0.38670
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1712 0.40190
CHNL# 291: [ETRM972378[0.7000]G1]
1.1500 -0.1000
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1715 0.07140

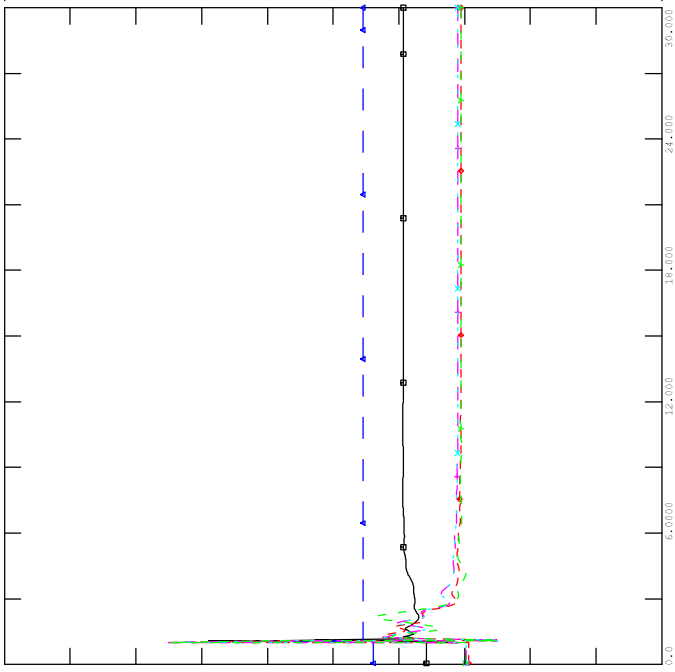


SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON

FILE: scn8_SP_A2_03_927L_Langdon.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
3.0218 -1.037
CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.7022 -2.546
CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.7022 -2.546
CHNL# 160: [VARS 773[SECST 20.000]1]
7.1265 -3.050
CHNL# 185: [VARS972378[0.7000]G1]
0.62140 -0.5179
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
1.1227 -0.4851

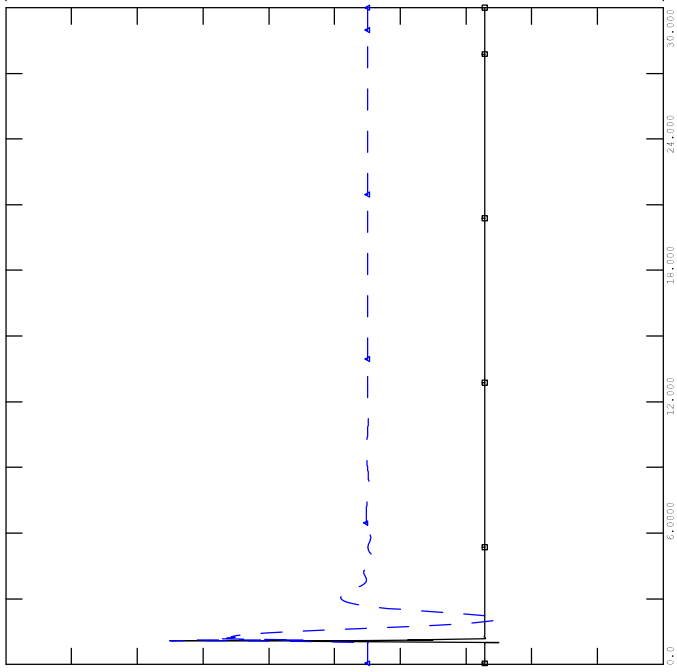


SAT, MAY 21 2022 1:18
REACTIVE POWER

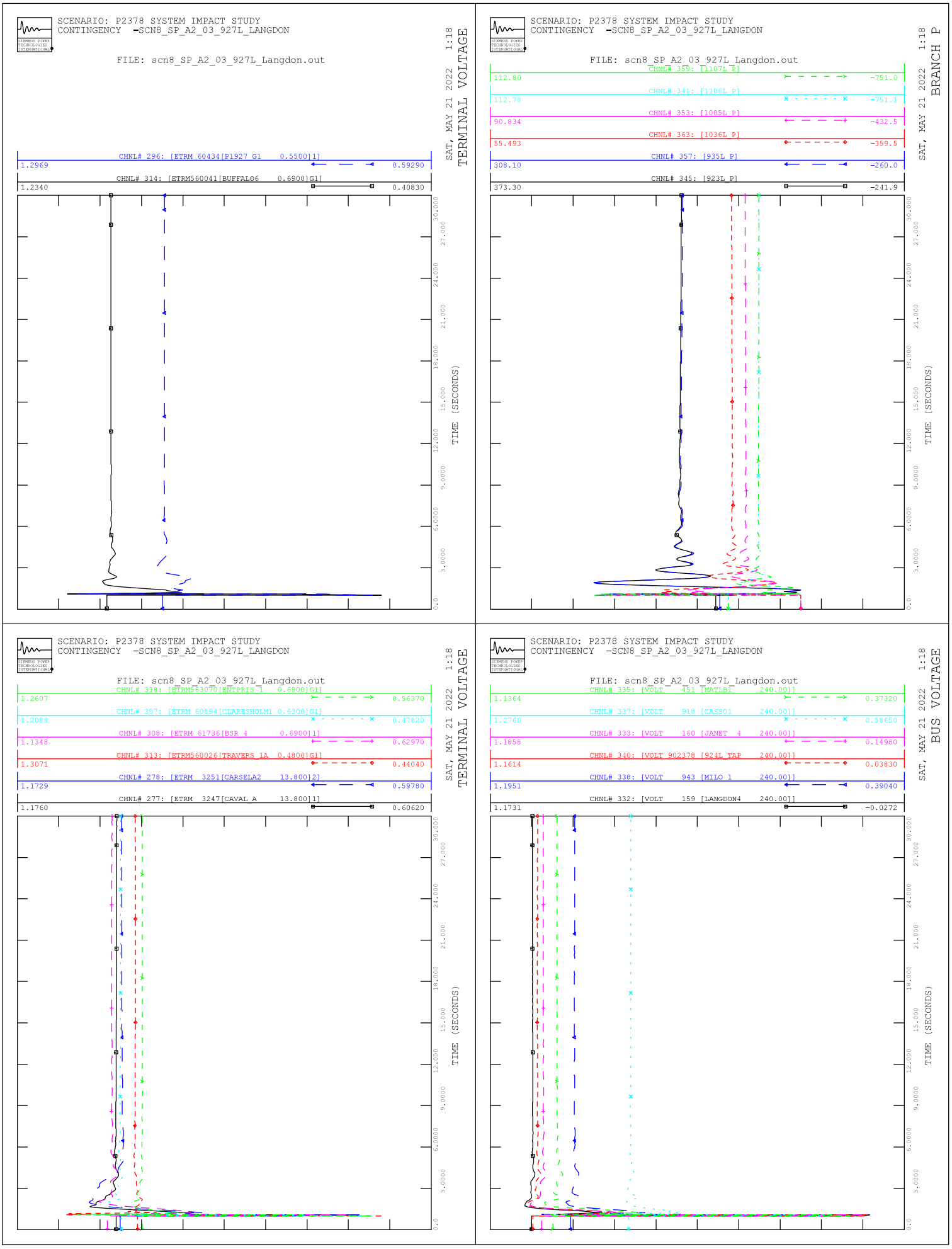
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON

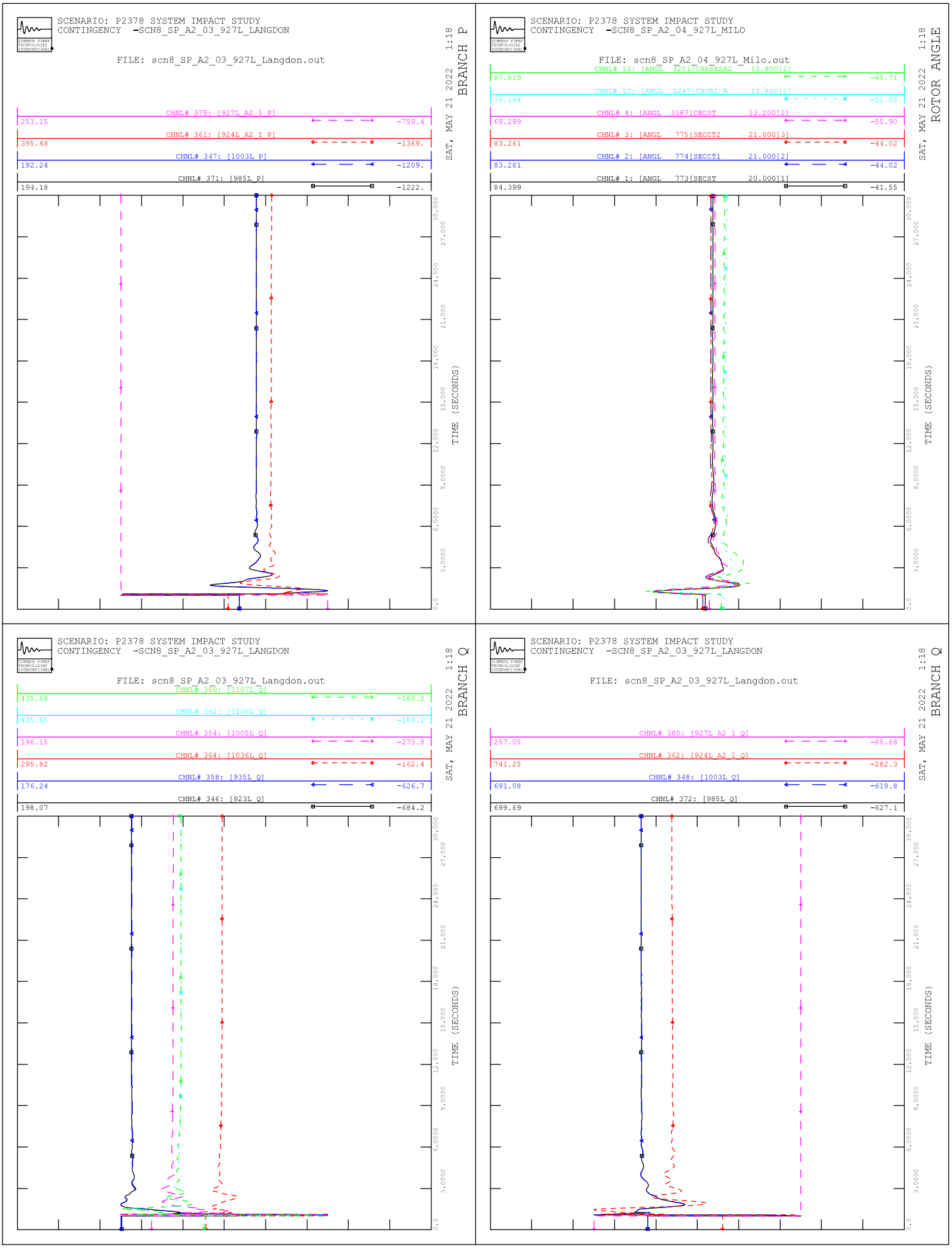
FILE: scn8_SP_A2_03_927L_Langdon.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
1.3287 -1.010
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
2.4924 -0.7454



SAT, MAY 21 2022 1:18
REACTIVE POWER


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
1.2969
0.59290
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.2340
0.40830
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 359: [1107L P]
112.80
-751.0
CHNL# 341: [1106L P]
112.78
-751.1
CHNL# 353: [1005L P]
90.834
-432.5
CHNL# 363: [1036L P]
55.493
-359.5
CHNL# 357: [935L P]
308.10
-260.0
CHNL# 345: [923L P]
373.30
-241.9
SAT, MAY 21 2022 1:18
BRANCH P
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 318: [ETRM563070[BNTPRIS 1 0.6900]G1]
1.2607
0.56370
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2088
0.47820
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1348
0.62970
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3071
0.44040
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1729
0.59780
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1760
0.60620
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 335: [VOLT 751 [MATLB1 240.00]]
1.1364
0.37320
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.2760
0.58650
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1858
0.14980
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1614
0.03830
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.1951
0.39040
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1731
-0.0272
SAT, MAY 21 2022 1:18
BUS VOLTAGE
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 379: [927L_A2_1_P]
253.15
-759.4
CHNL# 361: [924L_A2_1_P]
395.48
-1369.
CHNL# 347: [1003L_P]
192.24
-1209.
CHNL# 371: [985L_P]
194.18
-1222.
SAT, MAY 21 2022 1:18
BRANCH P
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO
FILE: scn8_SP_A2_04_927L_Milo.out
CHNL# 13: [ANGL 3251[CARBELA2 13.800]2]
87.819
-45.71
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
76.194
-51.05
CHNL# 4: [ANGL 3187[CECST 13.200]2]
69.299
-55.90
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
83.261
-44.02
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
83.261
-44.02
CHNL# 1: [ANGL 773[SECST 20.000]1]
84.399
-41.55
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 360: [1107L_Q]
435.68
-189.2
CHNL# 342: [1106L_Q]
435.95
-189.2
CHNL# 354: [1005L_Q]
196.15
-273.8
CHNL# 364: [1036L_Q]
295.82
-162.4
CHNL# 358: [935L_Q]
176.24
-626.7
CHNL# 346: [923L_Q]
198.07
-684.2
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_03_927L_LANGDON
FILE: scn8_SP_A2_03_927L_Langdon.out
CHNL# 380: [927L_A2_1_Q]
257.05
-85.68
CHNL# 362: [924L_A2_1_Q]
741.25
-282.3
CHNL# 348: [1003L_Q]
691.08
-619.8
CHNL# 372: [985L_Q]
699.69
-627.1
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO

FILE: scn8_SP_A2_04_927L_Milo.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.70530 -0.0993

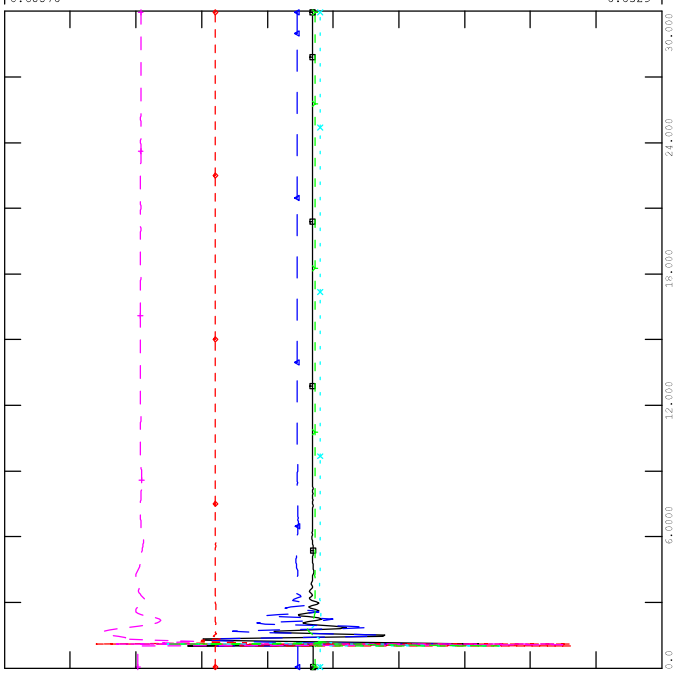
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.67830 -0.1304

CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.5447 0.21540

CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.2344 -0.2000

CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.64710 -0.0078

CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.68570 -0.0329



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO

FILE: scn8_SP_A2_04_927L_Milo.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
1.5883 -0.4383

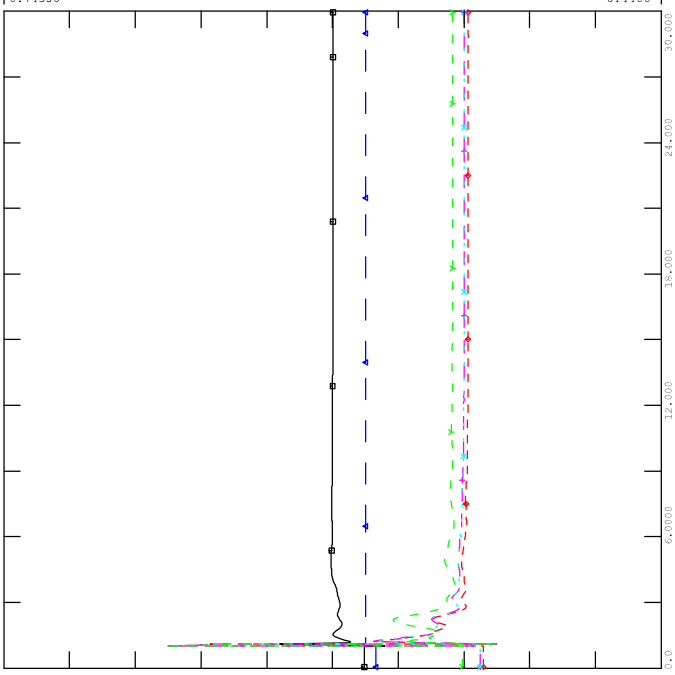
CHNL# 162: [VARS 775[SECCT2 21.000]3]
3.0529 -1.285

CHNL# 161: [VARS 774[SECCT1 21.000]2]
3.0529 -1.285

CHNL# 160: [VARS 773[SECST 20.000]1]
3.7910 -1.488

CHNL# 185: [VARS972378[0.7000]G1]
0.63360 -0.5179

CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.74350 -0.4466



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO

FILE: scn8_SP_A2_04_927L_Milo.out

CHNL# 110: [POWR 3187[CECST 13.200]2]
1.2485 0.35650

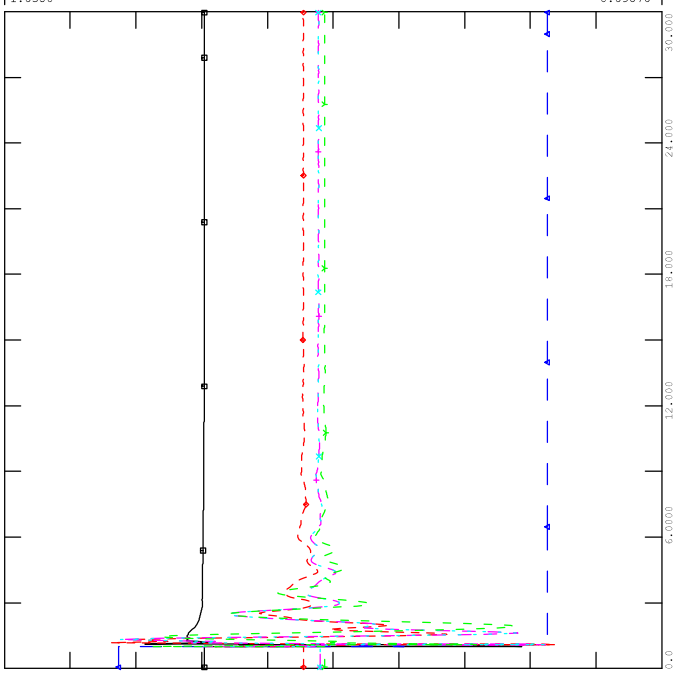
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.7967 1.6654

CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.7967 1.6654

CHNL# 107: [POWR 773[SECST 20.000]1]
3.5667 2.3314

CHNL# 132: [POWR972378[0.7000]G1]
0.95000 -0.2000

CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0350 0.09870



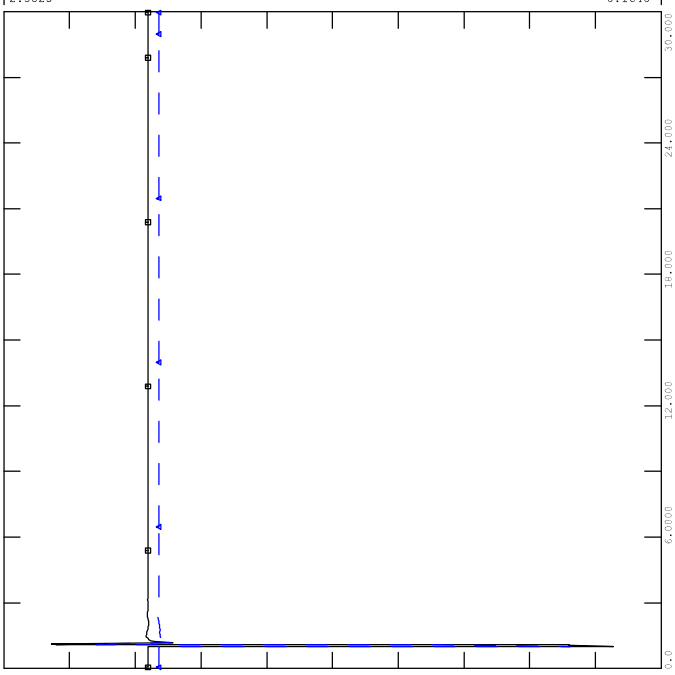
SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO

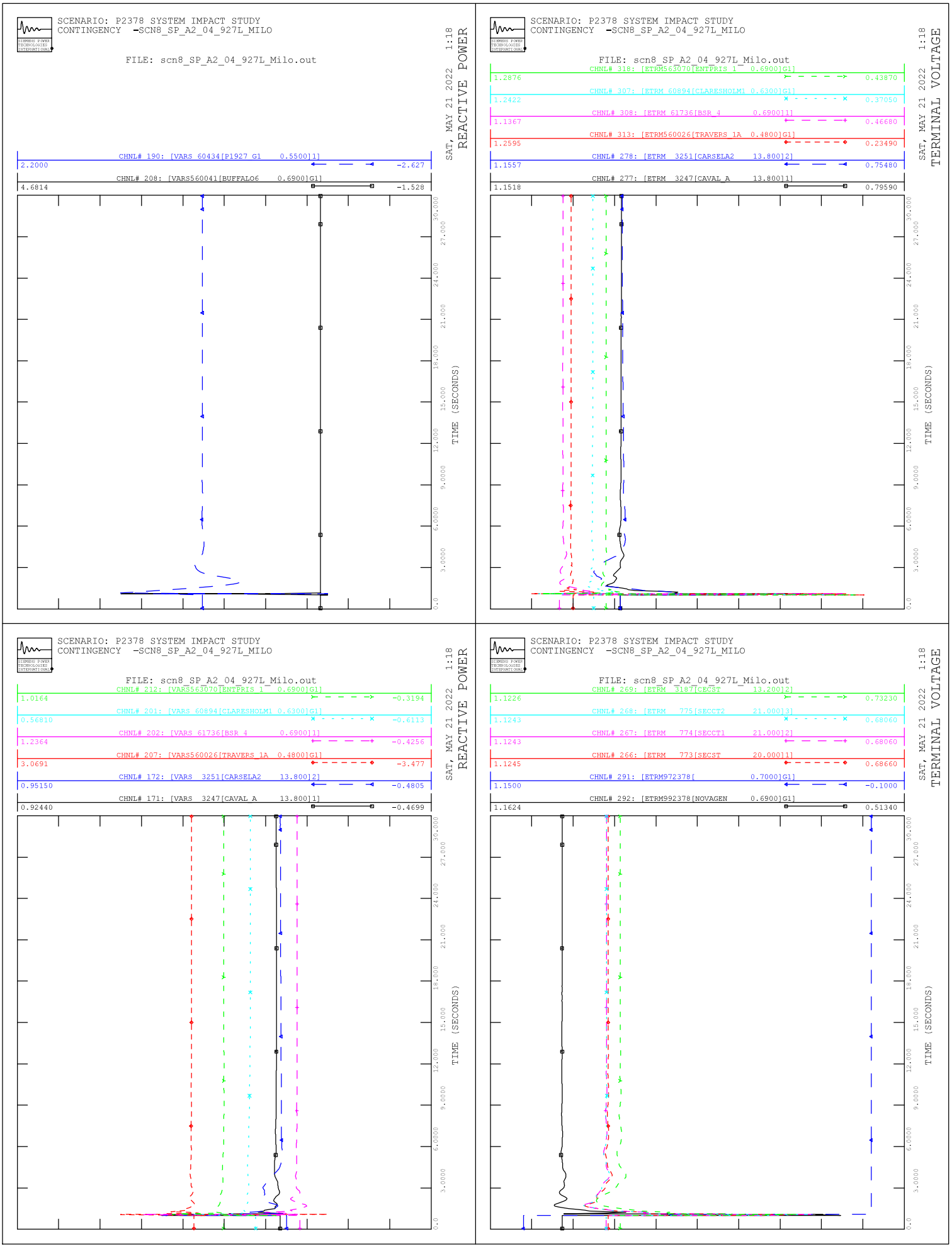
FILE: scn8_SP_A2_04_927L_Milo.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.3420 -0.1068

CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.5825 -0.1640

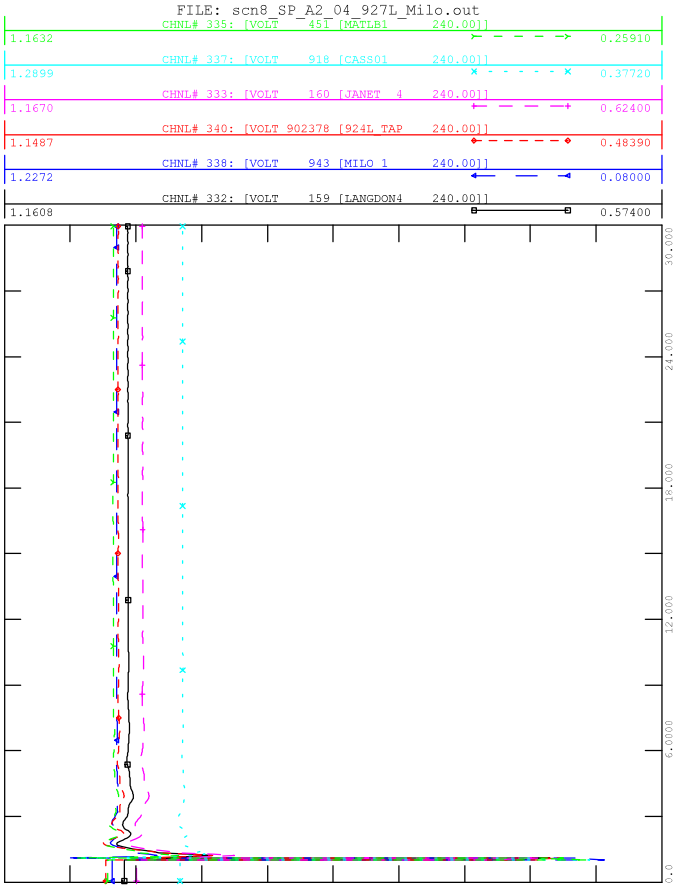


SAT, MAY 21 2022 1:18
ACTIVE POWER


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO
FILE: scn8_SP_A2_04_927L_Milo.out
SAT, MAY 21 2022 1:18
REACTIVE POWER
CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
2.2000
-2.627
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
4.6814
-1.528
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO
FILE: scn8_SP_A2_04_927L_Milo.out
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2876
0.43870
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2422
0.37050
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1367
0.46680
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2595
0.23490
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1557
0.75480
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1518
0.79590
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO
FILE: scn8_SP_A2_04_927L_Milo.out
SAT, MAY 21 2022 1:18
REACTIVE POWER
CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
1.0164
-0.3194
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.56810
-0.6113
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2364
-0.4256
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
3.0691
-3.477
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
0.95150
-0.4805
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.92440
-0.4699
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO
FILE: scn8_SP_A2_04_927L_Milo.out
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1226
0.73230
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1243
0.68060
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1243
0.68060
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1245
0.68660
CHNL# 291: [ETRM972378[0.7000]G1]
1.1500
-0.1000
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1624
0.51340
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO

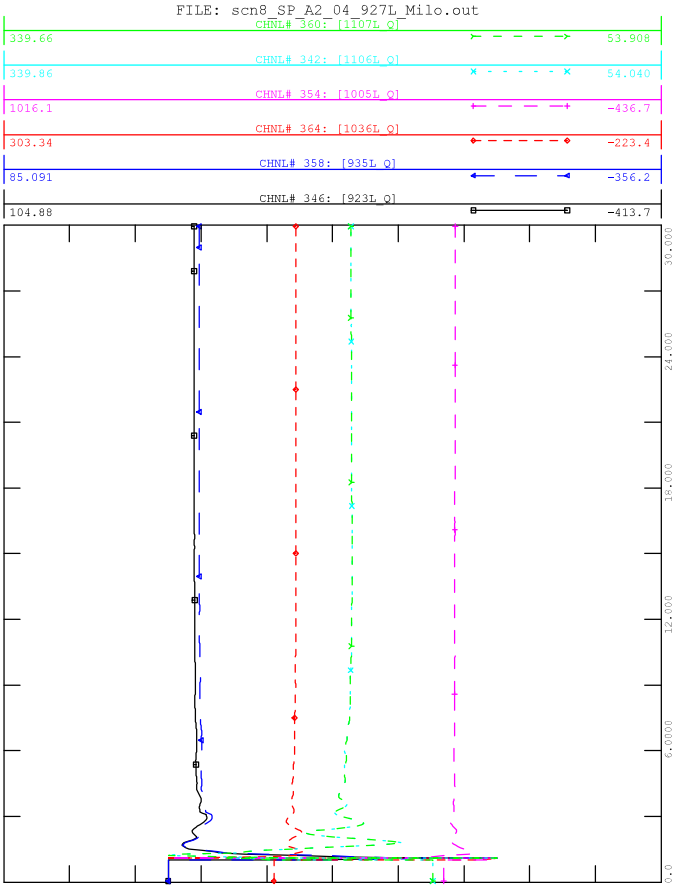
FILE: scn8_SP_A2_04_927L_Milo.out



SAT, MAY 21 2022 1:18
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO

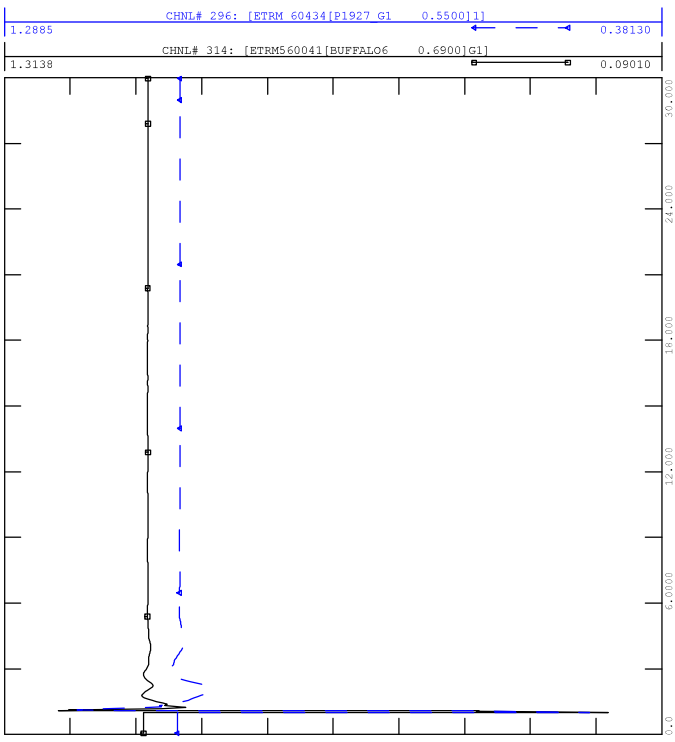
FILE: scn8_SP_A2_04_927L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO

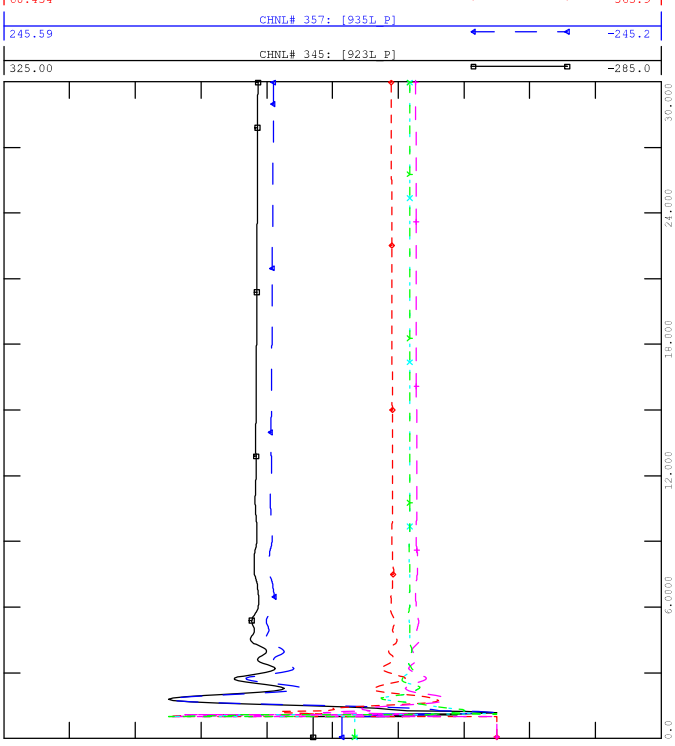
FILE: scn8_SP_A2_04_927L_Milo.out



SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO

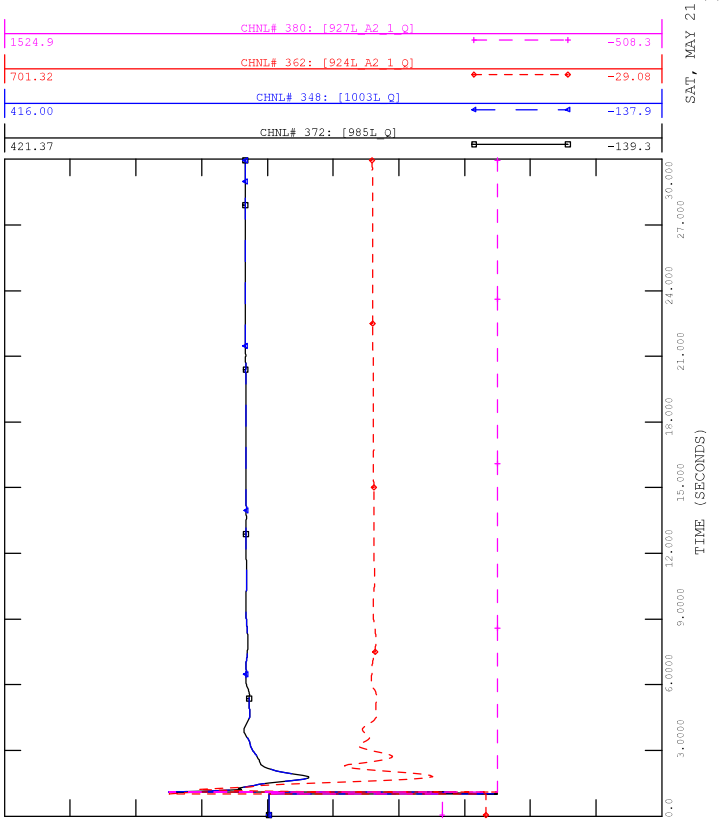
FILE: scn8_SP_A2_04_927L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO

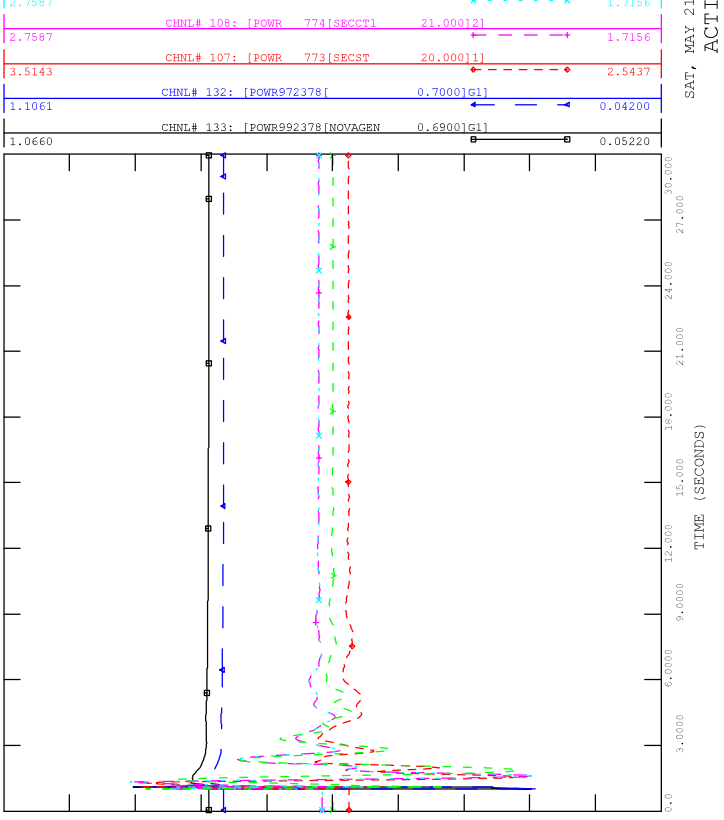
FILE: scn8_SP_A2_04_927L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

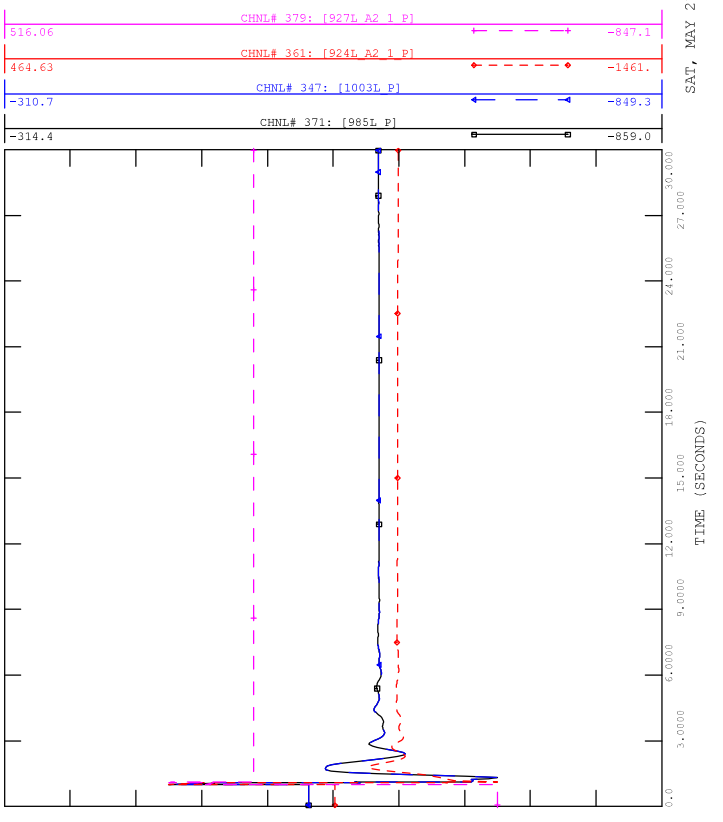
FILE: scn8_SP_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_04_927L_MILO

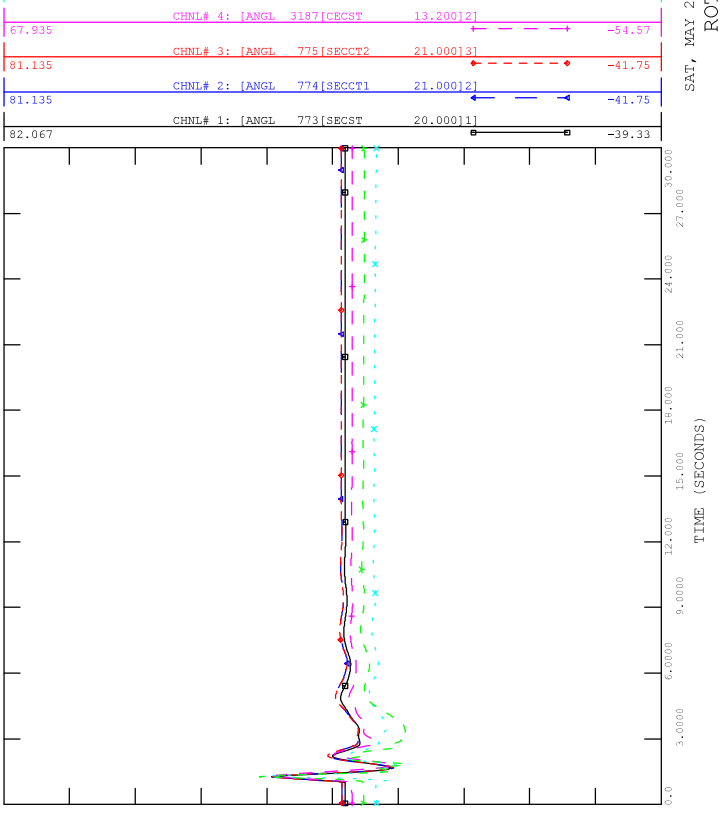
FILE: scn8_SP_A2_04_927L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

FILE: scn8_SP_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

FILE: scn8_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.2031 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.1967 -0.2000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

FILE: scn8_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
1.1512 -0.3513
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.65910 -0.6113
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2278 -0.4566
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
1.9991 -0.6664
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
0.99080 -0.5215
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.95420 -0.4984

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

FILE: scn8_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.81710 -0.1317
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.79690 -0.1566
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.7284 0.02070
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.0580 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.67120 0.01840
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.71640 -0.0848

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

FILE: scn8_SP_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

CHNL# 163: [VARS 3187[CECST 13.200]2]
1.7427 -0.6601
CHNL# 162: [VARS 775[SECCT2 21.000]3]
3.3704 -1.742
CHNL# 161: [VARS 774[SECCT1 21.000]2]
3.3704 -1.742
CHNL# 160: [VARS 773[SECST 20.000]1]
4.1868 -2.054
CHNL# 185: [VARS972378[0.7000]G1]
0.76150 -0.5376
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.86880 -0.4510

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

FILE: scn8_SP_A2_05_1005L_Milo.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1192 0.71700

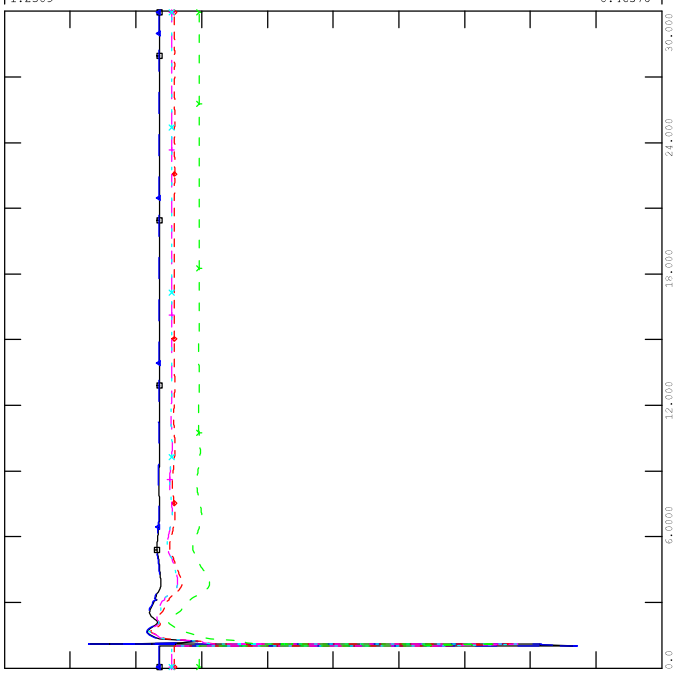
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1160 0.66020

CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1160 0.66020

CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1165 0.66620

CHNL# 291: [ETRM972378[0.7000]G1]
1.2333 0.45220

CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2309 0.46370



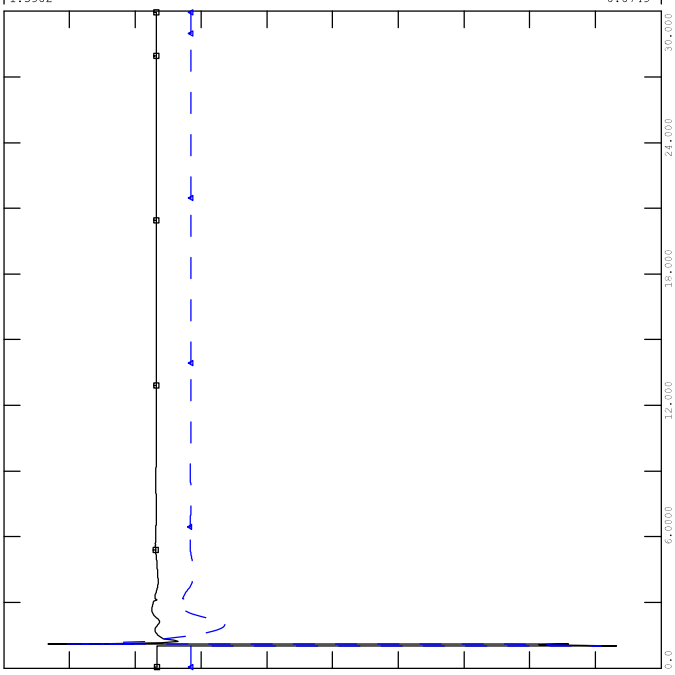
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

FILE: scn8_SP_A2_05_1005L_Milo.out

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
1.3619 0.26690

CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.3982 -0.0749



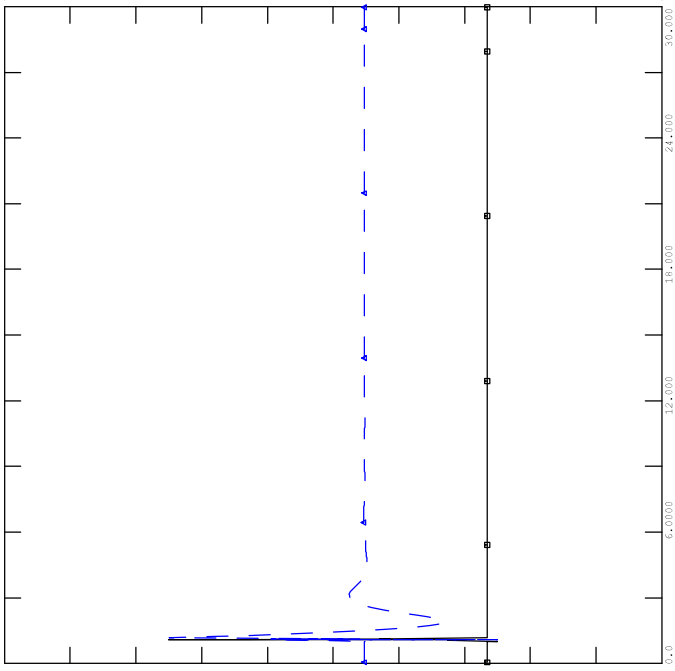
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

FILE: scn8_SP_A2_05_1005L_Milo.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
2.5181 -2.004

CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
6.1421 -2.043



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

FILE: scn8_SP_A2_05_1005L_Milo.out

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3155 0.34310

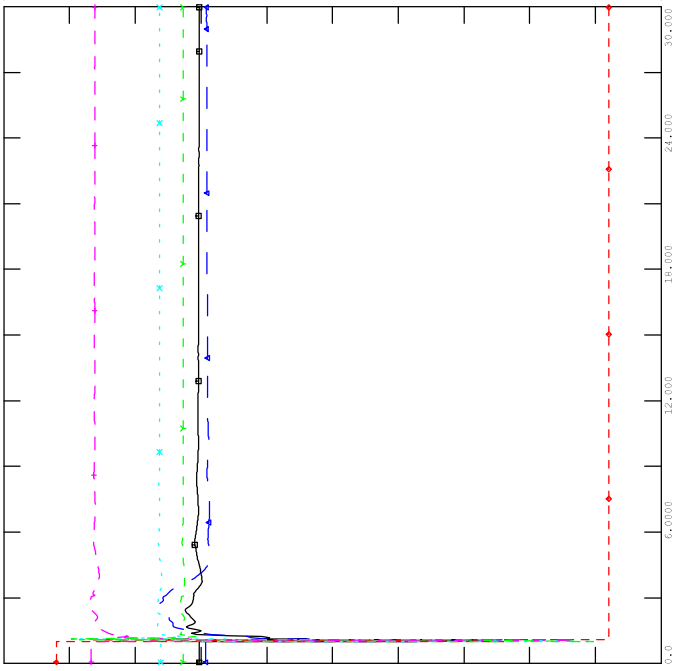
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2617 0.27180

CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1272 0.35950

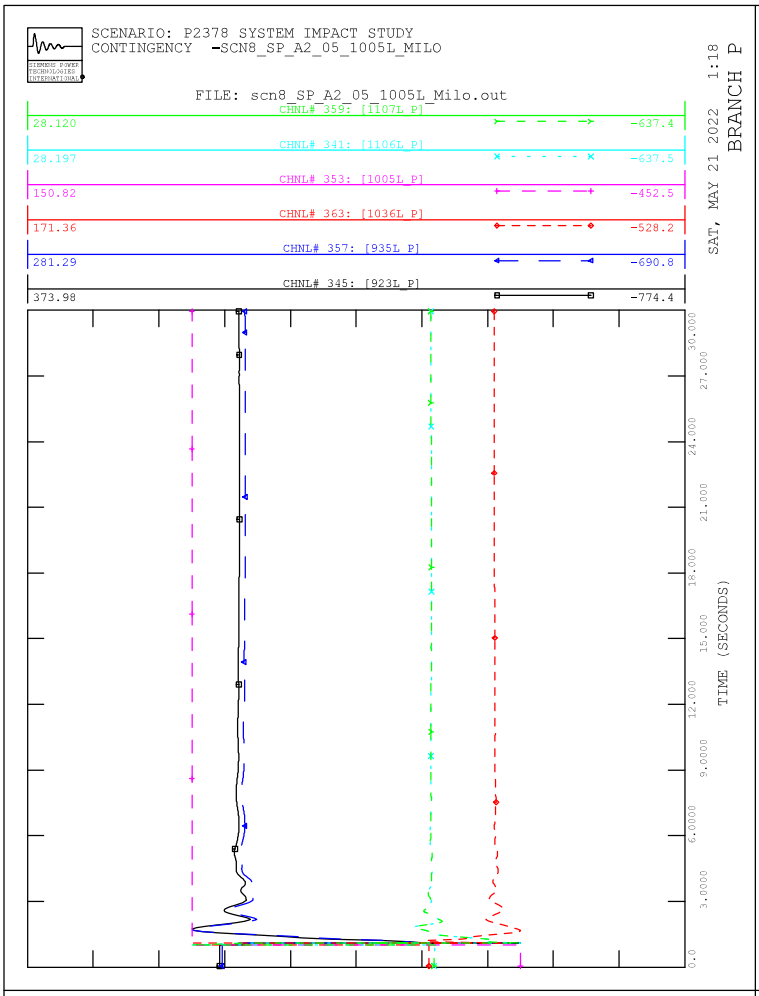
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.1550 -0.1000

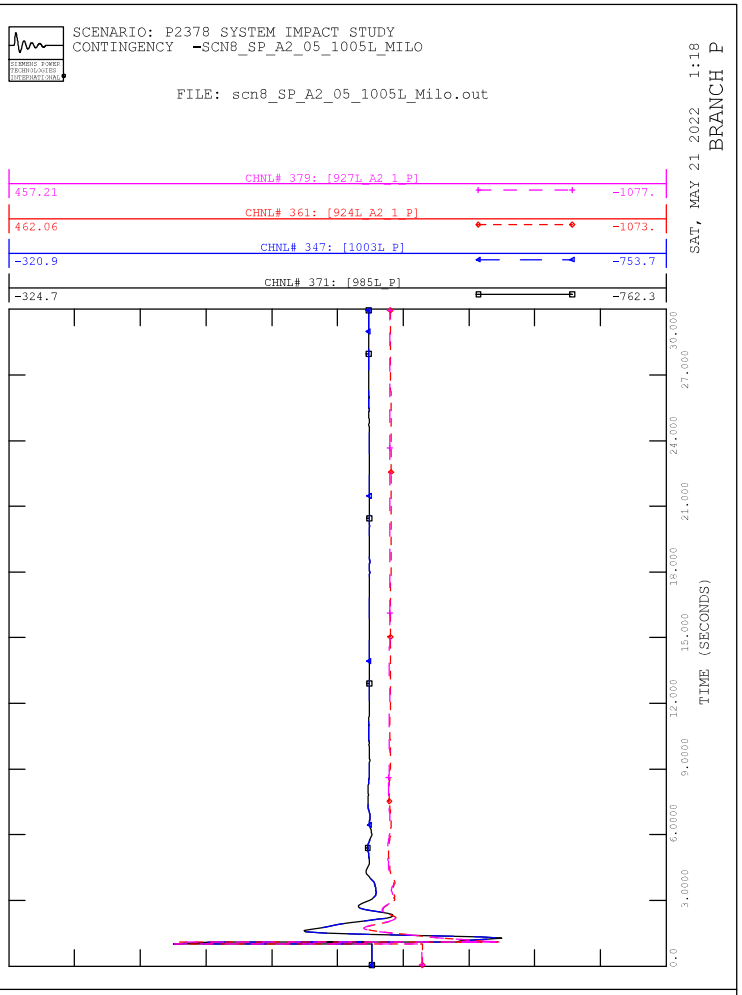
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1605 0.73600

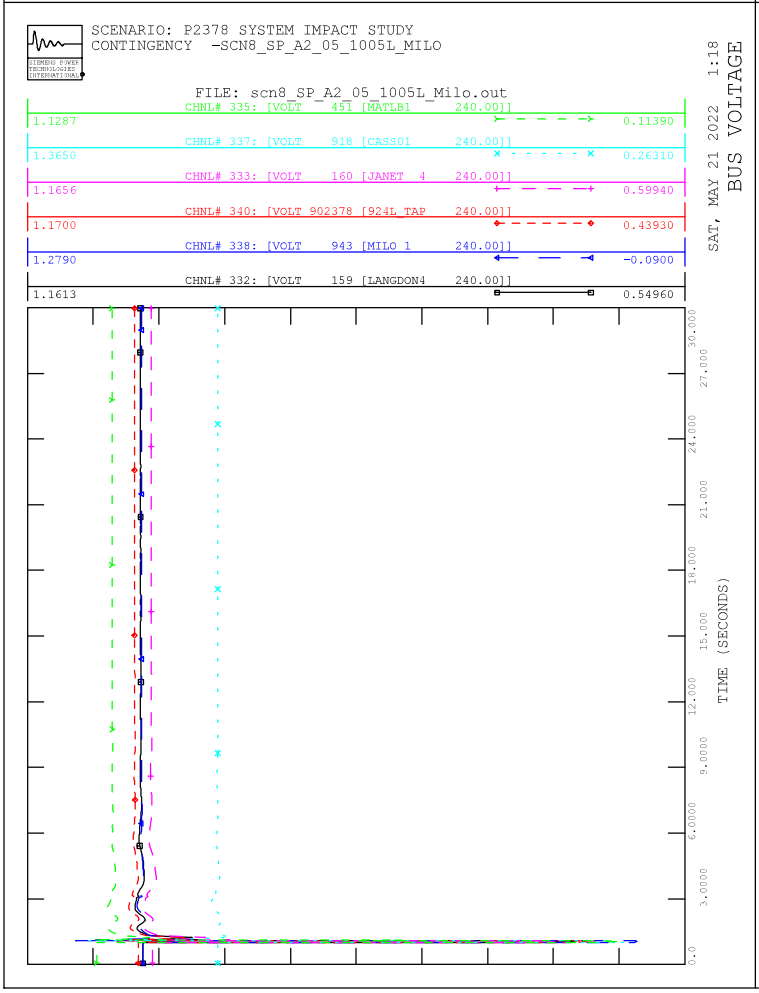
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1479 0.78520

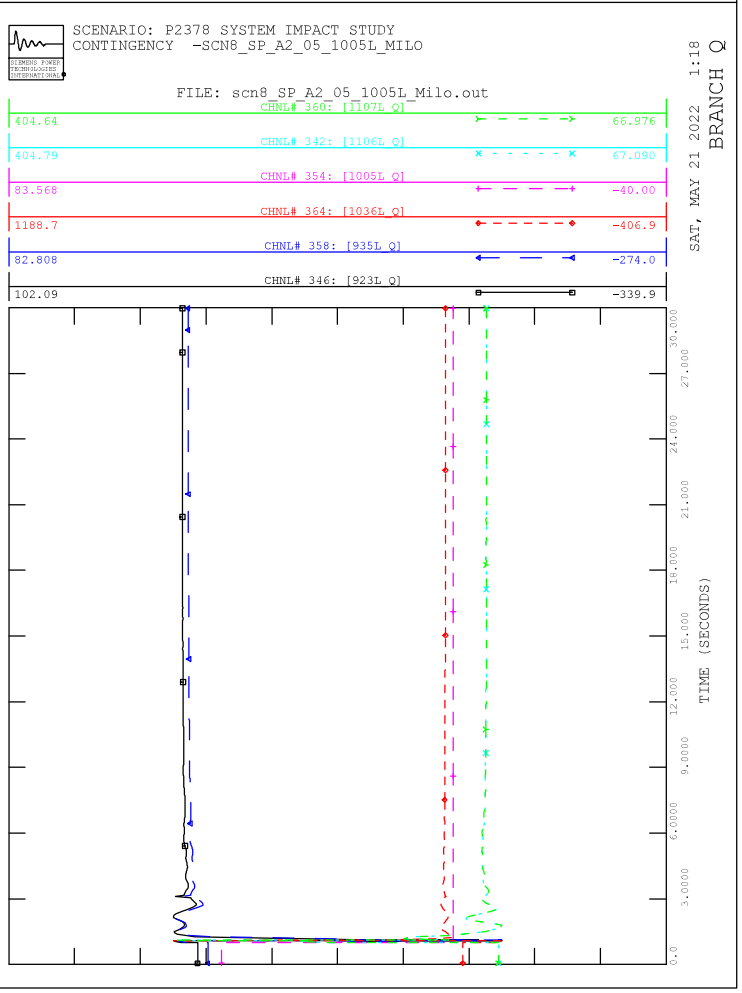


SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO
FILE: scn8_SP_A2_05_1005L_Milo.out
CHNL# 359: [1107L P]
28.120
-637.4
CHNL# 341: [1106L P]
28.197
-637.5
CHNL# 353: [1005L P]
150.82
-452.5
CHNL# 363: [1036L P]
171.36
-528.2
CHNL# 357: [935L P]
281.29
-690.8
CHNL# 345: [923L P]
373.98
-774.4
TIME (SECONDS)
SAT, MAY 21 2022 1:18
BRANCH P


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO
FILE: scn8_SP_A2_05_1005L_Milo.out
CHNL# 379: [927L A2 1 P]
457.21
-1077.
CHNL# 361: [924L A2 1 P]
462.06
-1073.
CHNL# 347: [1003L P]
-320.9
-753.7
CHNL# 371: [985L P]
-324.7
-762.3
TIME (SECONDS)
SAT, MAY 21 2022 1:18
BRANCH P


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO
FILE: scn8_SP_A2_05_1005L_Milo.out
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1287
0.11390
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.3650
0.26310
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1656
0.59940
CHNL# 340: [VOLT 902378 [924L_TAP 240.00]]
1.1700
0.43930
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2790
-0.0900
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1613
0.54960
TIME (SECONDS)
SAT, MAY 21 2022 1:18
BUS VOLTAGE


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO
FILE: scn8_SP_A2_05_1005L_Milo.out
CHNL# 360: [1107L Q]
404.64
66.976
CHNL# 342: [1106L Q]
404.79
67.090
CHNL# 354: [1005L Q]
83.568
-40.00
CHNL# 364: [1036L Q]
1188.7
-406.9
CHNL# 358: [935L Q]
82.808
-274.0
CHNL# 346: [923L Q]
102.09
-339.9
TIME (SECONDS)
SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A2_06_1005L_PictureButte.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2] 67.394 -43.49
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1] 59.711 -49.24
CHNL# 4: [ANGL 3187[CECST 13.200]2] 56.085 -51.13
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 69.580 -38.31
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 69.580 -38.31
CHNL# 1: [ANGL 773[SECST 20.000]1] 70.712 -36.54

SAT, MAY 21 2022 1:18
ROTOR ANGLE

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A2_06_1005L_PictureButte.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1] 0.69370 -0.1044
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.73300 -0.1498
CHNL# 149: [POWR 61736[BSR 4 0.6900]1] 1.5499 0.48440
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1] 0.97390 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2] 0.66550 0.02990
CHNL# 118: [POWR 3247[CAVAL_A 13.800]1] 0.69450 -0.0186

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_05_1005L_MILO

FILE: scn8_SP_A2_05_1005L_Milo.out

CHNL# 380: [927L A2 1 Q] 911.28 -308.2
CHNL# 362: [924L_A2_1_Q] 899.45 -307.7
CHNL# 348: [1003L Q] 594.19 -183.5
CHNL# 372: [985L Q] 601.53 -185.4

SAT, MAY 21 2022 1:18
BRANCH Q

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A2_06_1005L_PictureButte.out

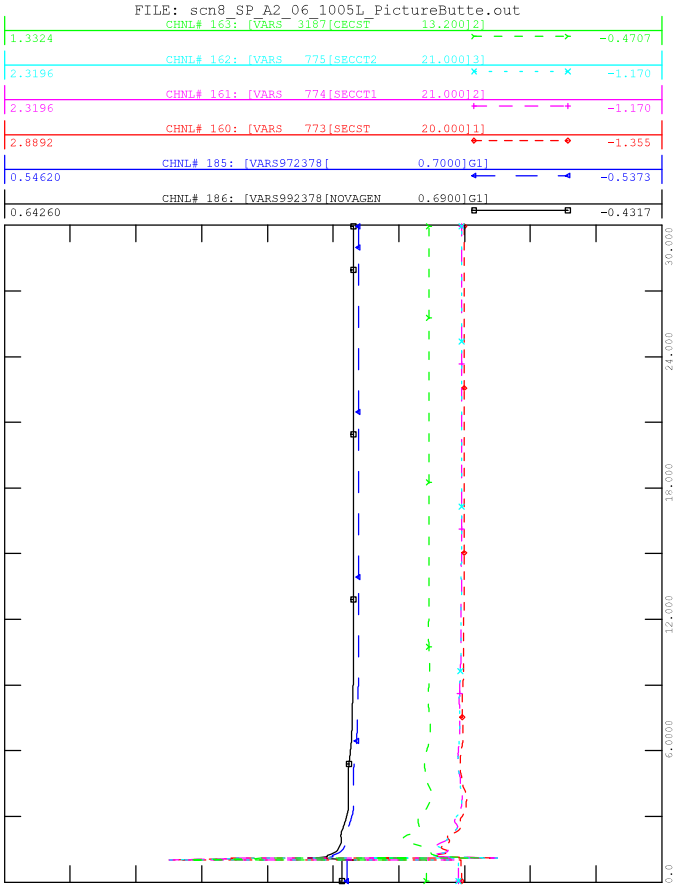
CHNL# 110: [POWR 3187[CECST 13.200]2] 1.2602 0.47470
CHNL# 109: [POWR 775[SECCT2 21.000]3] 2.8050 1.8058
CHNL# 108: [POWR 774[SECCT1 21.000]2] 2.8050 1.8058
CHNL# 107: [POWR 773[SECST 20.000]1] 3.5788 2.5682
CHNL# 132: [POWR972378[0.7000]G1] 1.0855 0.28060
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1] 1.0779 0.28890

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

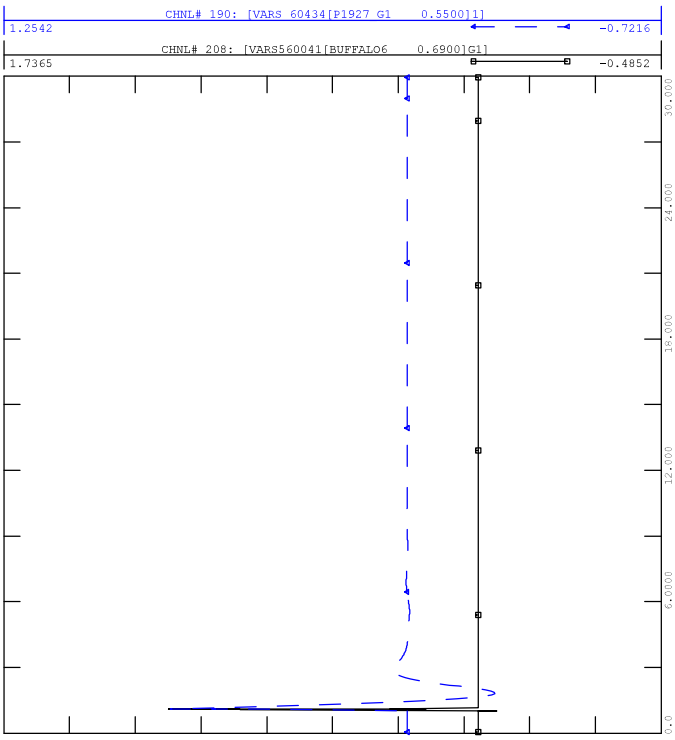
FILE: scn8_SP_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

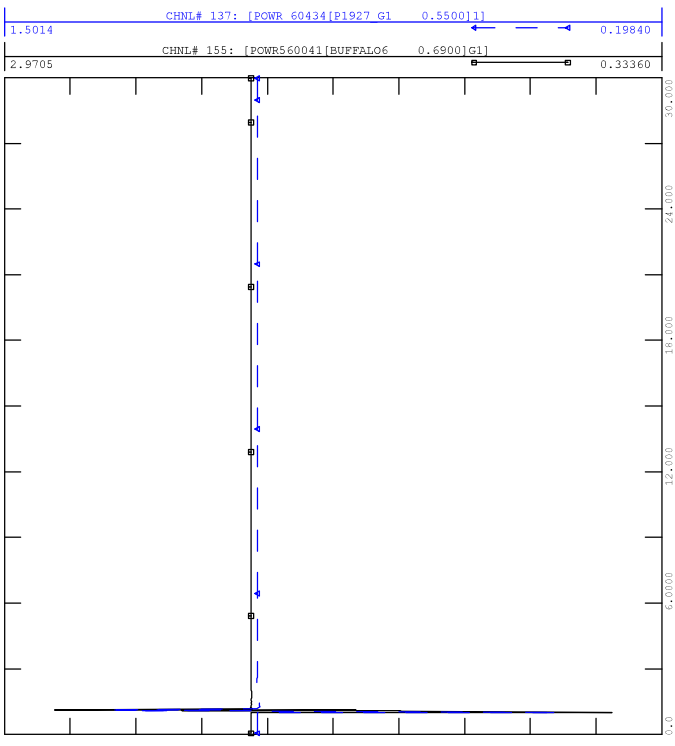
FILE: scn8_SP_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

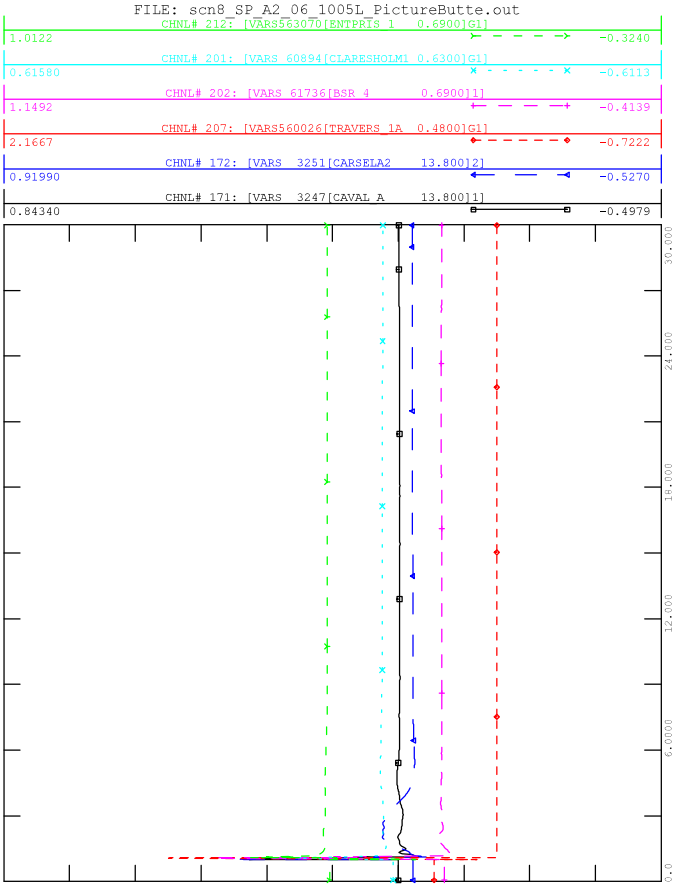
FILE: scn8_SP_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A2_06_1005L_PictureButte.out

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2540 0.42580

CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2185 0.29960

CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1250 0.55340

CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.1550 -0.1000

CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1563 0.78830

CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1457 0.84180

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A2_06_1005L_PictureButte.out

CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1213 -0.0942

CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.2199 0.55500

CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1635 0.75070

CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1589 0.68120

CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.1834 0.45270

CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1604 0.73270

SAT, MAY 21 2022 1:18
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A2_06_1005L_PictureButte.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1064 0.79980

CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1102 0.76730

CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1102 0.76730

CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1109 0.77090

CHNL# 291: [ETRM972378[0.7000]G1]
1.1695 0.67820

CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1703 0.68490

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

FILE: scn8_SP_A2_06_1005L_PictureButte.out

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
1.2790 0.55530

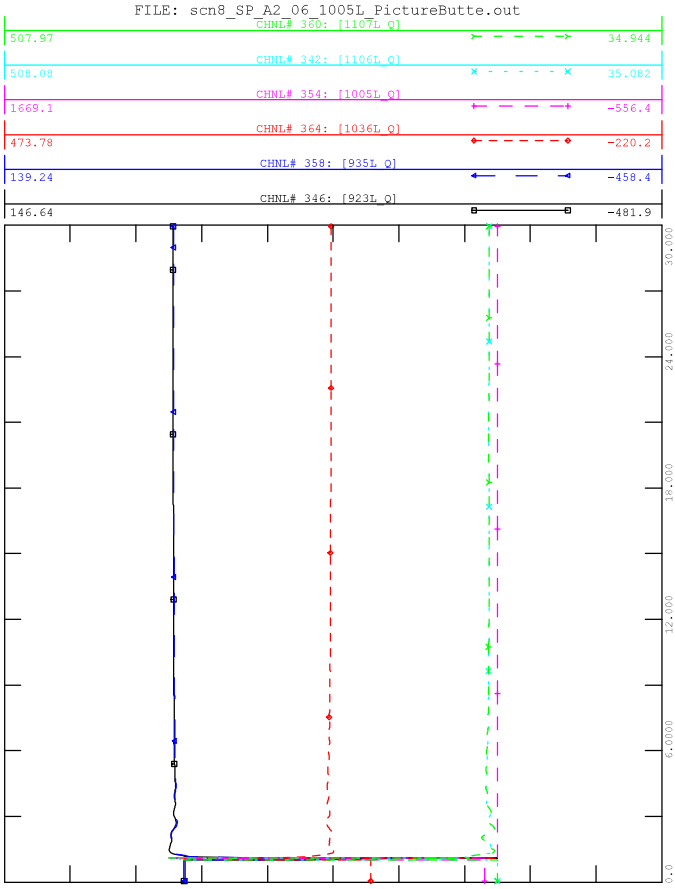
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.2167 0.45790

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

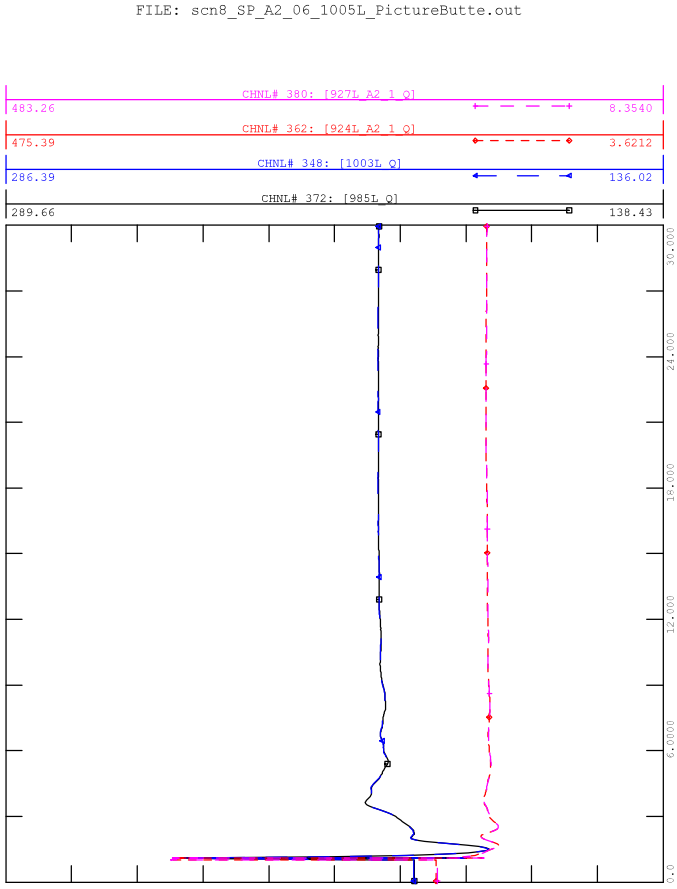
FILE: scn8_SP_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

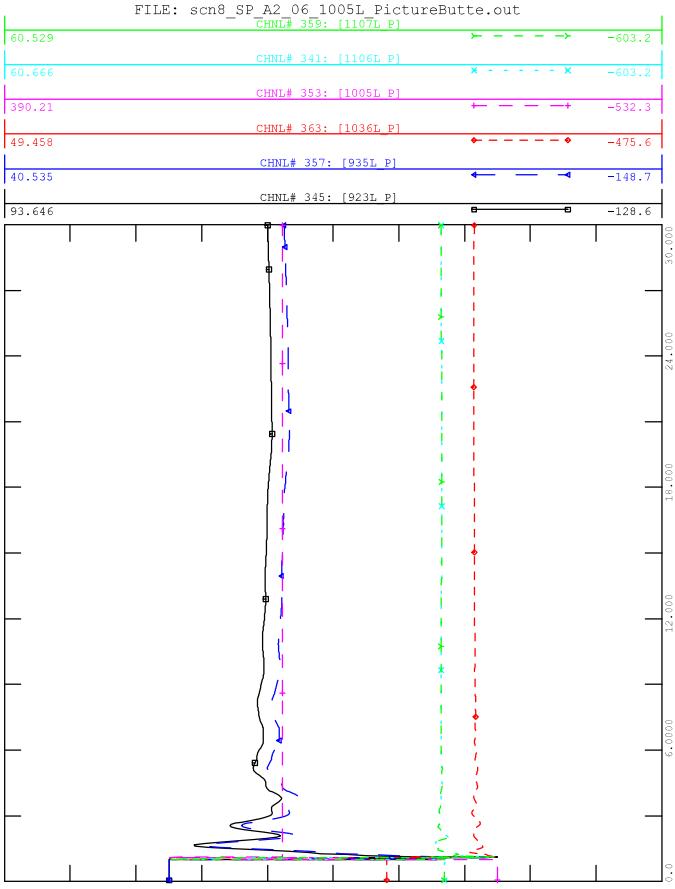
FILE: scn8_SP_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:18 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

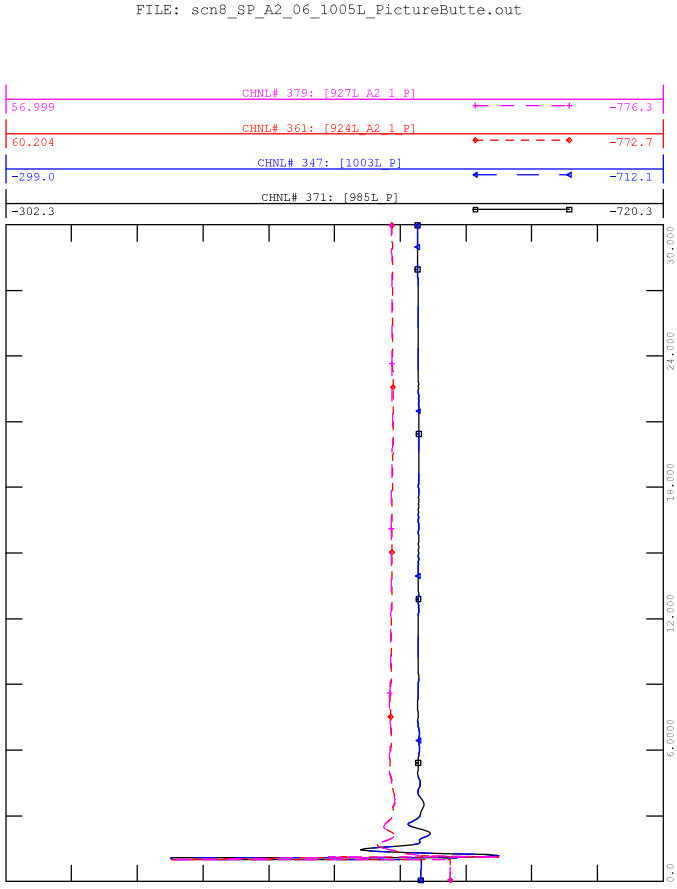
FILE: scn8_SP_A2_06_1005L_PictureButte.out



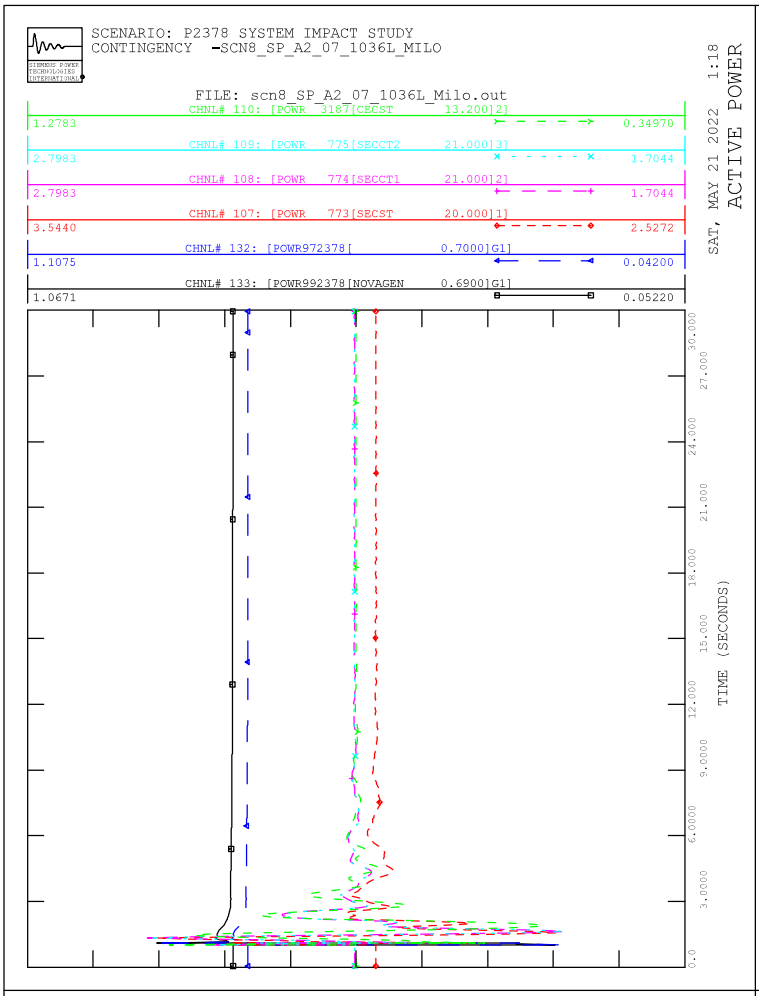
SAT, MAY 21 2022 1:18 BRANCH P

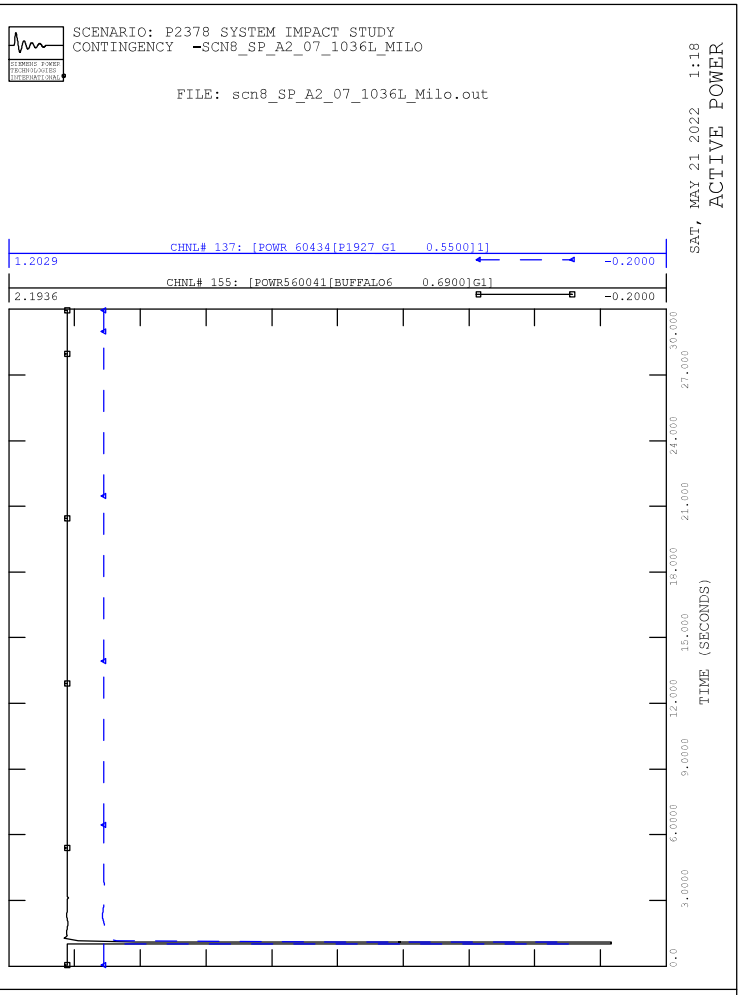
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_06_1005L_PICTUREBUTTE

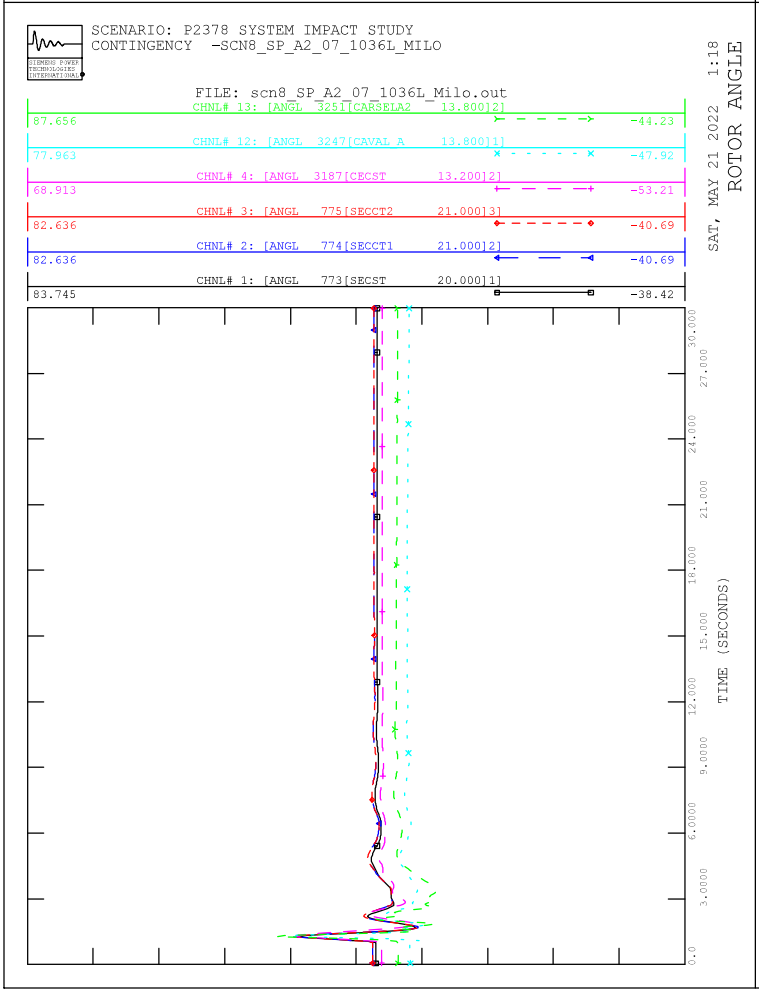
FILE: scn8_SP_A2_06_1005L_PictureButte.out

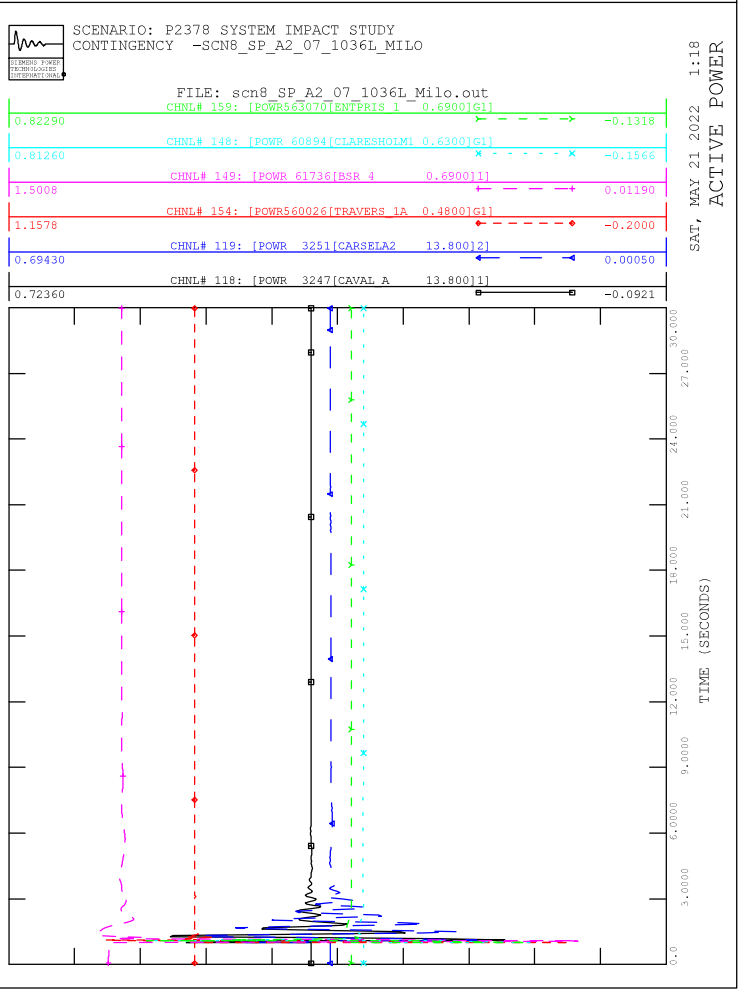


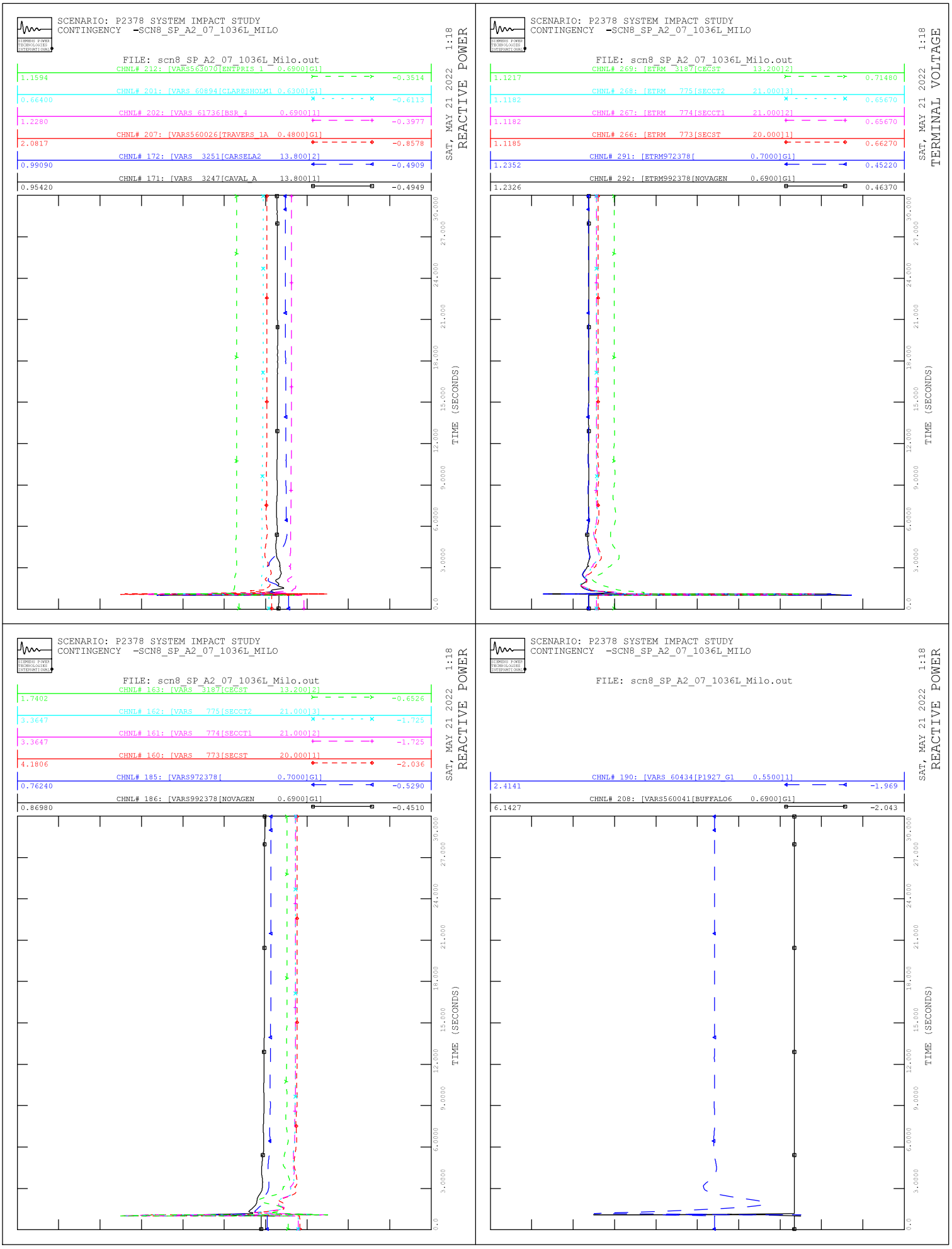
SAT, MAY 21 2022 1:18 BRANCH P


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO
FILE: scn8_SP_A2_07_1036L_Milo.out
CHNL# 110: [POWR 3187[CECST 13.200]2]
1.2783
0.34970
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.7983
1.7044
CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.7983
1.7044
CHNL# 107: [POWR 773[SECST 20.000]1]
3.5440
2.5272
CHNL# 132: [POWR972378[0.7000]G1]
1.1075
0.04200
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0671
0.05220
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO
FILE: scn8_SP_A2_07_1036L_Milo.out
CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.2029
-0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.1936
-0.2000
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO
FILE: scn8_SP_A2_07_1036L_Milo.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
87.656
-44.23
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
77.963
-47.92
CHNL# 4: [ANGL 3187[CECST 13.200]2]
68.913
-53.21
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
82.636
-40.69
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
82.636
-40.69
CHNL# 1: [ANGL 773[SECST 20.000]1]
83.745
-38.42
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO
FILE: scn8_SP_A2_07_1036L_Milo.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.82290
-0.1318
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.81260
-0.1566
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.5008
0.01190
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.1578
-0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.69430
0.00050
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.72360
-0.0921
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO
FILE: scn8_SP_A2_07_1036L_Milo.out
CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
1.1594
-0.3514
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.66400
-0.6113
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2280
-0.3977
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
2.0817
-0.8578
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
0.99090
-0.4909
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.95420
-0.4949
SAT, MAY 21 2022 1:18
REACTIVE POWER
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO
FILE: scn8_SP_A2_07_1036L_Milo.out
CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1217
0.71480
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1182
0.65670
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1182
0.65670
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1185
0.66270
CHNL# 291: [ETRM972378[0.7000]G1]
1.2352
0.45220
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2326
0.46370
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO
FILE: scn8_SP_A2_07_1036L_Milo.out
CHNL# 163: [VARS 3187[CECST 13.200]2]
1.7402
-0.6526
CHNL# 162: [VARS 775[SECCT2 21.000]3]
3.3647
-1.725
CHNL# 161: [VARS 774[SECCT1 21.000]2]
3.3647
-1.725
CHNL# 160: [VARS 773[SECST 20.000]1]
4.1806
-2.036
CHNL# 185: [VARS972378[0.7000]G1]
0.76240
-0.5290
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.86980
-0.4510
SAT, MAY 21 2022 1:18
REACTIVE POWER
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO
FILE: scn8_SP_A2_07_1036L_Milo.out
CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
2.4141
-1.969
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
6.1427
-2.043
SAT, MAY 21 2022 1:18
REACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO

FILE: scn8_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1] 1.4102 0.26670

CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1] 1.4027 -0.0752

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO

FILE: scn8_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:18 BRANCH P

CHNL# 359: [1107L P] 33.653 -653.9

CHNL# 341: [1106L P] 33.727 -654.0

CHNL# 353: [1005L P] 240.36 -730.3

CHNL# 363: [1036L P] 127.89 -383.7

CHNL# 357: [935L P] 267.03 -626.9

CHNL# 345: [923L P] 358.43 -706.9

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO

FILE: scn8_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:18 TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1] 1.3246 0.34300

CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1] 1.2311 0.27170

CHNL# 308: [ETRM 61736[BSR 4 0.6900]1] 1.1250 0.34440

CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1] 1.2744 0.10780

CHNL# 278: [ETRM 3251[CARSELA2 13.800]2] 1.1585 0.73160

CHNL# 277: [ETRM 3247[CAVAL A 13.800]1] 1.1479 0.78280

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO

FILE: scn8_SP_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:18 BUS VOLTAGE

CHNL# 335: [VOLT 451 [MATLB1 240.00]] 1.1213 0.09830

CHNL# 337: [VOLT 918 [CASS01 240.00]] 1.3671 0.26290

CHNL# 333: [VOLT 160 [JANET 4 240.00]] 1.1646 0.59470

CHNL# 340: [VOLT 902378 [924L TAP 240.00]] 1.1694 0.43560

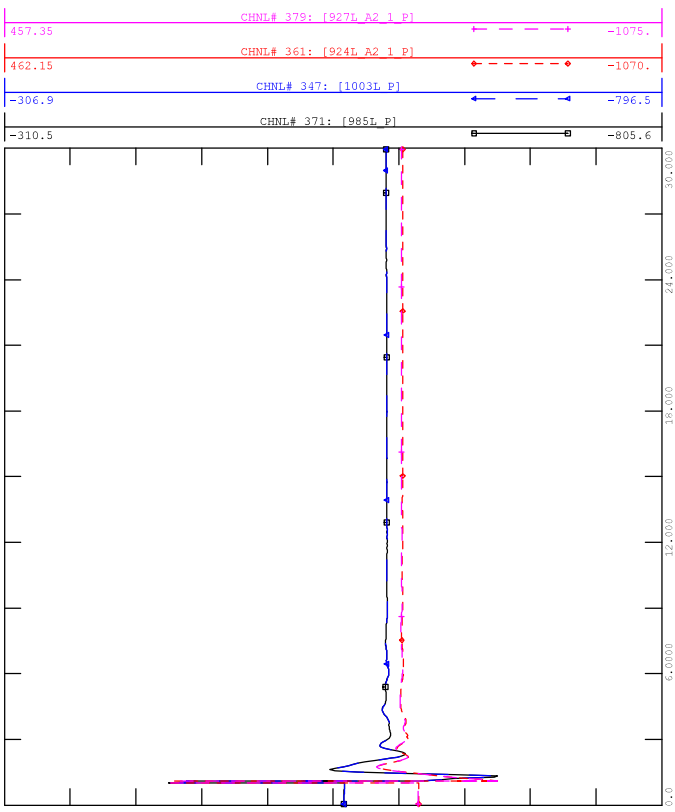
CHNL# 338: [VOLT 943 [MILO 1 240.00]] 1.2843 -0.0910

CHNL# 332: [VOLT 159 [LANGDON4 240.00]] 1.1606 0.54540

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO

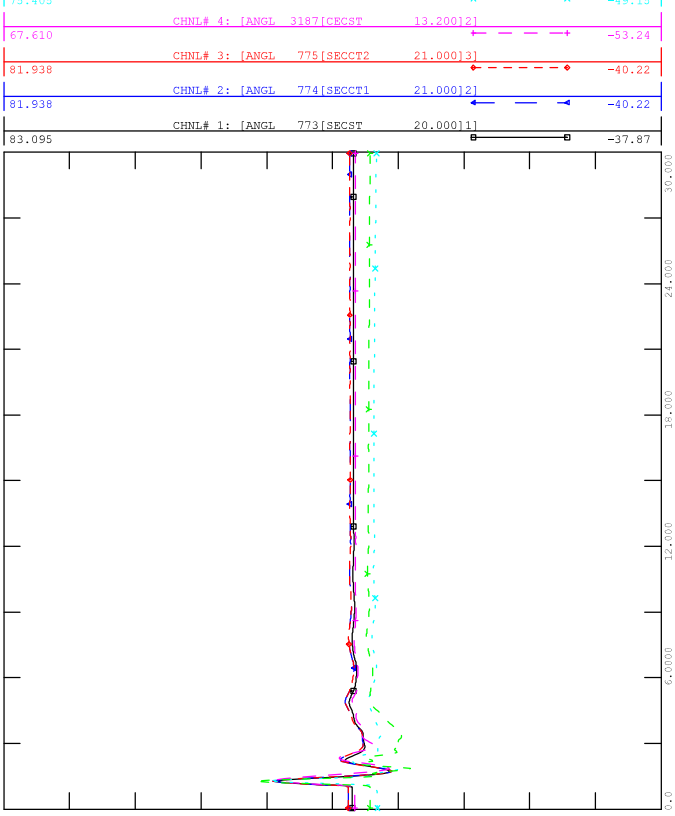
FILE: scn8_SP_A2_07_1036L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

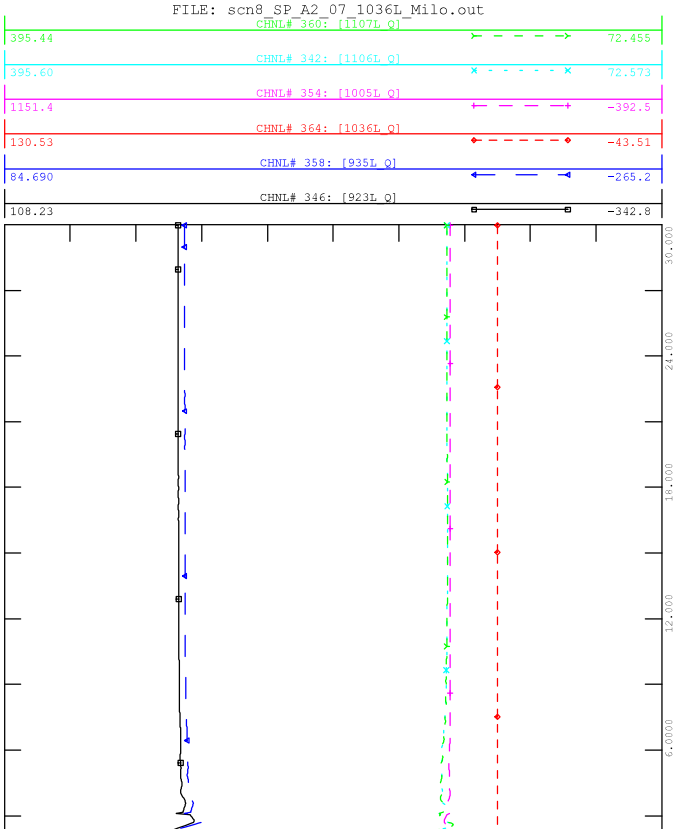
FILE: scn8_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO

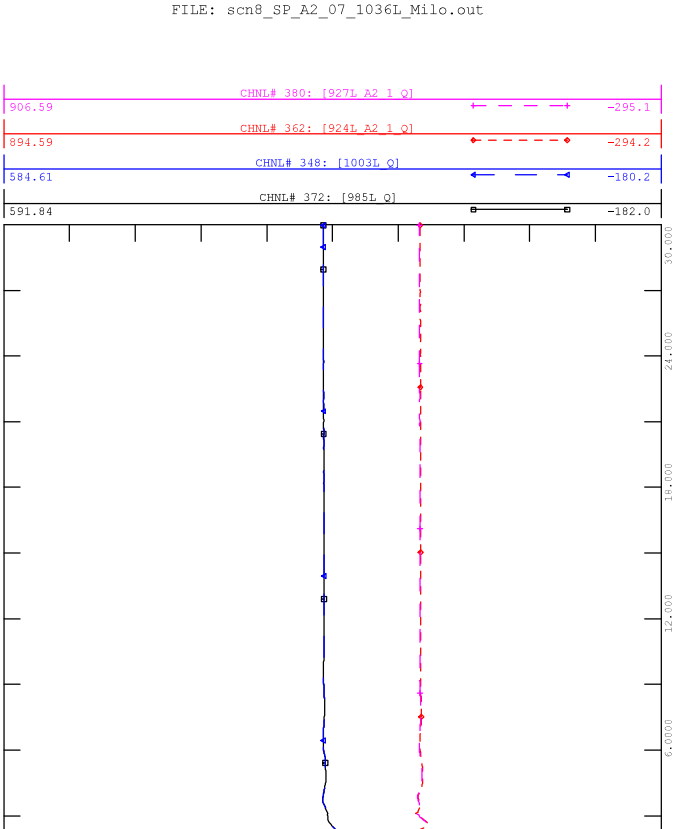
FILE: scn8_SP_A2_07_1036L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_07_1036L_MILO

FILE: scn8_SP_A2_07_1036L_Milo.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

FILE: scn8_SP_A2_08_1036L_Travers.out

CHNL# 159: [POWR563070[ENTPRIS T 0.6900]G1] 0.65280 -0.0665
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.63520 -0.1113
CHNL# 149: [POWR 61736[BSR 4 0.6900]1] 1.4886 -0.1370
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1] 1.1808 -0.0922
CHNL# 119: [POWR 3251[CARSELA2 13.800]2] 0.68120 -0.0377
CHNL# 118: [POWR 3247[CAVAL A 13.800]1] 0.67700 -0.0691

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

FILE: scn8_SP_A2_08_1036L_Travers.out

CHNL# 163: [VARS 3187[CECST 13.200]2] 1.2815 -0.4070
CHNL# 162: [VARS 775[SECCT2 21.000]3] 2.0733 -0.8763
CHNL# 161: [VARS 774[SECCT1 21.000]2] 2.0733 -0.8763
CHNL# 160: [VARS 773[SECST 20.000]1] 2.5842 -0.9938
CHNL# 185: [VARS972378[0.7000]G1] 0.55730 -0.5290
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1] 0.66310 -0.4317

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

FILE: scn8_SP_A2_08_1036L_Travers.out

CHNL# 110: [POWR 3187[CECST 13.200]2] 1.2654 0.29480
CHNL# 109: [POWR 775[SECCT2 21.000]3] 2.8381 1.5404
CHNL# 108: [POWR 774[SECCT1 21.000]2] 2.8381 1.5404
CHNL# 107: [POWR 773[SECST 20.000]1] 3.5753 2.2167
CHNL# 132: [POWR972378[0.7000]G1] 1.0830 0.28030
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1] 1.0689 0.28870

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

FILE: scn8_SP_A2_08_1036L_Travers.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1] 1.5707 0.29650
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1] 3.6155 0.24720

SAT, MAY 21 2022 1:18
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

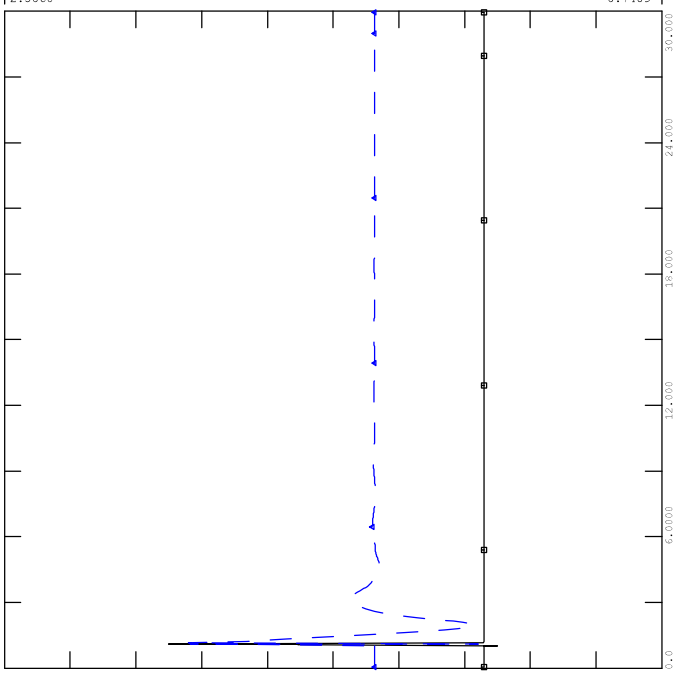
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

FILE: scn8_SP_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:18
REACTIVE POWER

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
1.0487 -0.7412
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
2.5060 -0.7489

TIME (SECONDS)



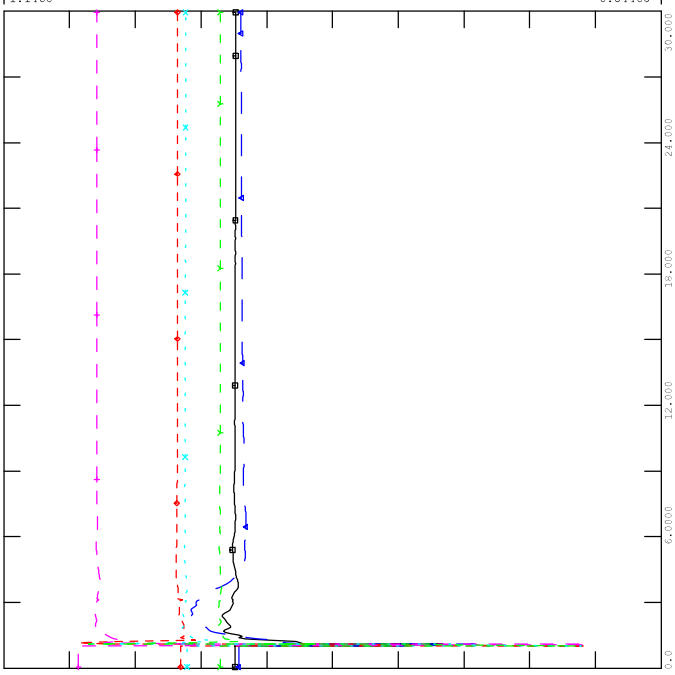
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

FILE: scn8_SP_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3056 0.52860
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2542 0.43130
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1250 0.24510
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2907 0.41430
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1556 0.80410
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1460 0.84460

TIME (SECONDS)



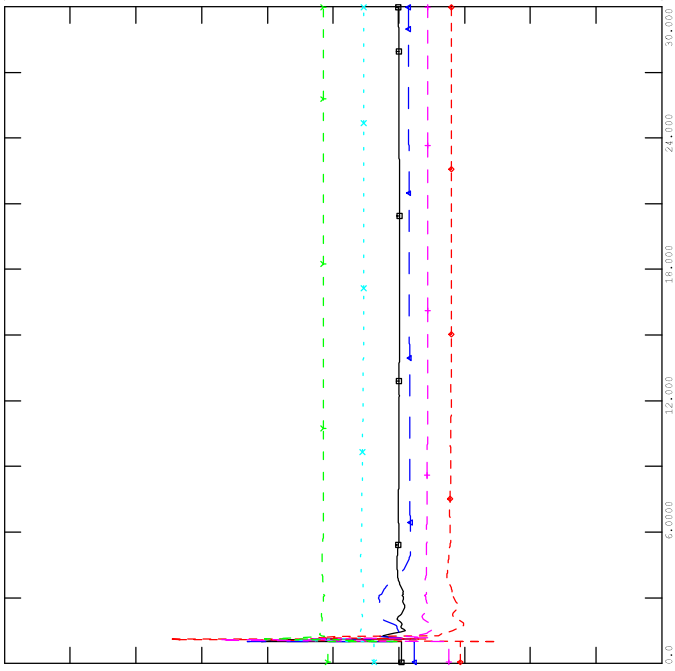
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

FILE: scn8_SP_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:18
REACTIVE POWER

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.97180 -0.2921
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.53150 -0.6113
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.1445 -0.3977
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
1.9993 -0.4878
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
0.86360 -0.4895
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.81170 -0.4679

TIME (SECONDS)



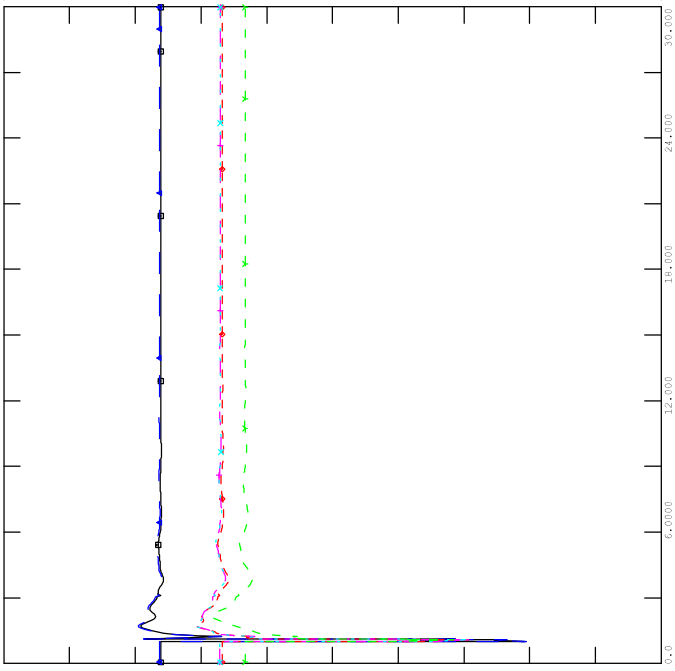
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

FILE: scn8_SP_A2_08_1036L_Travers.out

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

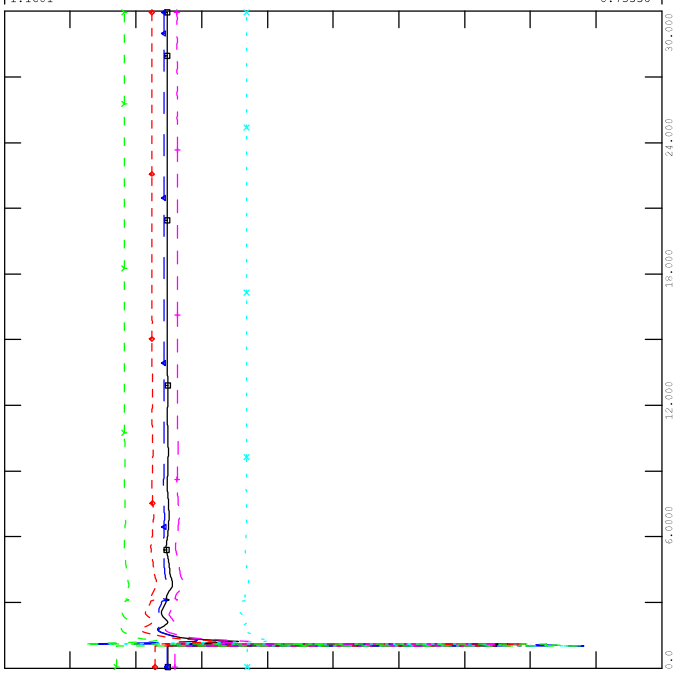
CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1163 0.79950
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1135 0.76830
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1135 0.76830
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1132 0.77230
CHNL# 291: [ETRM972378[0.7000]G1]
1.1655 0.67790
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1648 0.68470

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

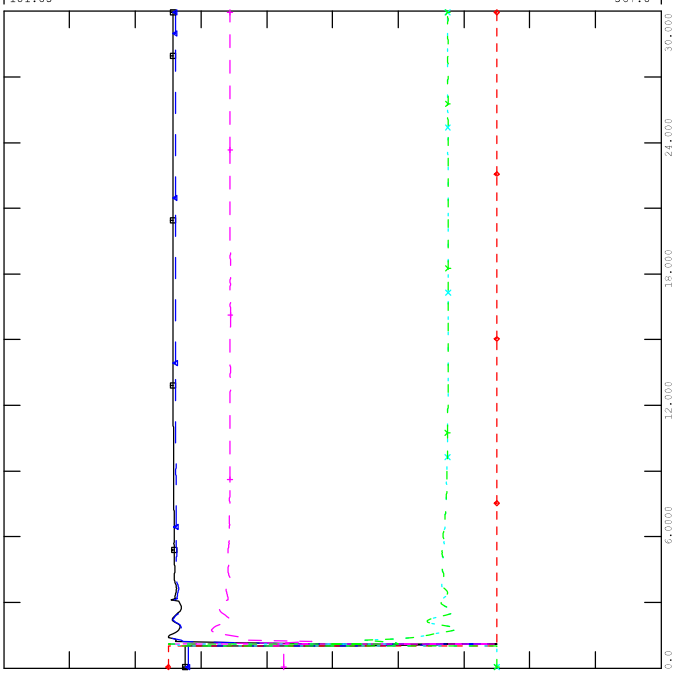
FILE: scn8_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:18
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

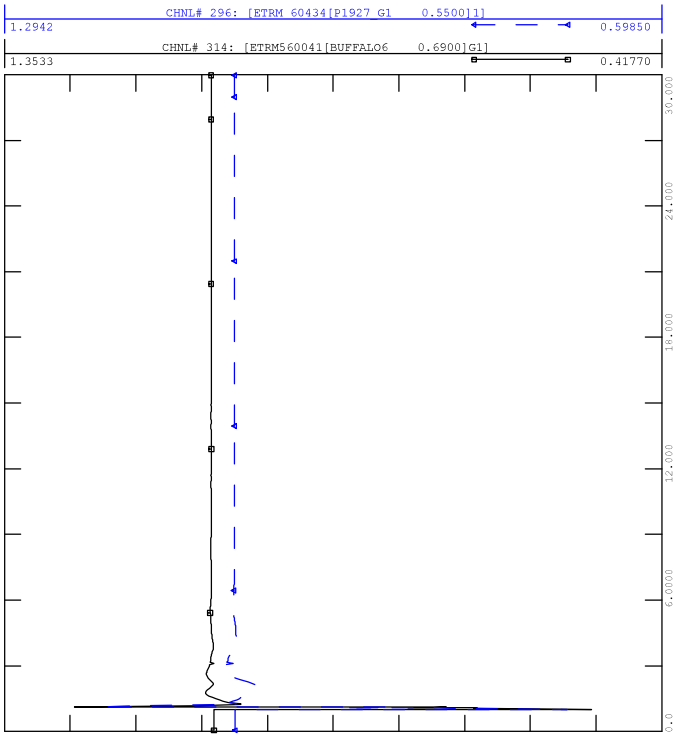
FILE: scn8_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

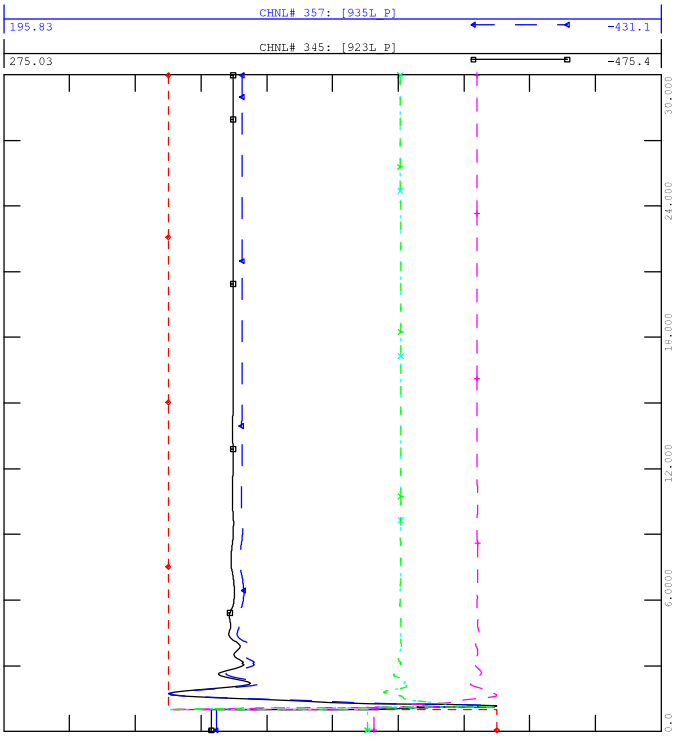
FILE: scn8_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

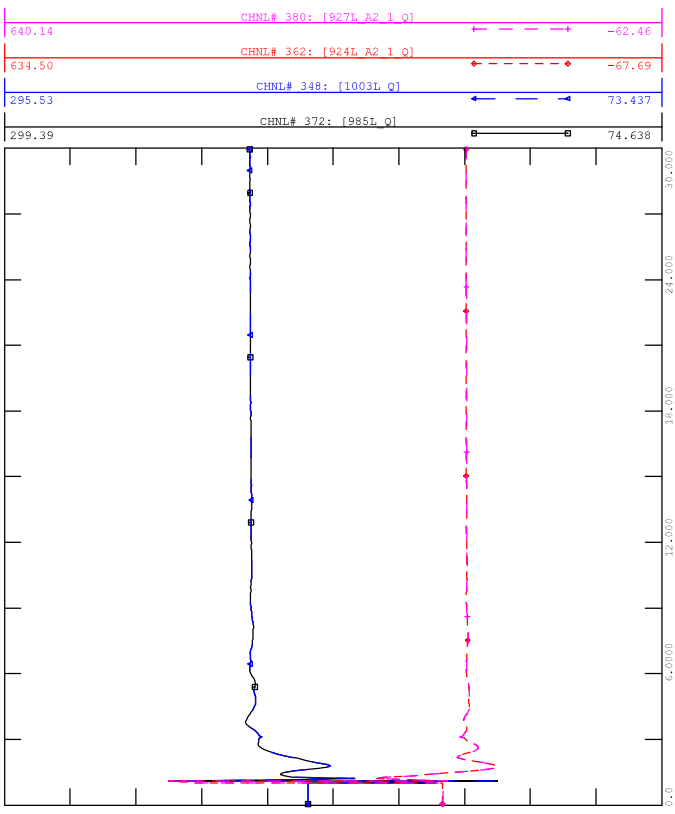
FILE: scn8_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

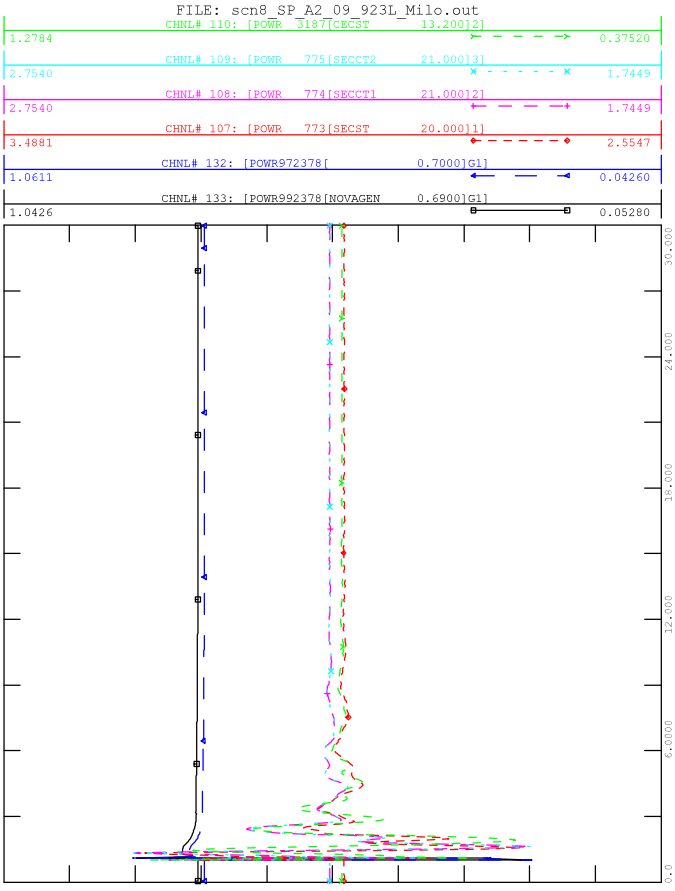
FILE: scn8_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:18
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO

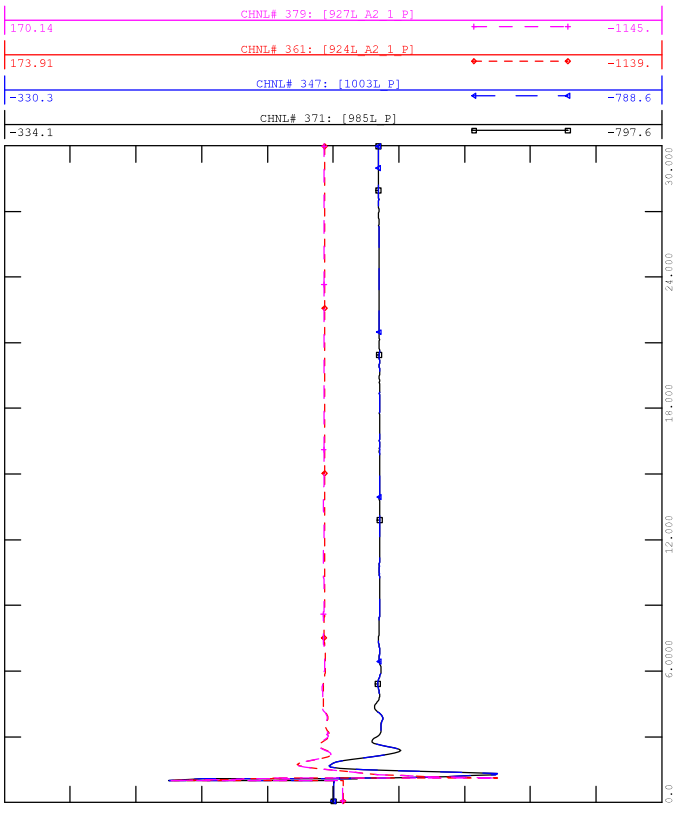
FILE: scn8_SP_A2_09_923L_Milo.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_08_1036L_TRAVERS

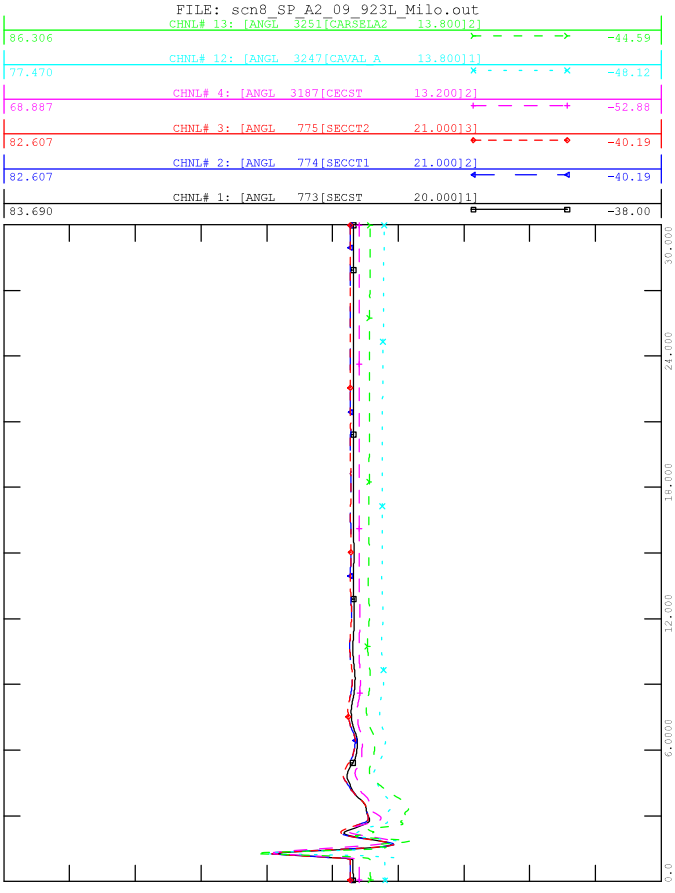
FILE: scn8_SP_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:18
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO

FILE: scn8_SP_A2_09_923L_Milo.out



SAT, MAY 21 2022 1:18
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO

FILE: scn8_SP_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1] 1.2030 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1] 2.1964 -0.2000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO

FILE: scn8_SP_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1] 1.0992 -0.3515
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.66040 -0.6124
CHNL# 202: [VARS 61736[BSR 4 0.6900]1] 1.2287 -0.4235
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1] 2.2661 -1.399
CHNL# 172: [VARS 3251[CARSELA2 13.800]2] 0.98950 -0.5188
CHNL# 171: [VARS 3247[CAVAL A 13.800]1] 0.95330 -0.4971

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO

FILE: scn8_SP_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:18 ACTIVE POWER

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1] 0.76440 -0.1318
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.79950 -0.1563
CHNL# 149: [POWR 61736[BSR 4 0.6900]1] 1.6714 0.02090
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1] 1.2988 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2] 0.67470 0.01540
CHNL# 118: [POWR 3247[CAVAL A 13.800]1] 0.71620 -0.0855

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO

FILE: scn8_SP_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:18 REACTIVE POWER

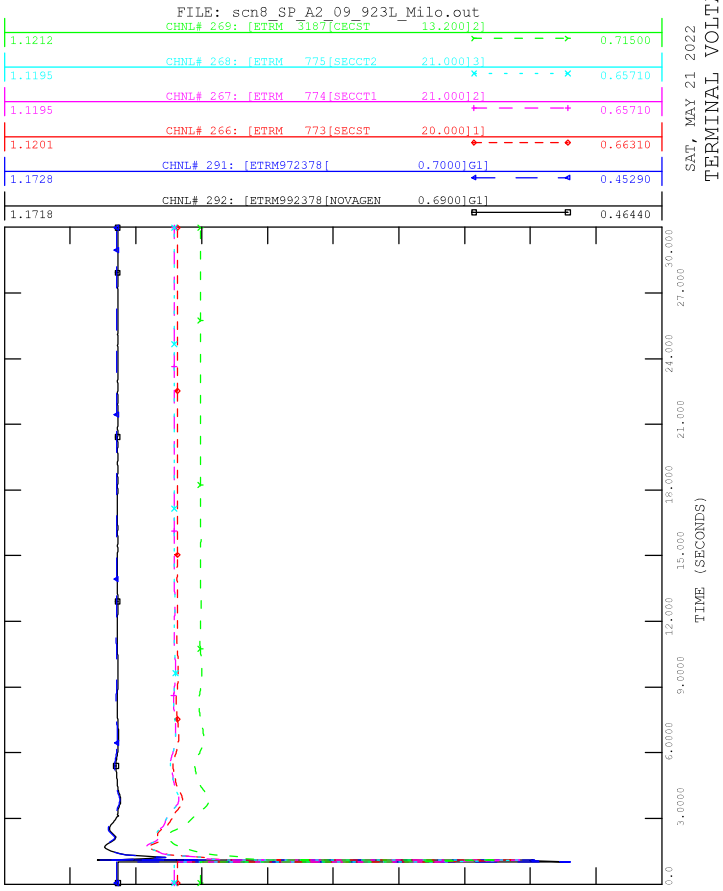
CHNL# 163: [VARS 3187[CECST 13.200]2] 1.7076 -0.5614
CHNL# 162: [VARS 775[SECCT2 21.000]3] 3.3085 -1.572
CHNL# 161: [VARS 774[SECCT1 21.000]2] 3.3085 -1.572
CHNL# 160: [VARS 773[SECST 20.000]1] 4.1111 -1.846
CHNL# 185: [VARS972378[0.7000]G1] 0.74780 -0.5179
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1] 0.84980 -0.4509

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO

FILE: scn8_SP_A2_09_923L_Milo.out

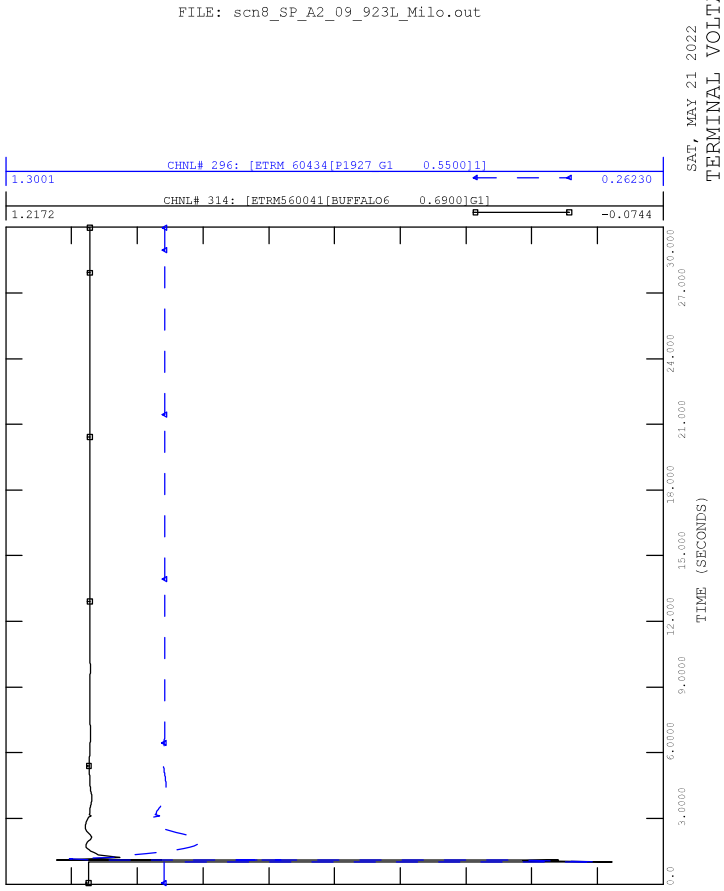
SAT, MAY 21 2022 1:18



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO

FILE: scn8_SP_A2_09_923L_Milo.out

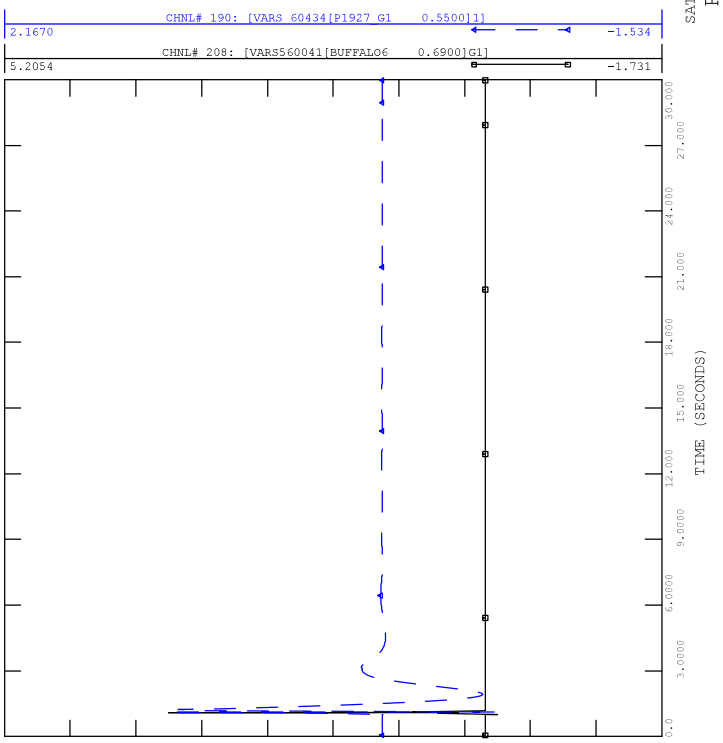
SAT, MAY 21 2022 1:18



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO

FILE: scn8_SP_A2_09_923L_Milo.out

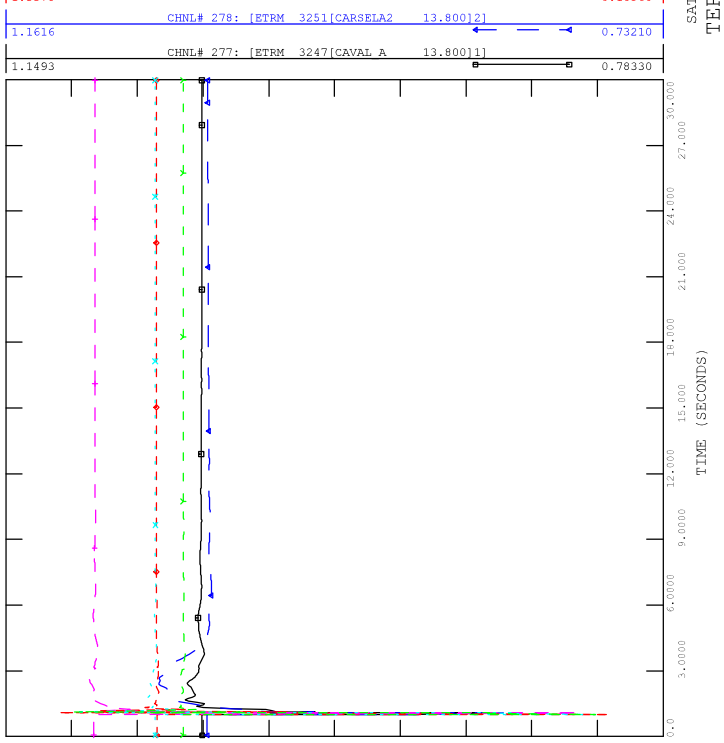
SAT, MAY 21 2022 1:18

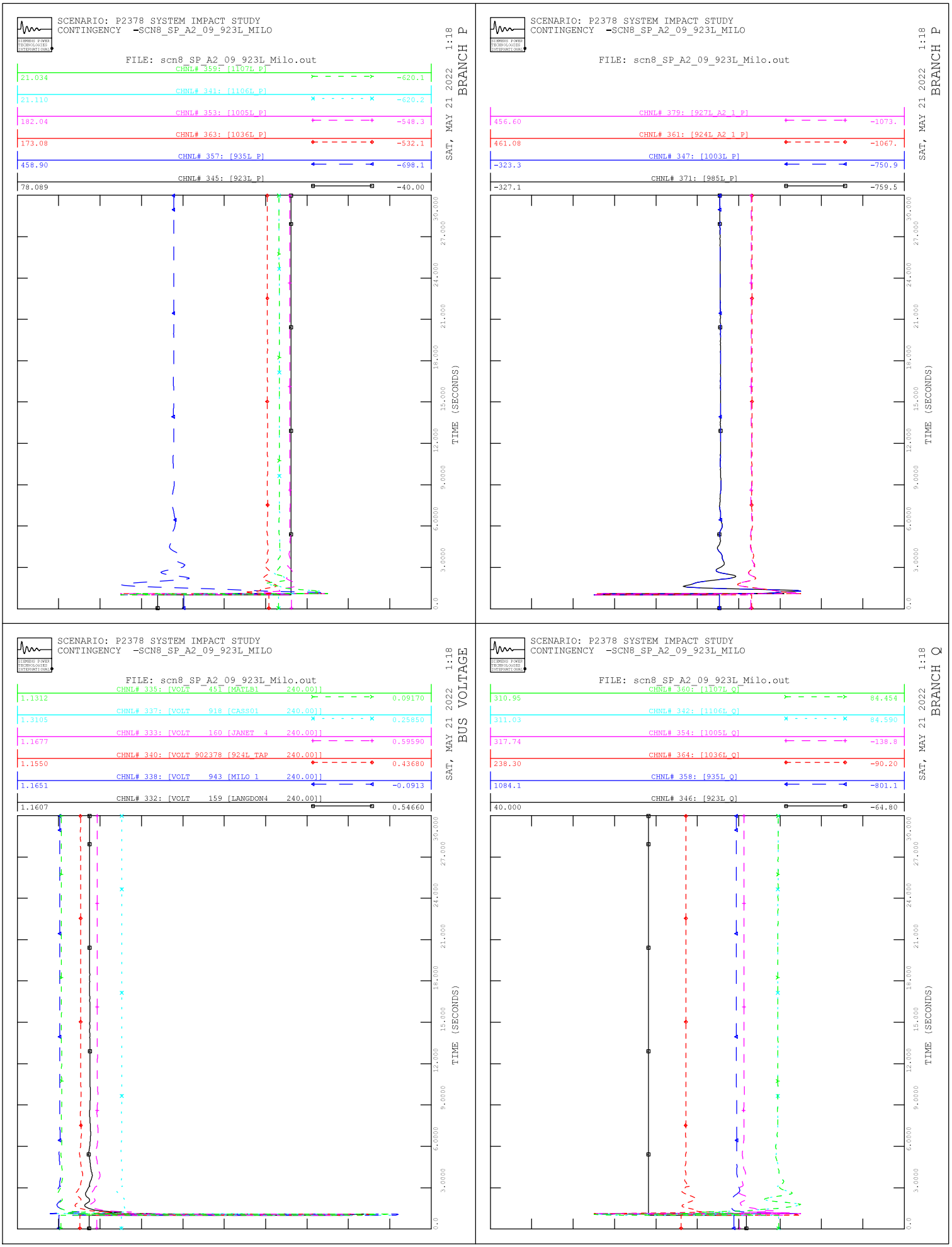


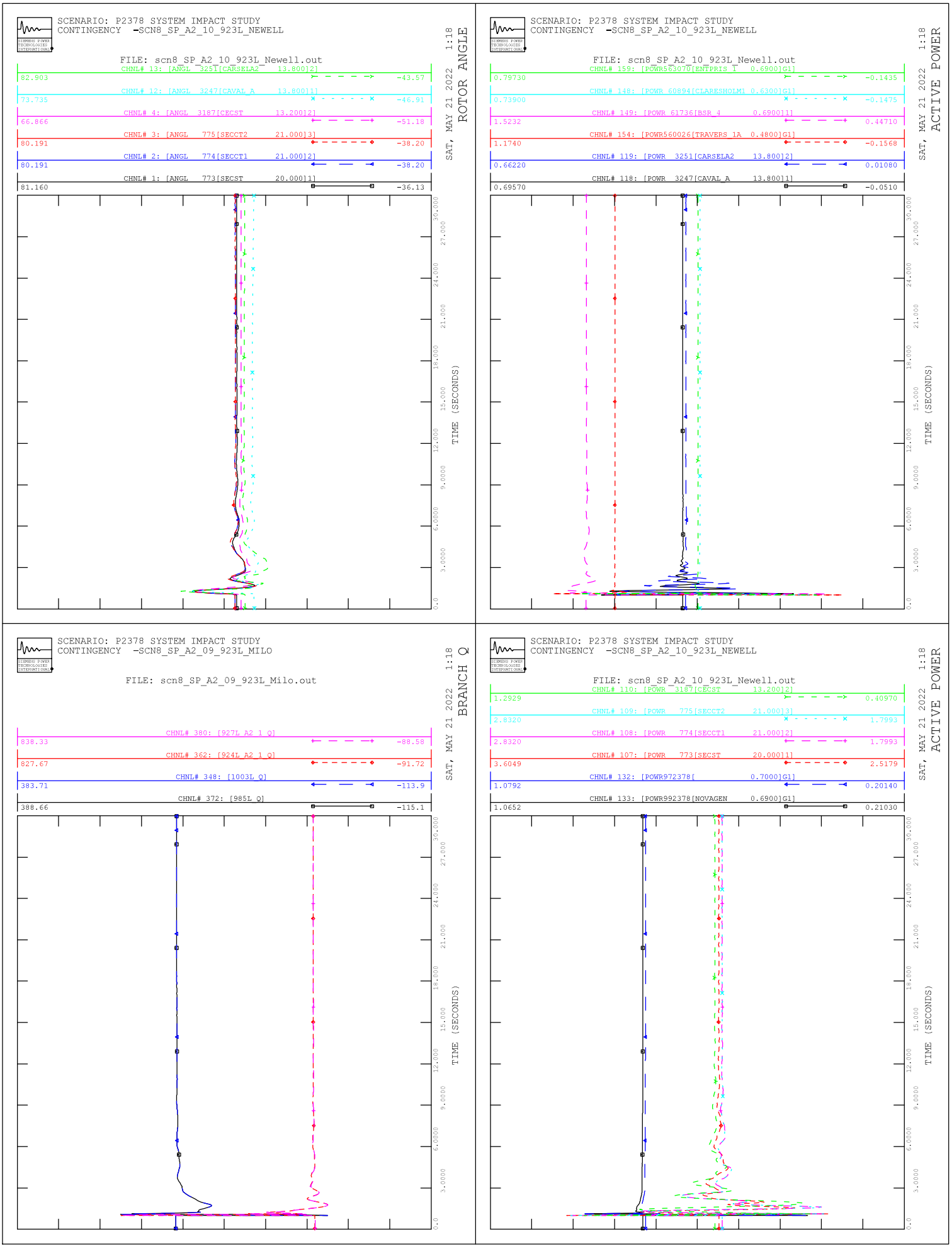
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO

FILE: scn8_SP_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:18

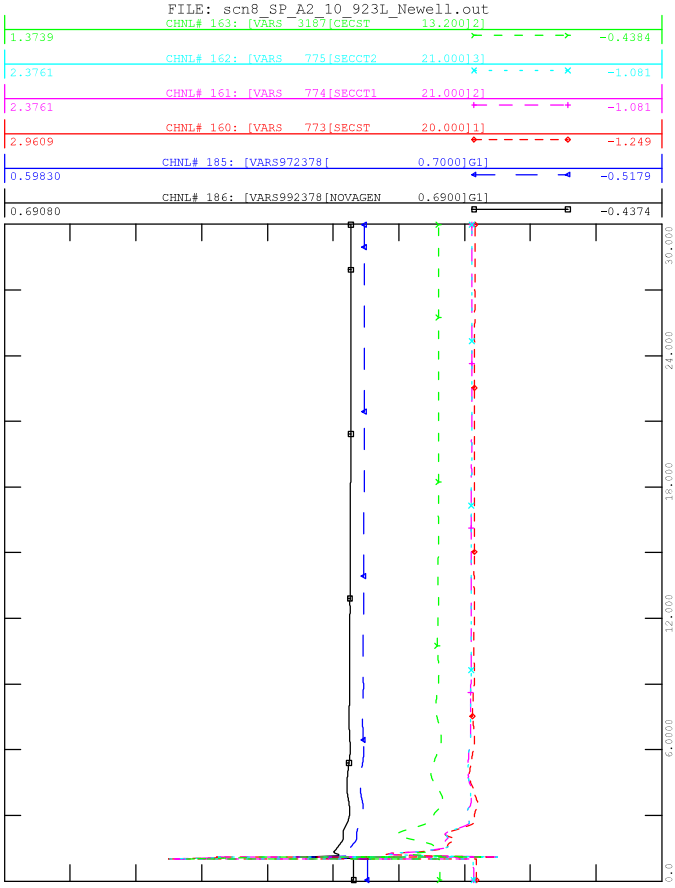



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO
FILE: scn8_SP_A2_09_923L_Milo.out
CHNL# 359: [1107L P]
21.034
-620.1
CHNL# 341: [1106L P]
21.110
-620.2
CHNL# 353: [1005L P]
182.04
-548.3
CHNL# 363: [1036L P]
173.08
-532.1
CHNL# 357: [935L P]
458.90
-698.1
CHNL# 345: [923L P]
78.089
-40.00
BRANCH P
SAT, MAY 21 2022 1:18
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO
FILE: scn8_SP_A2_09_923L_Milo.out
CHNL# 379: [927L A2 1 P]
456.60
-1073.
CHNL# 361: [924L A2 1 P]
461.08
-1067.
CHNL# 347: [1003L P]
-323.3
-750.9
CHNL# 371: [985L P]
-327.1
-759.5
BRANCH P
SAT, MAY 21 2022 1:18
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO
FILE: scn8_SP_A2_09_923L_Milo.out
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1312
0.09170
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.3105
0.25850
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1677
0.59590
CHNL# 340: [VOLT 902378 [924L_TAP 240.00]]
1.1550
0.43680
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.1651
-0.0913
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1607
0.54660
BUS VOLTAGE
SAT, MAY 21 2022 1:18
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO
FILE: scn8_SP_A2_09_923L_Milo.out
CHNL# 360: [1107L Q]
310.95
84.454
CHNL# 342: [1106L Q]
311.03
84.590
CHNL# 354: [1005L Q]
317.74
-138.8
CHNL# 364: [1036L Q]
238.30
-90.20
CHNL# 358: [935L Q]
1084.1
-801.1
CHNL# 346: [923L Q]
40.000
-64.80
BRANCH Q
SAT, MAY 21 2022 1:18
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL
FILE: scn8_SP_A2_10_923L_Newell.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
82.903
-43.57
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
73.735
-46.91
CHNL# 4: [ANGL 3187[CECST 13.200]2]
66.866
-51.18
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
80.191
-38.20
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
80.191
-38.20
CHNL# 1: [ANGL 773[SECST 20.000]1]
81.160
-36.13
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL
FILE: scn8_SP_A2_10_923L_Newell.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.79730
-0.1435
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.73900
-0.1475
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.5232
0.44710
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.1740
-0.1568
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.66220
0.01080
CHNL# 118: [POWR 3247[CAVAL_A 13.800]1]
0.69570
-0.0510
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_09_923L_MILO
FILE: scn8_SP_A2_09_923L_Milo.out
CHNL# 380: [927L A2 1 Q]
838.33
-88.58
CHNL# 362: [924L A2 1 Q]
827.67
-91.72
CHNL# 348: [1003L Q]
383.71
-113.9
CHNL# 372: [985L Q]
388.66
-115.1
SAT, MAY 21 2022 1:18
BRANCH Q
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL
FILE: scn8_SP_A2_10_923L_Newell.out
CHNL# 110: [POWR 3187[CECST 13.200]2]
1.2929
0.40970
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.8320
1.7993
CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.8320
1.7993
CHNL# 107: [POWR 773[SECST 20.000]1]
3.6049
2.5179
CHNL# 132: [POWR972378[0.7000]G1]
1.0792
0.20140
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0652
0.21030
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

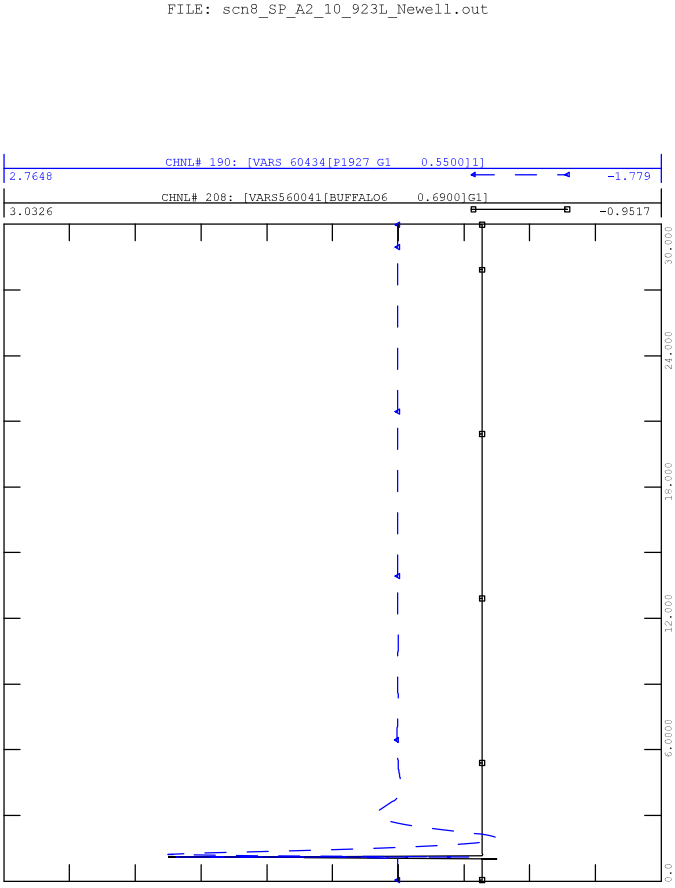
FILE: scn8_SP_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

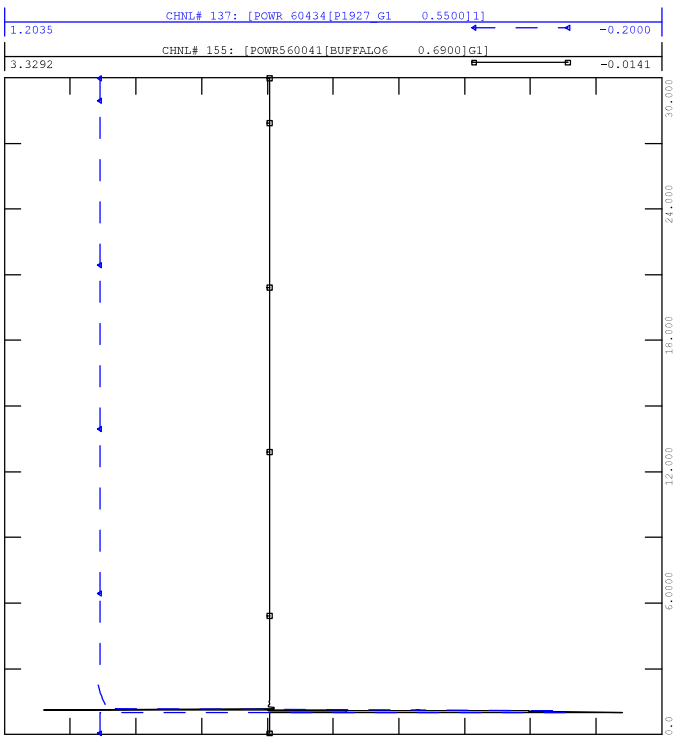
FILE: scn8_SP_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

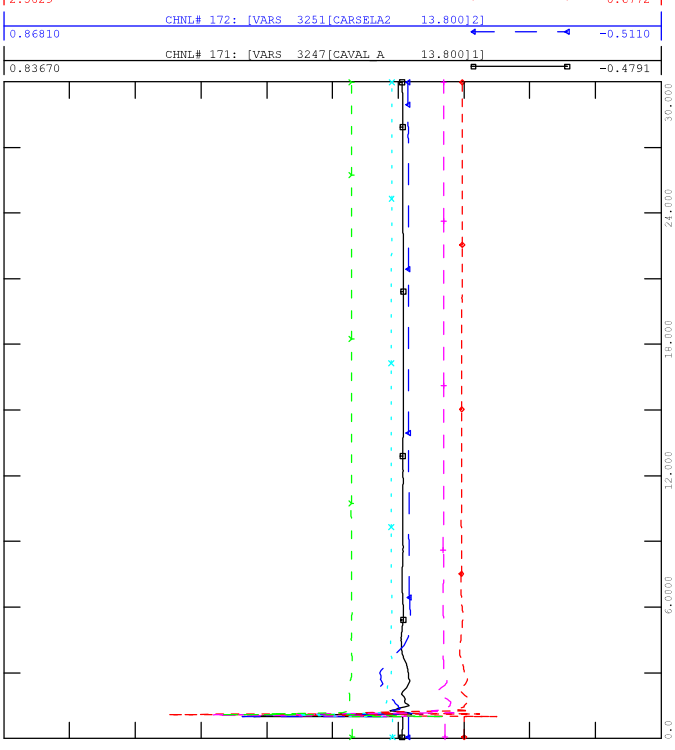
FILE: scn8_SP_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:18
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

FILE: scn8_SP_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:18
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

FILE: scn8_SP_A2_10_923L_Newell.out

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.3102 0.30450
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2596 0.30860
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1288 0.54340
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3066 0.35210
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1586 0.80320
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1465 0.83780

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

FILE: scn8_SP_A2_10_923L_Newell.out

CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1641 0.35520
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.2964 -0.0113
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1638 0.72640
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1509 0.61760
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2008 0.24750
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1582 0.69540

SAT, MAY 21 2022 1:18
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

FILE: scn8_SP_A2_10_923L_Newell.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1154 0.78150
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1137 0.74770
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1137 0.74770
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1140 0.75180
CHNL# 291: [ETRM972378[0.7000]G1]
1.1597 0.61120
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1607 0.61900

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

FILE: scn8_SP_A2_10_923L_Newell.out

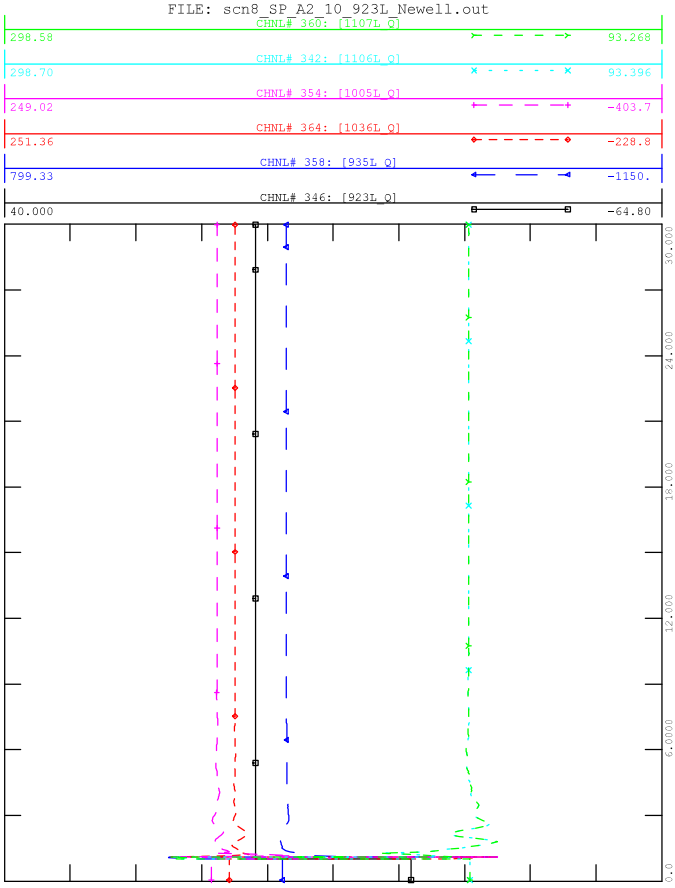
CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
1.3433 -0.0077
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.2947 0.25260

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

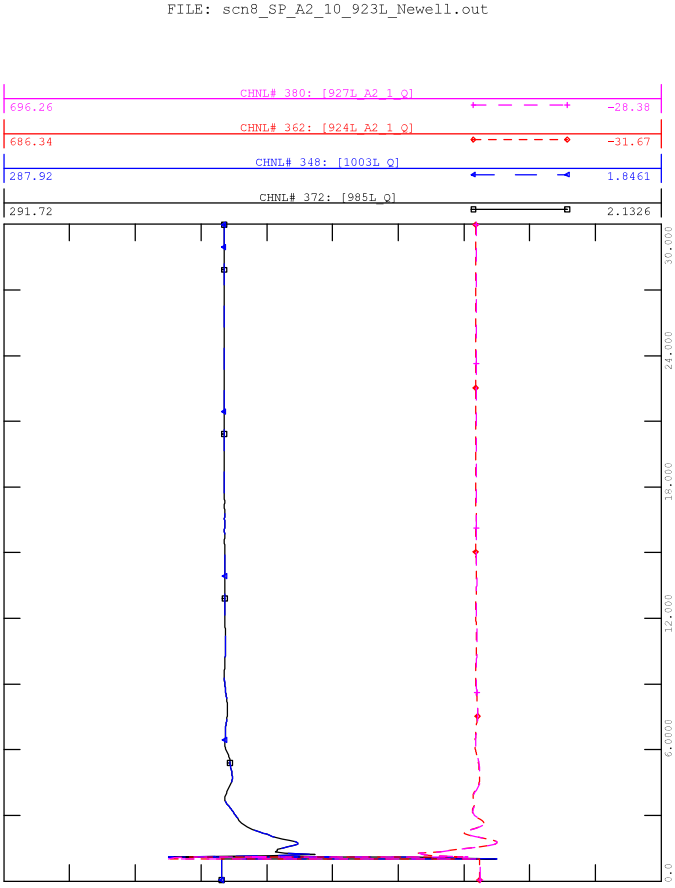
FILE: scn8_SP_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:18 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

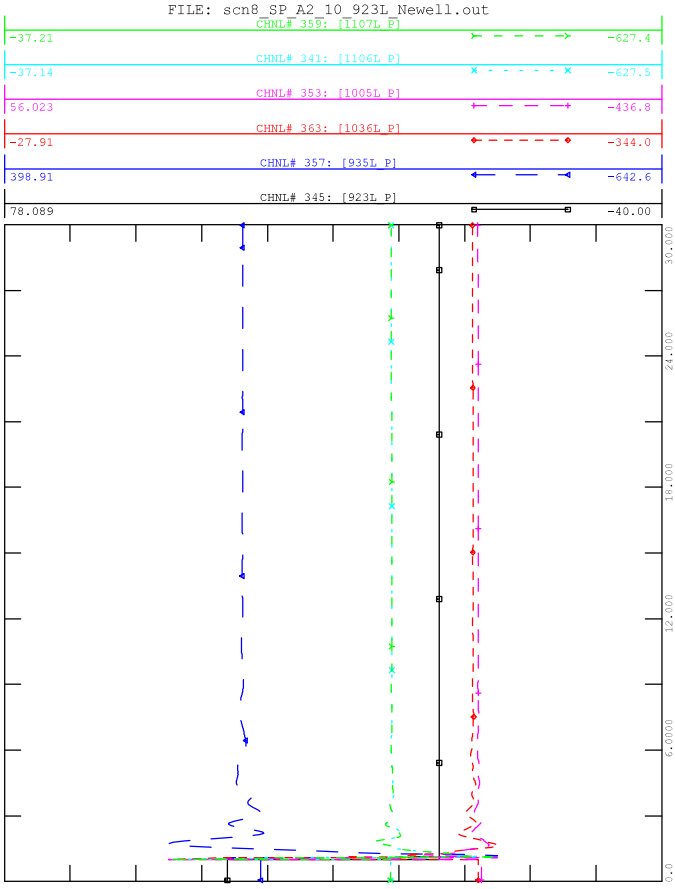
FILE: scn8_SP_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:18 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

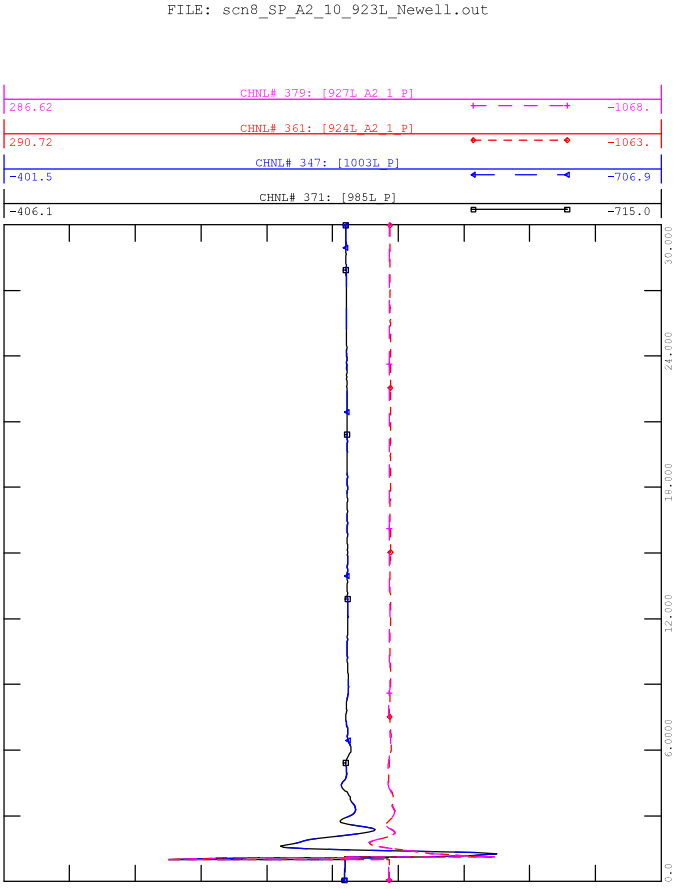
FILE: scn8_SP_A2_10_923L_Newell.out



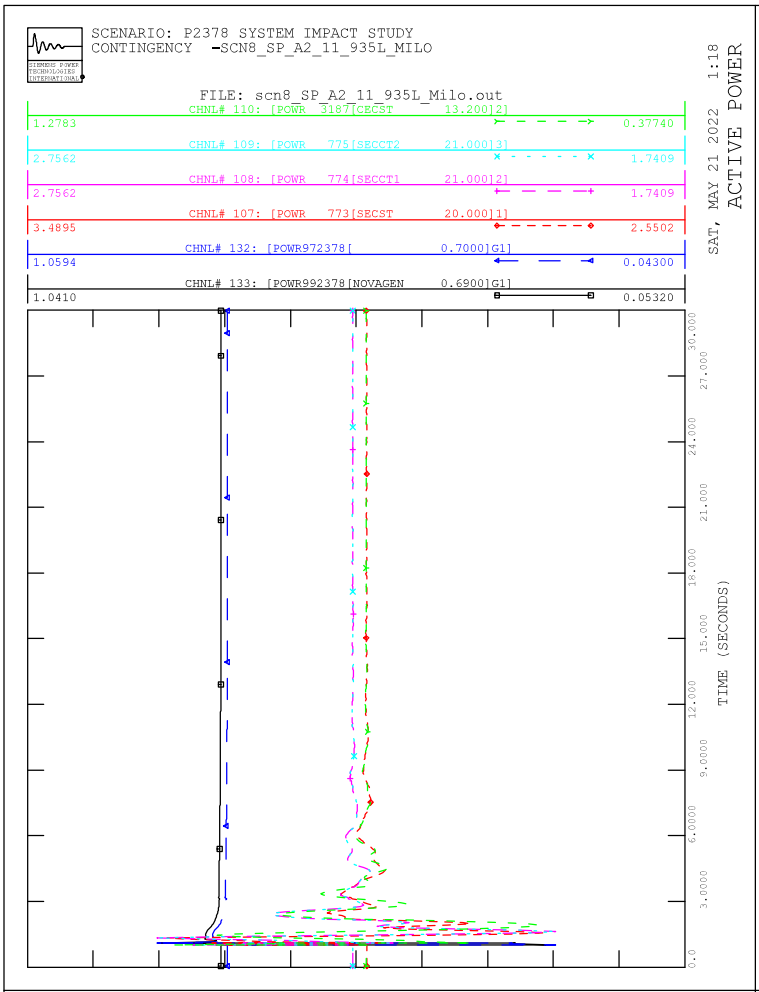
SAT, MAY 21 2022 1:18 BRANCH P

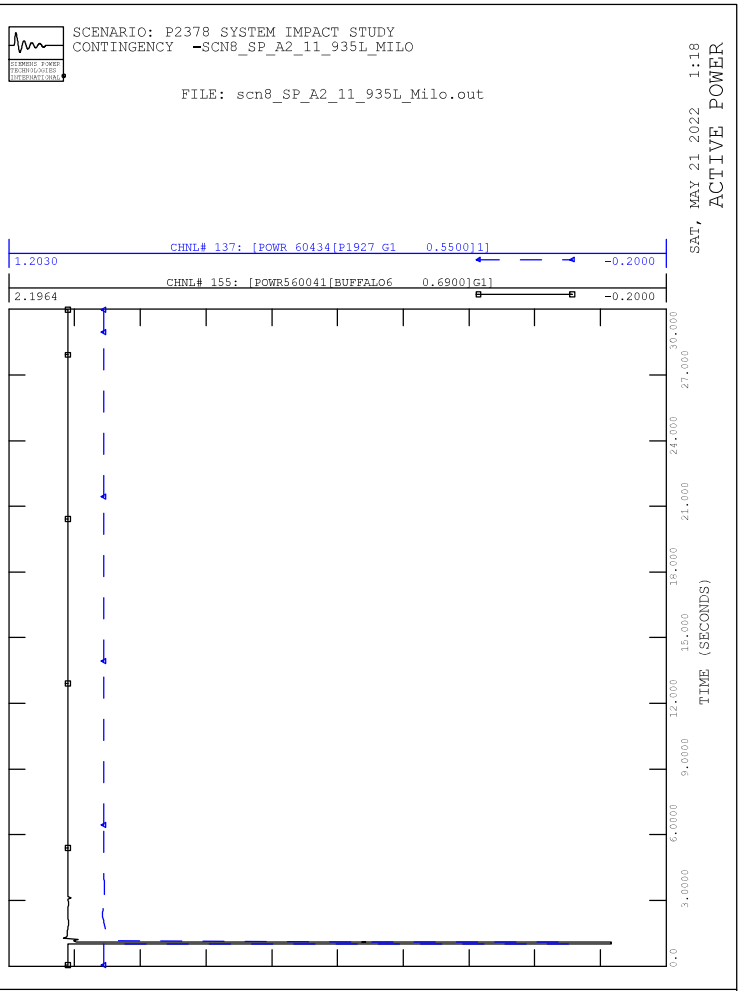
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_10_923L_NEWELL

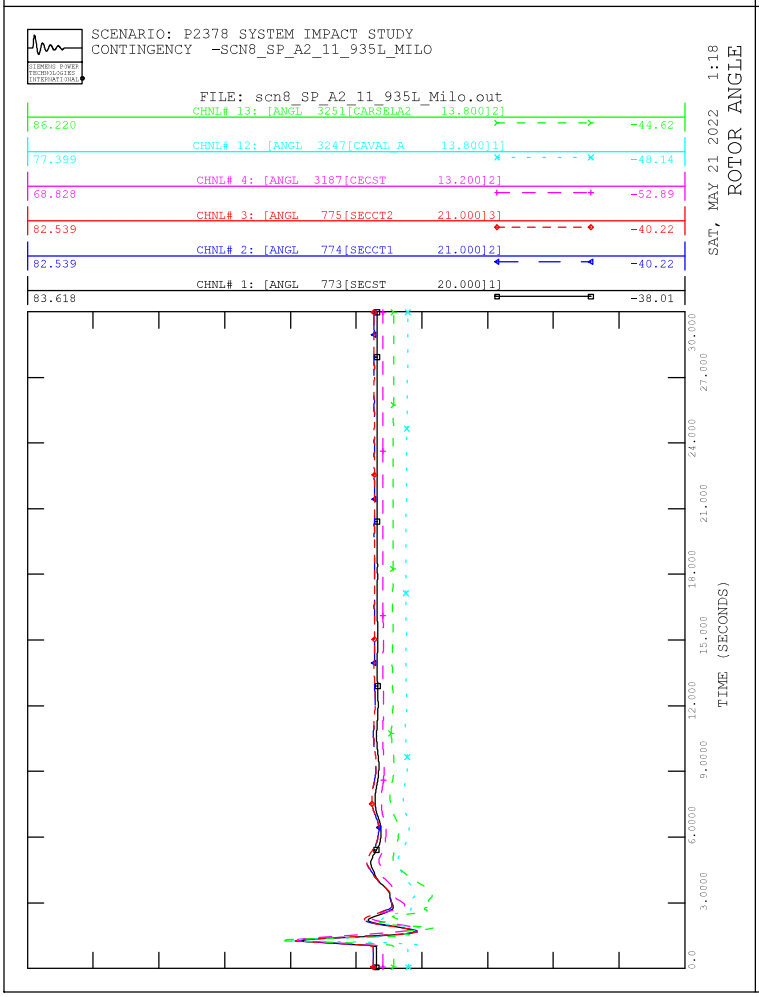
FILE: scn8_SP_A2_10_923L_Newell.out

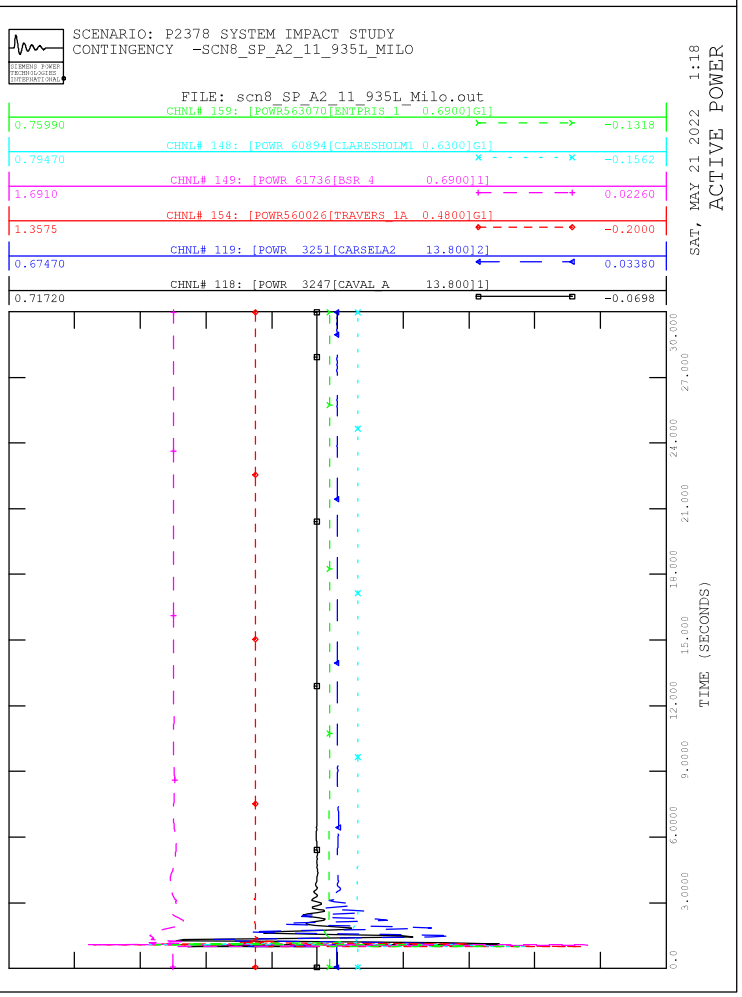


SAT, MAY 21 2022 1:18 BRANCH P


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO
FILE: scn8_SP_A2_11_935L_Milo.out
CHNL# 110: [POWR 3187[CECST 13.200]2]
1.2783
0.37740
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.7562
1.7409
CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.7562
1.7409
CHNL# 107: [POWR 773[SECST 20.000]1]
3.4895
2.5502
CHNL# 132: [POWR972378[0.7000]G1]
1.0594
0.04300
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0410
0.05320
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO
FILE: scn8_SP_A2_11_935L_Milo.out
CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.2030
-0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.1964
-0.2000
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO
FILE: scn8_SP_A2_11_935L_Milo.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
86.220
-44.62
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
77.399
-48.14
CHNL# 4: [ANGL 3187[CECST 13.200]2]
68.828
-52.89
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
82.539
-40.22
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
82.539
-40.22
CHNL# 1: [ANGL 773[SECST 20.000]1]
83.618
-38.01
SAT, MAY 21 2022 1:18
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO
FILE: scn8_SP_A2_11_935L_Milo.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.75990
-0.1318
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.79470
-0.1562
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.6910
0.02260
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3575
-0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.67470
0.03380
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.71720
-0.0698
SAT, MAY 21 2022 1:18
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO

FILE: scn8_SP_A2_11_935L_Milo.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
1.0933 -0.3514
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.65880 -0.6124
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2287 -0.4361
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
2.3020 -1.501
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
0.98910 -0.5145
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.95300 -0.4948

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO

FILE: scn8_SP_A2_11_935L_Milo.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1212 0.71470
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1196 0.65650
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1196 0.65650
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1202 0.66260
CHNL# 291: [ETRM972378[0.7000]G1]
1.1745 0.45340
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1734 0.46480

SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO

FILE: scn8_SP_A2_11_935L_Milo.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
1.7030 -0.5507
CHNL# 162: [VARS 775[SECCT2 21.000]3]
3.3006 -1.554
CHNL# 161: [VARS 774[SECCT1 21.000]2]
3.3006 -1.554
CHNL# 160: [VARS 773[SECST 20.000]1]
4.1013 -1.824
CHNL# 185: [VARS972378[0.7000]G1]
0.74770 -0.5179
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.84980 -0.4509

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

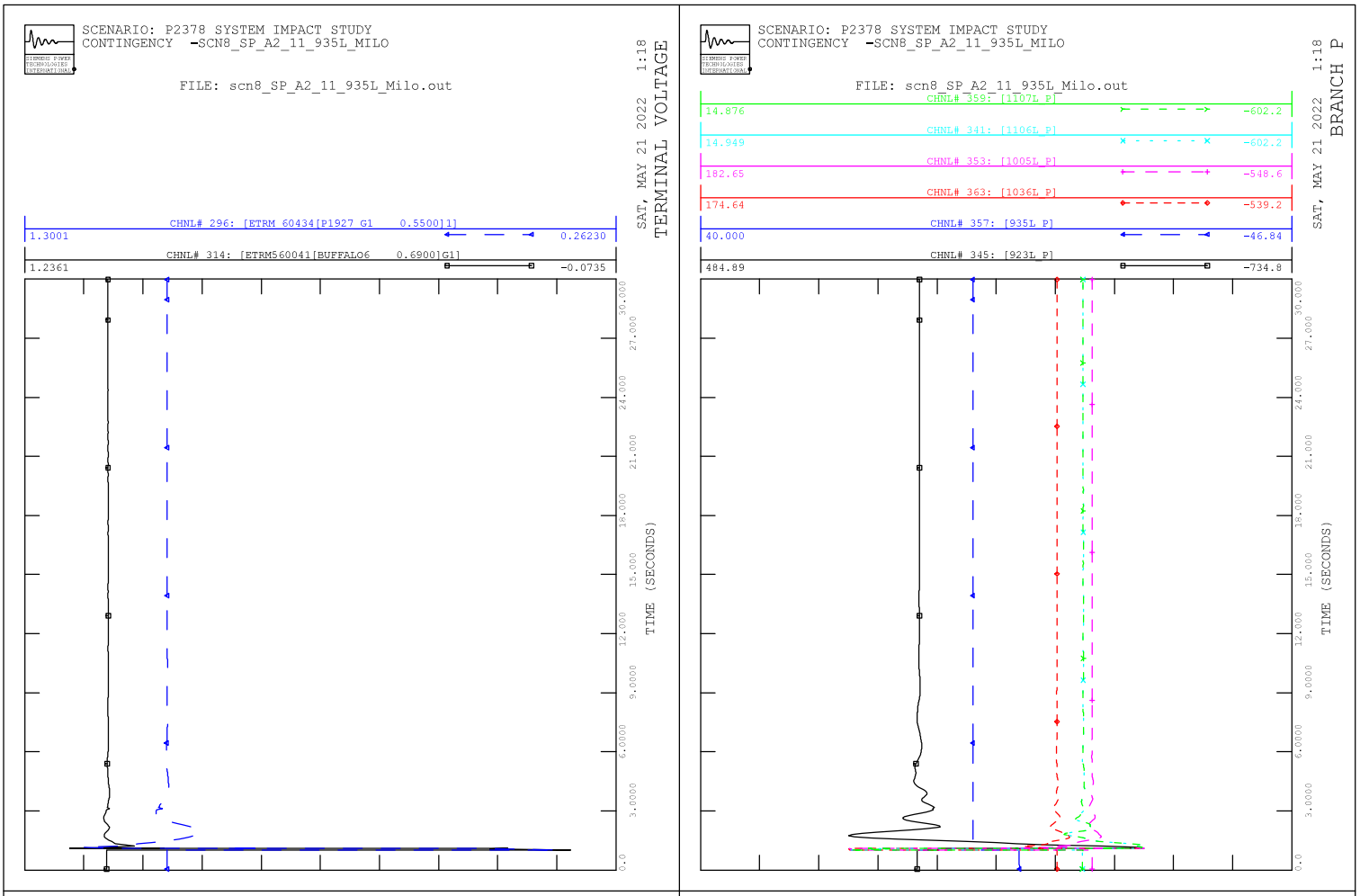
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO

FILE: scn8_SP_A2_11_935L_Milo.out

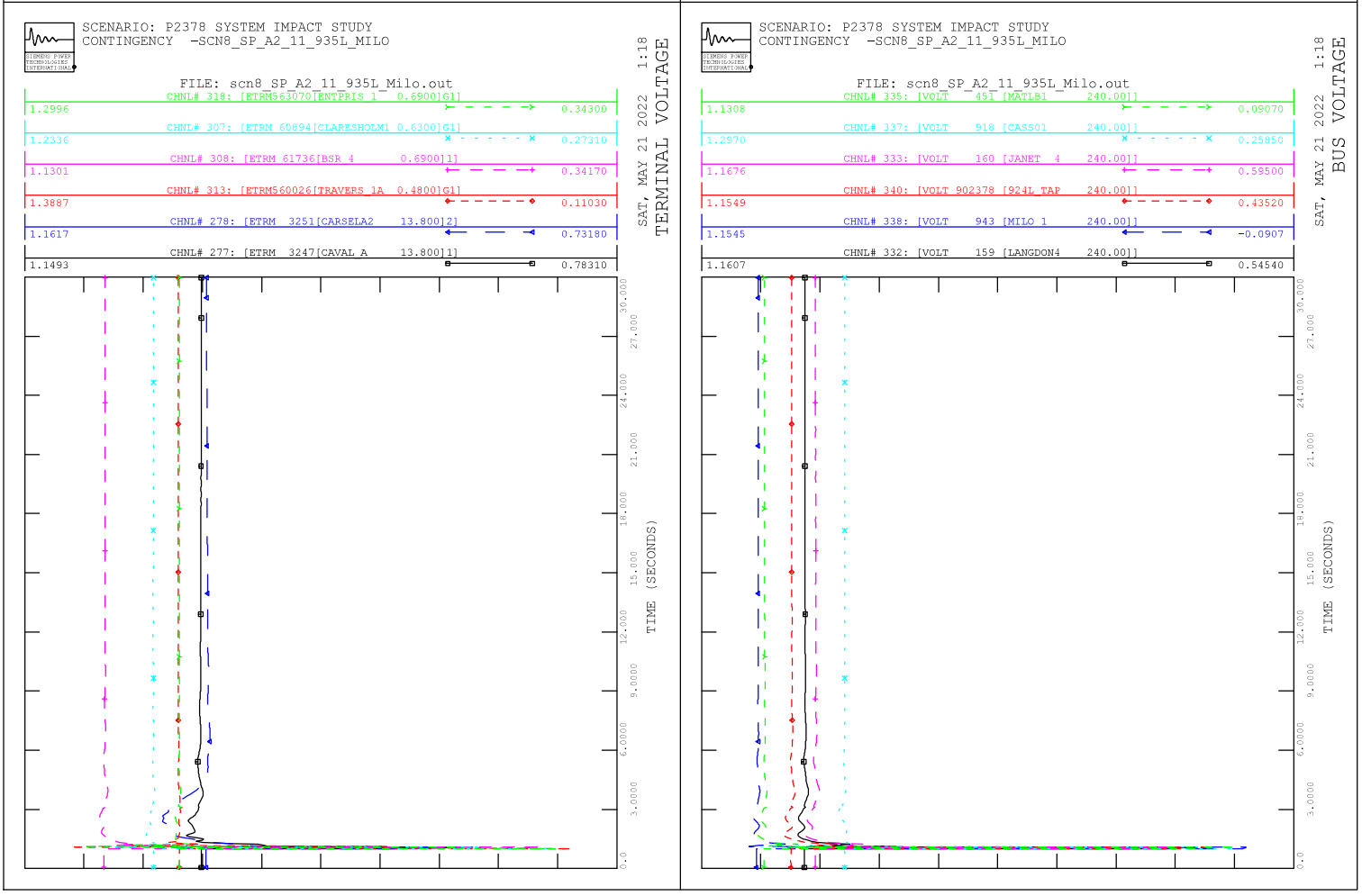
CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
2.1804 -1.493
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
5.3694 -1.785

SAT, MAY 21 2022 1:18
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO
FILE: scn8_SP_A2_11_935L_Milo.out
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
1.3001
0.26230
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.2361
-0.0735
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO
FILE: scn8_SP_A2_11_935L_Milo.out
SAT, MAY 21 2022 1:18
BRANCH P
CHNL# 359: [1107L P]
14.876
-602.2
CHNL# 341: [1106L P]
14.949
-602.2
CHNL# 353: [1005L P]
182.65
-548.6
CHNL# 363: [1036L P]
174.64
-539.2
CHNL# 357: [935L P]
40.000
-46.84
CHNL# 345: [923L P]
484.89
-734.8
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO
FILE: scn8_SP_A2_11_935L_Milo.out
SAT, MAY 21 2022 1:18
TERMINAL VOLTAGE
CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2996
0.34300
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2336
0.27310
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1301
0.34170
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3887
0.11030
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1617
0.73180
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1493
0.78310
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO
FILE: scn8_SP_A2_11_935L_Milo.out
SAT, MAY 21 2022 1:18
BUS VOLTAGE
CHNL# 335: [VOLT 457 [MATLB1 240.00]]
1.1308
0.09070
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.2970
0.25850
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1676
0.59500
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1549
0.43520
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.1545
-0.0907
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1607
0.54540
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

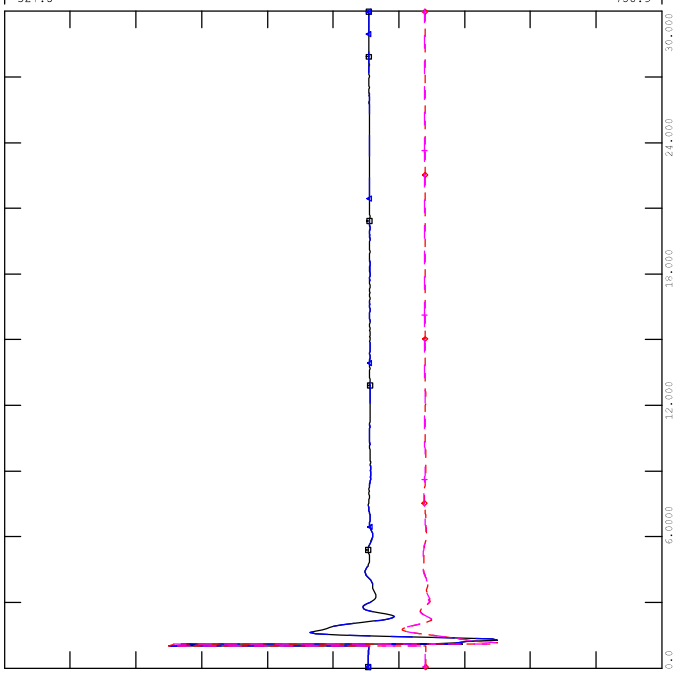
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO

FILE: scn8_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:18

BRANCH P

CHNL# 379: [927L_A2_1_P]
445.45 -1041.
CHNL# 361: [924L_A2_1_P]
450.42 -1037.
CHNL# 347: [1003L_P]
-323.7 -750.4
CHNL# 371: [985L_P]
-327.5 -758.9



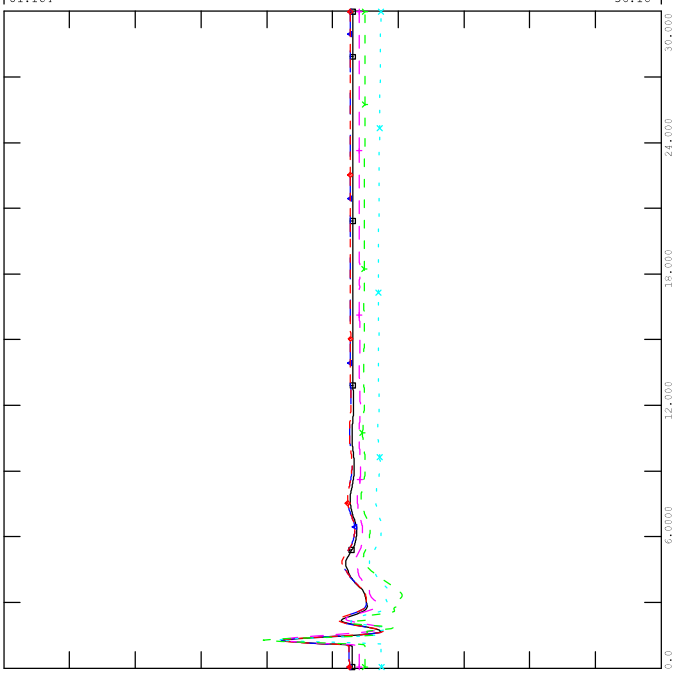
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:19

ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
83.027 -43.83
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
73.866 -46.69
CHNL# 4: [ANGL 3187[CECST 13.200]2]
66.927 -51.25
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
80.195 -38.28
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
80.195 -38.28
CHNL# 1: [ANGL 773[SECST 20.000]1]
81.164 -36.16



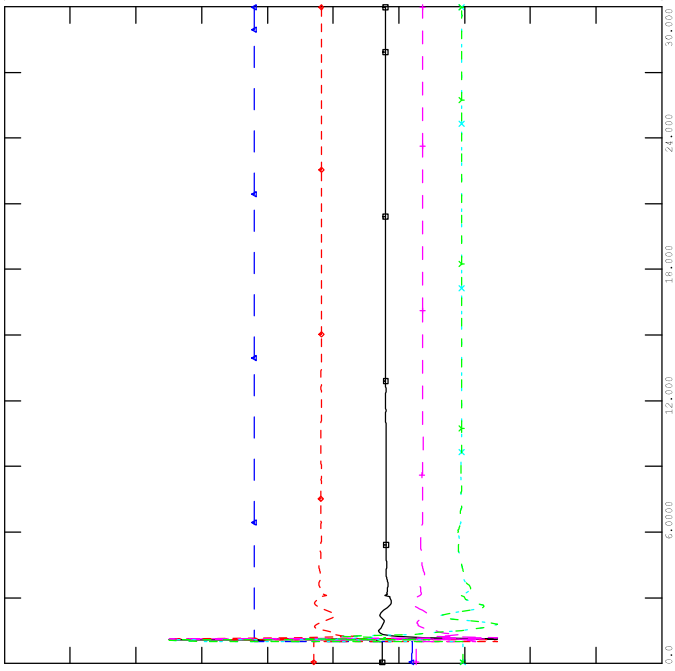
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO

FILE: scn8_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:18

BRANCH Q

CHNL# 360: [1107L_Q]
310.56 84.856
CHNL# 342: [1106L_Q]
310.64 84.992
CHNL# 354: [1005L_Q]
392.02 -164.7
CHNL# 364: [1036L_Q]
247.85 -94.00
CHNL# 358: [935L_Q]
40.000 -65.26
CHNL# 346: [923L_Q]
1054.8 -822.7



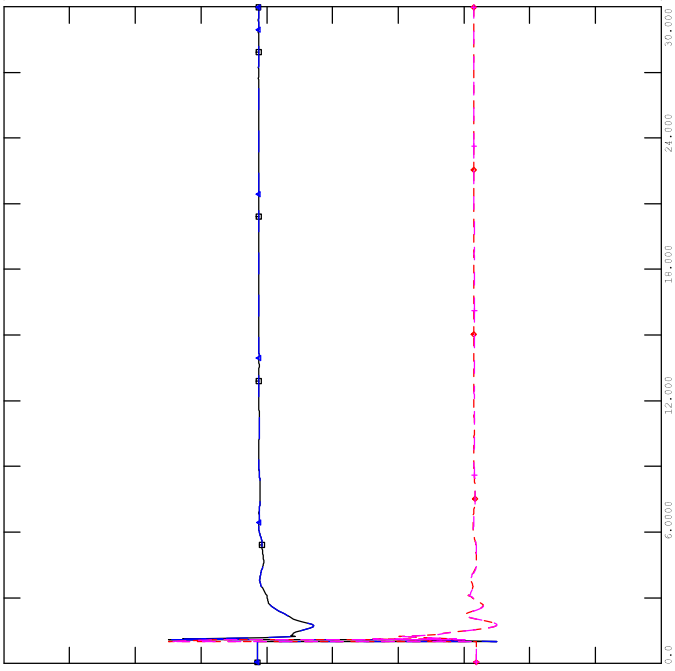
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_11_935L_MILO

FILE: scn8_SP_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:18

BRANCH Q

CHNL# 380: [927L_A2_1_Q]
838.37 -89.26
CHNL# 362: [924L_A2_1_Q]
827.72 -92.43
CHNL# 348: [1003L_Q]
386.01 -114.5
CHNL# 372: [985L_Q]
390.98 -115.7



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.76970 -0.1531

CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.76890 -0.1549

CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.5275 0.42990

CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.2736 -0.1691

CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.66560 0.01120

CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.70000 -0.0522

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
1.3935 -0.4325

CHNL# 162: [VARS 775[SECCT2 21.000]3]
2.4294 -1.079

CHNL# 161: [VARS 774[SECCT1 21.000]2]
2.4294 -1.079

CHNL# 160: [VARS 773[SECST 20.000]1]
3.0273 -1.247

CHNL# 185: [VARS972378[0.7000]G1]
0.60540 -0.5179

CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.69880 -0.4382

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

CHNL# 110: [POWR 3187[CECST 13.200]2]
1.3005 0.41970

CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.8424 1.7887

CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.8424 1.7887

CHNL# 107: [POWR 773[SECST 20.000]1]
3.6157 2.5407

CHNL# 132: [POWR972378[0.7000]G1]
1.0749 0.19130

CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0614 0.20070

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.2036 -0.2000

CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
3.1871 -0.0338

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:19 REACTIVE POWER

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1] 2.8175 -1.803
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1] 3.1996 -1.010

TIME (SECONDS) 0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1] 1.3065 0.26840
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1] 1.2550 0.27890
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1] 1.1285 0.52770
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1] 1.3056 0.33840
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2] 1.1586 0.79790
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1] 1.1466 0.83370

TIME (SECONDS) 0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:19 REACTIVE POWER

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1] 1.1872 -0.3768
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.63260 -0.6113
CHNL# 202: [VARS 61736[BSR 4 0.6900]1] 1.1713 -0.4161
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1] 2.4637 -0.6689
CHNL# 172: [VARS 3251[CARSELA2 13.800]2] 0.87730 -0.5069
CHNL# 171: [VARS 3247[CAVAL A 13.800]1] 0.84490 -0.4772

TIME (SECONDS) 0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

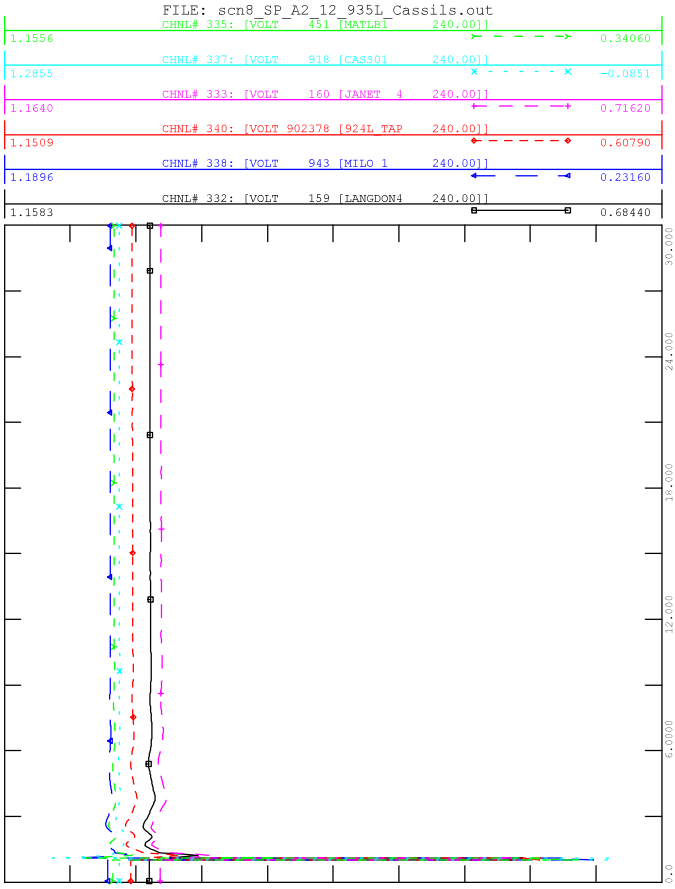
SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 269: [ETRM 3187[CECST 13.200]2] 1.1156 0.77630
CHNL# 268: [ETRM 775[SECCT2 21.000]3] 1.1141 0.74080
CHNL# 267: [ETRM 774[SECCT1 21.000]2] 1.1141 0.74080
CHNL# 266: [ETRM 773[SECST 20.000]1] 1.1144 0.74510
CHNL# 291: [ETRM972378[0.7000]G1] 1.1595 0.60220
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1] 1.1591 0.61060

TIME (SECONDS) 0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

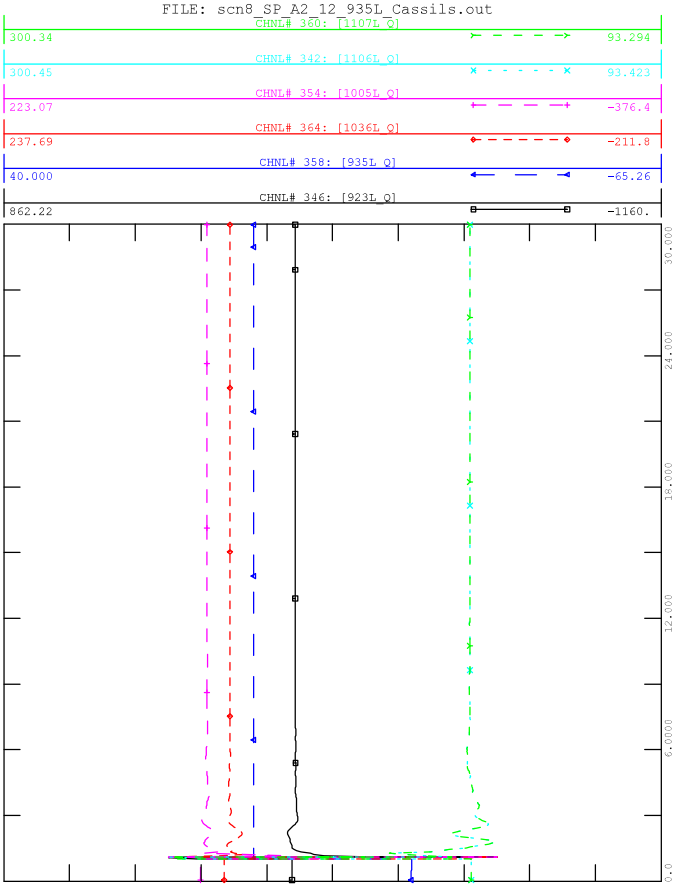
FILE: scn8_SP_A2_12_935L_Cassils.out



SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

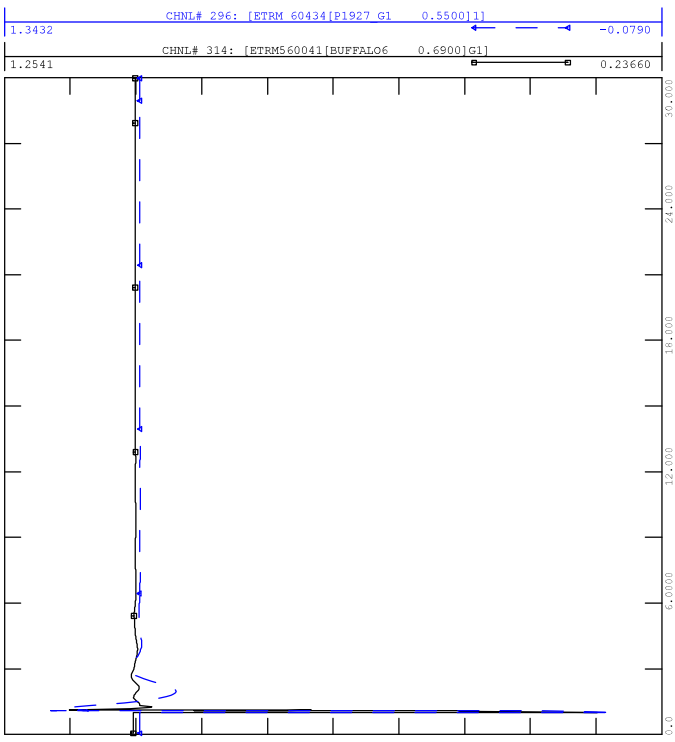
FILE: scn8_SP_A2_12_935L_Cassils.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

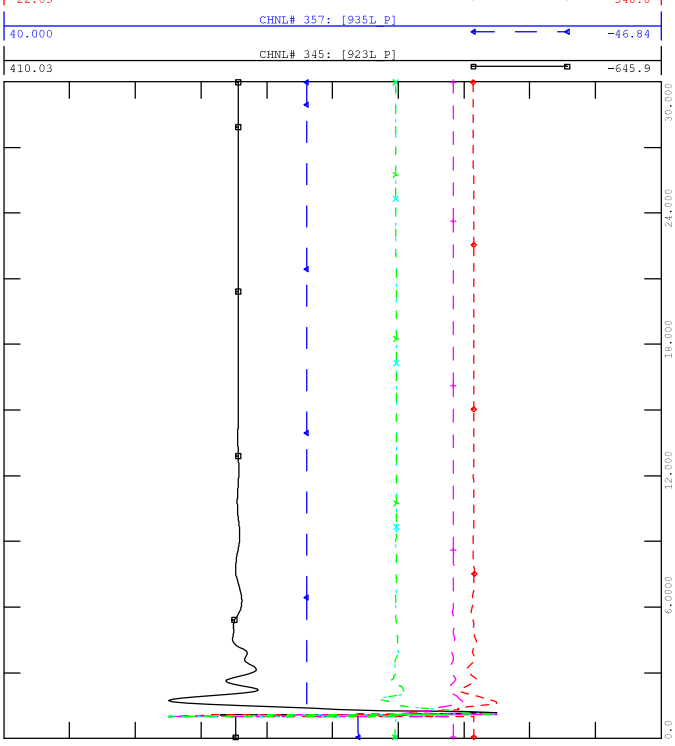
FILE: scn8_SP_A2_12_935L_Cassils.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out



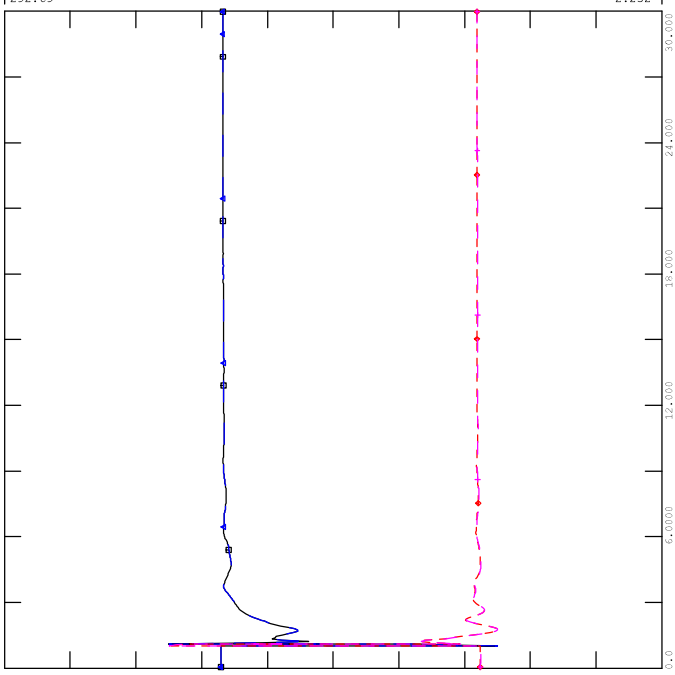
SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:19 BRANCH Q

CHNL# 380: [927L A2 1 Q] 698.01 -29.33
CHNL# 362: [924L A2 1 Q] 687.91 -32.60
CHNL# 348: [1003L Q] 288.88 -2.466
CHNL# 372: [985L Q] 292.69 -2.232

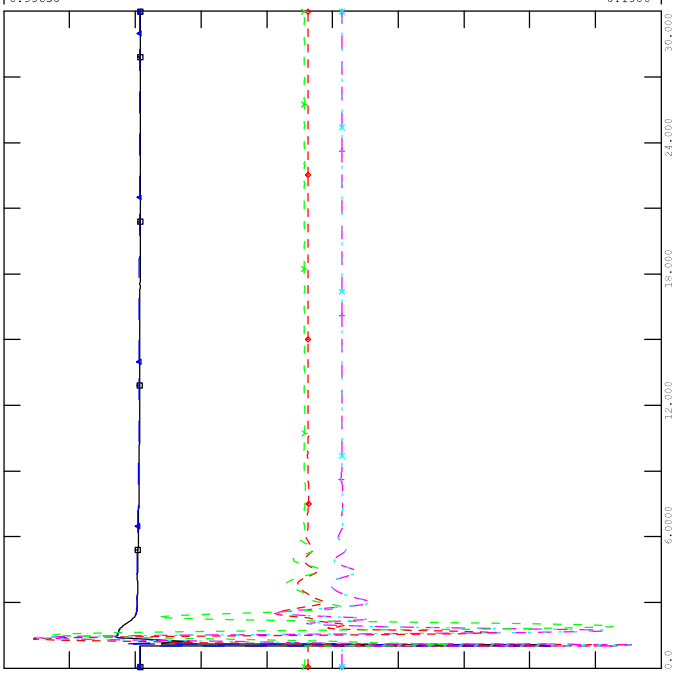


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19 ACTIVE POWER

CHNL# 110: [POWR 3187[CECST 13.200]2] 2.0791 -0.6871
CHNL# 109: [POWR 775[SECCT2 21.000]3] 4.4251 0.20490
CHNL# 108: [POWR 774[SECCT1 21.000]2] 4.4251 0.20490
CHNL# 107: [POWR 773[SECST 20.000]1] 5.2985 0.34370
CHNL# 132: [POWR972378[0.7000]G1] 0.99570 -0.1944
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1] 0.99630 -0.1906

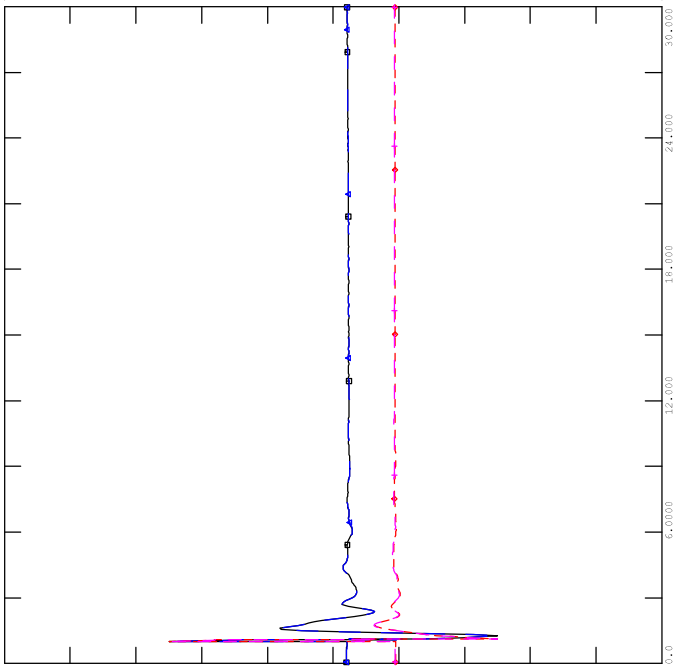


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_12_935L_CASSILS

FILE: scn8_SP_A2_12_935L_Cassils.out

SAT, MAY 21 2022 1:19 BRANCH P

CHNL# 379: [927L A2 1 P] 297.80 -1056.
CHNL# 361: [924L A2 1 P] 301.77 -1051.
CHNL# 347: [1003L P] -396.7 -710.3
CHNL# 371: [985L P] -401.3 -718.4

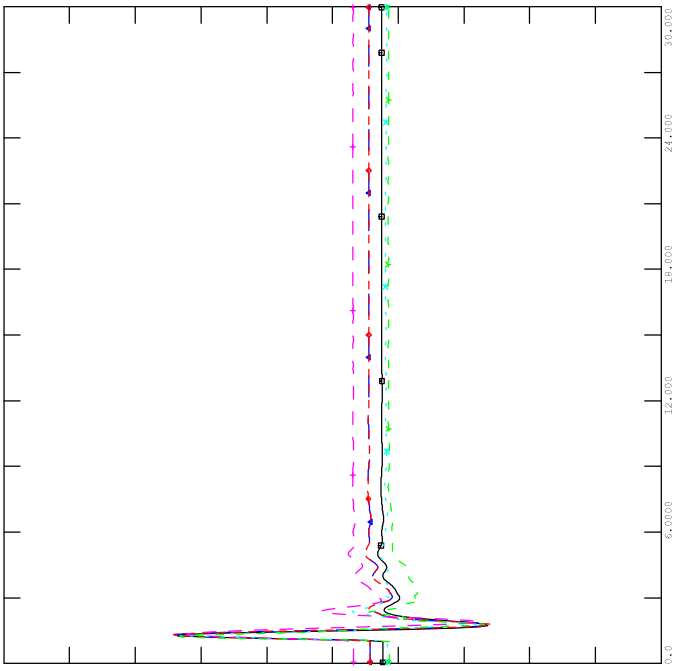


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2] 122.49 -63.79
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 108.35 -69.18
CHNL# 4: [ANGL 3187[CECST 13.200]2] 98.904 -81.15
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 125.86 -67.96
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 125.86 -67.96
CHNL# 1: [ANGL 773[SECST 20.000]1] 128.27 -61.20



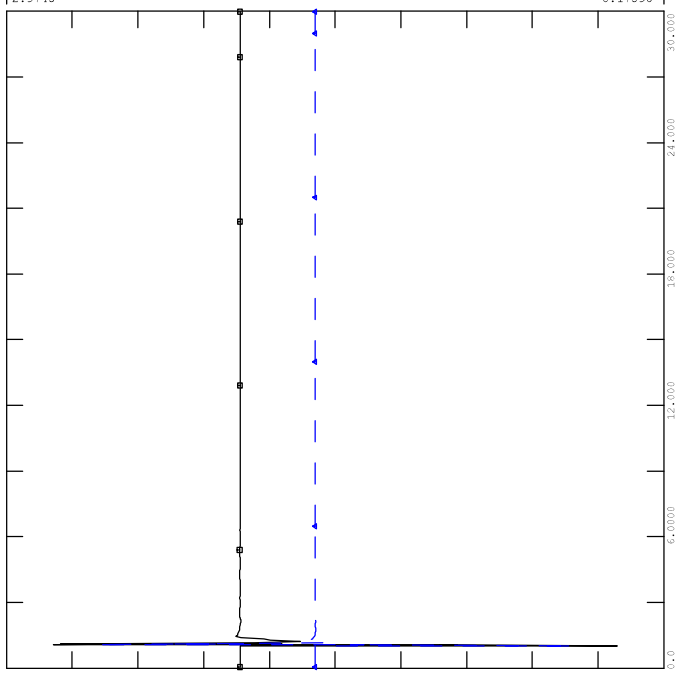
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19
ACTIVE POWER

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.6926 0.21680
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.9745 0.17590

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000



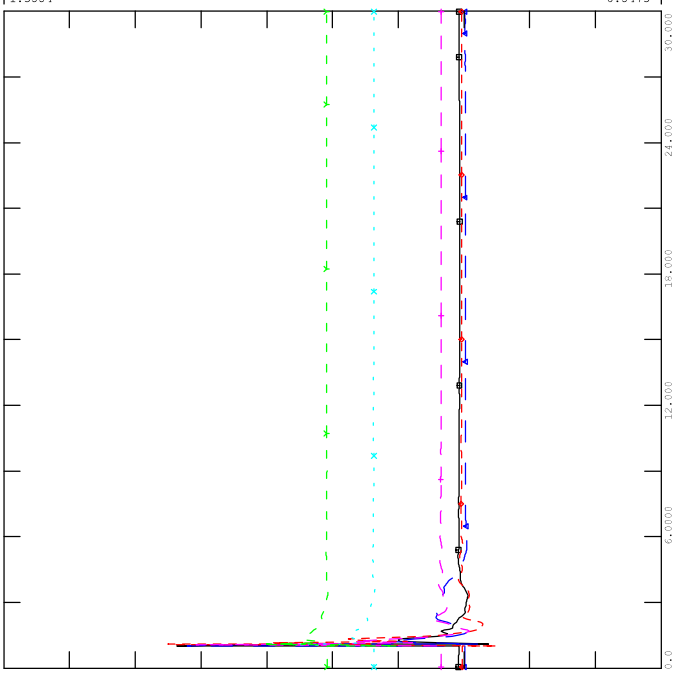
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19
REACTIVE POWER

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.96620 -0.2866
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.53500 -0.6130
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2400 -0.4697
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
2.1918 -0.5559
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2781 -0.5179
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3554 -0.5473

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000



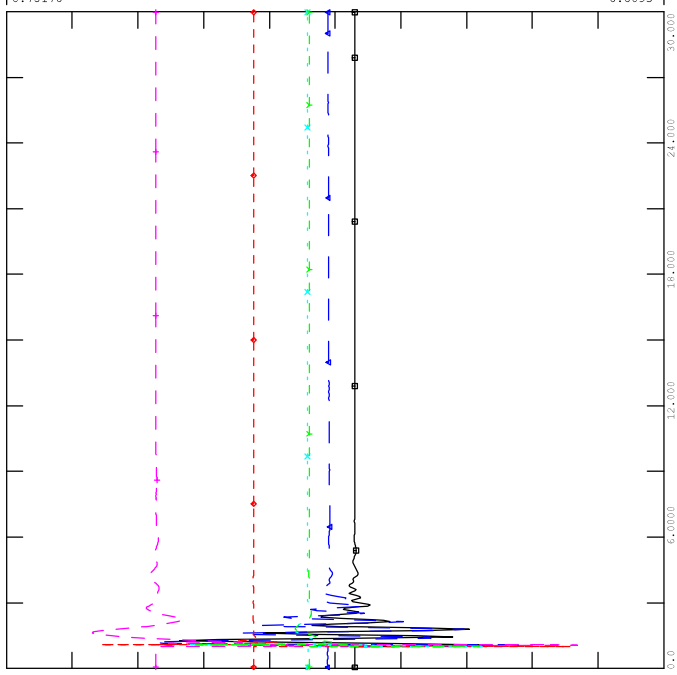
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19
ACTIVE POWER

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.65300 -0.0593
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.62620 -0.1073
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.6215 0.09490
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3028 -0.1051
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.79630 -0.1071
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.75170 -0.0093

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000



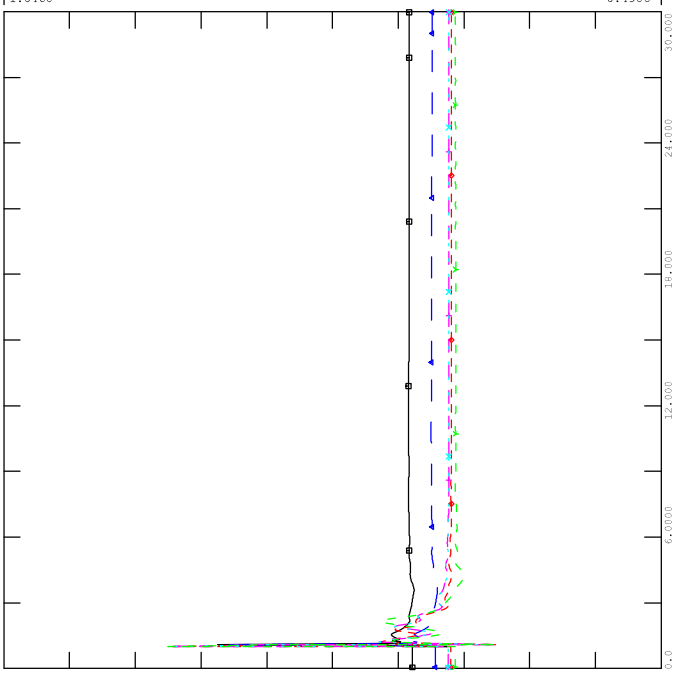
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19
REACTIVE POWER

CHNL# 163: [VARS 3187[CECST 13.200]2]
3.1962 -1.205
CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.9778 -3.005
CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.9778 -3.005
CHNL# 160: [VARS 773[SECST 20.000]1]
7.4919 -3.620
CHNL# 185: [VARS972378[0.7000]G1]
0.94590 -0.5233
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
1.0460 -0.4906

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1743 0.48280

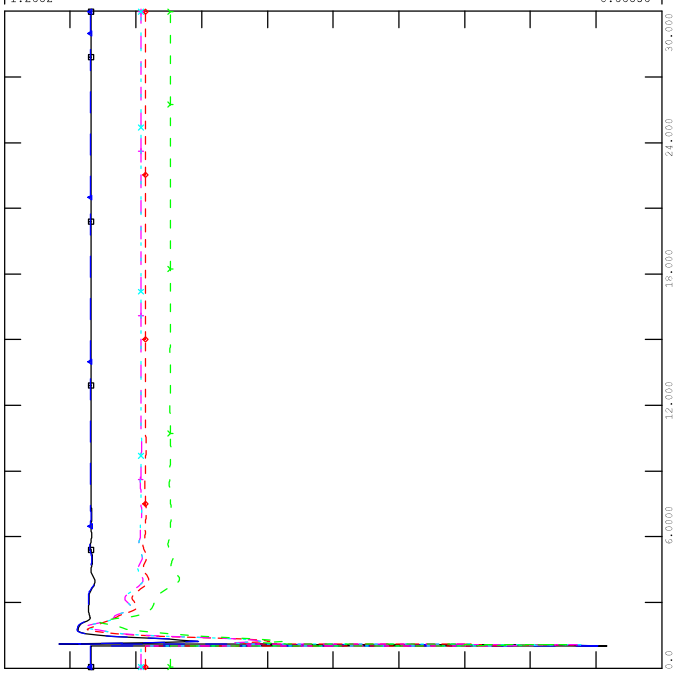
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1682 0.35800

CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1682 0.35800

CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1708 0.37460

CHNL# 291: [ETRM972378[0.7000]G1]
1.2101 -0.0157

CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2082 0.00850



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

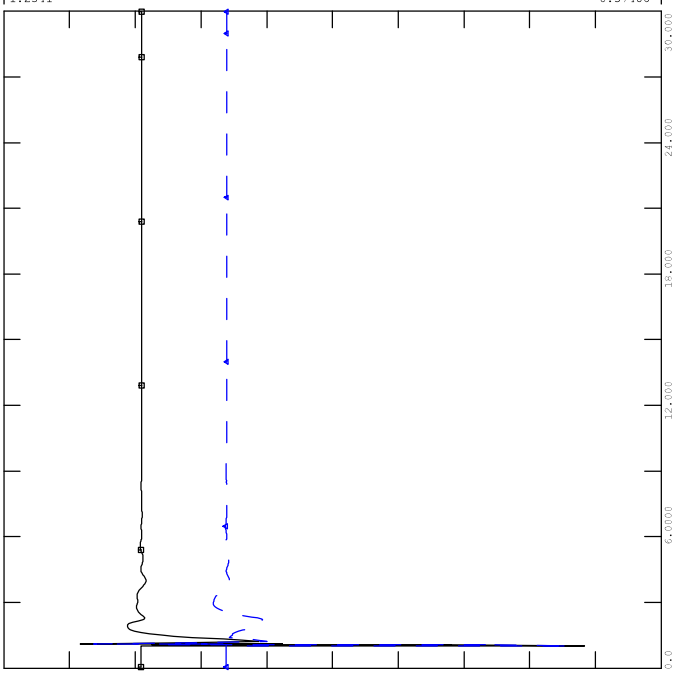
FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
1.2985 0.56380

CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.2341 0.37480



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

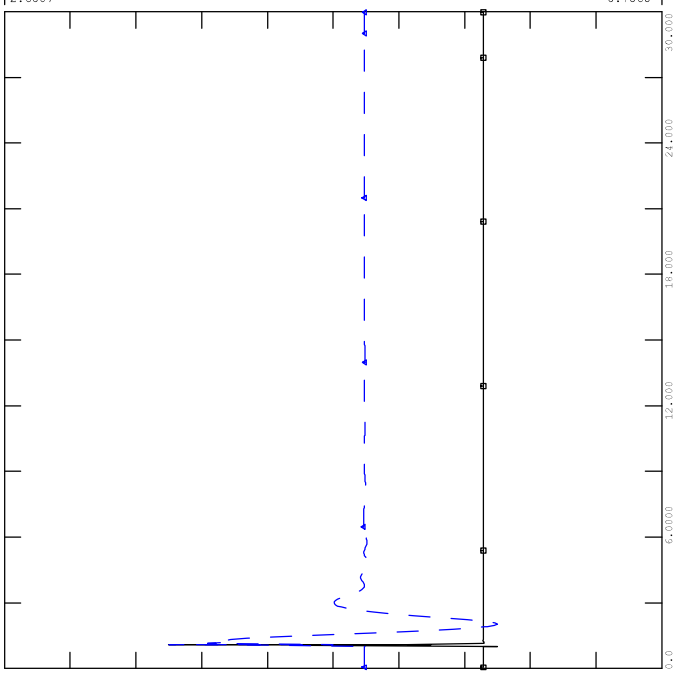
FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
1.2643 -0.9674

CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
2.6007 -0.7868



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2680 0.53390

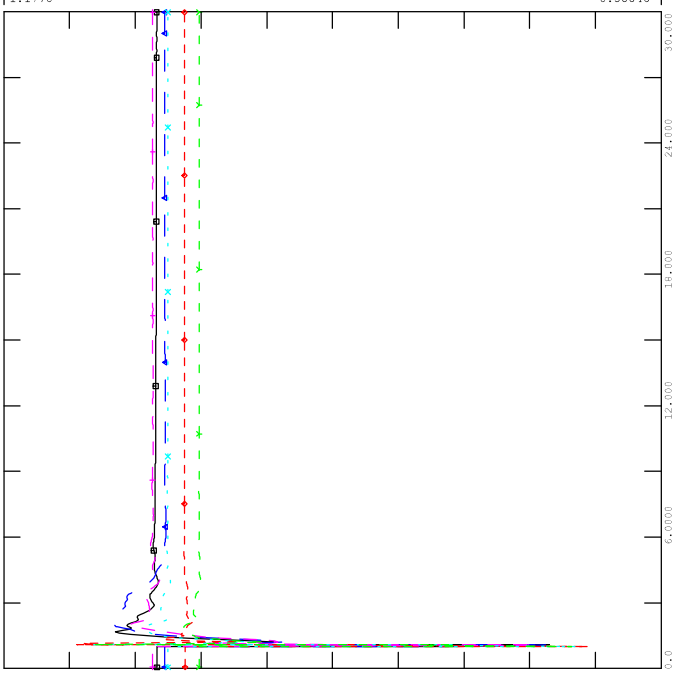
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2183 0.44310

CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1418 0.62470

CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.3030 0.40290

CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1750 0.58190

CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1770 0.58840



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19

BRANCH P

CHNL# 359: [1107L P]
129.44 -697.9

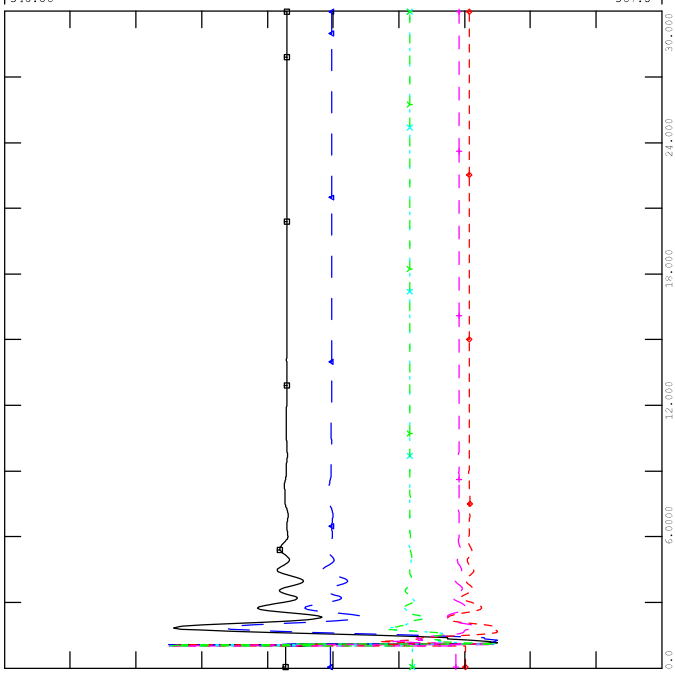
CHNL# 341: [1106L P]
129.43 -698.0

CHNL# 353: [1005L P]
134.17 -500.4

CHNL# 363: [1036L P]
76.735 -397.4

CHNL# 357: [935L P]
340.93 -360.7

CHNL# 345: [923L P]
340.86 -367.5



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19

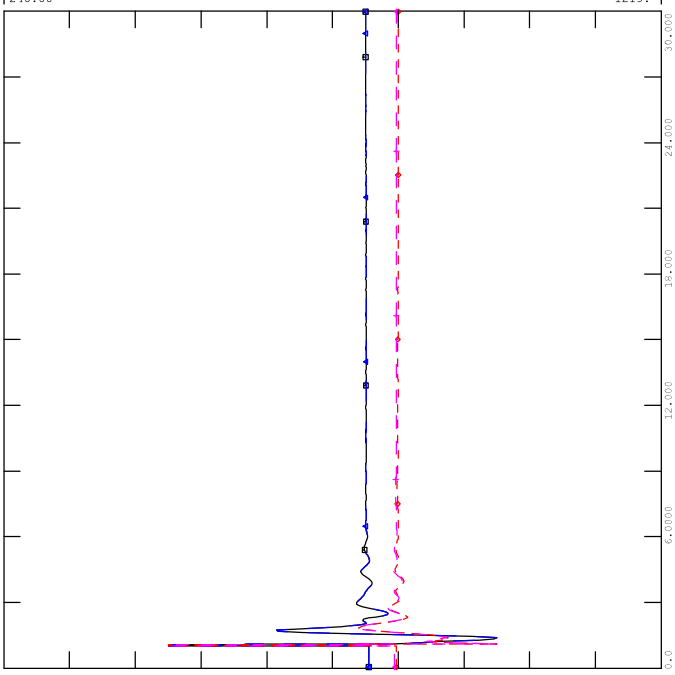
BRANCH P

CHNL# 379: [927L A2 1 P]
362.60 -1099.

CHNL# 361: [924L A2 1 P]
357.81 -1085.

CHNL# 347: [1003L P]
246.29 -1205.

CHNL# 371: [985L P]
248.88 -1219.



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19

BUS VOLTAGE

CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1465 0.32920

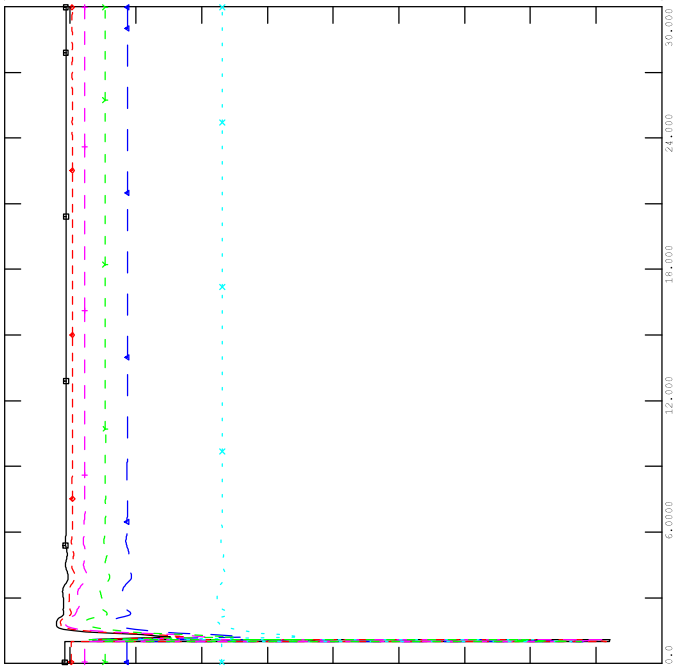
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.2865 0.55910

CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1918 0.09740

CHNL# 340: [VOLT 902378 [924L_TAP 240.00]]
1.1662 -0.0116

CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.1944 0.35920

CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1705 -0.0947



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

SAT, MAY 21 2022 1:19

BRANCH Q

CHNL# 360: [1107L Q]
283.89 -146.5

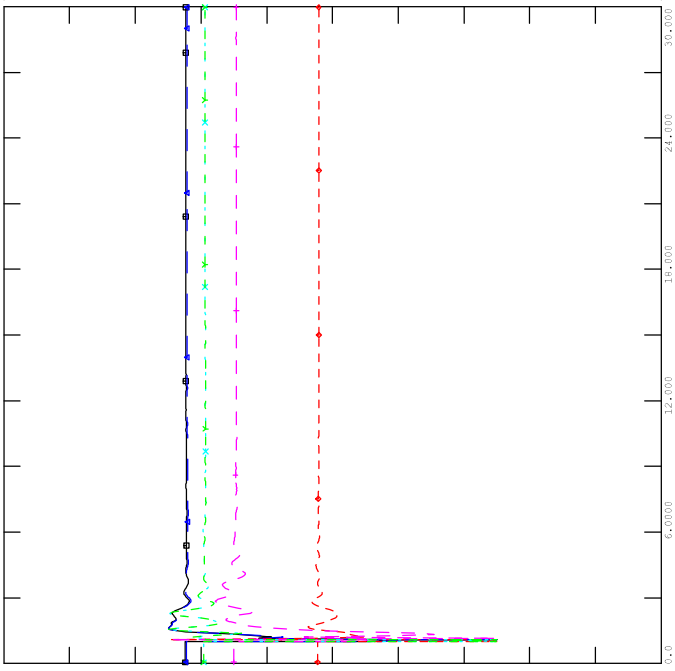
CHNL# 342: [1106L Q]
284.07 -146.5

CHNL# 354: [1005L Q]
126.06 -110.1

CHNL# 364: [1036L Q]
313.75 -160.9

CHNL# 358: [935L Q]
182.58 -566.1

CHNL# 346: [923L Q]
202.79 -622.8



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
122.49 -63.79
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
108.35 -69.18
CHNL# 4: [ANGL 3187[CECST 13.200]2]
98.904 -81.15
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
125.86 -67.96
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
125.86 -67.96
CHNL# 1: [ANGL 773[SECST 20.000]1]
128.27 -61.20

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.65300 -0.0593
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.62620 -0.1073
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.6215 0.09490
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3028 -0.1051
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.79630 -0.1071
CHNL# 118: [POWR 3247[CAVAL_A 13.800]1]
0.75170 -0.0093

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_13_1064L_LANGDON

FILE: scn8_SP_A2_13_1064L_Langdon.out

CHNL# 380: [927L A2 1 Q]
398.63 -219.0
CHNL# 362: [924L A2 1 Q]
392.45 -217.7
CHNL# 348: [1003L Q]
600.67 -551.7
CHNL# 372: [985L Q]
608.16 -558.0

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 110: [POWR 3187[CECST 13.200]2]
2.0791 -0.6871
CHNL# 109: [POWR 775[SECCT2 21.000]3]
4.4251 0.20490
CHNL# 108: [POWR 774[SECCT1 21.000]2]
4.4251 0.20490
CHNL# 107: [POWR 773[SECST 20.000]1]
5.2985 0.34370
CHNL# 132: [POWR972378[0.7000]G1]
0.99570 -0.1944
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
0.99630 -0.1906

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
3.1962 -1.205

CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.9778 -3.005

CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.9778 -3.005

CHNL# 160: [VARS 773[SECST 20.000]1]
7.4919 -3.620

CHNL# 185: [VARS972378[0.7000]G1]
0.94590 -0.5233

CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
1.0460 -0.4906

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
1.2643 -0.9674

CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
2.6007 -0.7868

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.6926 0.21680

CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.9744 0.17590

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.96620 -0.2866

CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.53500 -0.6130

CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2400 -0.4697

CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
2.1918 -0.5559

CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2781 -0.5178

CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3554 -0.5473

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1] 1.2680 0.53390
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1] 1.2183 0.44310
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1] 1.1418 0.62470
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1] 1.3030 0.40290
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2] 1.1750 0.58190
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1] 1.1770 0.58840

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 335: [VOLT 451 [MATLB1 240.00]] 1.1465 0.32920
CHNL# 337: [VOLT 918 [CASS01 240.00]] 1.2865 0.55910
CHNL# 333: [VOLT 160 [JANET 4 240.00]] 1.1918 0.09740
CHNL# 340: [VOLT 902378 [924L TAP 240.00]] 1.1662 -0.0116
CHNL# 338: [VOLT 943 [MILO 1 240.00]] 1.1943 0.35920
CHNL# 332: [VOLT 159 [LANGDON4 240.00]] 1.1705 -0.0947

SAT, MAY 21 2022 1:19
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 269: [ETRM 3187[CECST 13.200]2] 1.1743 0.48280
CHNL# 268: [ETRM 775[SECCT2 21.000]3] 1.1682 0.35800
CHNL# 267: [ETRM 774[SECCT1 21.000]2] 1.1682 0.35800
CHNL# 266: [ETRM 773[SECST 20.000]1] 1.1708 0.37460
CHNL# 291: [ETRM972378[0.7000]G1] 1.2101 -0.0157
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1] 1.2082 0.00850

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

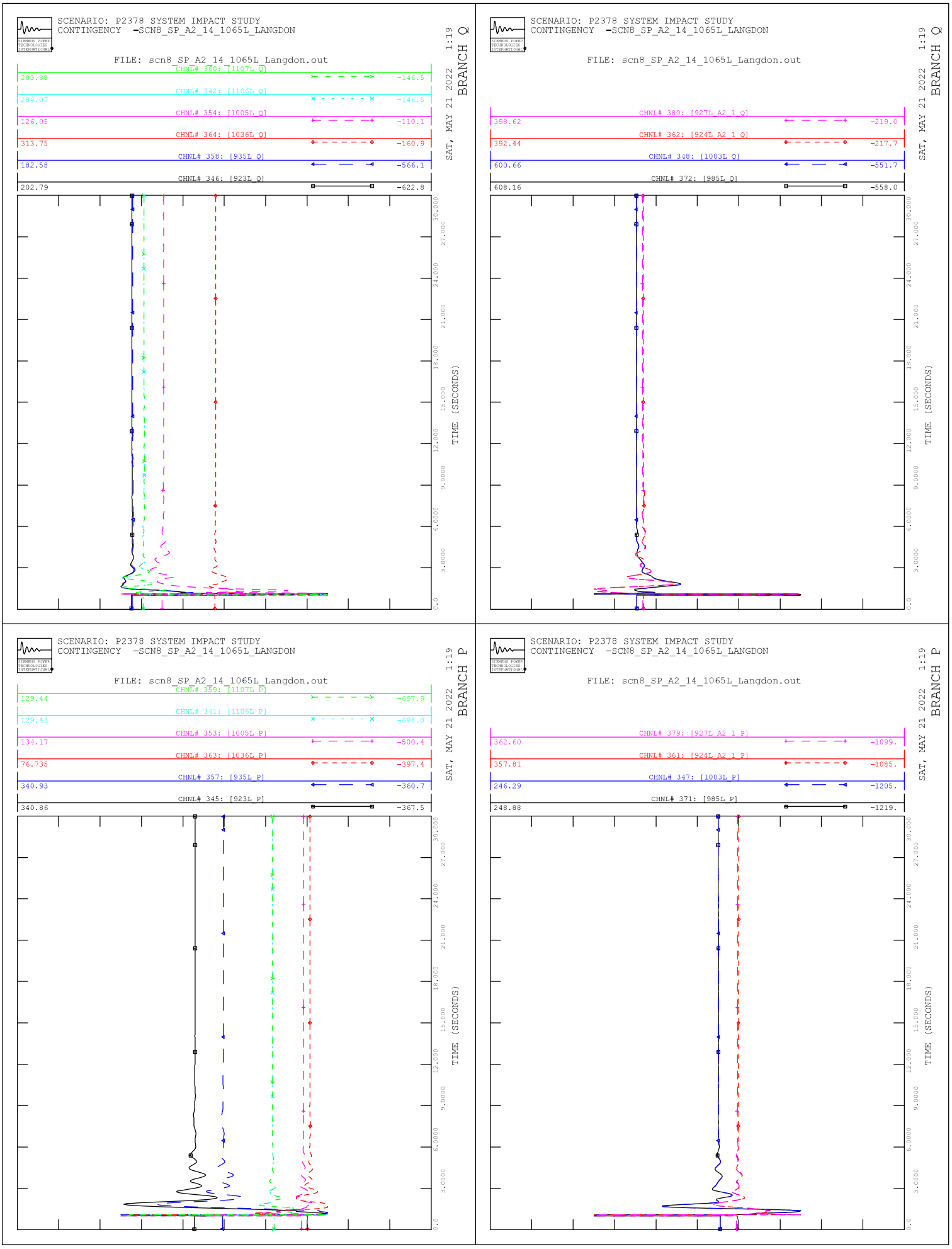
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON

FILE: scn8_SP_A2_14_1065L_Langdon.out

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1] 1.2985 0.56380
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1] 1.2341 0.37480

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

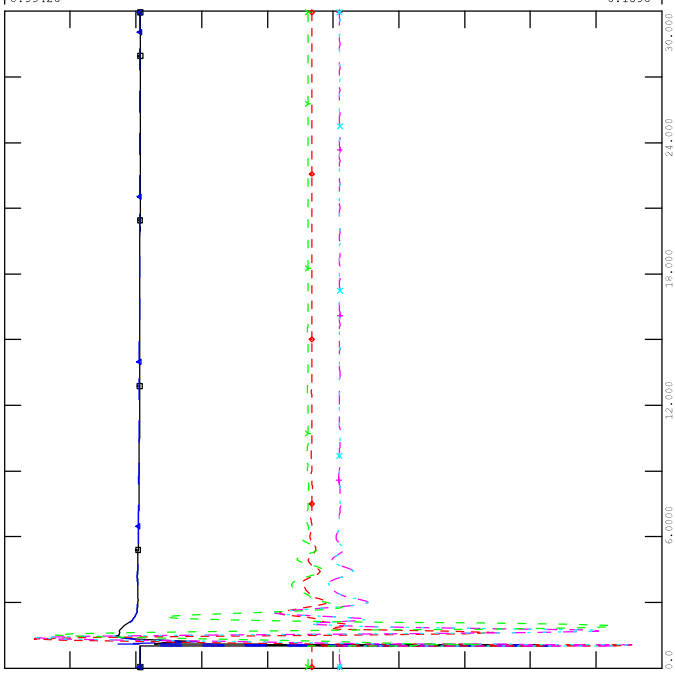
TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON
FILE: scn8_SP_A2_14_1065L_Langdon.out
CHNL# 360: [1107L Q]
283.88
-146.5
CHNL# 342: [1106L Q]
284.07
-146.5
CHNL# 354: [1005L Q]
126.05
-110.1
CHNL# 364: [1036L Q]
313.75
-160.9
CHNL# 358: [935L Q]
182.58
-566.1
CHNL# 346: [923L Q]
202.79
-622.8
BRANCH Q
SAT, MAY 21 2022 1:19
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON
FILE: scn8_SP_A2_14_1065L_Langdon.out
CHNL# 380: [927L A2 1 Q]
398.62
-219.0
CHNL# 362: [924L A2 1 Q]
392.44
-217.7
CHNL# 348: [1003L Q]
600.66
-551.7
CHNL# 372: [985L Q]
608.16
-558.0
BRANCH Q
SAT, MAY 21 2022 1:19
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON
FILE: scn8_SP_A2_14_1065L_Langdon.out
CHNL# 359: [1107L P]
129.44
-697.9
CHNL# 341: [1106L P]
129.43
-698.0
CHNL# 353: [1005L P]
134.17
-500.4
CHNL# 363: [1036L P]
76.735
-397.4
CHNL# 357: [935L P]
340.93
-360.7
CHNL# 345: [923L P]
340.86
-367.5
BRANCH P
SAT, MAY 21 2022 1:19
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_14_1065L_LANGDON
FILE: scn8_SP_A2_14_1065L_Langdon.out
CHNL# 379: [927L A2 1 P]
362.60
-1099.
CHNL# 361: [924L A2 1 P]
357.81
-1085.
CHNL# 347: [1003L P]
246.29
-1205.
CHNL# 371: [985L P]
248.88
-1219.
BRANCH P
SAT, MAY 21 2022 1:19
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

CHNL# 110: [POWR 3187[CECST 13.200]2]
2.0405 -0.6173
CHNL# 109: [POWR 775[SECCT2 21.000]3]
4.3664 0.22350
CHNL# 108: [POWR 774[SECCT1 21.000]2]
4.3664 0.22350
CHNL# 107: [POWR 773[SECST 20.000]1]
5.3178 0.36990
CHNL# 132: [POWR972378[0.7000]G1]
0.99420 -0.1930
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
0.99420 -0.1890

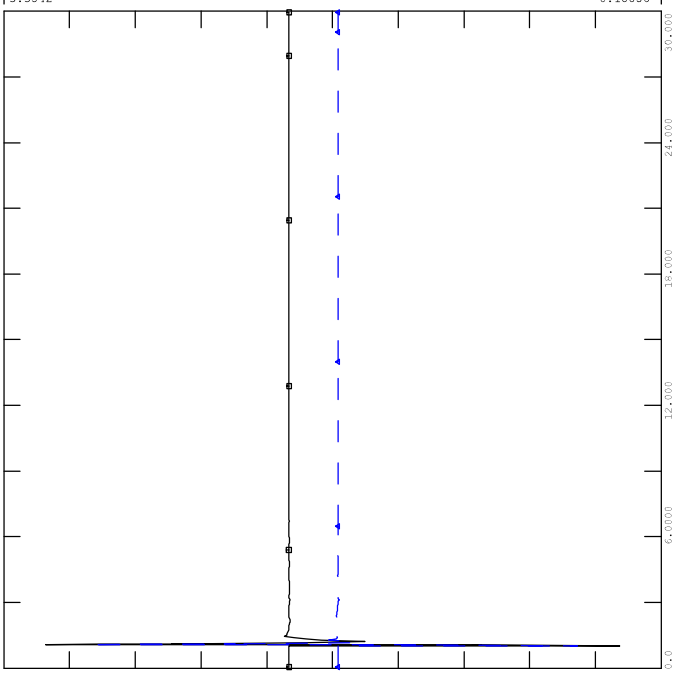


SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
1.7950 0.23030
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
3.3542 0.18850

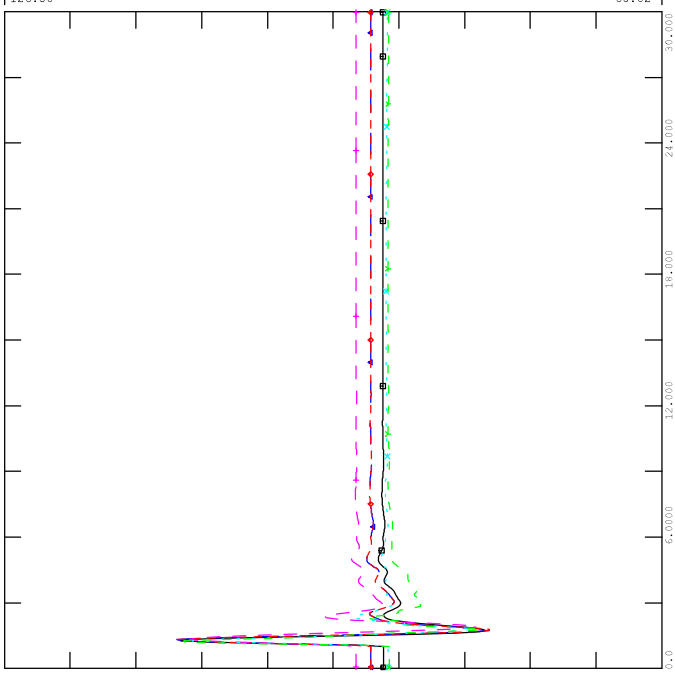


SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
120.52 -62.62
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
106.81 -68.23
CHNL# 4: [ANGL 3187[CECST 13.200]2]
98.106 -79.73
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
124.16 -66.34
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
124.16 -66.34
CHNL# 1: [ANGL 773[SECST 20.000]1]
126.50 -60.02

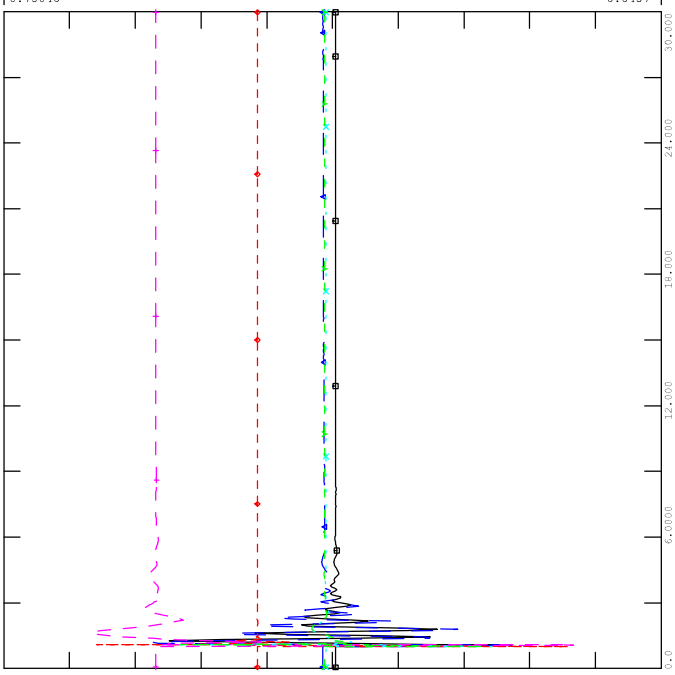


SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.68890 -0.0570
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.66950 -0.1049
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.6215 0.12070
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
1.3206 -0.0967
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.78490 -0.1019
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.75040 -0.0457



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.99820 -0.2848
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.53660 -0.6149
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2353 -0.4720
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
1.6319 -0.3670
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2716 -0.5070
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3494 -0.5253

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1715 0.48650
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1638 0.36360
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1638 0.36360
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1666 0.38000
CHNL# 291: [ETRM972378[0.7000]G1]
1.1794 -0.0064
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1839 0.01760

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
3.1586 -1.139
CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.9240 -2.892
CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.9240 -2.892
CHNL# 160: [VARS 773[SECST 20.000]1]
7.4214 -3.481
CHNL# 185: [VARS972378[0.7000]G1]
1.0069 -0.5282
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
1.0923 -0.4898

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
1.3163 -1.019
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
2.9317 -0.8960

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

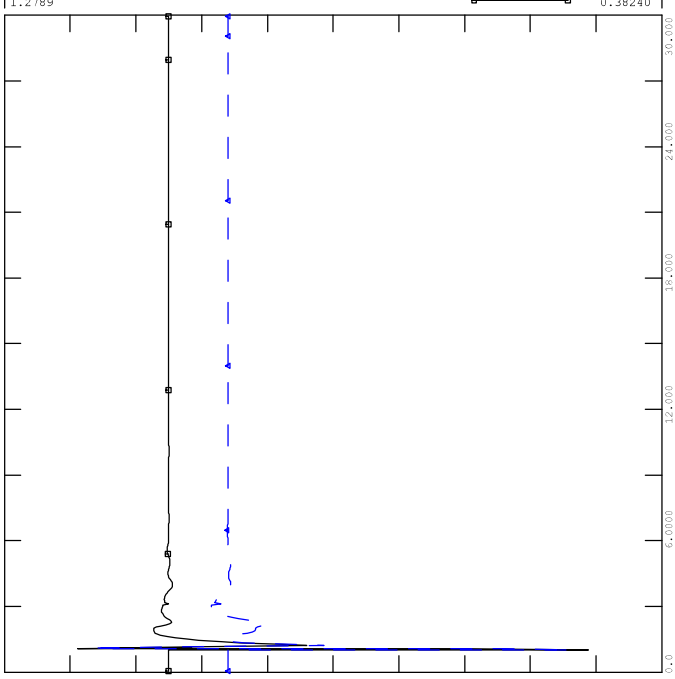
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
1.2977 0.56980
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.2789 0.38240

TIME (SECONDS)



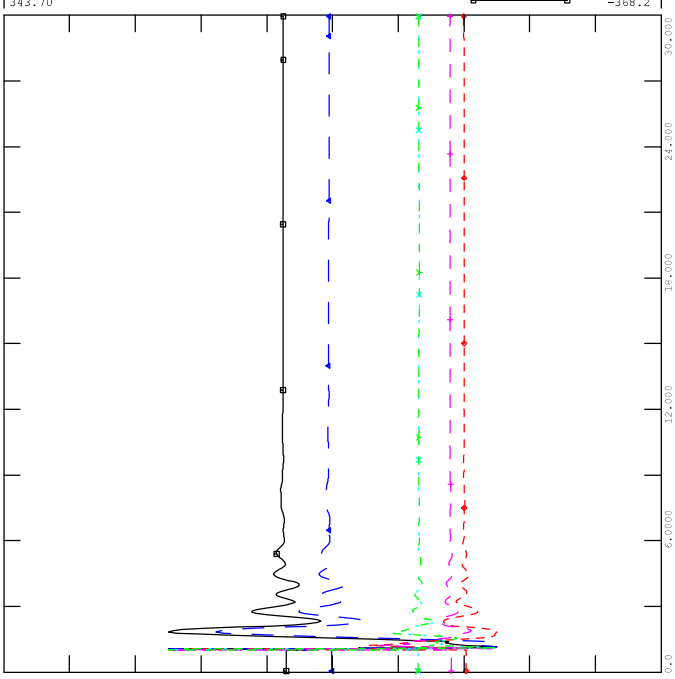
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:19 BRANCH P

CHNL# 359: [1107L P]
118.46 -678.3
CHNL# 341: [1106L P]
118.44 -678.4
CHNL# 353: [1005L P]
133.95 -505.6
CHNL# 363: [1036L P]
74.502 -395.4
CHNL# 357: [935L P]
332.52 -347.8
CHNL# 345: [923L P]
343.70 -368.2

TIME (SECONDS)



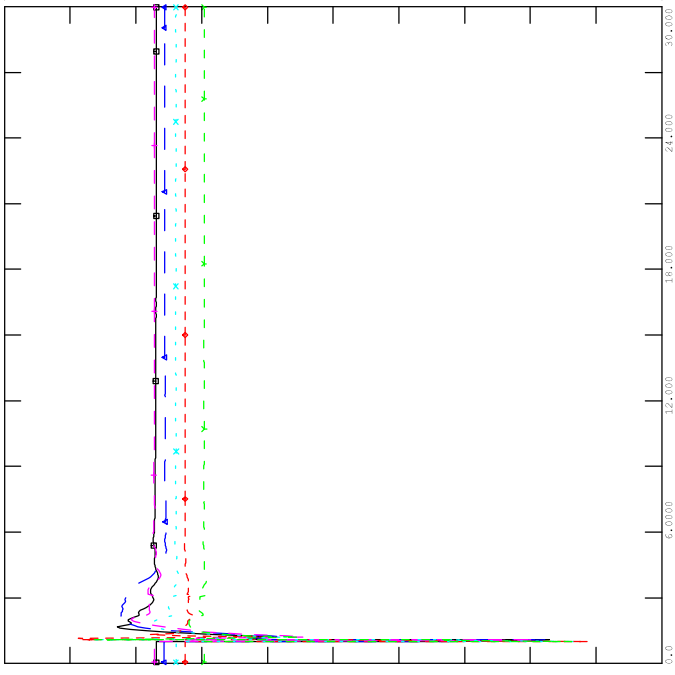
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2722 0.54020
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2278 0.45000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1431 0.62460
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2997 0.41040
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1728 0.58490
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1749 0.59150

TIME (SECONDS)



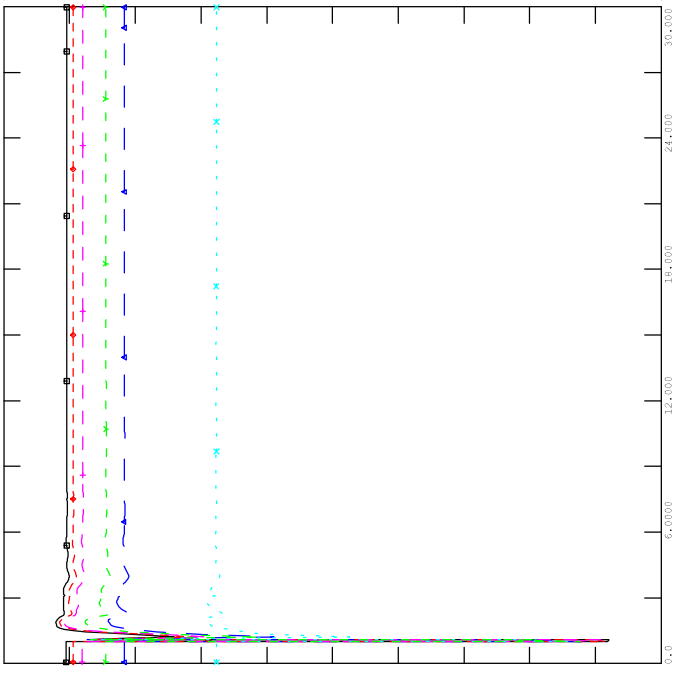
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANGDON

FILE: scn8_SP_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:19 BUS VOLTAGE

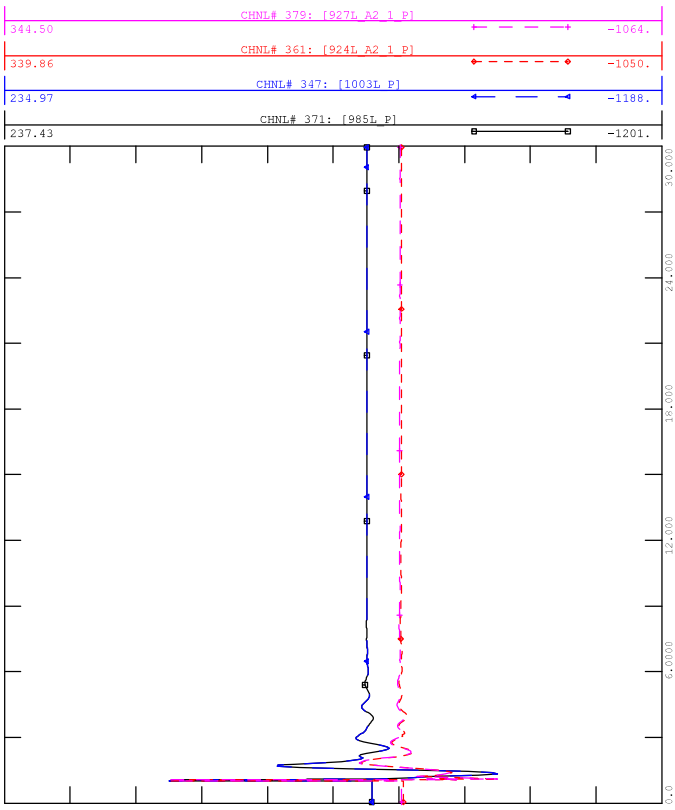
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1469 0.33800
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.2754 0.56520
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1866 0.10630
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1696 -0.0023
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.1906 0.36670
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1738 -0.0857

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANDON

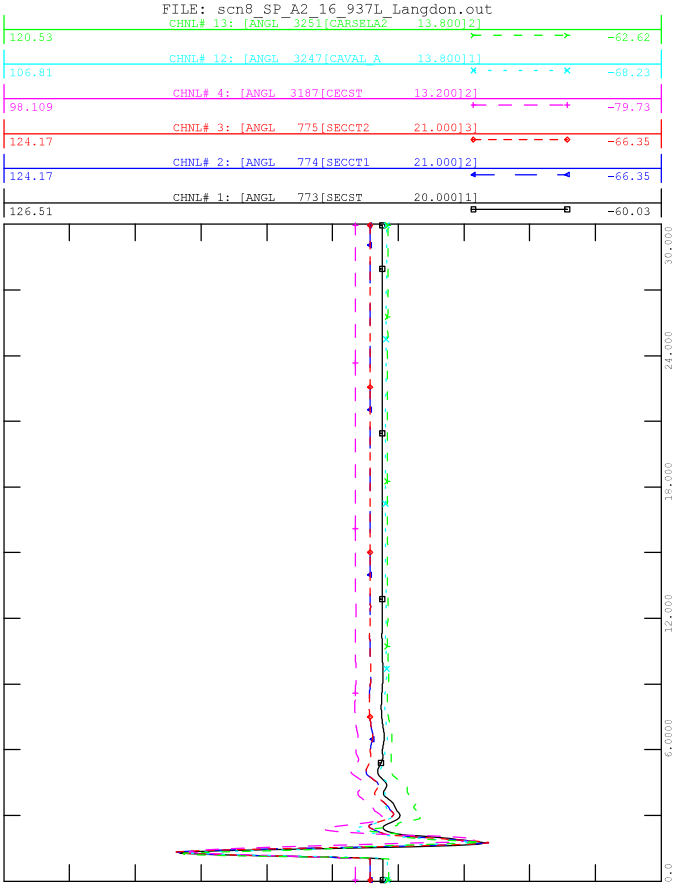
FILE: scn8_SP_A2_15_936L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANDON

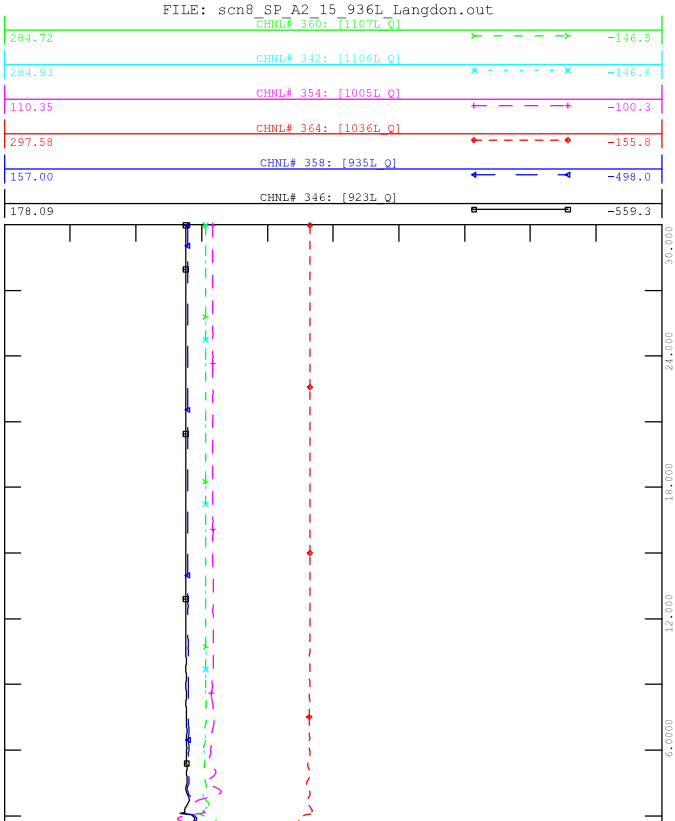
FILE: scn8_SP_A2_16_937L_Langdon.out



SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANDON

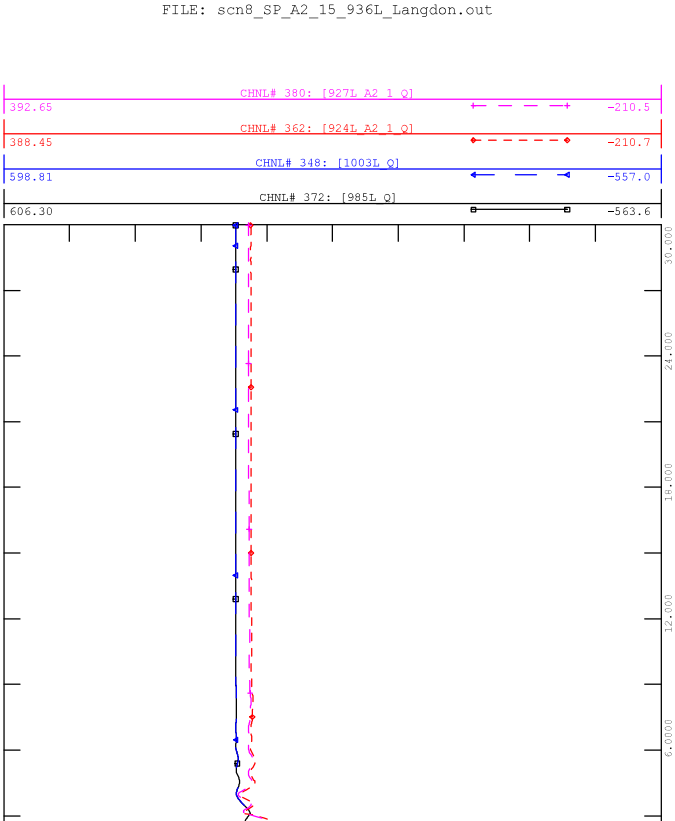
FILE: scn8_SP_A2_15_936L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_15_936L_LANDON

FILE: scn8_SP_A2_15_936L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON

FILE: scn8_SP_A2_16_937L_Langdon.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1] 0.68950 -0.0570
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1] 0.67020 -0.1049
CHNL# 149: [POWR 61736[BSR 4 0.6900]1] 1.6215 0.12070
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1] 1.2567 -0.0968
CHNL# 119: [POWR 3251[CARSELA2 13.800]2] 0.78490 -0.1020
CHNL# 118: [POWR 3247[CAVAL A 13.800]1] 0.75020 -0.0448

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON

FILE: scn8_SP_A2_16_937L_Langdon.out

CHNL# 163: [VARS 3187[CECST 13.200]2] 3.1589 -1.140
CHNL# 162: [VARS 775[SECCT2 21.000]3] 5.9245 -2.893
CHNL# 161: [VARS 774[SECCT1 21.000]2] 5.9245 -2.893
CHNL# 160: [VARS 773[SECST 20.000]1] 7.4221 -3.483
CHNL# 185: [VARS972378[0.7000]G1] 1.0079 -0.5282
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1] 1.0935 -0.4898

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON

FILE: scn8_SP_A2_16_937L_Langdon.out

CHNL# 110: [POWR 3187[CECST 13.200]2] 2.0403 -0.6172
CHNL# 109: [POWR 775[SECCT2 21.000]3] 4.3660 0.22340
CHNL# 108: [POWR 774[SECCT1 21.000]2] 4.3660 0.22340
CHNL# 107: [POWR 773[SECST 20.000]1] 5.3175 0.36980
CHNL# 132: [POWR972378[0.7000]G1] 0.99430 -0.1931
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1] 0.99430 -0.1890

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

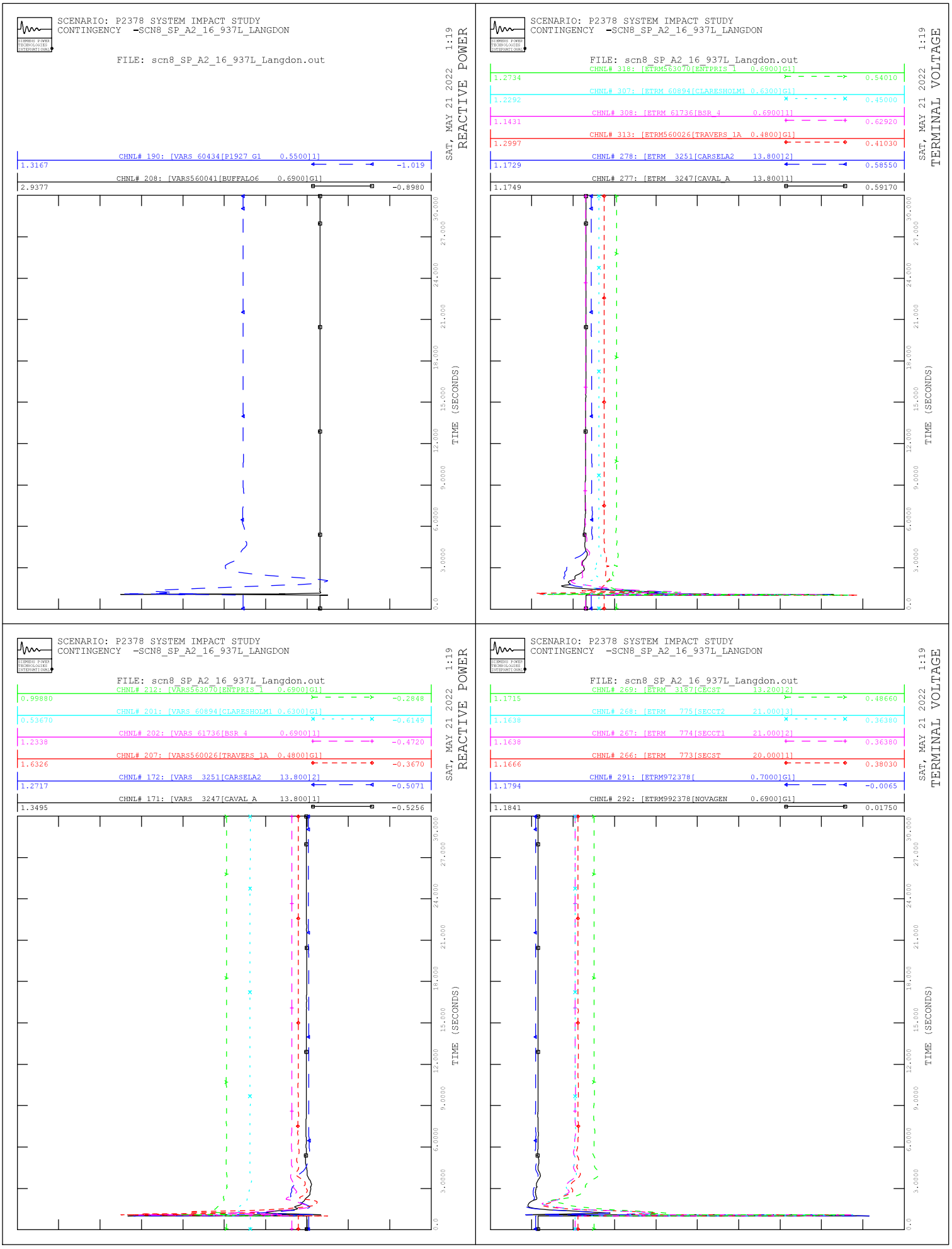
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON

FILE: scn8_SP_A2_16_937L_Langdon.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1] 1.7945 0.23020
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1] 3.3596 0.18840

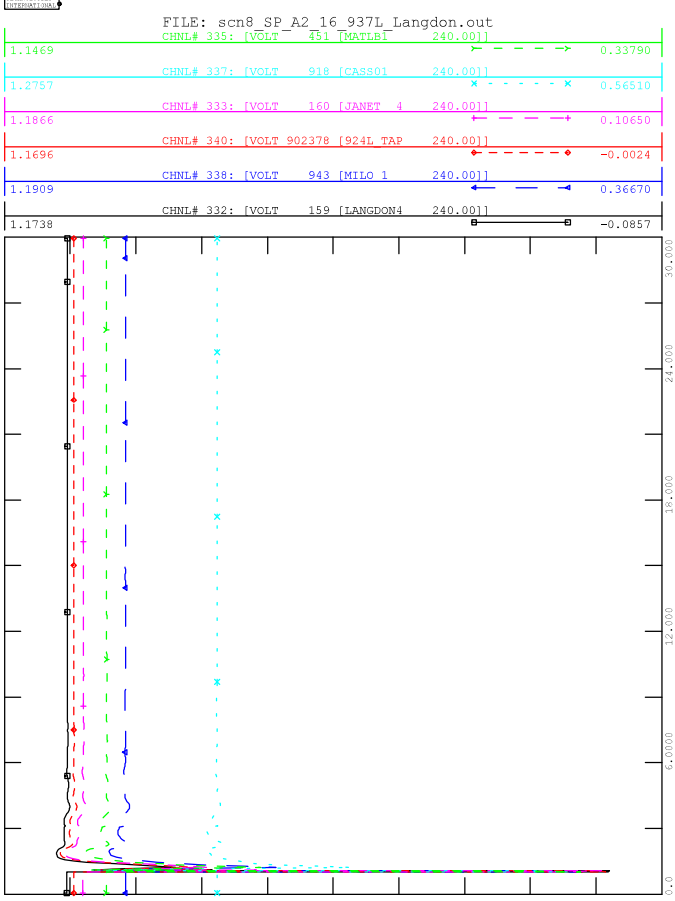
SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON
FILE: scn8_SP_A2_16_937L_Langdon.out
CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
1.3167
-1.019
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
2.9377
-0.8980
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON
FILE: scn8_SP_A2_16_937L_Langdon.out
CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
1.2734
0.54010
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
1.2292
0.45000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1431
0.62920
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
1.2997
0.41030
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1729
0.58550
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1749
0.59170
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON
FILE: scn8_SP_A2_16_937L_Langdon.out
CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.99880
-0.2848
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.53670
-0.6149
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.2338
-0.4720
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
1.6326
-0.3670
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2717
-0.5071
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3495
-0.5256
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON
FILE: scn8_SP_A2_16_937L_Langdon.out
CHNL# 269: [ETRM 3187[CECST 13.200]2]
1.1715
0.48660
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1638
0.36380
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1638
0.36380
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1666
0.38030
CHNL# 291: [ETRM972378[0.7000]G1]
1.1794
-0.0065
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1841
0.01750
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON

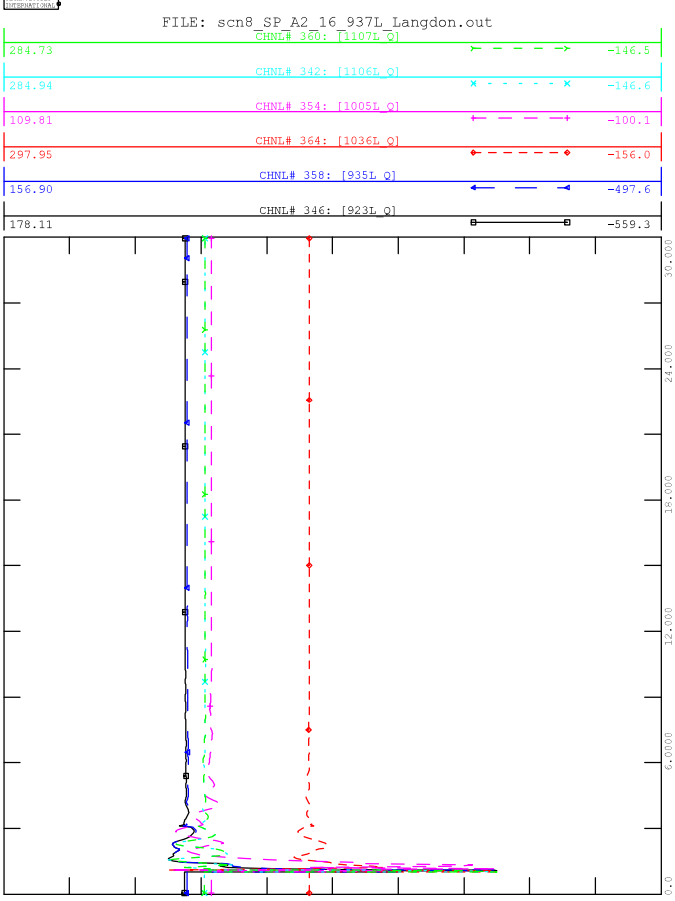
FILE: scn8_SP_A2_16_937L_Langdon.out



SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON

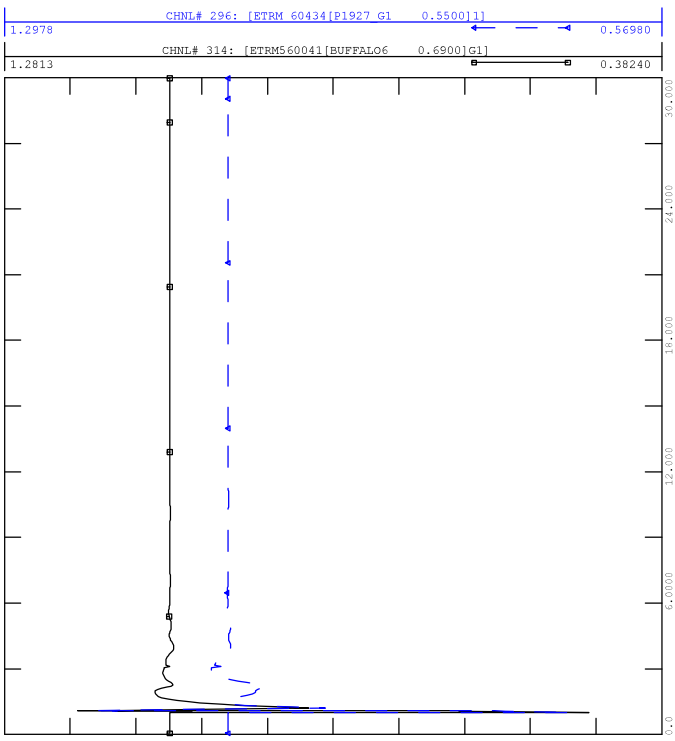
FILE: scn8_SP_A2_16_937L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON

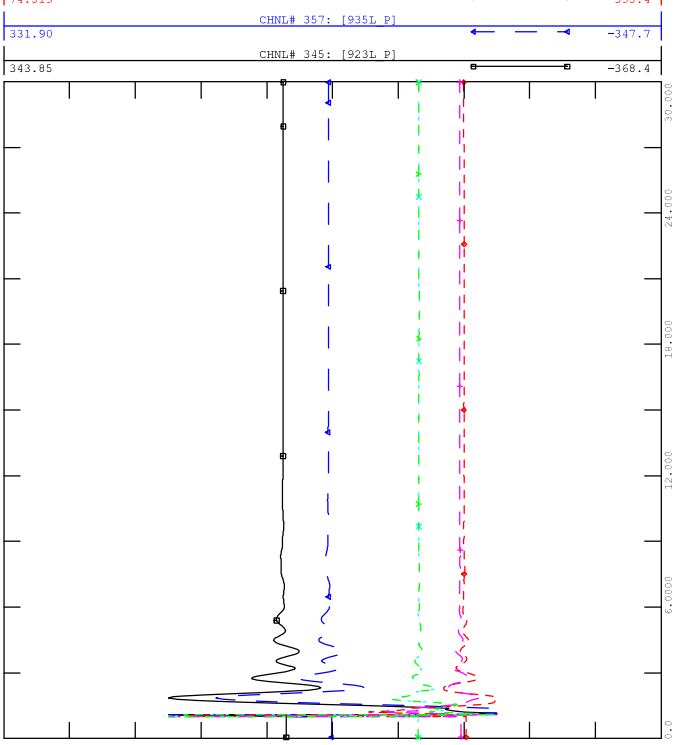
FILE: scn8_SP_A2_16_937L_Langdon.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON

FILE: scn8_SP_A2_16_937L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON

FILE: scn8_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:19

BRANCH Q

CHNL# 380: [927L_A2_1_Q] 394.03 -215.1
CHNL# 362: [924L_A2_1_Q] 389.83 -215.4
CHNL# 348: [1003L_Q] 599.01 -557.0
CHNL# 372: [985L_Q] 606.51 -563.6

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

SAT, MAY 21 2022 1:19

ACTIVE POWER

CHNL# 116: [POWR 3247[CAVAL A 13.800]1] 0.45420 0.05420
CHNL# 108: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3] 1.6220 1.2220
CHNL# 106: [POWR 774[SECCT1 21.000]2] 1.6220 1.2220
CHNL# 105: [POWR 773[SECST 20.000]1] 2.0960 1.6960
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1] 1.7000 1.3000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN8_SP_A2_16_937L_LANGDON

FILE: scn8_SP_A2_16_937L_Langdon.out

SAT, MAY 21 2022 1:19

BRANCH P

CHNL# 379: [927L_A2_1_P] 344.55 -1064.
CHNL# 361: [924L_A2_1_P] 339.91 -1050.
CHNL# 347: [1003L_P] 234.94 -1188.
CHNL# 371: [985L_P] 237.40 -1201.

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

SAT, MAY 21 2022 1:19

ROTOR ANGLE

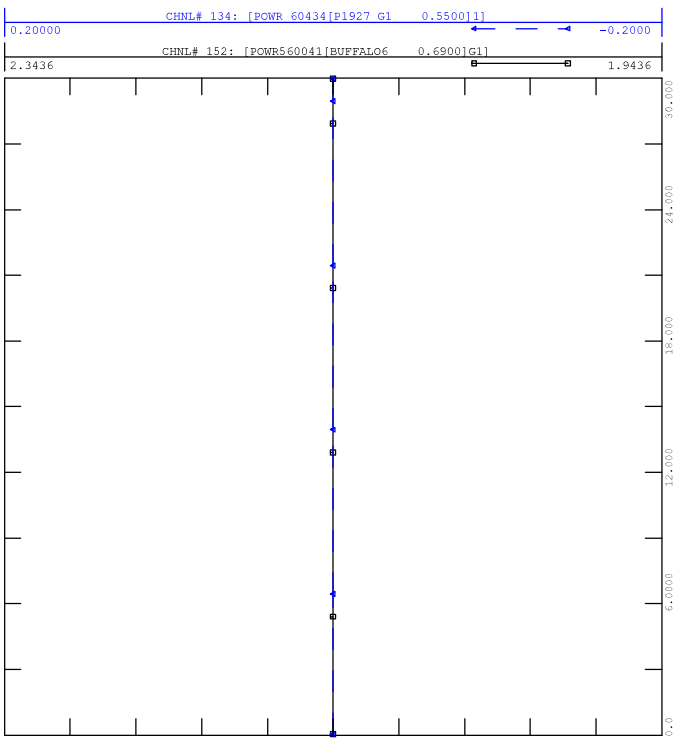
CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2] 107.32 7.3183
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 82.707 -17.29
CHNL# 4: [ANGL 3187[CECST 13.200]2] 50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 92.721 -7.279
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 92.721 -7.279
CHNL# 1: [ANGL 773[SECST 20.000]1] 93.709 -6.291

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

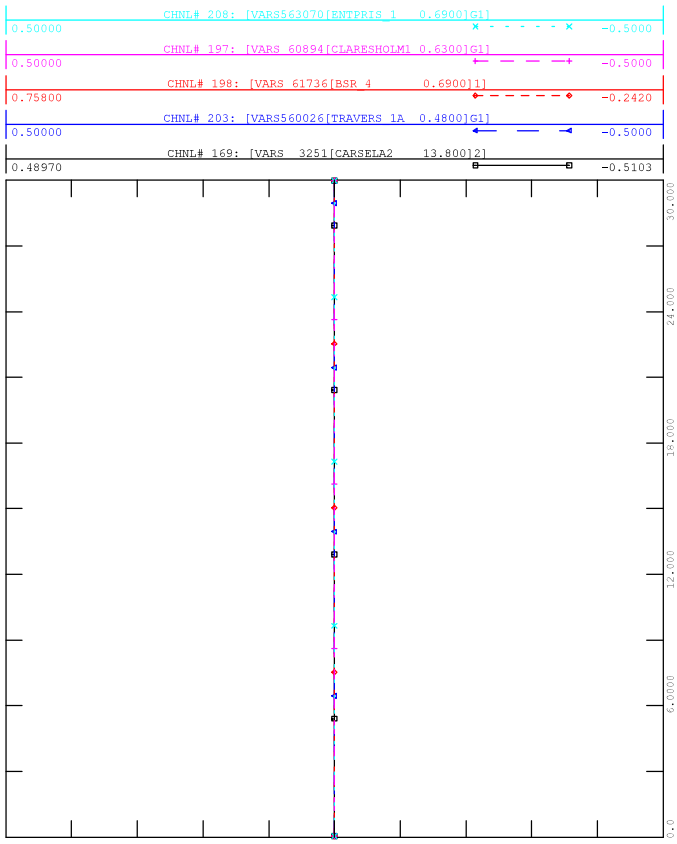
SAT, MAY 21 2022 1:19 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

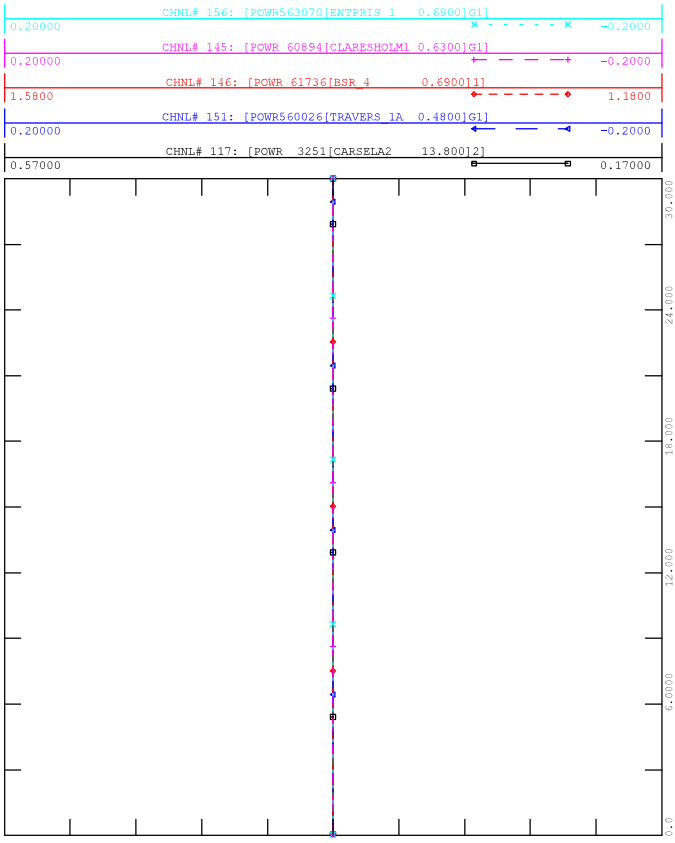
SAT, MAY 21 2022 1:19 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

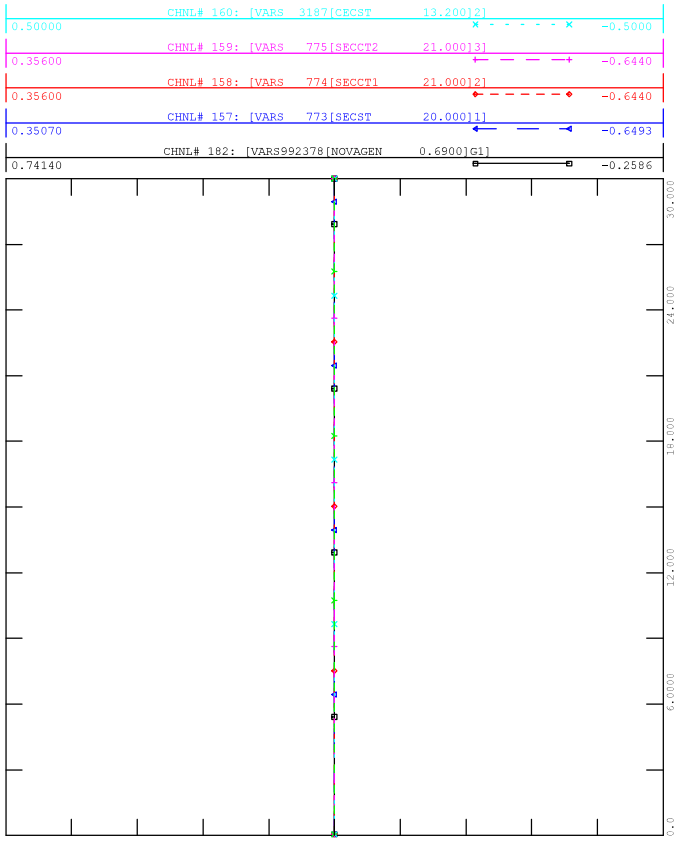
SAT, MAY 21 2022 1:19 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

SAT, MAY 21 2022 1:19 REACTIVE POWER



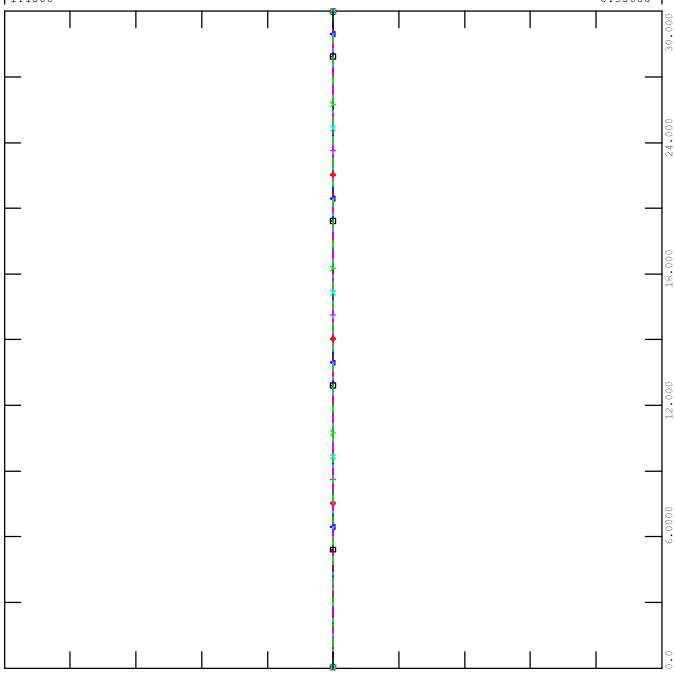
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1400 0.94000
CHNL# 264: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1000 0.90000
CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1000 0.90000
CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1000 0.90000
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 0.95000



TIME (SECONDS)

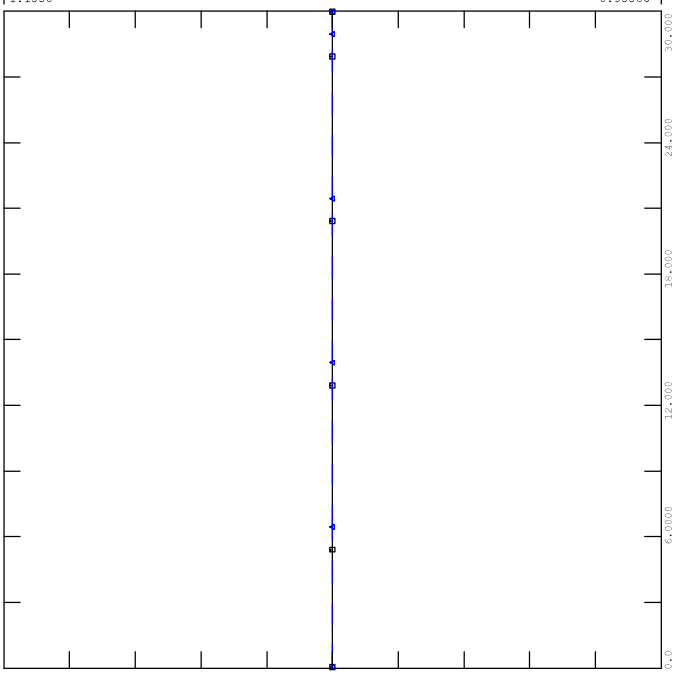
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.1550 0.95500



TIME (SECONDS)

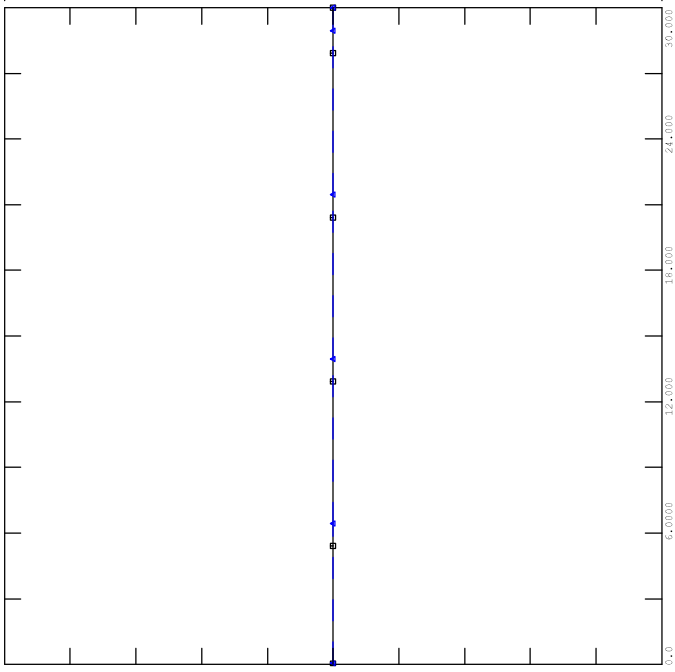
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
1.0419 0.04190



TIME (SECONDS)

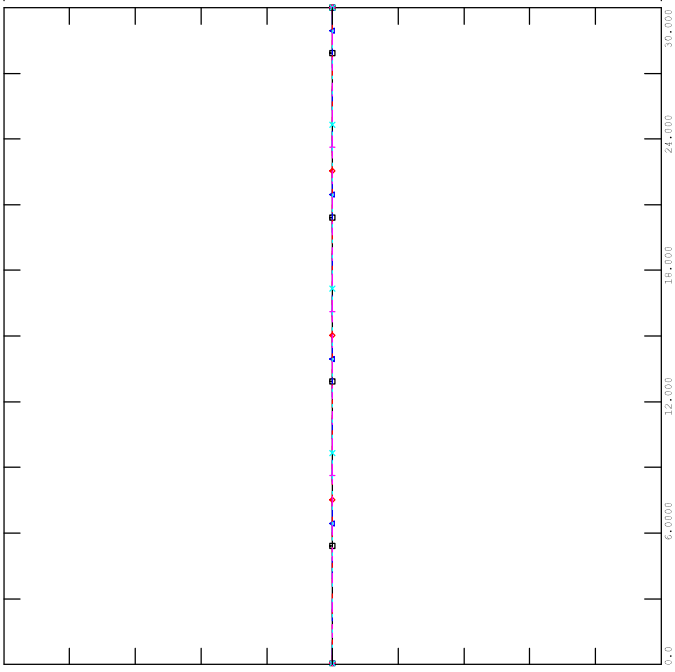
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

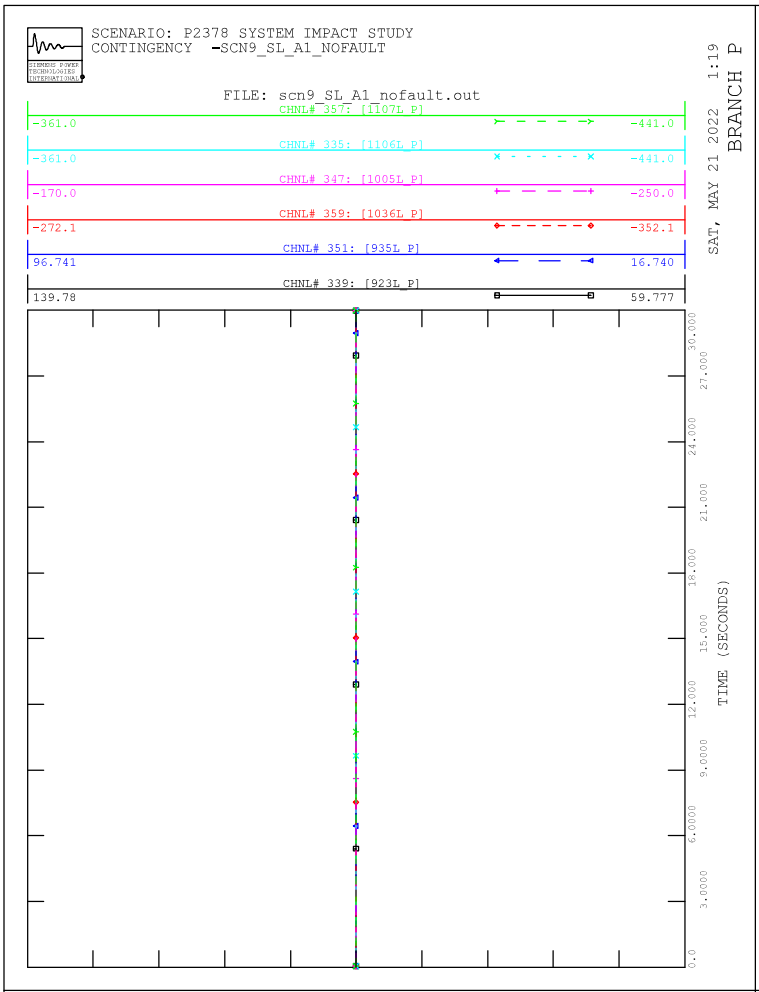
SAT, MAY 21 2022 1:19

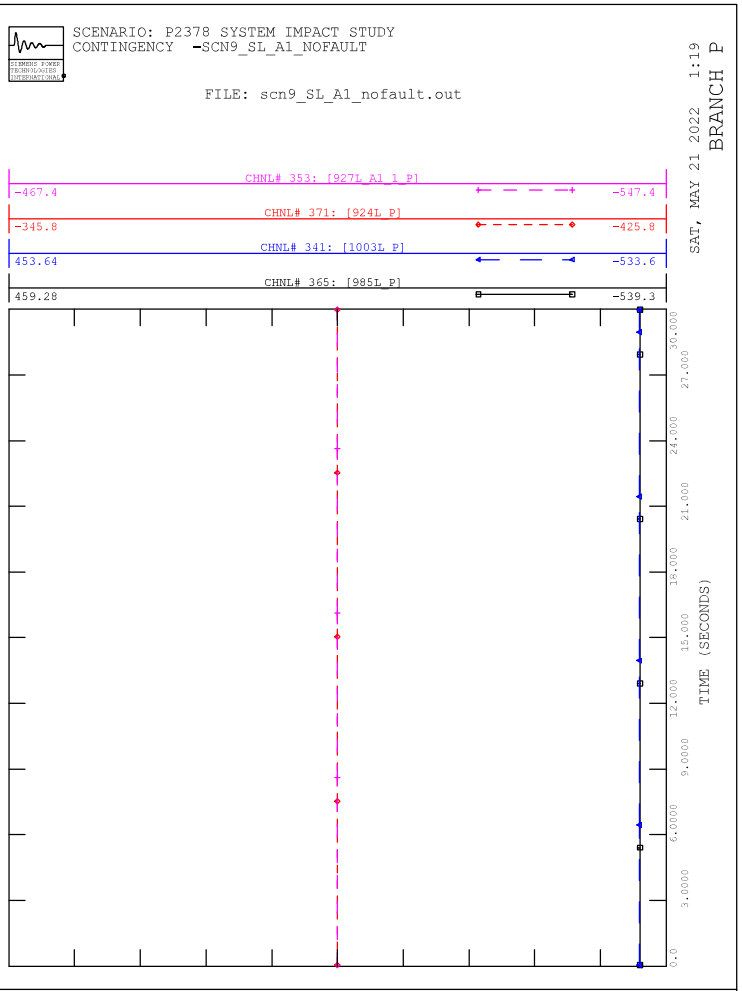
TERMINAL VOLTAGE

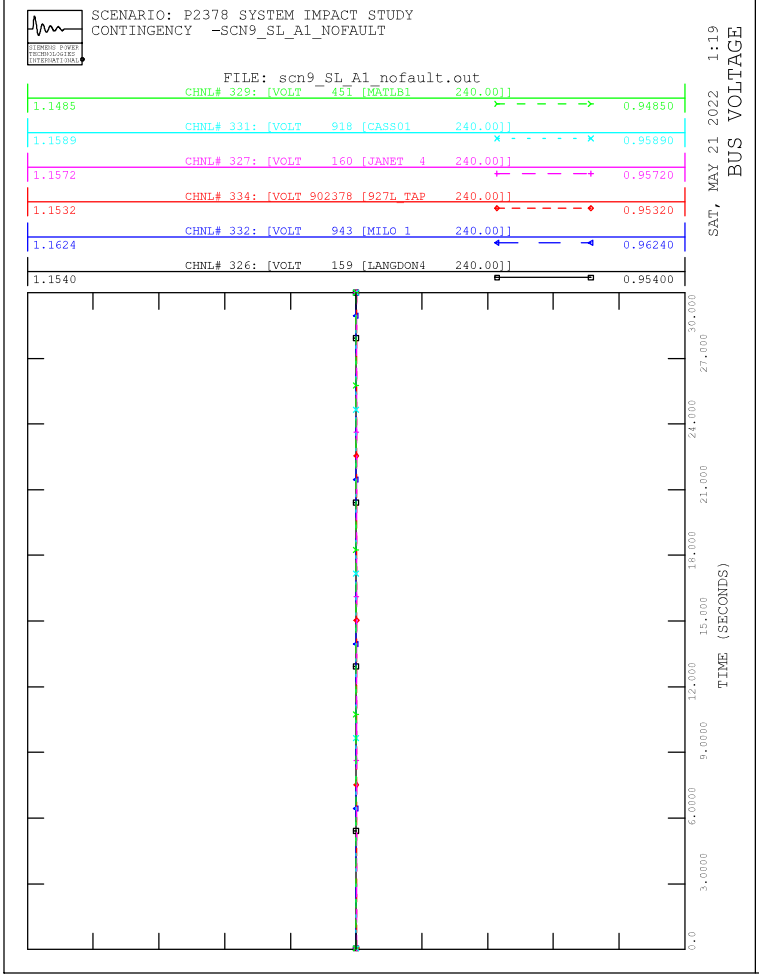
CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1500 0.95000
CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1300 0.93000

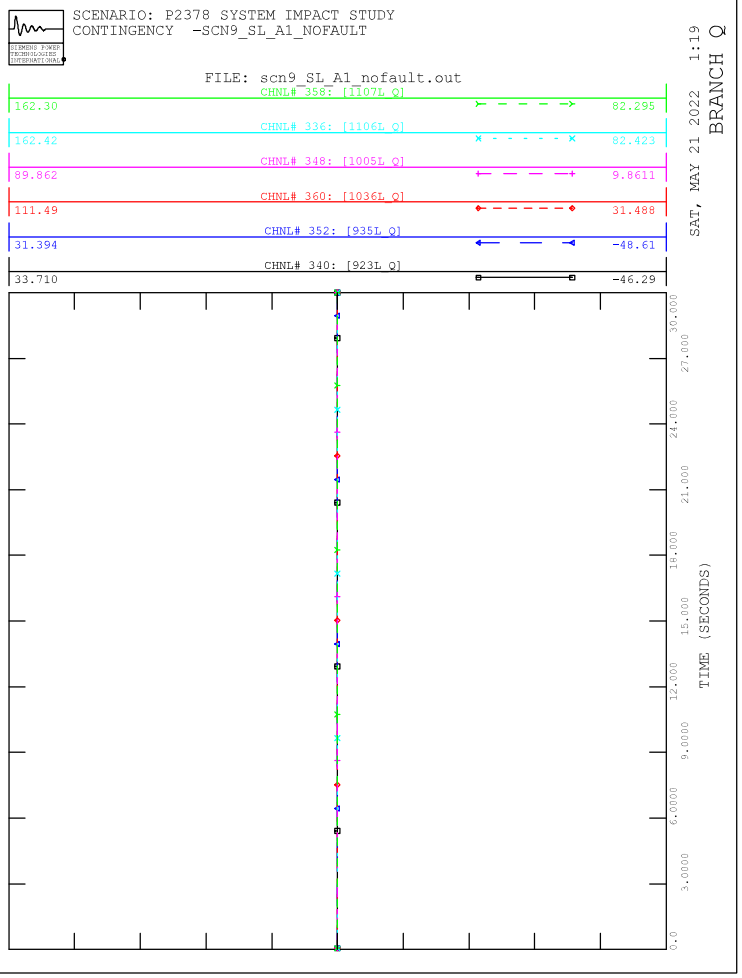


TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT
FILE: scn9_SL_A1_nofault.out
CHNL# 357: [1107L P]
-361.0
-441.0
CHNL# 335: [1106L P]
-361.0
-441.0
CHNL# 347: [1005L P]
-170.0
-250.0
CHNL# 359: [1036L P]
-272.1
-352.1
CHNL# 351: [935L P]
96.741
16.740
CHNL# 339: [923L P]
139.78
59.777
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:19
BRANCH P


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT
FILE: scn9_SL_A1_nofault.out
CHNL# 353: [927L_A1_1 P]
-467.4
-547.4
CHNL# 371: [924L P]
-345.8
-425.8
CHNL# 341: [1003L P]
453.64
-533.6
CHNL# 365: [985L P]
459.28
-539.3
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:19
BRANCH P

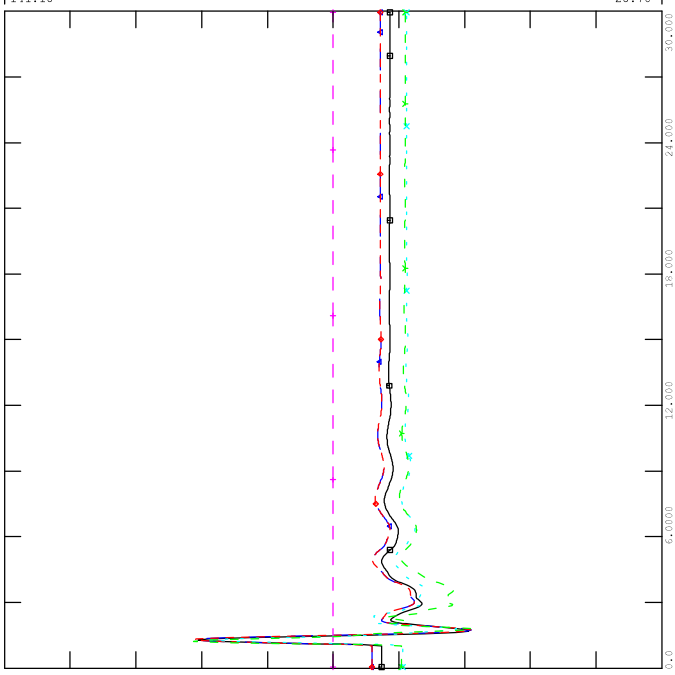

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT
FILE: scn9_SL_A1_nofault.out
CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1485
0.94850
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.1589
0.95890
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1572
0.95720
CHNL# 334: [VOLT 902378 [927L_TAP 240.00]]
1.1532
0.95320
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.1624
0.96240
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1540
0.95400
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:19
BUS VOLTAGE


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT
FILE: scn9_SL_A1_nofault.out
CHNL# 358: [1107L Q]
162.30
82.295
CHNL# 336: [1106L Q]
162.42
82.423
CHNL# 348: [1005L Q]
89.862
9.8611
CHNL# 360: [1036L Q]
111.49
31.488
CHNL# 352: [935L Q]
31.394
-48.61
CHNL# 340: [923L Q]
33.710
-46.29
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
162.50 -11.70
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
129.79 -30.37
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
139.23 -33.44
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
139.23 -33.44
CHNL# 1: [ANGL 773[SECST 20.000]1]
141.18 -28.70



TIME (SECONDS)

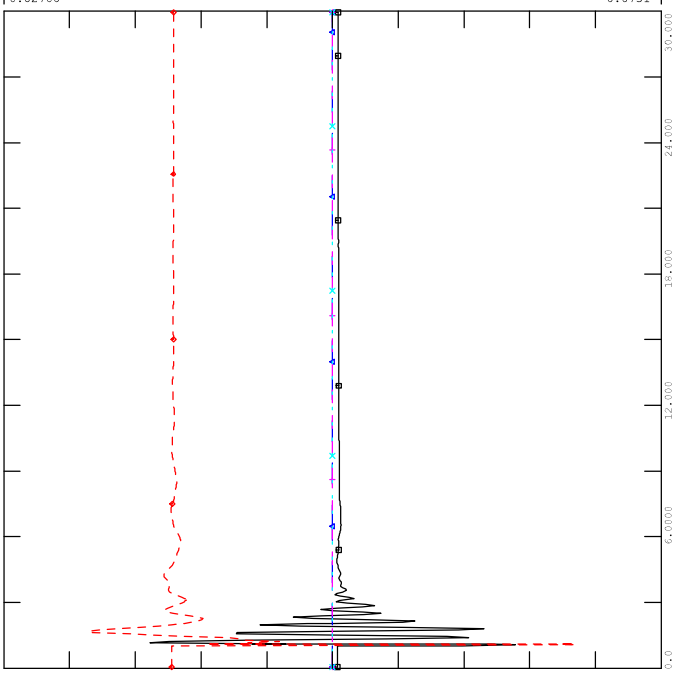
SAT, MAY 21 2022 1:19

ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.20000 -0.2000
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.7757 0.22730
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.82700 -0.0731



TIME (SECONDS)

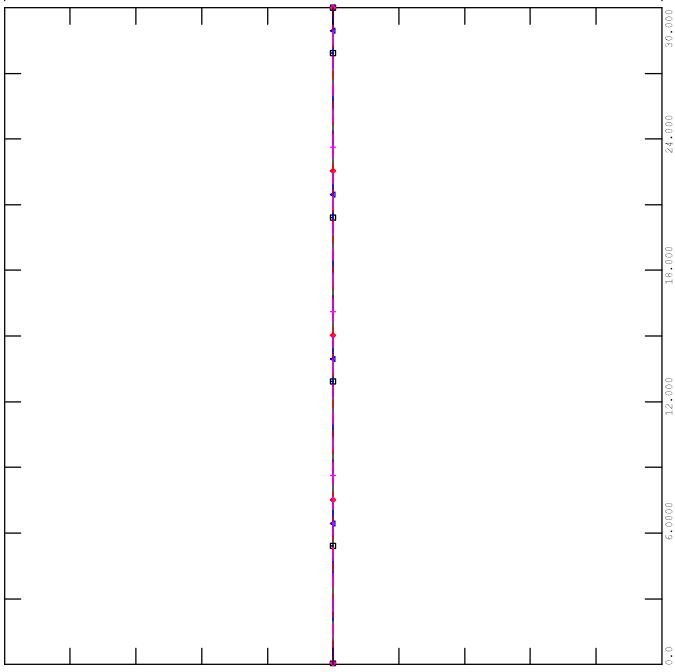
SAT, MAY 21 2022 1:19

ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_NOFAULT

FILE: scn9_SL_A1_nofault.out

CHNL# 354: [927L A1 1 Q]
147.13 67.126
CHNL# 372: [924L Q]
136.69 56.689
CHNL# 342: [1003L Q]
199.84 119.84
CHNL# 366: [985L Q]
202.05 122.05



TIME (SECONDS)

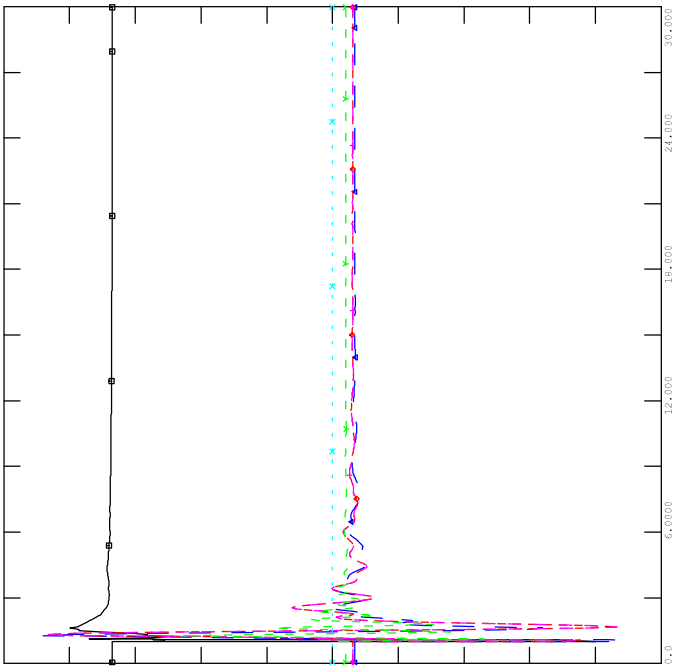
SAT, MAY 21 2022 1:19

BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.64020 -0.1016
CHNL# 108: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3]
3.0148 0.01380
CHNL# 106: [POWR 774[SECCT1 21.000]2]
3.0148 0.01380
CHNL# 105: [POWR 773[SECST 20.000]1]
3.7067 0.31570
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.8285 -0.1638



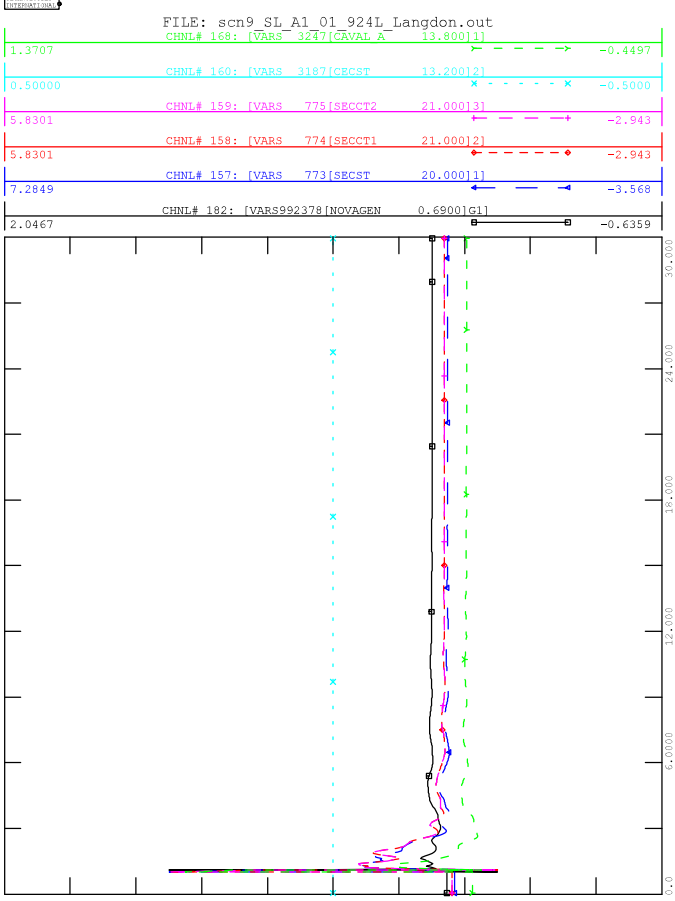
TIME (SECONDS)

SAT, MAY 21 2022 1:19

ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

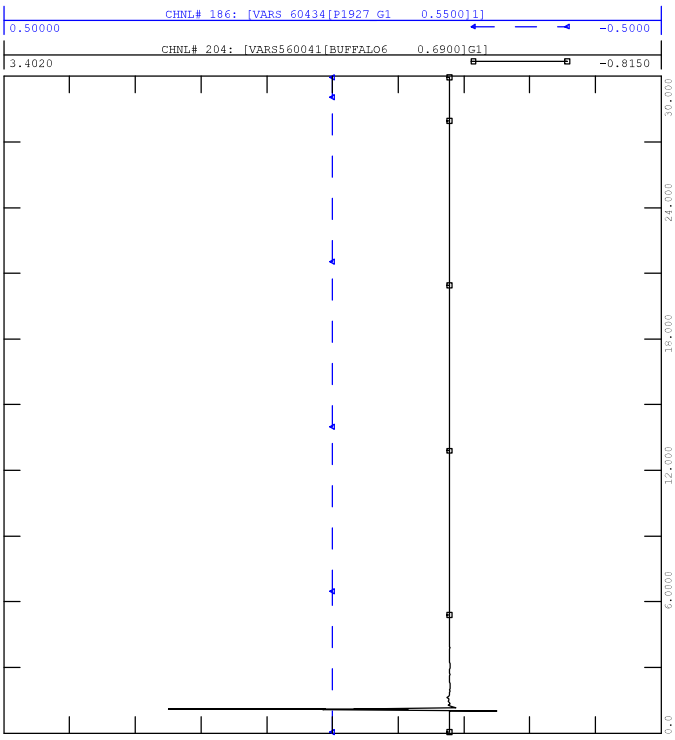
FILE: scn9_SL_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

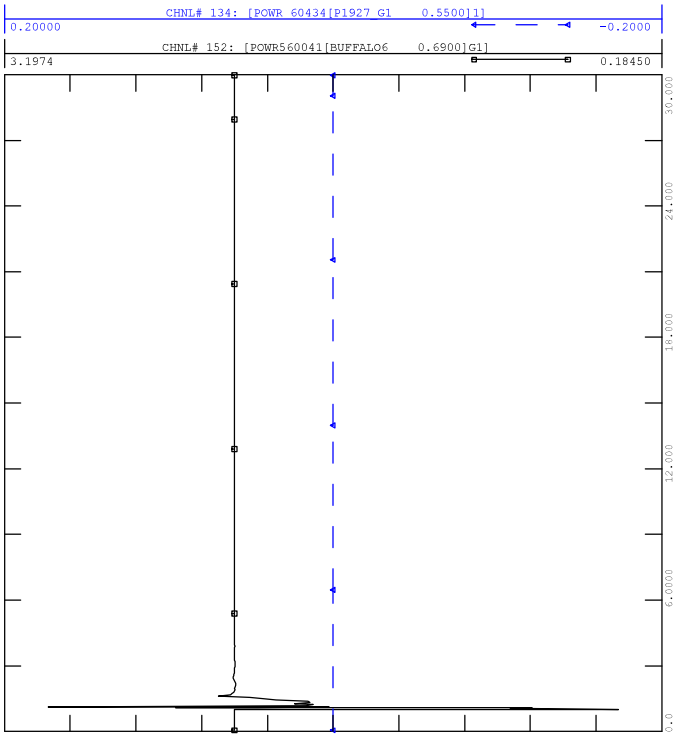
FILE: scn9_SL_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

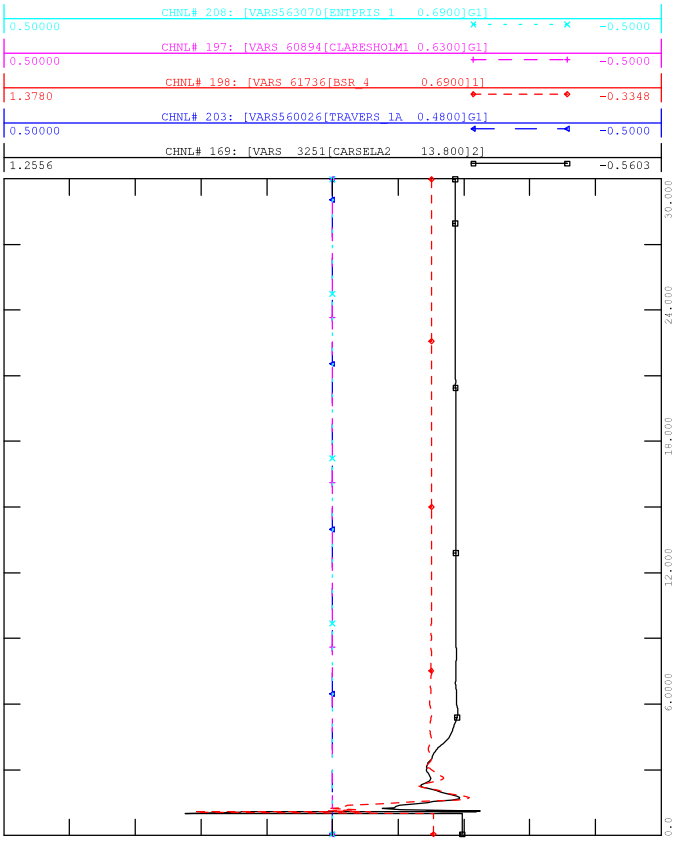
FILE: scn9_SL_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1]
0.10000 -0.1000
CHNL# 301: [ETRM_60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 302: [ETRM_61736[BSR_4 0.6900]1]
1.1708 0.59470
CHNL# 307: [ETRM560026[TRAVERS_1A 0.4800]G1]
0.10000 -0.1000
CHNL# 273: [ETRM_3251[CARSELA2 13.800]2]
1.1772 0.57570

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1959 0.30460
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3250 0.52170
CHNL# 327: [VOLT 160 [JANET_4 240.00]]
1.1797 0.11430
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1660 0.01630
CHNL# 332: [VOLT 943 [MILO_1 240.00]]
1.2657 0.34400
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1641 -0.0589

SAT, MAY 21 2022 1:19
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 272: [ETRM_3247[CAVAL_A 13.800]1]
1.1728 0.59250
CHNL# 264: [ETRM_3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 263: [ETRM_775[SECCT2 21.000]3]
1.1704 0.37420
CHNL# 262: [ETRM_774[SECCT1 21.000]2]
1.1704 0.37420
CHNL# 261: [ETRM_773[SECST 20.000]1]
1.1732 0.38990
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.2559 0.05100

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 290: [ETRM_60434[P1927_G1 0.5500]1]
0.10000 -0.1000
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.2866 0.36500

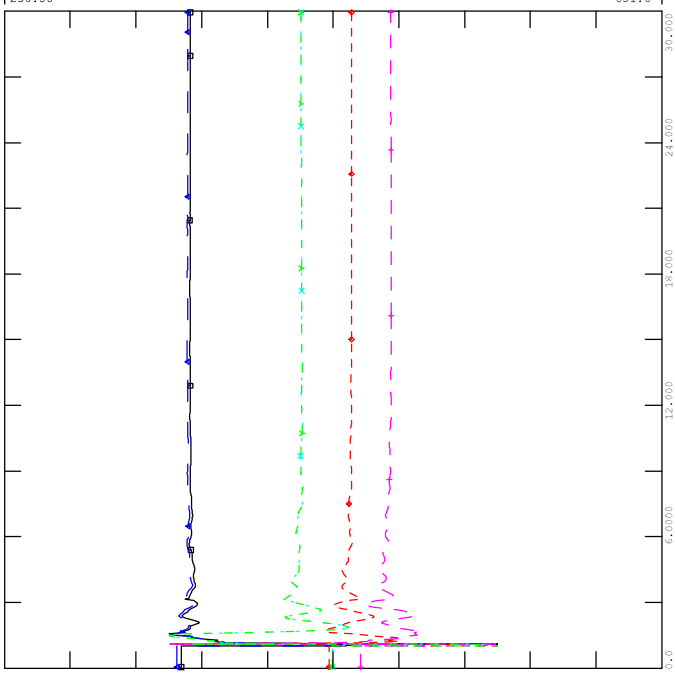
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 358: [1107L Q] 420.99 -177.9
CHNL# 336: [1106L Q] 421.26 -177.9
CHNL# 348: [1005L Q] 203.62 -80.38
CHNL# 360: [1036L Q] 294.45 -156.7
CHNL# 352: [935L Q] 195.46 -581.9
CHNL# 340: [923L Q] 230.58 -651.0

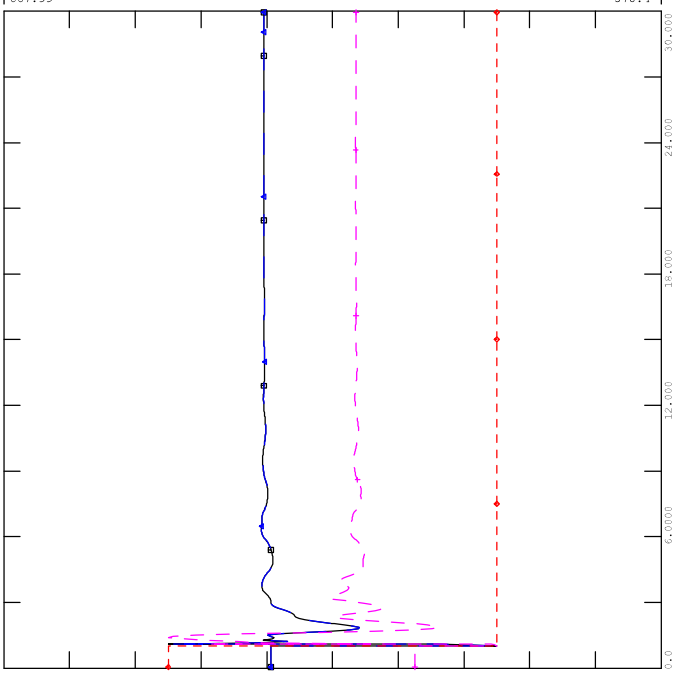


SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 354: [927L A1 1 Q] 730.16 -265.6
CHNL# 372: [924L Q] 145.04 -48.35
CHNL# 342: [1003L Q] 659.78 -571.7
CHNL# 366: [985L Q] 667.99 -578.4

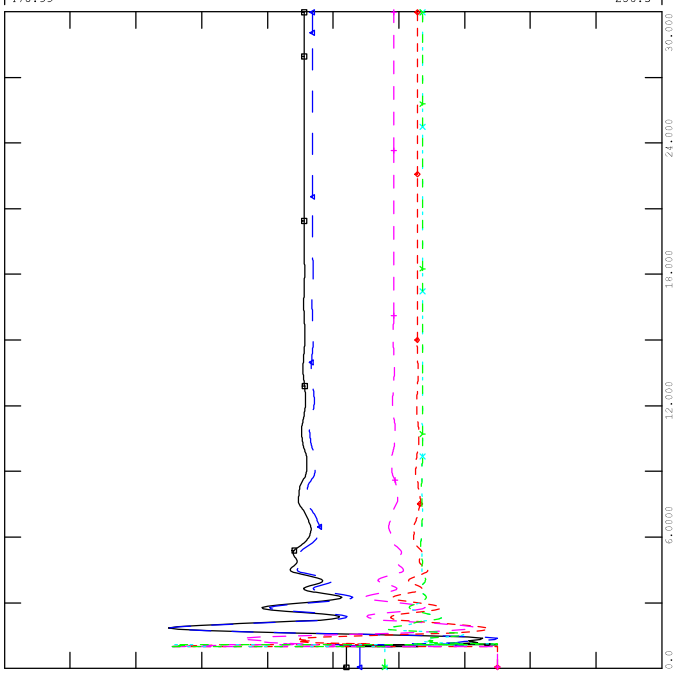


SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 357: [1107L P] 152.69 -804.1
CHNL# 335: [1106L P] 152.69 -804.1
CHNL# 347: [1005L P] 82.298 -307.4
CHNL# 359: [1036L P] 65.137 -437.9
CHNL# 351: [935L P] 406.42 -240.5
CHNL# 339: [923L P] 478.99 -250.3

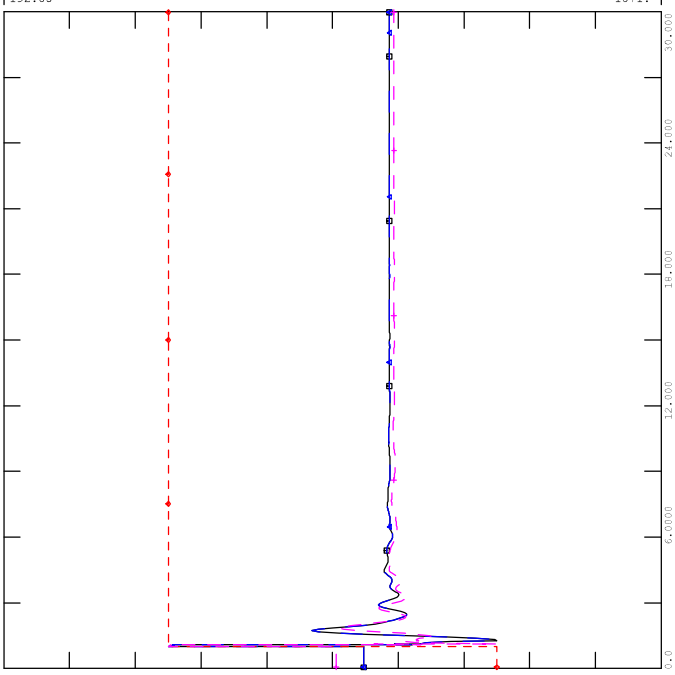


SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_01_924L_LANGDON

FILE: scn9_SL_A1_01_924L_Langdon.out

CHNL# 353: [927L A1 1 P] 452.73 -1448.
CHNL# 371: [924L P] 192.92 -578.7
CHNL# 341: [1003L P] 190.90 -1059.
CHNL# 365: [985L P] 192.85 -1071.



SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

FILE: scn9_SL_A1_02_924L_Milo.out

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.64220 -0.1867
CHNL# 108: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3]
2.1316 0.93910
CHNL# 106: [POWR 774[SECCT1 21.000]2]
2.1316 0.93910
CHNL# 105: [POWR 773[SECST 20.000]1]
2.6577 1.3884
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.9395 0.27700

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

FILE: scn9_SL_A1_02_924L_Milo.out

CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
2.3560 -0.2000

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

FILE: scn9_SL_A1_02_924L_Milo.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
131.39 -1.139
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
105.82 -21.25
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
106.60 -19.00
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
106.60 -19.00
CHNL# 1: [ANGL 773[SECST 20.000]1]
107.35 -17.25

SAT, MAY 21 2022 1:19
ROTOR ANGLE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

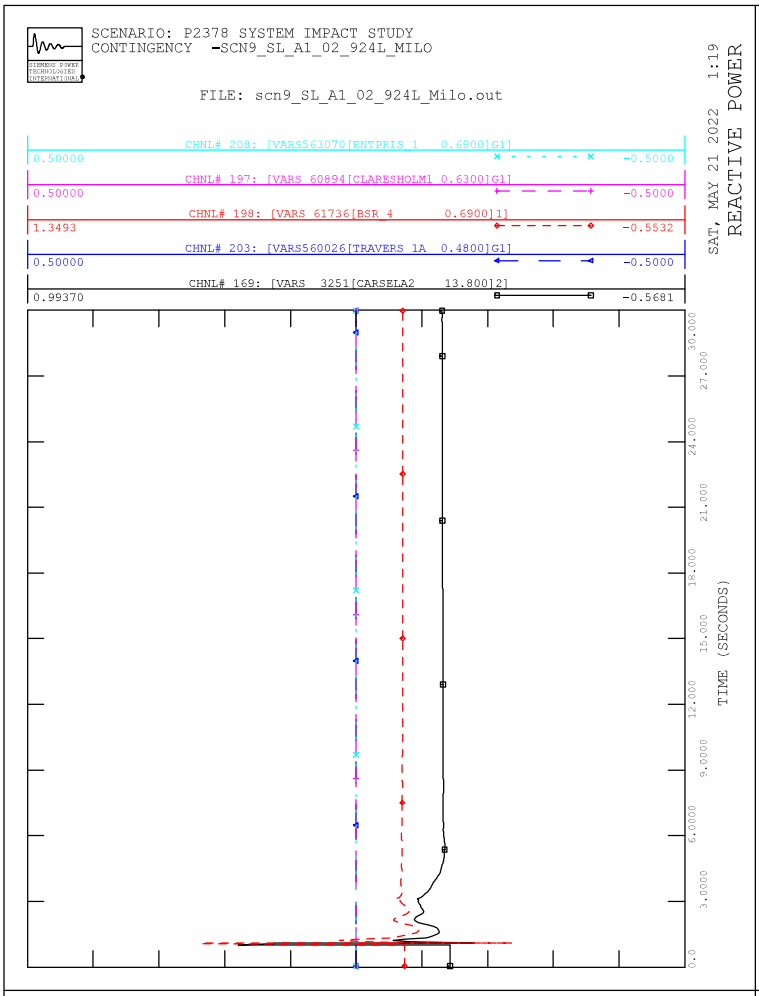
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

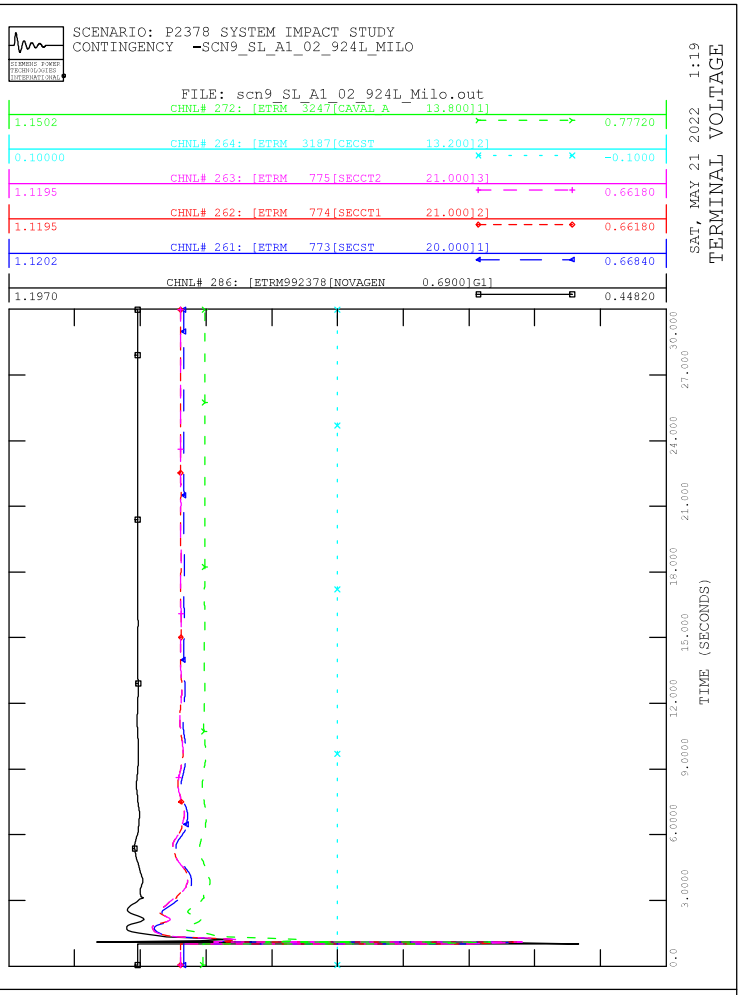
FILE: scn9_SL_A1_02_924L_Milo.out

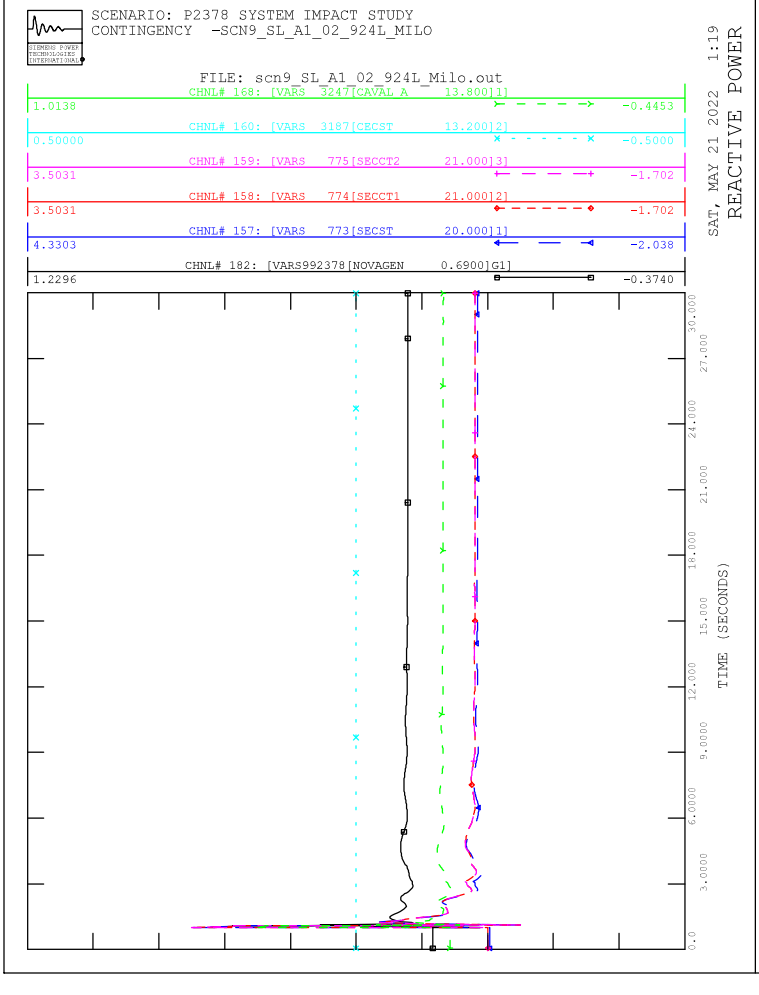
CHNL# 156: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
2.0026 0.07760
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.65040 0.04700

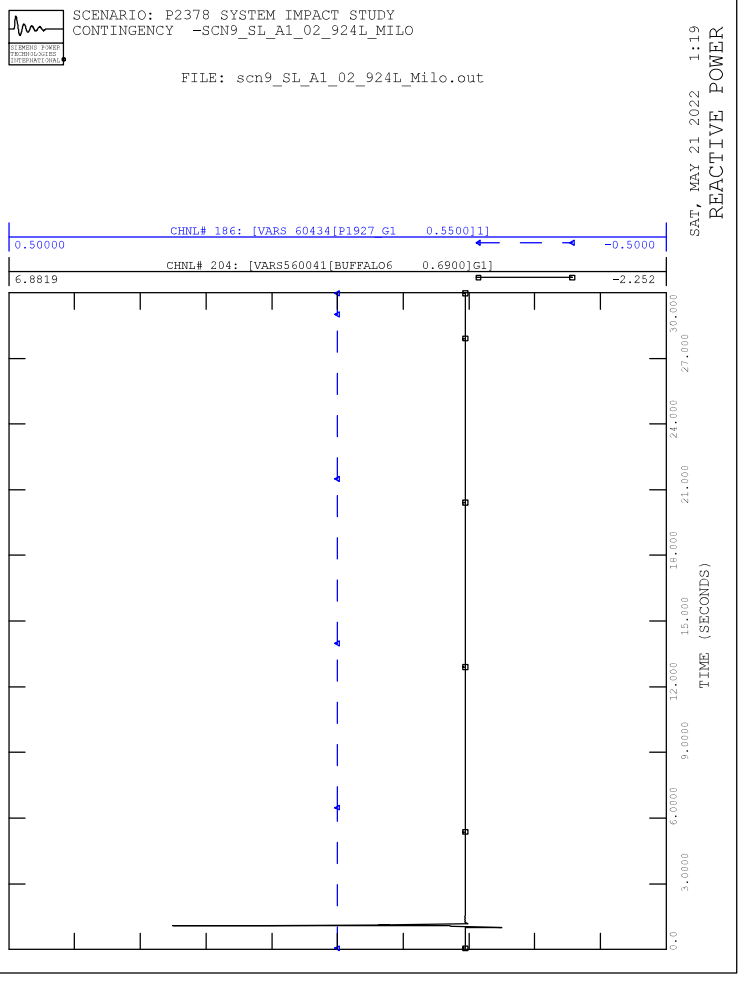
SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO
FILE: scn9_SL_A1_02_924L_Milo.out
CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1]
0.50000 -0.5000
CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 198: [VARS 61736[BSR_4 0.6900]1]
1.3493 -0.5532
CHNL# 203: [VARS560026[TRAVERS_1A 0.4800]G1]
0.50000 -0.5000
CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
0.99370 -0.5681
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO
FILE: scn9_SL_A1_02_924L_Milo.out
CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1502 0.77720
CHNL# 264: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1195 0.66180
CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1195 0.66180
CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1202 0.66840
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.1970 0.44820
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO
FILE: scn9_SL_A1_02_924L_Milo.out
CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
1.0138 -0.4453
CHNL# 160: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 159: [VARS 775[SECCT2 21.000]3]
3.5031 -1.702
CHNL# 158: [VARS 774[SECCT1 21.000]2]
3.5031 -1.702
CHNL# 157: [VARS 773[SECST 20.000]1]
4.3303 -2.038
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
1.2296 -0.3740
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO
FILE: scn9_SL_A1_02_924L_Milo.out
CHNL# 186: [VARS 60434[P1927_G1 0.5500]1]
0.50000 -0.5000
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
6.8819 -2.252
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

FILE: scn9_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.5515 -0.0379

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

FILE: scn9_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:19 BRANCH P

CHNL# 357: [1107L P]
69.267 -762.6
CHNL# 335: [1106L P]
69.343 -762.7
CHNL# 347: [1005L P]
102.16 -314.1
CHNL# 359: [1036L P]
169.66 -536.2
CHNL# 351: [935L P]
344.09 -268.8
CHNL# 339: [923L P]
426.06 -324.1

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

FILE: scn9_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1889 0.39070
CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1597 0.72490

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

FILE: scn9_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:19 BUS VOLTAGE

CHNL# 329: [VOLT 457 [MATLB1 240.00]]
1.2905 0.20020
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.4292 0.23430
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1639 0.58500
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1610 0.43110
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.3844 -0.0740
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1591 0.53490

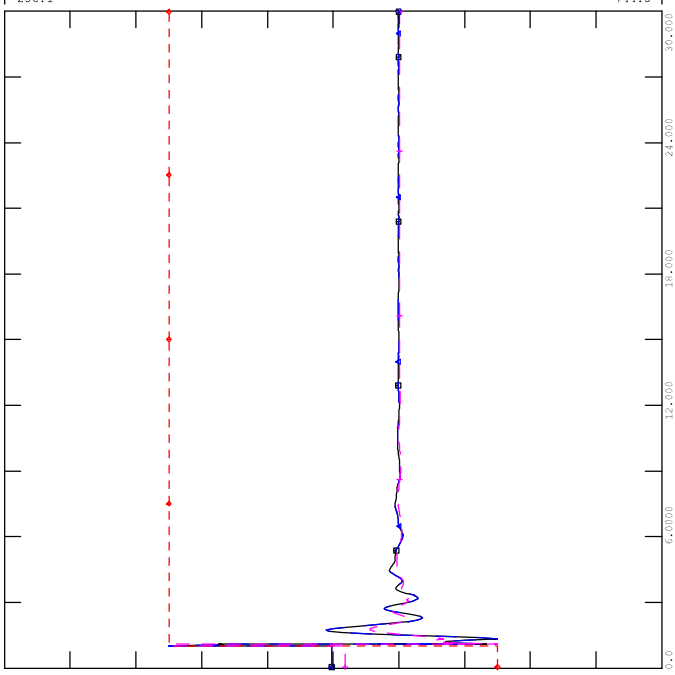
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

FILE: scn9_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:19 BRANCH P

CHNL# 353: [927L_A1_1_P] 546.23 -1487.
CHNL# 371: [924L_P] 192.92 -578.7
CHNL# 341: [1003L_P] -253.0 -736.1
CHNL# 365: [985L_P] -256.1 -744.5

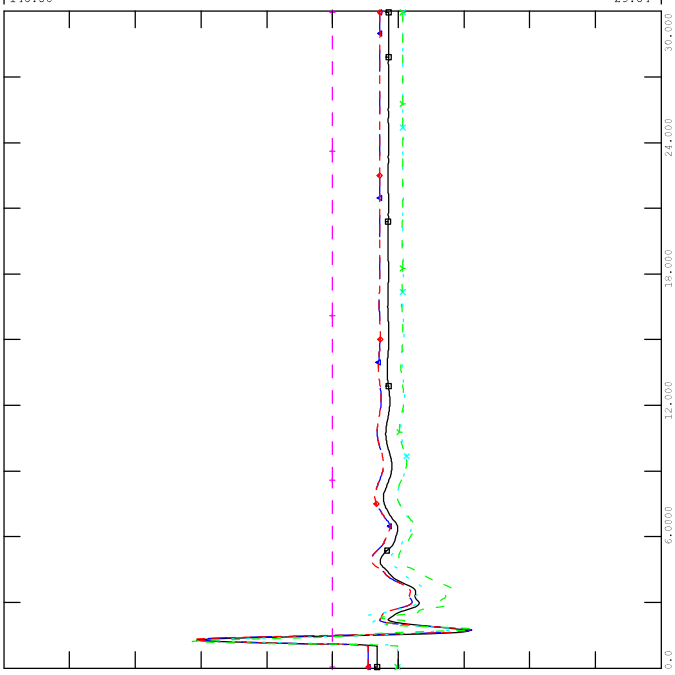


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

FILE: scn9_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:19 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2] 161.94 -12.84
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1] 128.08 -31.25
CHNL# 4: [ANGL 3187[CECST 13.200]2] 50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 138.95 -34.53
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 138.95 -34.53
CHNL# 1: [ANGL 773[SECST 20.000]1] 140.50 -29.84

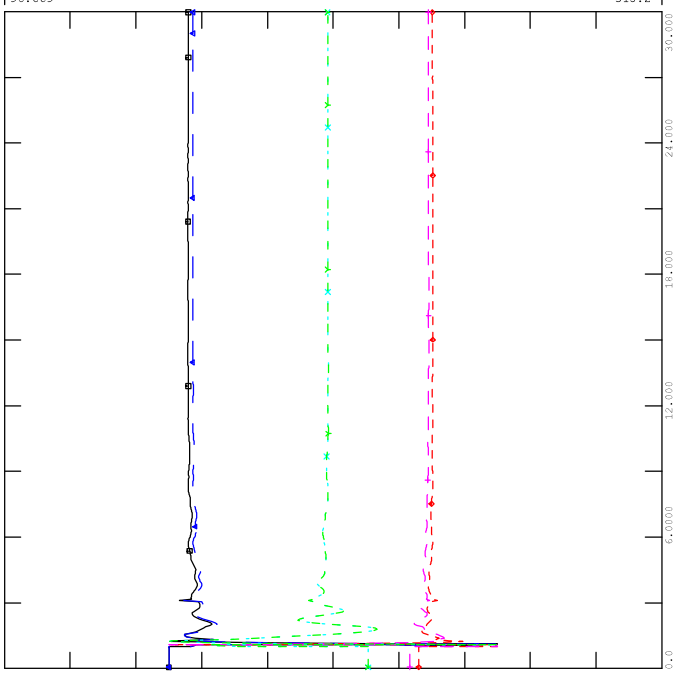


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

FILE: scn9_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:19 BRANCH Q

CHNL# 358: [1107L_Q] 376.42 -82.84
CHNL# 336: [1106L_Q] 376.61 -82.71
CHNL# 348: [1005L_Q] 335.65 -127.7
CHNL# 360: [1036L_Q] 519.09 -191.4
CHNL# 352: [935L_Q] 76.653 -264.4
CHNL# 340: [923L_Q] 96.669 -315.2

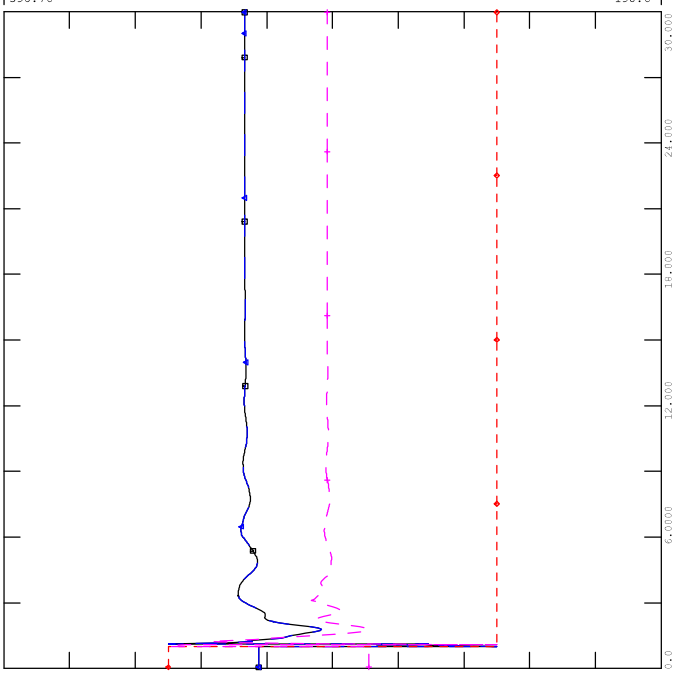


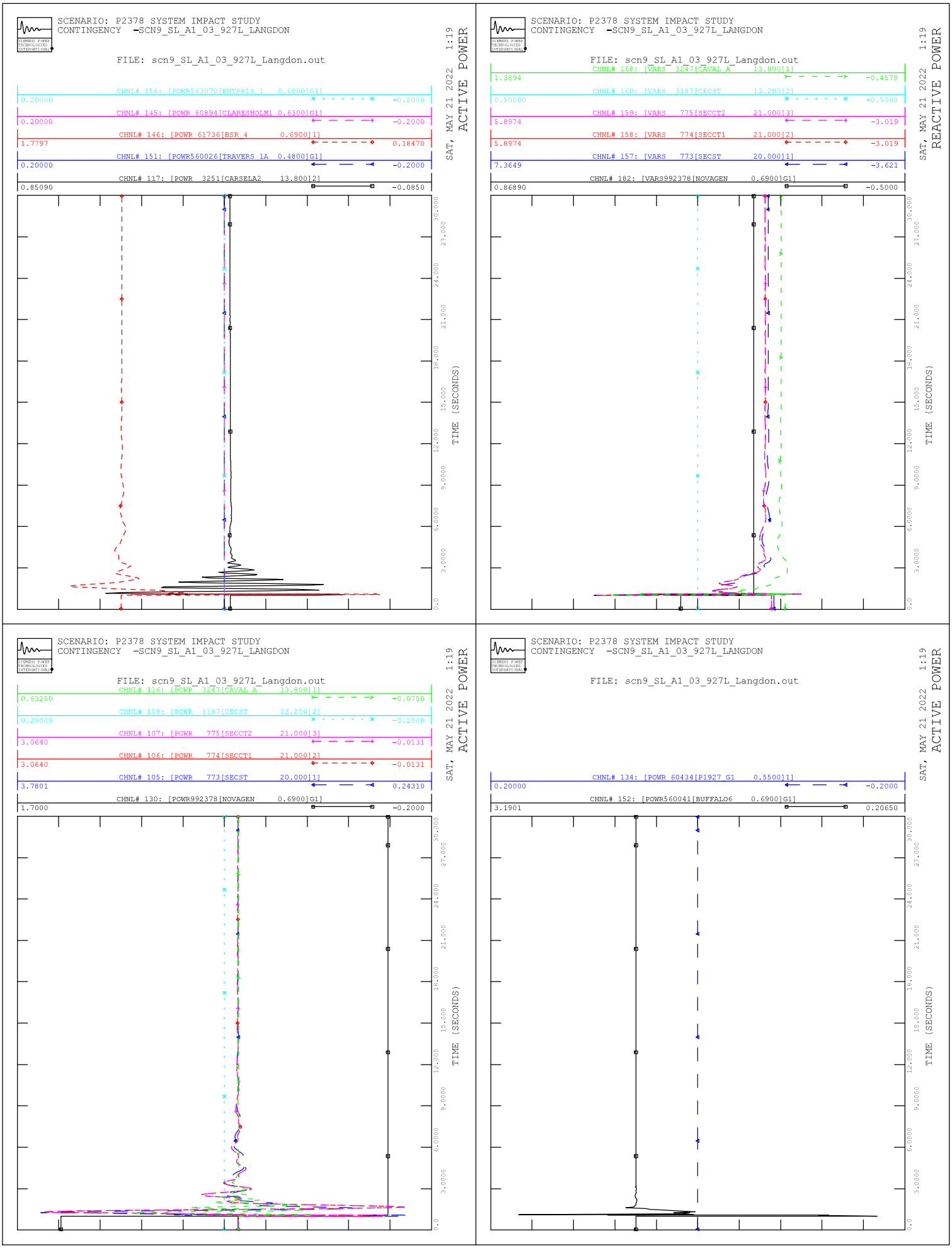
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_02_924L_MILO

FILE: scn9_SL_A1_02_924L_Milo.out

SAT, MAY 21 2022 1:19 BRANCH Q

CHNL# 354: [927L_A1_1_Q] 891.41 -520.7
CHNL# 372: [924L_Q] 145.04 -48.35
CHNL# 342: [1003L_Q] 385.78 -196.5
CHNL# 366: [985L_Q] 390.76 -198.6




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON
FILE: scn9_SL_A1_03_927L_Langdon.out
SAT, MAY 21 2022 1:19
ACTIVE POWER
CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.20000
-0.2000
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.7797
0.18470
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.85090
-0.0850
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON
FILE: scn9_SL_A1_03_927L_Langdon.out
SAT, MAY 21 2022 1:19
REACTIVE POWER
CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
1.3894
-0.4579
CHNL# 160: [VARS 3187[CECST 13.200]2]
0.50000
-0.5000
CHNL# 159: [VARS 775[SECCT2 21.000]3]
5.8974
-3.019
CHNL# 158: [VARS 774[SECCT1 21.000]2]
5.8974
-3.019
CHNL# 157: [VARS 773[SECST 20.000]1]
7.3649
-3.621
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
0.86890
-0.5000
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON
FILE: scn9_SL_A1_03_927L_Langdon.out
SAT, MAY 21 2022 1:19
ACTIVE POWER
CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.63250
-0.0750
CHNL# 108: [POWR 3187[CECST 13.200]2]
0.20000
-0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3]
3.0640
-0.0131
CHNL# 106: [POWR 774[SECCT1 21.000]2]
3.0640
-0.0131
CHNL# 105: [POWR 773[SECST 20.000]1]
3.7801
0.24310
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.7000
-0.2000
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON
FILE: scn9_SL_A1_03_927L_Langdon.out
SAT, MAY 21 2022 1:19
ACTIVE POWER
CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
0.20000
-0.2000
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
3.1901
0.20650
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

FILE: scn9_SL_A1_03_927L_Langdon.out

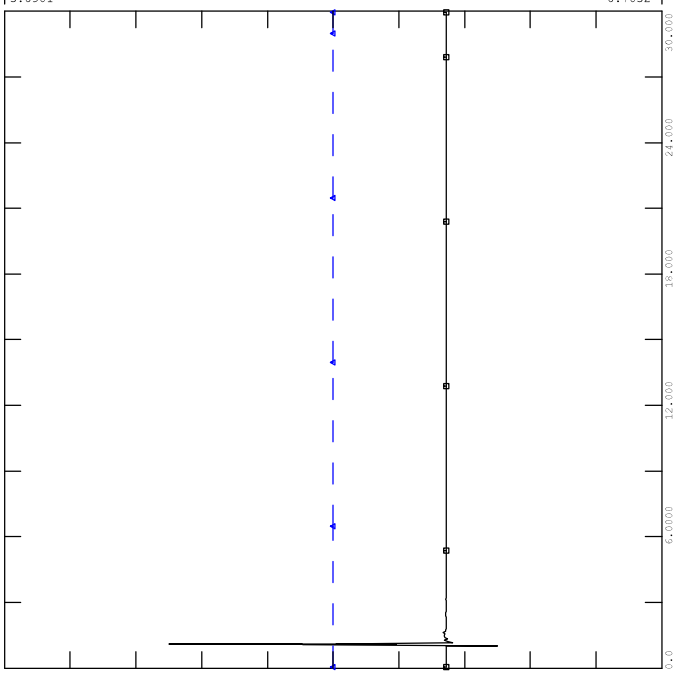
SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000

CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
3.0901 -0.7032

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

FILE: scn9_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000

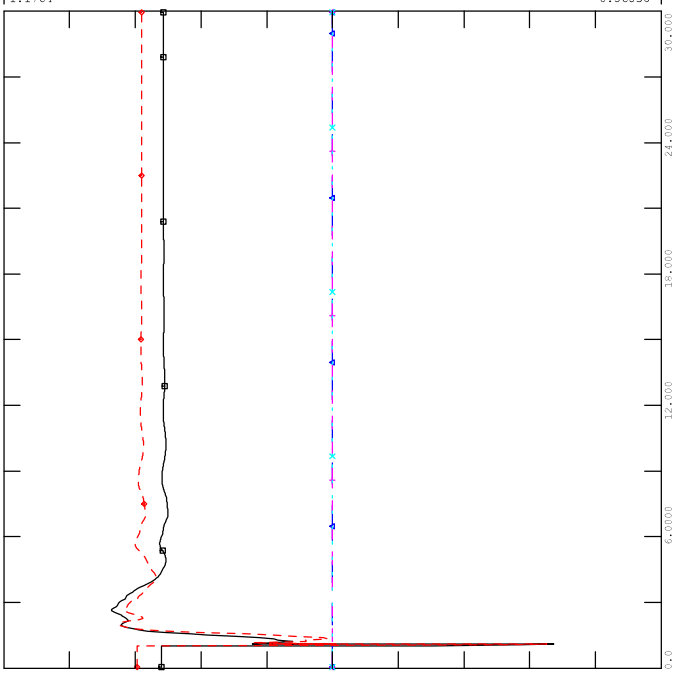
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000

CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1661 0.59330

CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000

CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1764 0.56530

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

FILE: scn9_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 208: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000

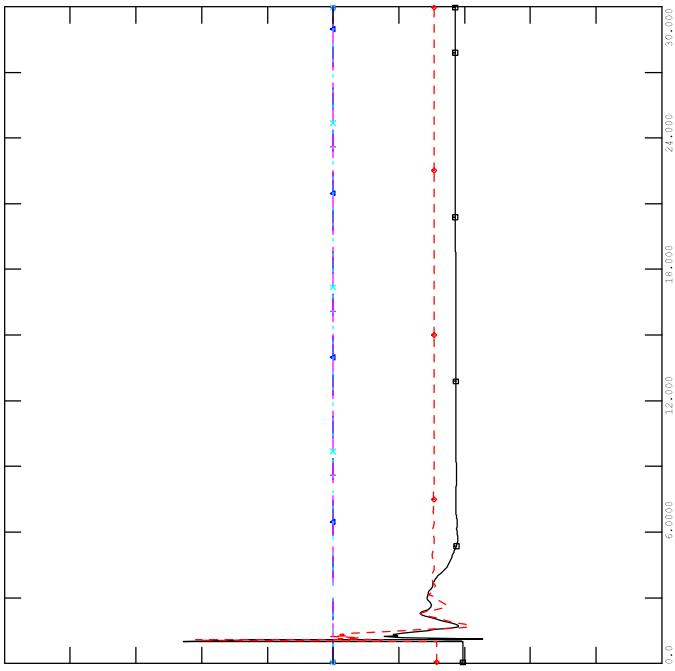
CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000

CHNL# 198: [VARS 61736[BSR 4 0.6900]1]
1.3850 -0.3301

CHNL# 203: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000

CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
1.2694 -0.5663

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

FILE: scn9_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1704 0.58100

CHNL# 264: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000

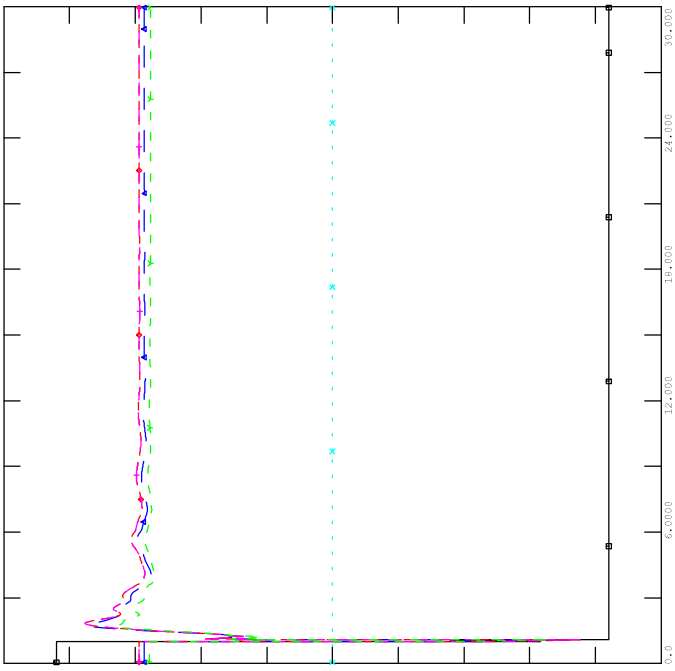
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1668 0.35580

CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1668 0.35580

CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1702 0.37320

CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 -0.1000

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

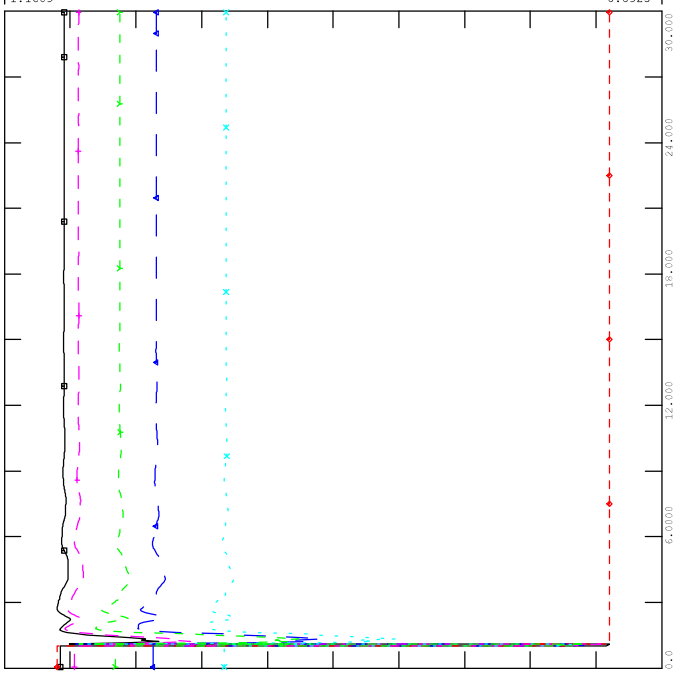
FILE: scn9_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:19

BUS VOLTAGE

CHNL# 329: [VOLT 451 [MATLBI 240.00]] 1.1984 0.31190
CHNL# 331: [VOLT 918 [CASS01 240.00]] 1.3338 0.51100
CHNL# 327: [VOLT 160 [JANET 4 240.00]] 1.1730 0.08630
CHNL# 334: [VOLT 902378 [927L TAP 240.00]] 1.1532 -0.1000
CHNL# 332: [VOLT 943 [MILO 1 240.00]] 1.2699 0.35060
CHNL# 326: [VOLT 159 [LANGDON4 240.00]] 1.1609 -0.0925

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

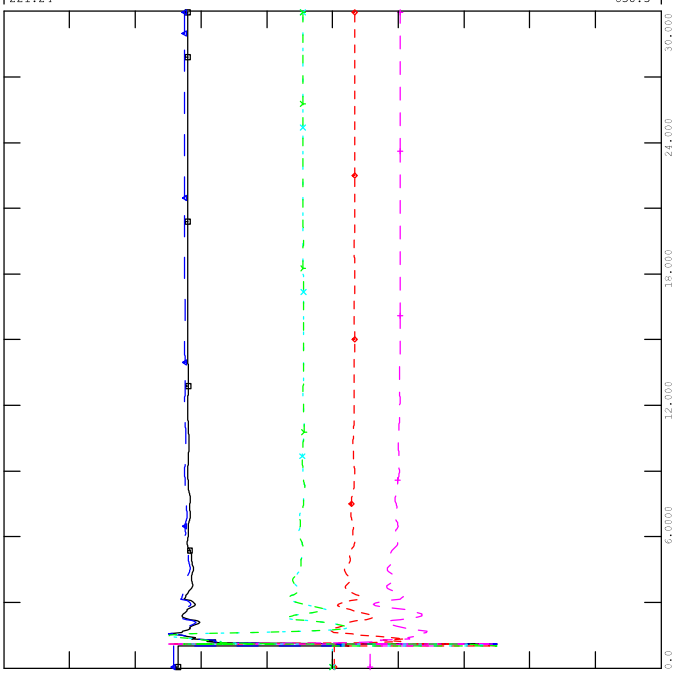
FILE: scn9_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:19

BRANCH Q

CHNL# 358: [1107L Q] 431.98 -187.8
CHNL# 336: [1106L Q] 432.24 -187.9
CHNL# 348: [1005L Q] 209.63 -77.18
CHNL# 360: [1036L Q] 316.00 -170.5
CHNL# 352: [935L Q] 189.45 -578.4
CHNL# 340: [923L Q] 221.24 -638.3

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

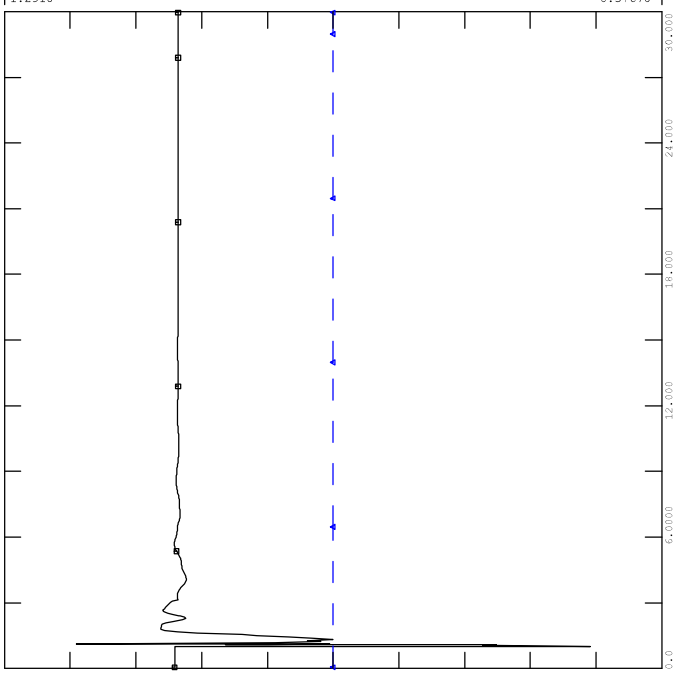
FILE: scn9_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1] 0.10000 -0.1000
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1] 1.2918 0.37670

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

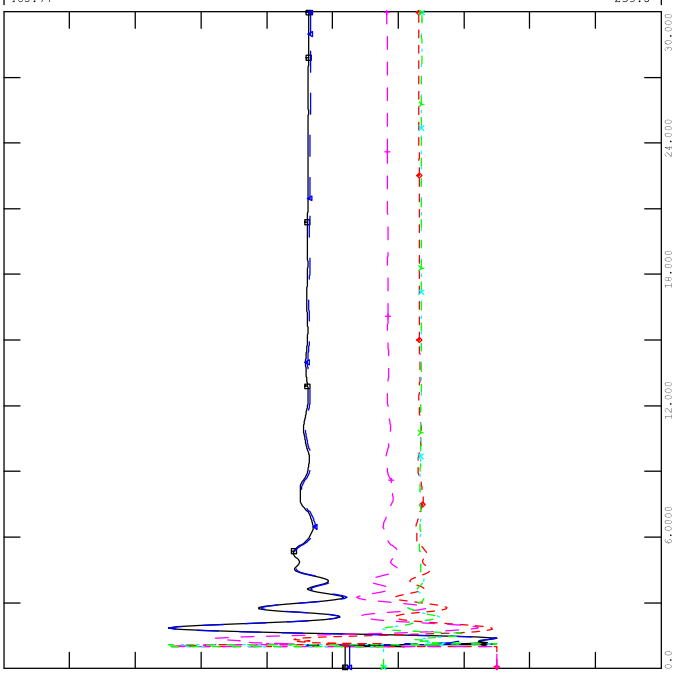
FILE: scn9_SL_A1_03_927L_Langdon.out

SAT, MAY 21 2022 1:19

BRANCH P

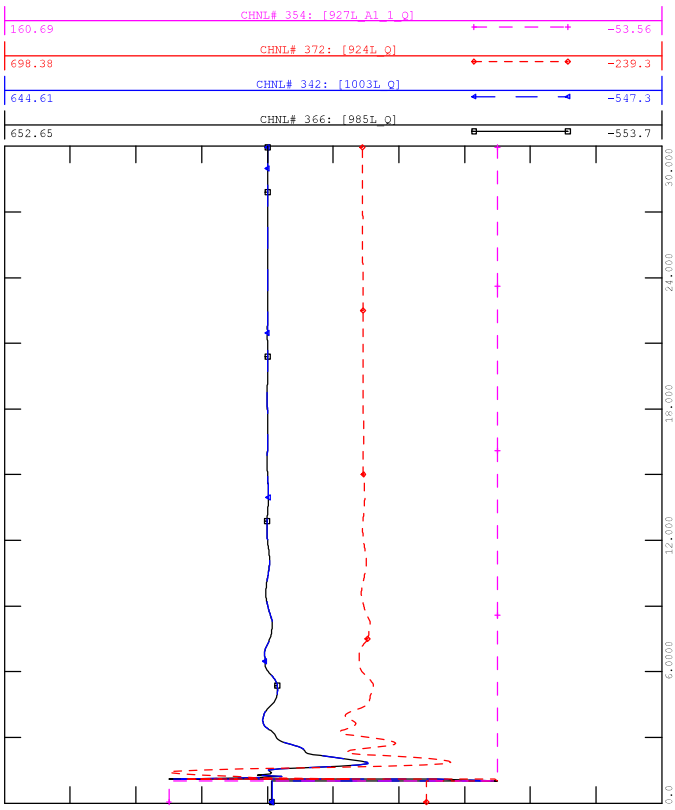
CHNL# 357: [1107L P] 155.79 -807.8
CHNL# 335: [1106L P] 155.79 -807.9
CHNL# 347: [1005L P] 54.717 -298.2
CHNL# 359: [1036L P] 56.853 -435.1
CHNL# 351: [935L P] 401.73 -254.0
CHNL# 339: [923L P] 465.77 -239.5

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

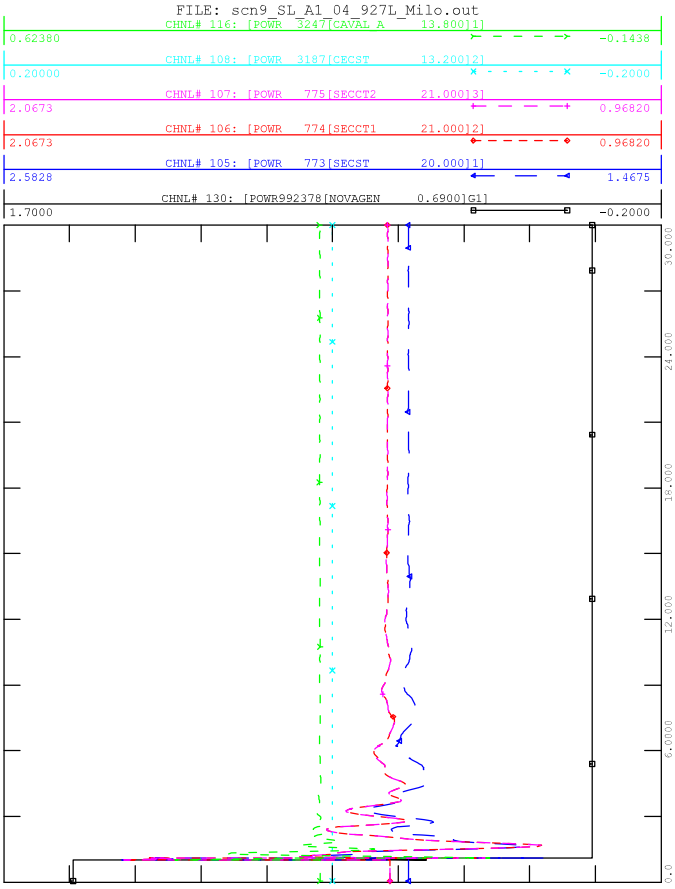
FILE: scn9_SL_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

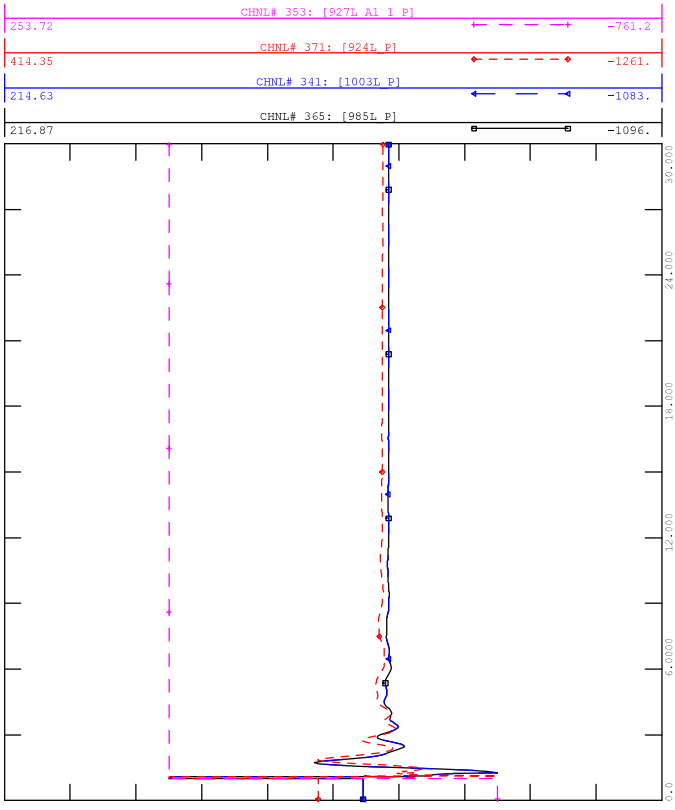
FILE: scn9_SL_A1_04_927L_Milo.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_03_927L_LANGDON

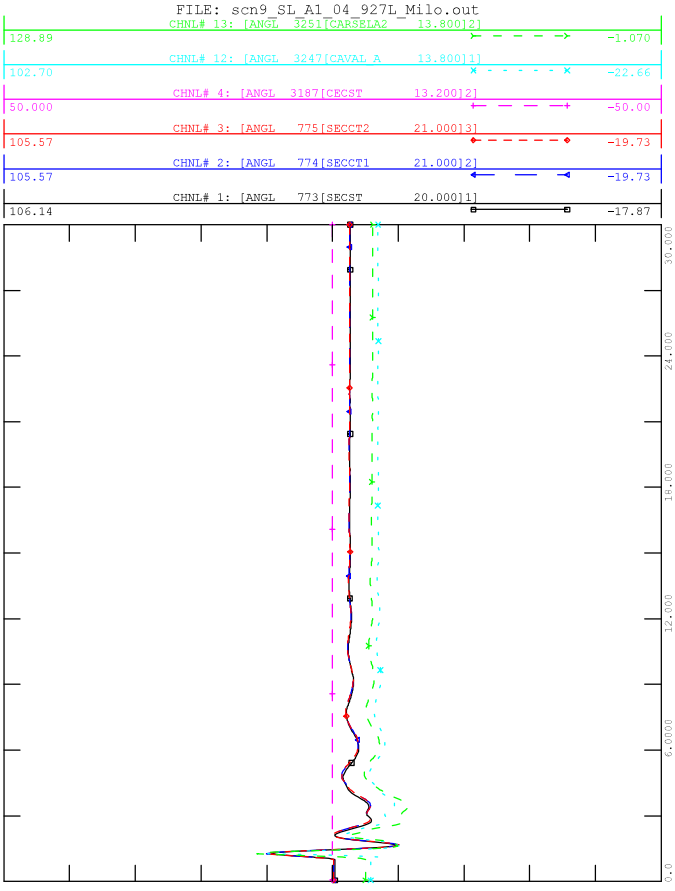
FILE: scn9_SL_A1_03_927L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

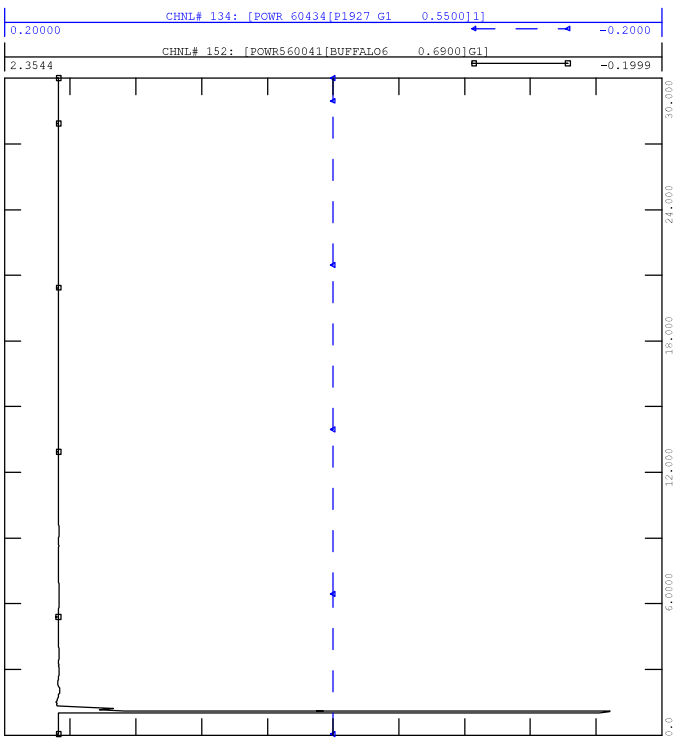


SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

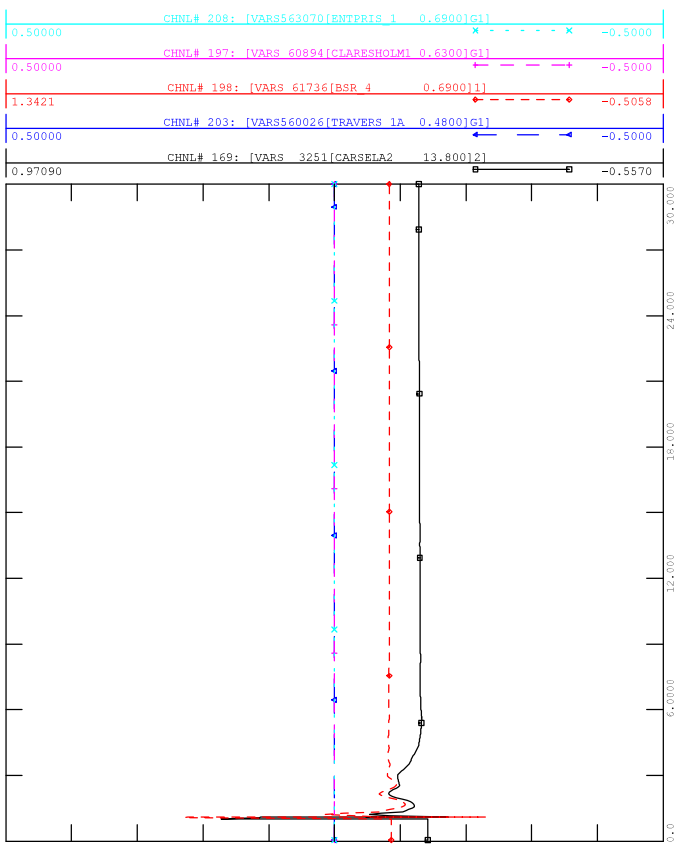
SAT, MAY 21 2022 1:19 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

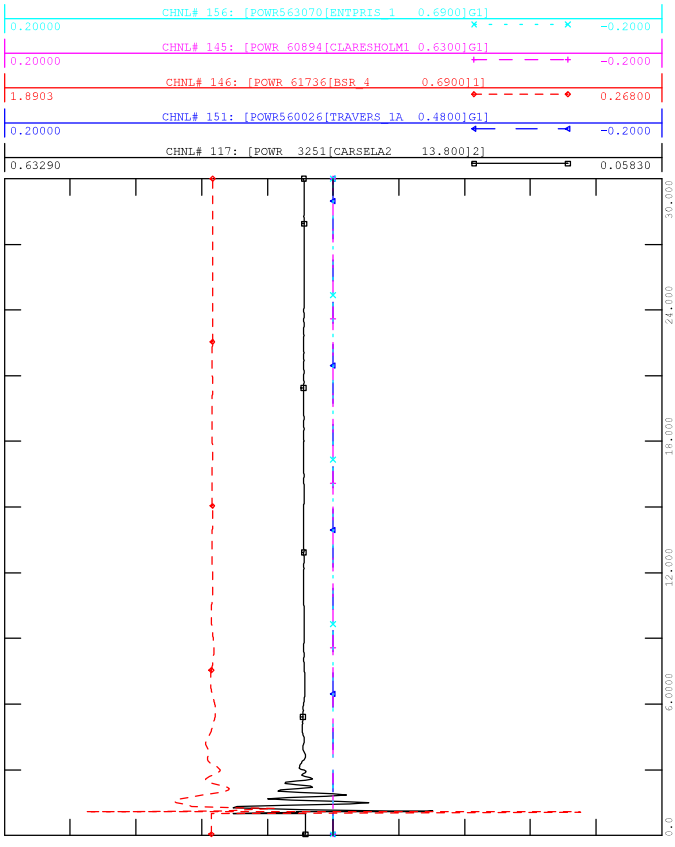
SAT, MAY 21 2022 1:19 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

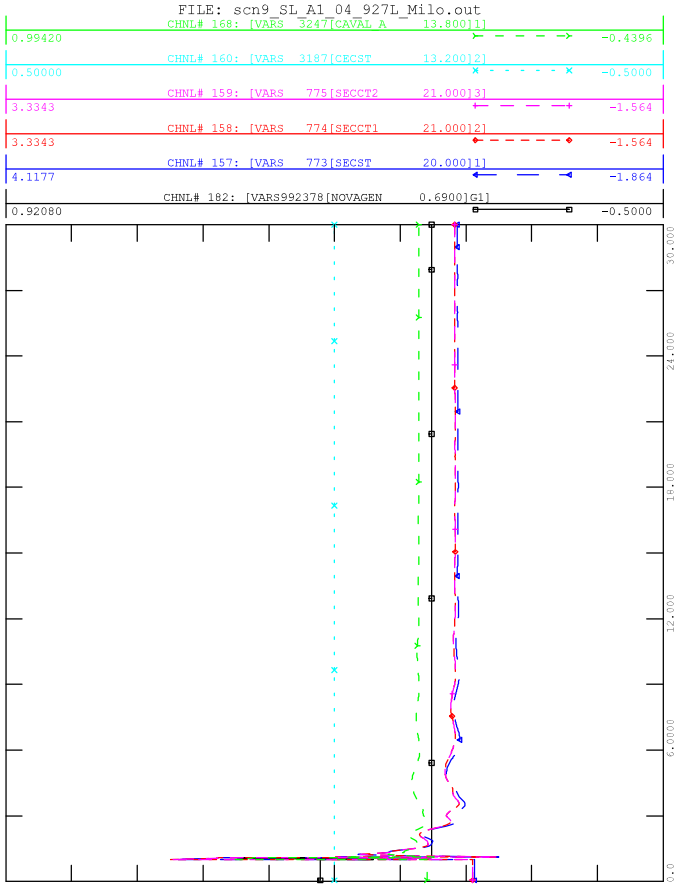
SAT, MAY 21 2022 1:19 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:19 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1] 1.1487 0.79250

CHNL# 264: [ETRM 3187[CECST 13.200]2] 0.10000 -0.1000

CHNL# 263: [ETRM 775[SECCT2 21.000]3] 1.1163 0.68400

CHNL# 262: [ETRM 774[SECCT1 21.000]2] 1.1163 0.68400

CHNL# 261: [ETRM 773[SECST 20.000]1] 1.1169 0.69020

CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1] 1.1500 -0.1000

TIME (SECONDS)

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1] 0.10000 -0.1000

CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1] 1.5710 0.09820

TIME (SECONDS)

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1] 0.50000 -0.5000

CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1] 6.9136 -2.168

TIME (SECONDS)

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1] 0.10000 -0.1000

CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000

CHNL# 302: [ETRM 61736[BSR 4 0.6900]1] 1.2107 0.45520

CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000

CHNL# 273: [ETRM 3251[CARSELA2 13.800]2] 1.1584 0.74500

TIME (SECONDS)

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

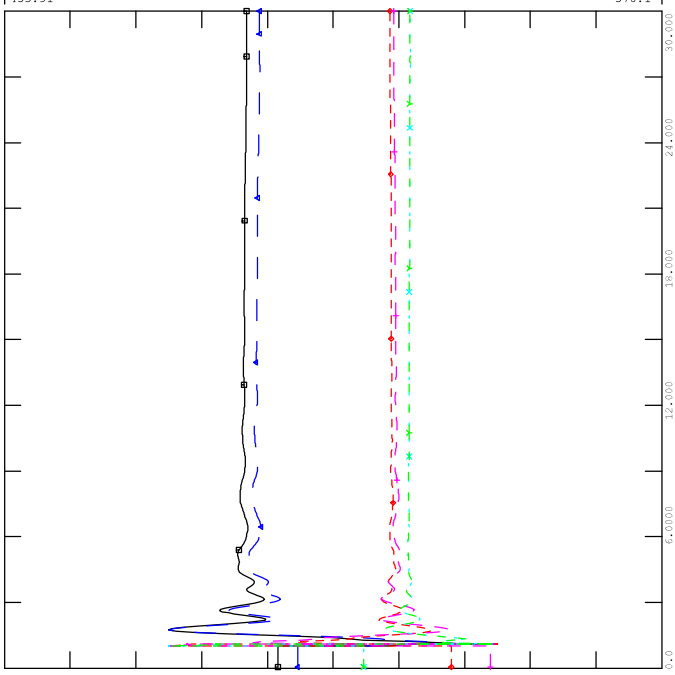
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

CHNL# 357: [1107L P]
35.004 -762.5
CHNL# 335: [1106L P]
35.074 -762.6
CHNL# 347: [1005L P]
89.456 -315.8
CHNL# 359: [1036L P]
117.69 -514.6
CHNL# 351: [935L P]
349.61 -307.3
CHNL# 339: [923L P]
433.91 -370.1

SAT, MAY 21 2022 1:19 BRANCH P

TIME (SECONDS)



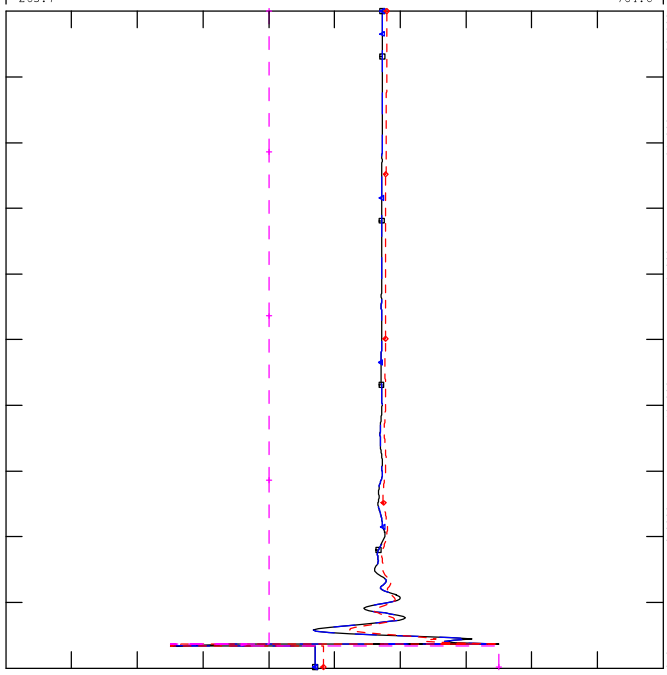
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

CHNL# 353: [927L A1 1 P]
580.41 -870.1
CHNL# 371: [924L P]
446.31 -1275.
CHNL# 341: [1003L P]
-260.6 -756.0
CHNL# 365: [985L P]
-263.7 -764.6

SAT, MAY 21 2022 1:19 BRANCH P

TIME (SECONDS)



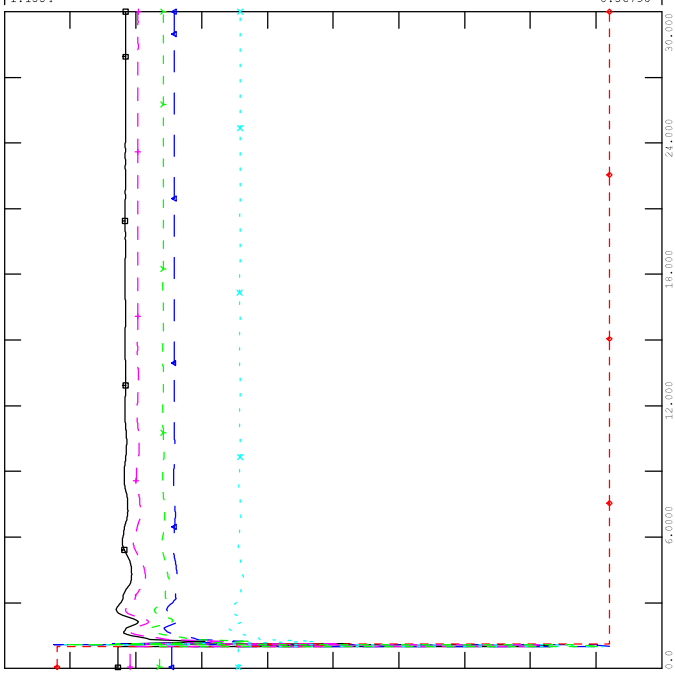
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.3060 0.21560
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.4559 0.34020
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1608 0.61760
CHNL# 334: [VOLT 902378 [927L_TAP 240.00]]
1.1532 -0.1000
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.4018 0.06840
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1554 0.56790

SAT, MAY 21 2022 1:19 BUS VOLTAGE

TIME (SECONDS)



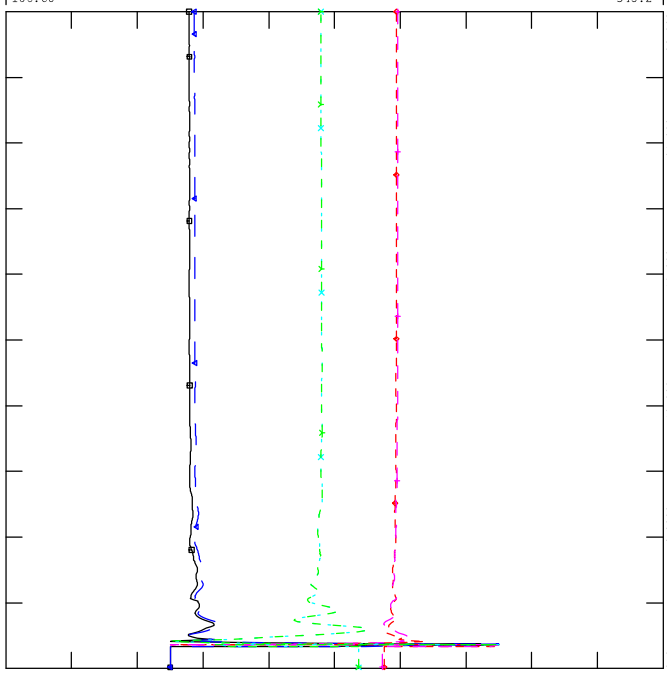
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

CHNL# 358: [1107L Q]
383.21 -102.7
CHNL# 336: [1106L Q]
383.40 -102.6
CHNL# 348: [1005L Q]
364.95 -185.5
CHNL# 360: [1036L Q]
534.48 -270.1
CHNL# 352: [935L Q]
81.190 -278.0
CHNL# 340: [923L Q]
106.68 -345.2

SAT, MAY 21 2022 1:19 BRANCH Q

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

FILE: scn9_SL_A1_05_1005L_Milo.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
131.46 -1.570
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
107.12 -21.39
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
107.09 -18.25
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
107.09 -18.25
CHNL# 1: [ANGL 773[SECST 20.000]1]
107.98 -16.36

SAT, MAY 21 2022 1:19
ROTOR ANGLE

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

FILE: scn9_SL_A1_05_1005L_Milo.out

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.20000 -0.2000
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.8480 0.05200
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.68480 0.04530

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_04_927L_MILO

FILE: scn9_SL_A1_04_927L_Milo.out

CHNL# 354: [927L A1 1 Q]
1889.7 -629.9
CHNL# 372: [924L Q]
788.00 -487.5
CHNL# 342: [1003L Q]
378.88 -183.7
CHNL# 366: [985L Q]
383.79 -185.7

SAT, MAY 21 2022 1:19
BRANCH Q

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

FILE: scn9_SL_A1_05_1005L_Milo.out

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.63470 -0.2359
CHNL# 108: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3]
2.0949 0.84530
CHNL# 106: [POWR 774[SECCT1 21.000]2]
2.0949 0.84530
CHNL# 105: [POWR 773[SECST 20.000]1]
2.6123 1.3081
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.9533 0.25280

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

FILE: scn9_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
1.0240 -0.4490

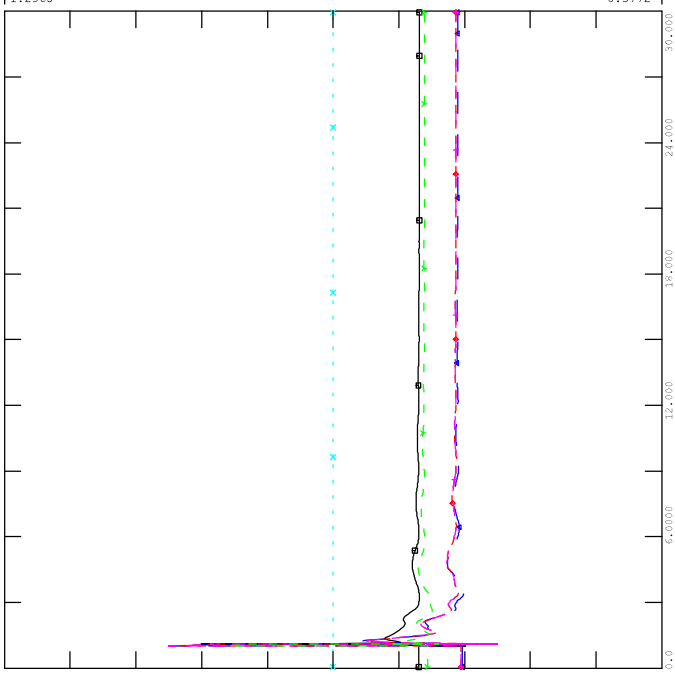
CHNL# 160: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000

CHNL# 159: [VARS 775[SECCT2 21.000]3]
3.5701 -1.780

CHNL# 158: [VARS 774[SECCT1 21.000]2]
3.5701 -1.780

CHNL# 157: [VARS 773[SECST 20.000]1]
4.4136 -2.137

CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
1.2965 -0.3772



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

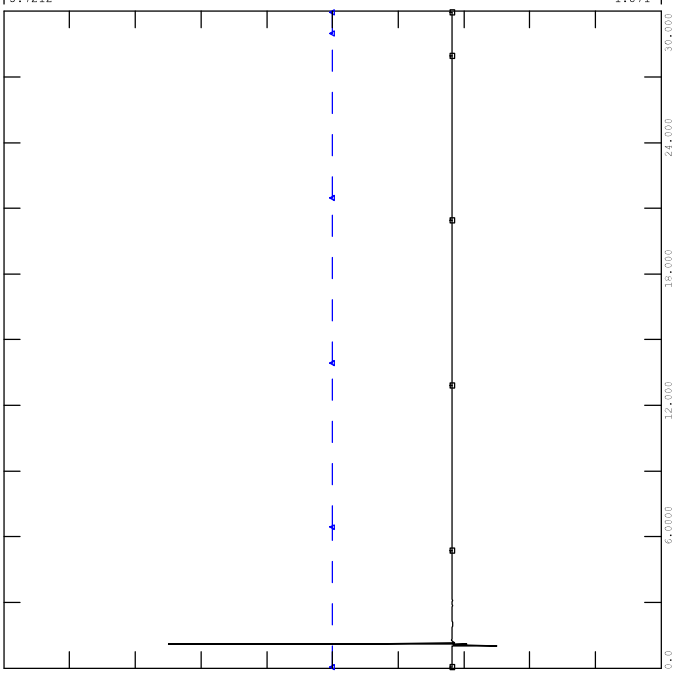
FILE: scn9_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000

CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
5.7212 -1.871



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

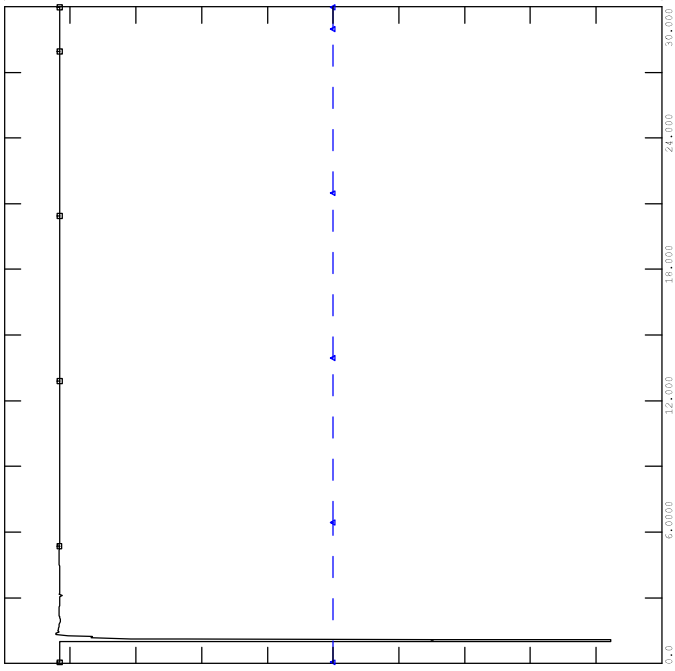
FILE: scn9_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:19

ACTIVE POWER

CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000

CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
2.3574 -0.2000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

FILE: scn9_SL_A1_05_1005L_Milo.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

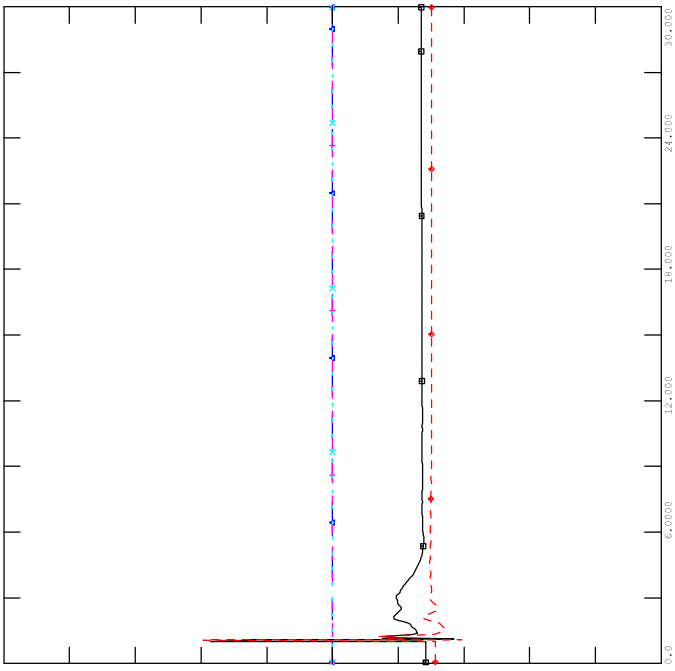
CHNL# 208: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000

CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000

CHNL# 198: [VARS 61736[BSR 4 0.6900]1]
1.3402 -0.3090

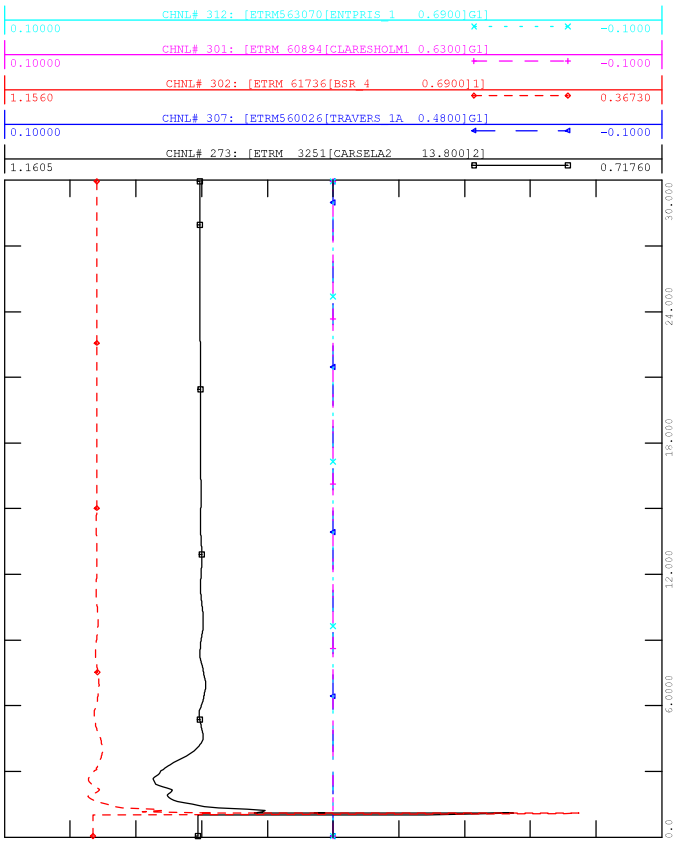
CHNL# 203: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000

CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
1.0090 -0.5782



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

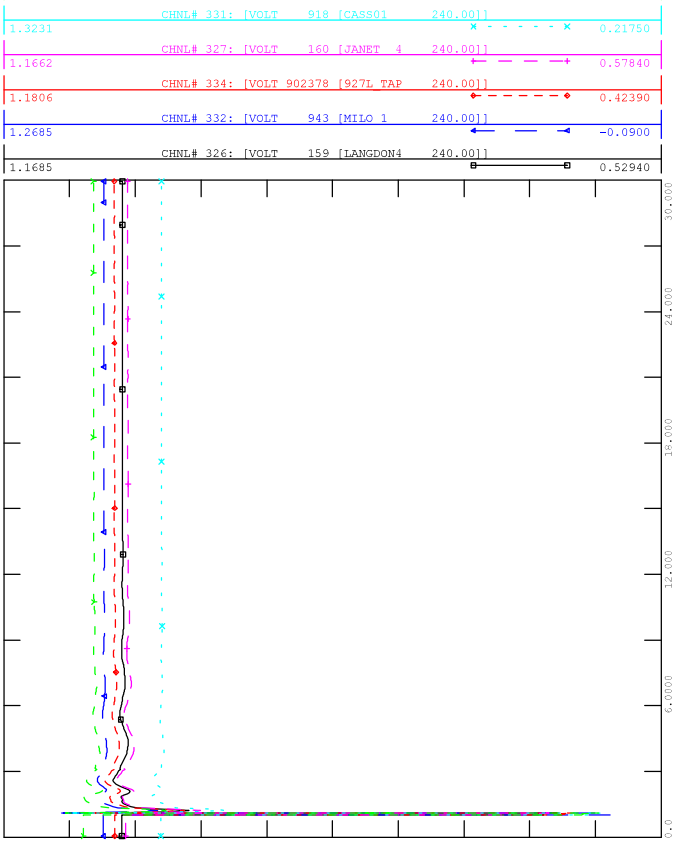
FILE: scn9_SL_A1_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

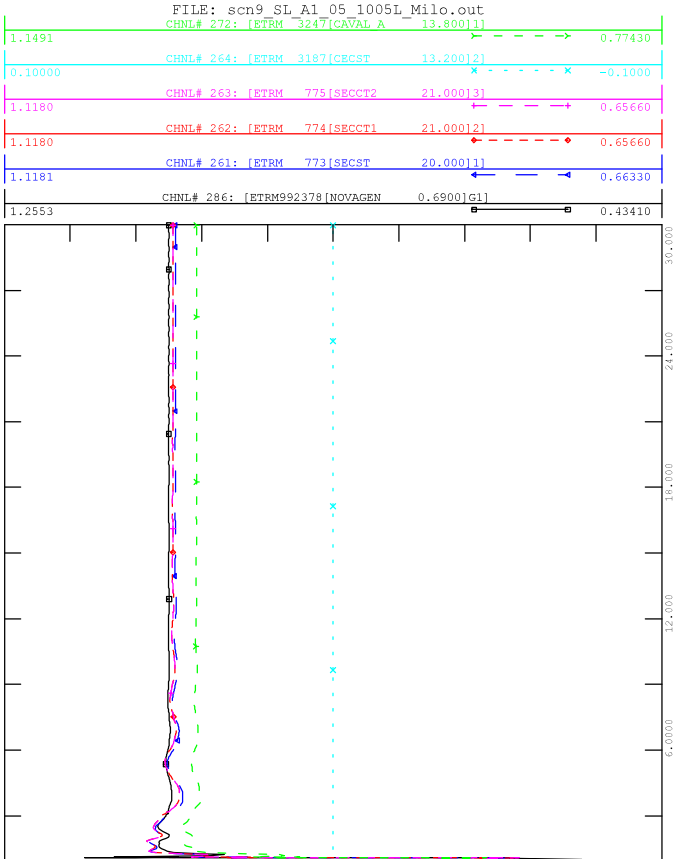
FILE: scn9_SL_A1_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

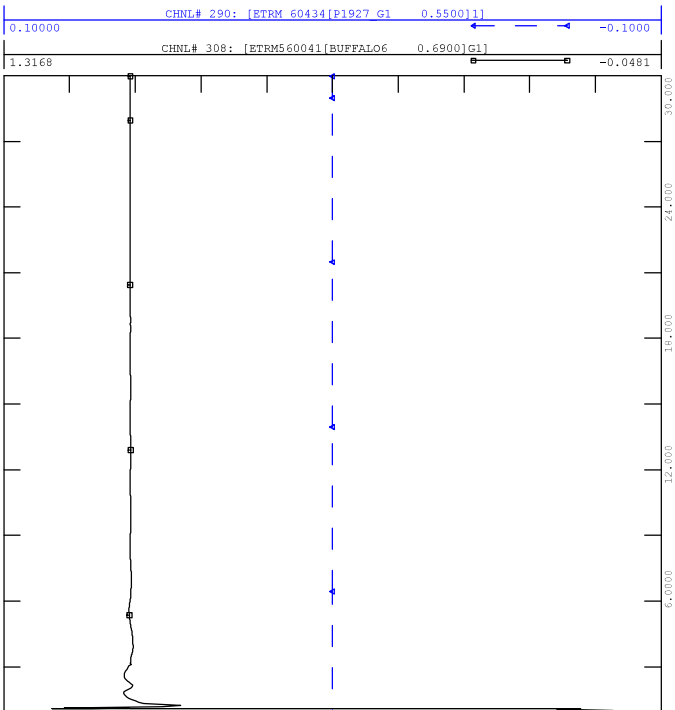
FILE: scn9_SL_A1_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

FILE: scn9_SL_A1_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

FILE: scn9_SL_A1_05_1005L_Milo.out

CHNL# 358: [1107L Q] 421.21 22.658
CHNL# 336: [1106L Q] 421.37 22.775
CHNL# 348: [1005L Q] 89.862 -40.00
CHNL# 360: [1036L Q] 1143.4 -390.9
CHNL# 352: [935L Q] 125.85 -241.3
CHNL# 340: [923L Q] 156.28 -298.6

BRANCH Q
SAT, MAY 21 2022 1:19

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

FILE: scn9_SL_A1_05_1005L_Milo.out

CHNL# 354: [927L A1 1 Q] 825.00 -299.9
CHNL# 372: [924L Q] 803.76 -256.3
CHNL# 342: [1003L Q] 595.73 -244.8
CHNL# 366: [985L Q] 603.04 -247.5

BRANCH Q
SAT, MAY 21 2022 1:19

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

FILE: scn9_SL_A1_05_1005L_Milo.out

CHNL# 357: [1107L P] 38.324 -699.0
CHNL# 335: [1106L P] 38.402 -699.1
CHNL# 347: [1005L P] 105.00 -315.0
CHNL# 359: [1036L P] 215.50 -663.0
CHNL# 351: [935L P] 362.71 -604.5
CHNL# 339: [923L P] 450.38 -681.5

BRANCH P
SAT, MAY 21 2022 1:19

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_05_1005L_MILO

FILE: scn9_SL_A1_05_1005L_Milo.out

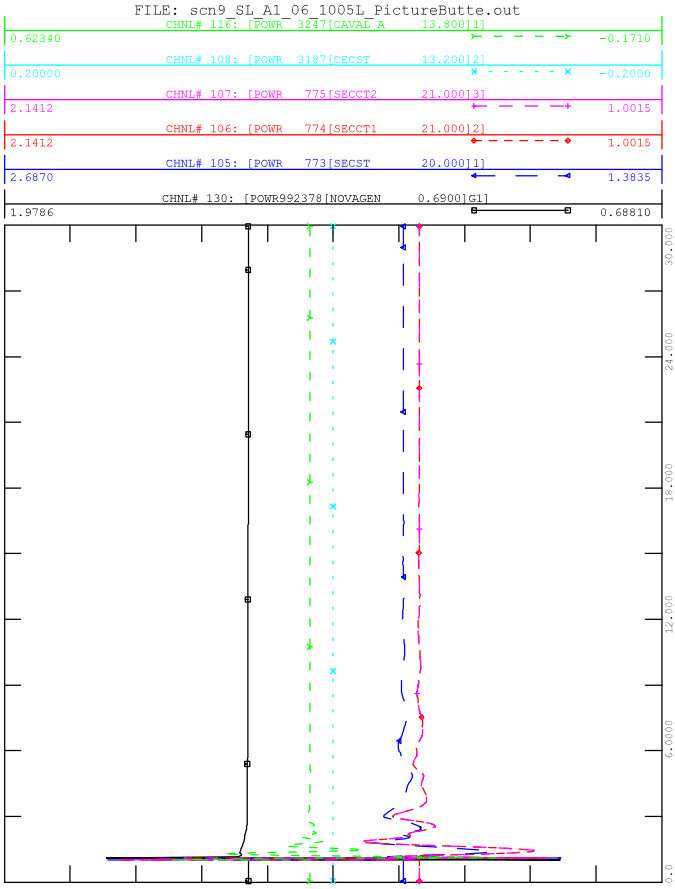
CHNL# 353: [927L A1 1 P] 436.06 -1137.
CHNL# 371: [924L P] 442.51 -952.3
CHNL# 341: [1003L P] -264.4 -705.3
CHNL# 365: [985L P] -267.5 -713.4

BRANCH P
SAT, MAY 21 2022 1:19

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

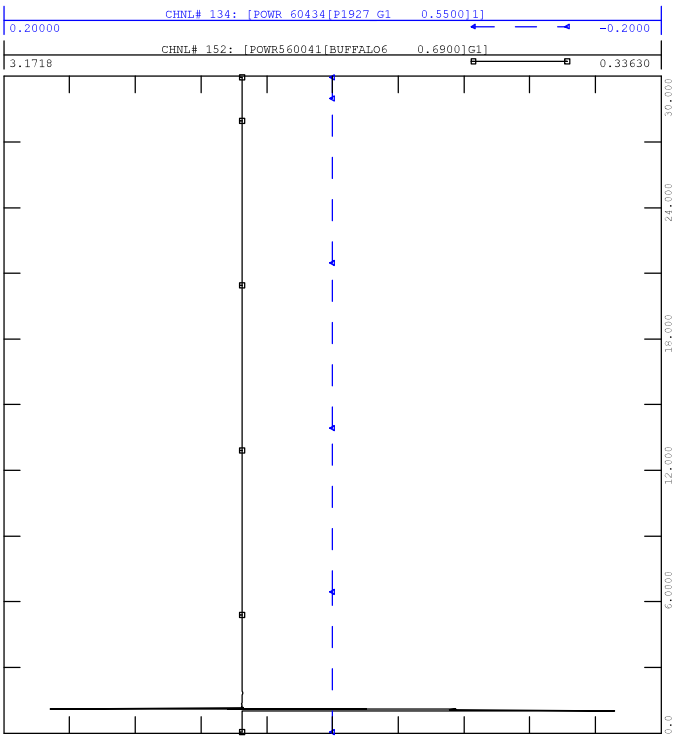
FILE: scn9_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

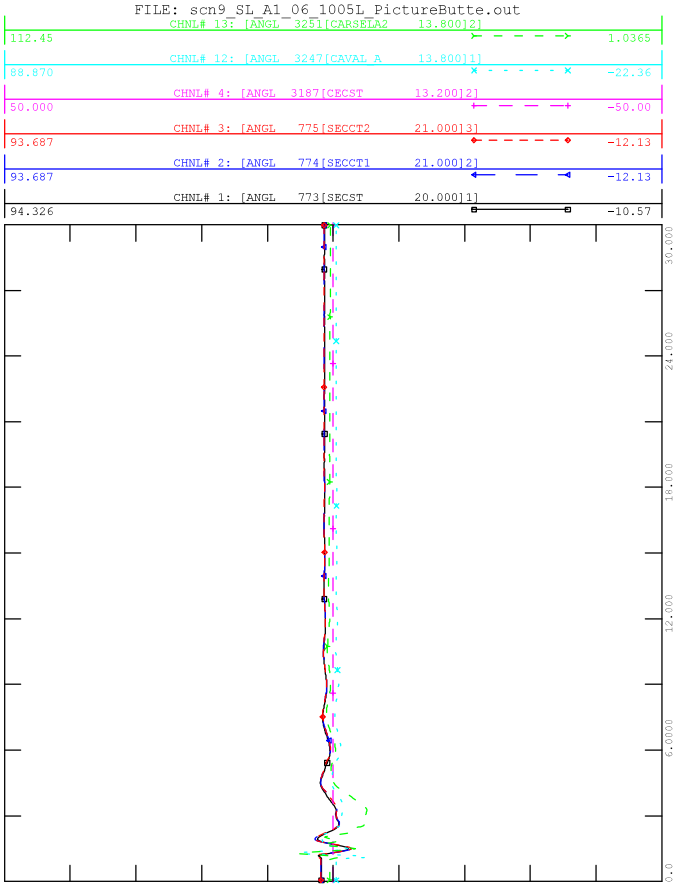
FILE: scn9_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

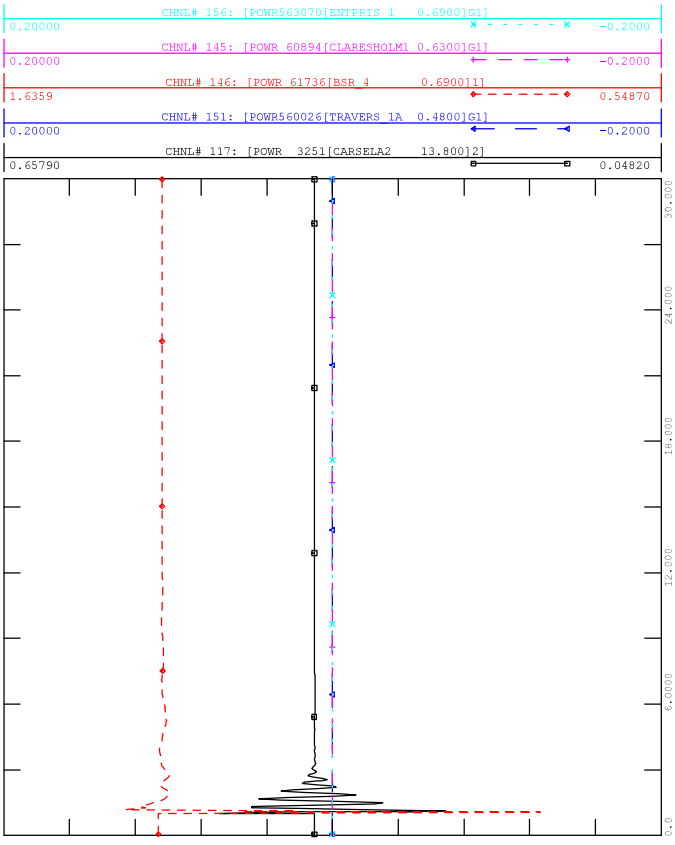
FILE: scn9_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

FILE: scn9_SL_A1_06_1005L_PictureButte.out



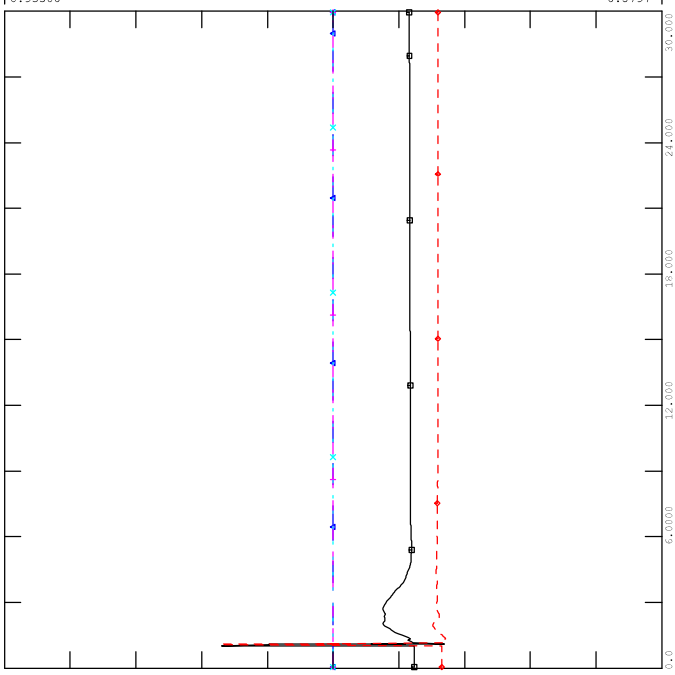
SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

FILE: scn9_SL_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:19 REACTIVE POWER

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1]
0.50000 -0.5000
CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 198: [VARS 61736[BSR 4 0.6900]1]
1.2705 -0.2510
CHNL# 203: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
0.93300 -0.5797

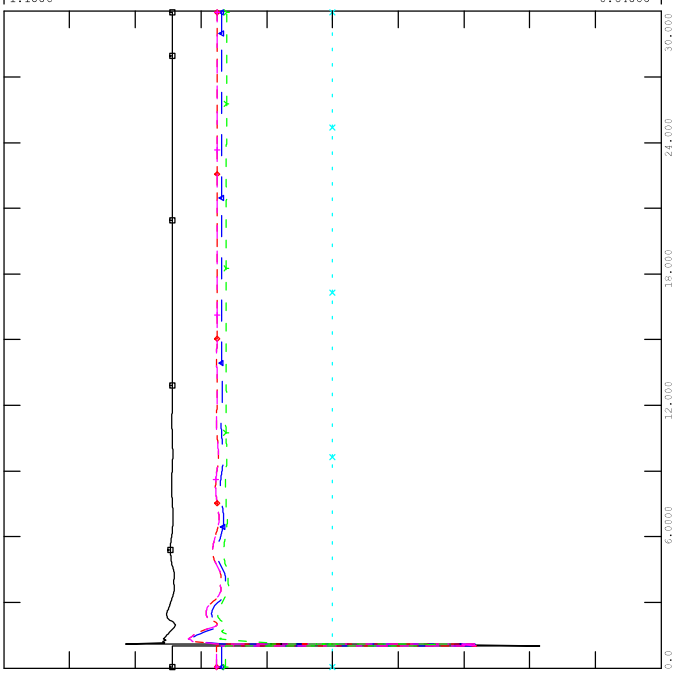


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

FILE: scn9_SL_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1436 0.83620
CHNL# 264: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1153 0.75940
CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1153 0.75940
CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1170 0.76380
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.1886 0.64800

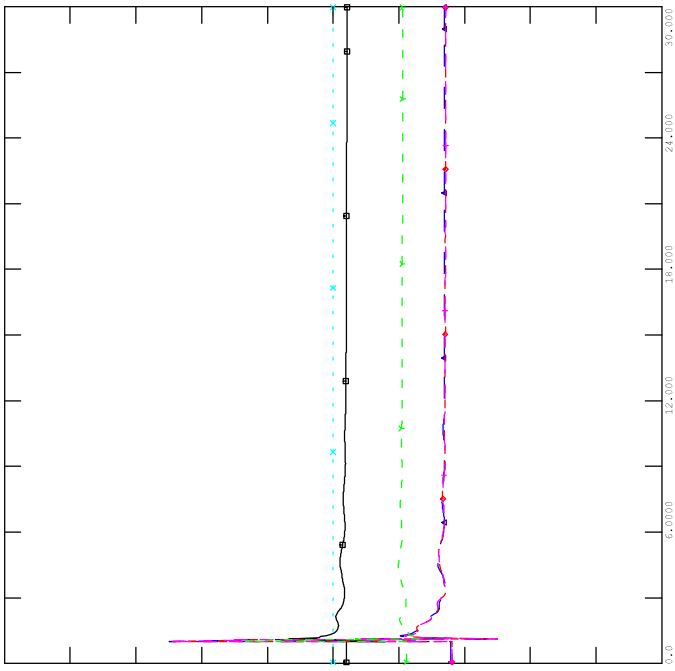


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

FILE: scn9_SL_A1_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:19 REACTIVE POWER

CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
0.91300 -0.4575
CHNL# 160: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 159: [VARS 775[SECCT2 21.000]3]
2.6153 -1.436
CHNL# 158: [VARS 774[SECCT1 21.000]2]
2.6153 -1.436
CHNL# 157: [VARS 773[SECST 20.000]1]
3.2425 -1.751
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
0.85820 -0.3280

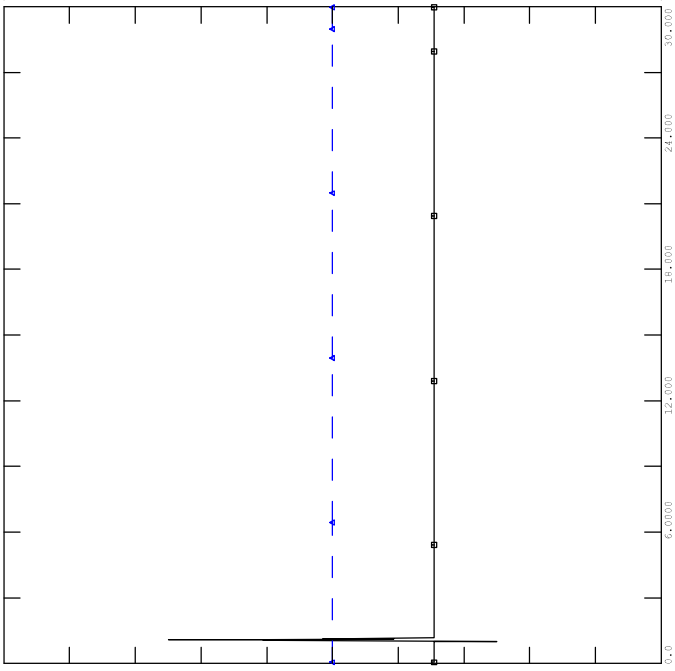


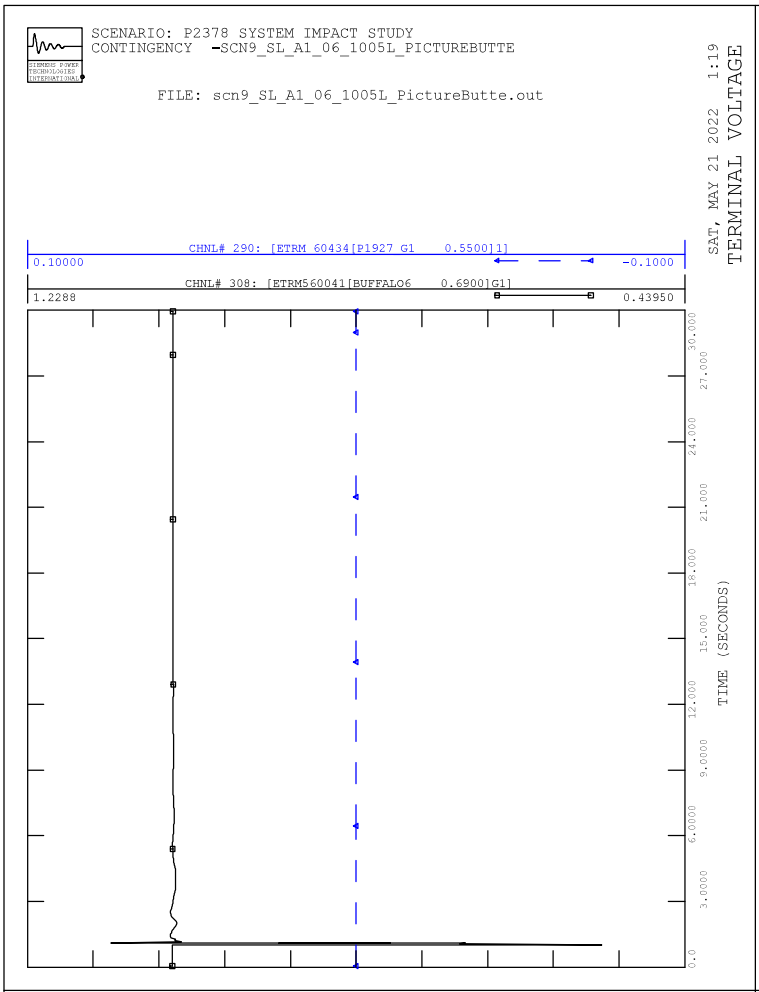
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

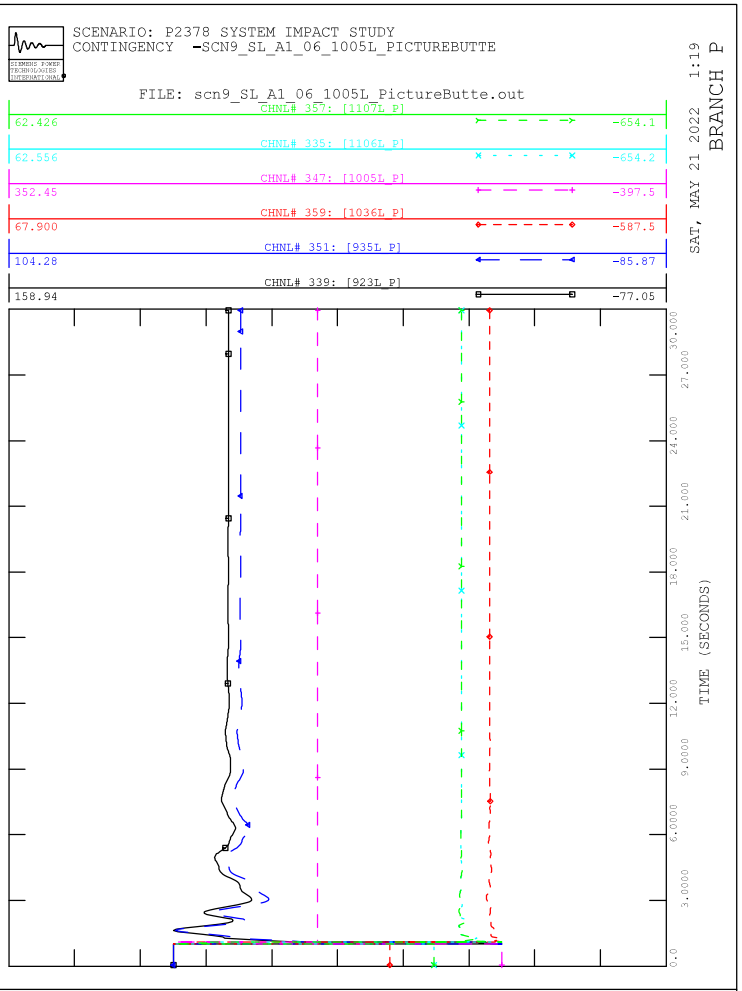
FILE: scn9_SL_A1_06_1005L_PictureButte.out

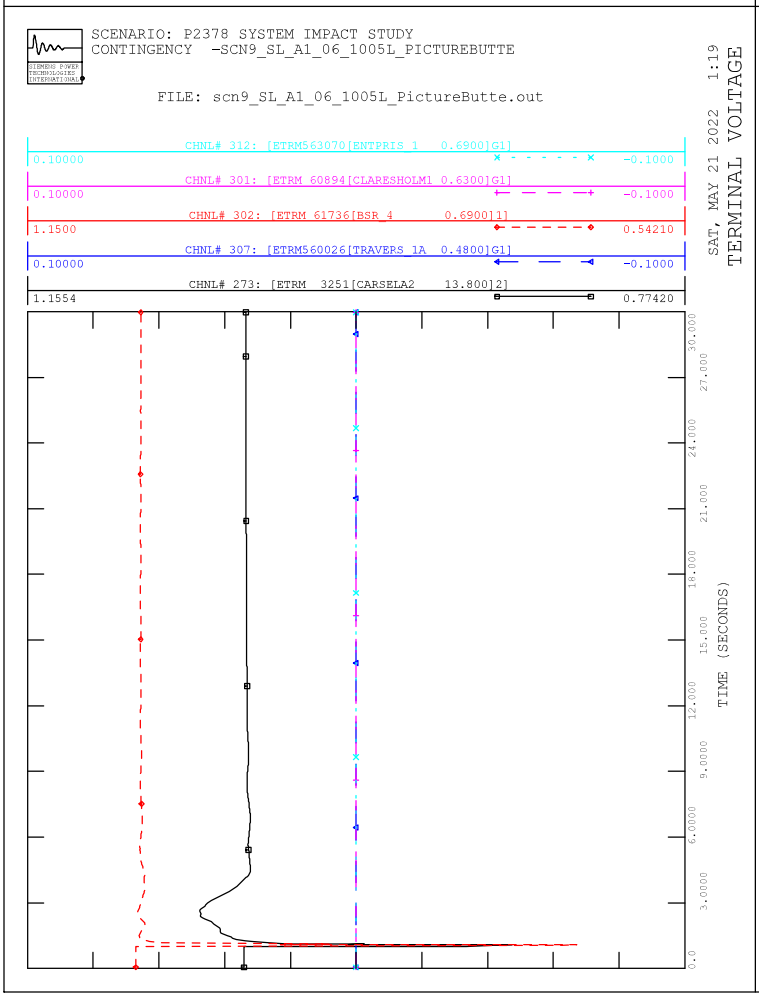
SAT, MAY 21 2022 1:19 REACTIVE POWER

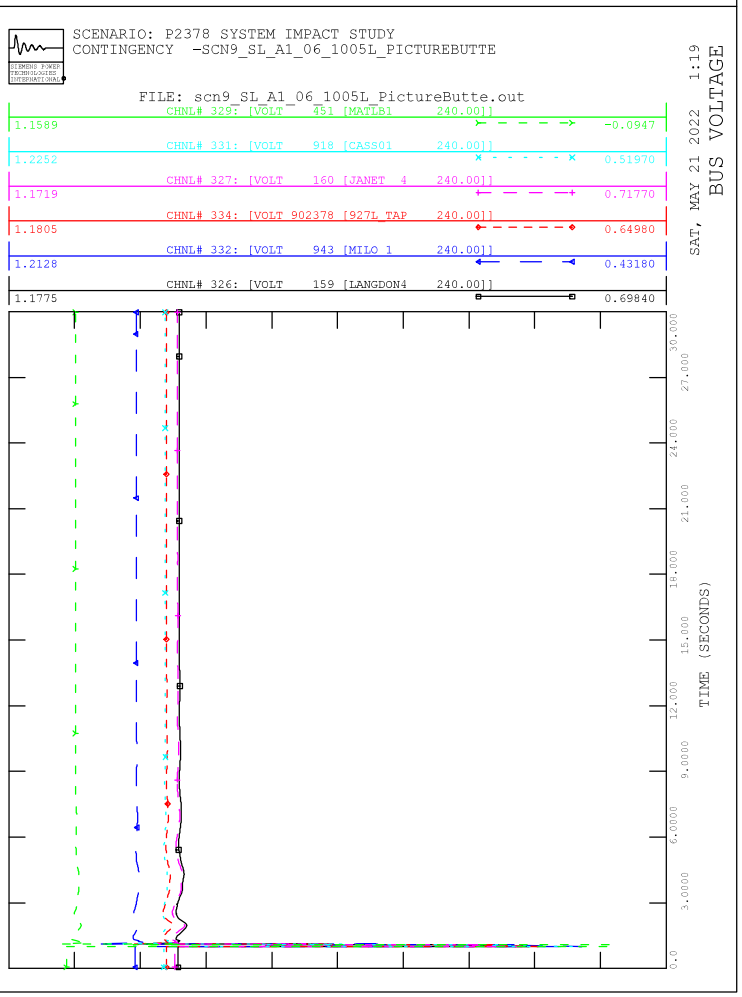
CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
2.3542 -0.4150




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE
FILE: scn9_SL_A1_06_1005L_PictureButte.out
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
0.10000
-0.1000
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.2288
0.43950
TIME (SECONDS)

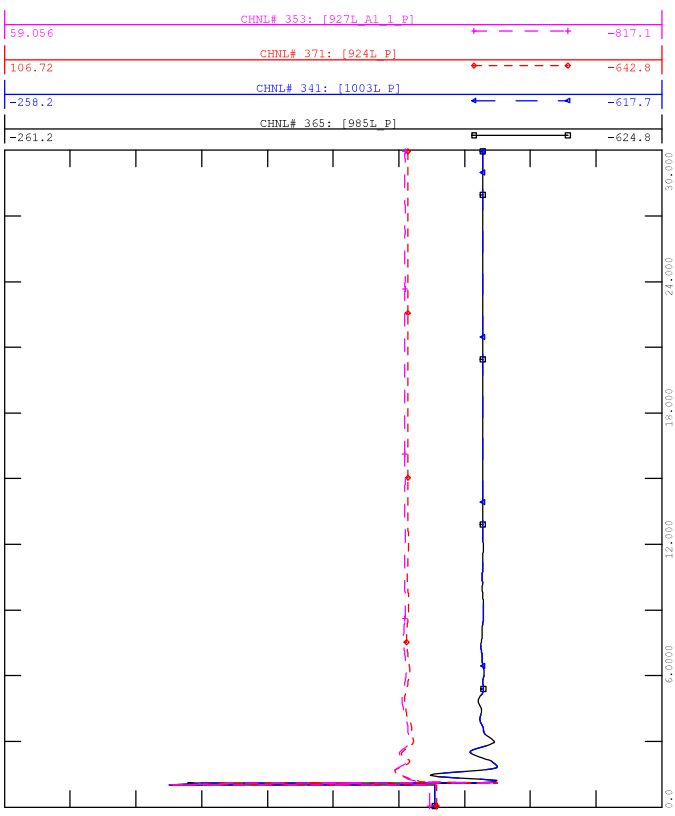

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE
FILE: scn9_SL_A1_06_1005L_PictureButte.out
SAT, MAY 21 2022 1:19
BRANCH P
CHNL# 357: [1107L P]
62.426
-654.1
CHNL# 335: [1106L P]
62.556
-654.2
CHNL# 347: [1005L P]
352.45
-397.5
CHNL# 359: [1036L P]
67.900
-587.5
CHNL# 351: [935L P]
104.28
-85.87
CHNL# 339: [923L P]
158.94
-77.05
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE
FILE: scn9_SL_A1_06_1005L_PictureButte.out
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000
-0.1000
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000
-0.1000
CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1500
0.54210
CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000
-0.1000
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1554
0.77420
TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE
FILE: scn9_SL_A1_06_1005L_PictureButte.out
SAT, MAY 21 2022 1:19
BUS VOLTAGE
CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1589
-0.0947
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.2252
0.51970
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1719
0.71770
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1805
0.64980
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.2128
0.43180
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1775
0.69840
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

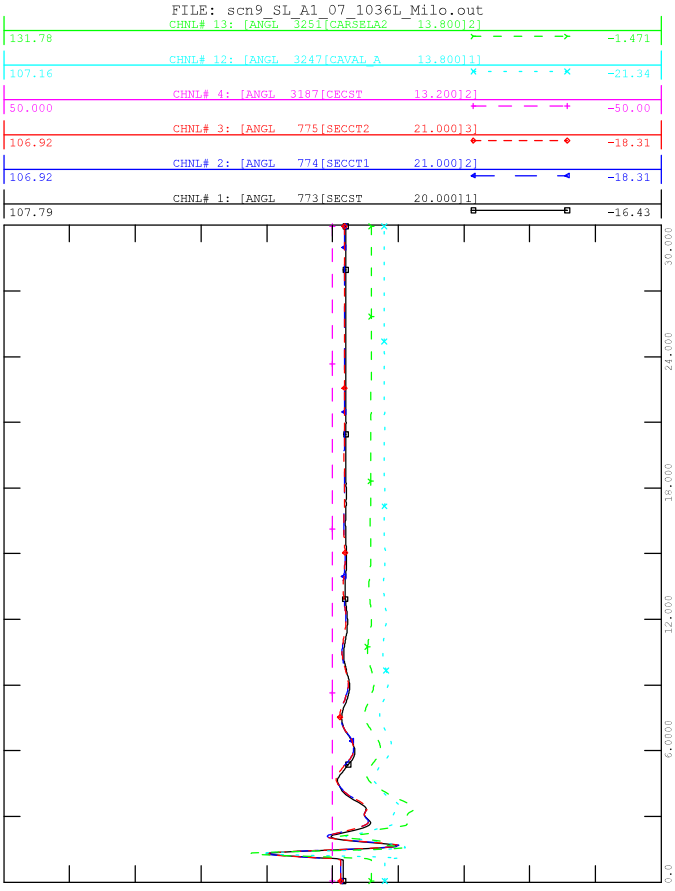
FILE: scn9_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

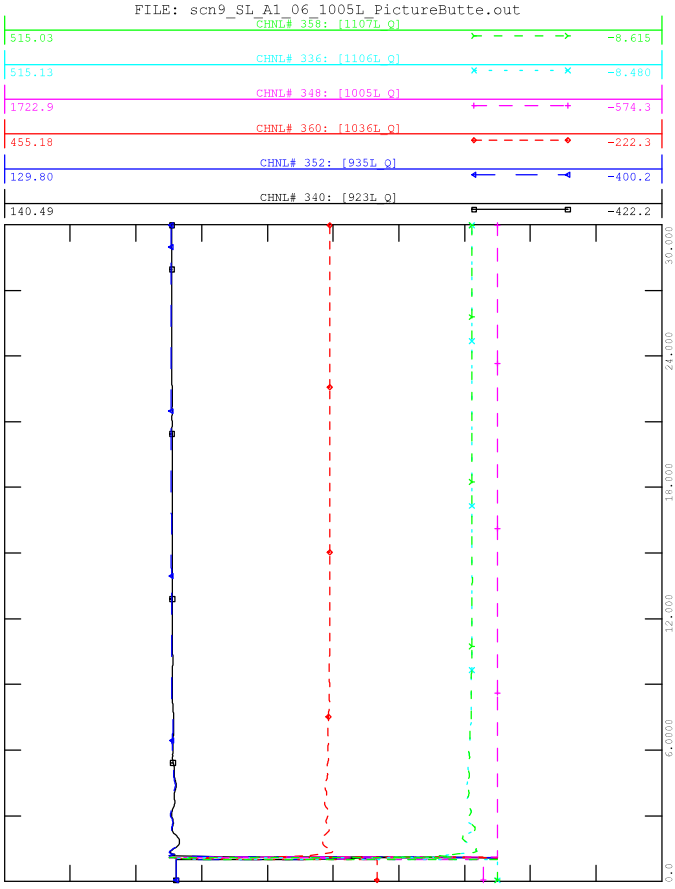
FILE: scn9_SL_A1_07_1036L_Milo.out



SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

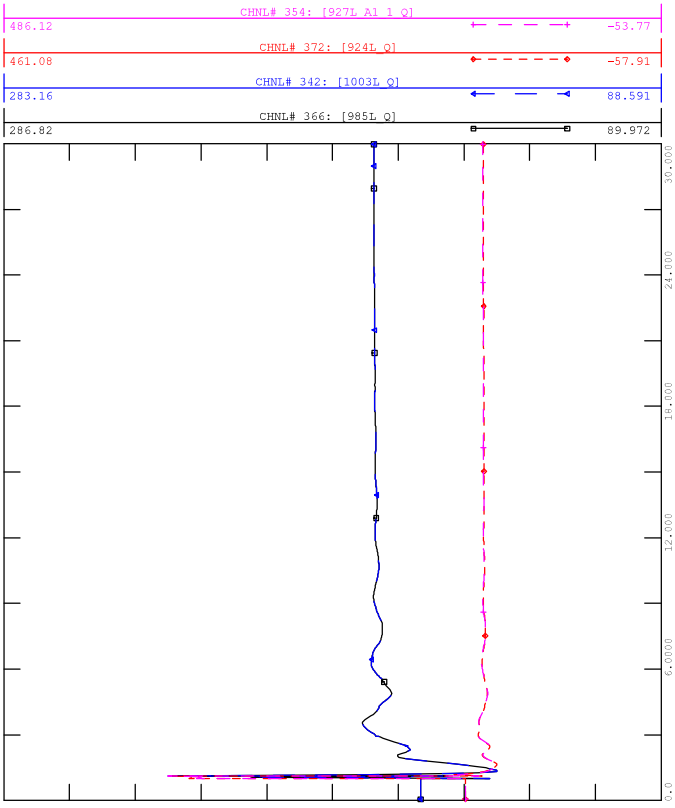
FILE: scn9_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_06_1005L_PICTUREBUTTE

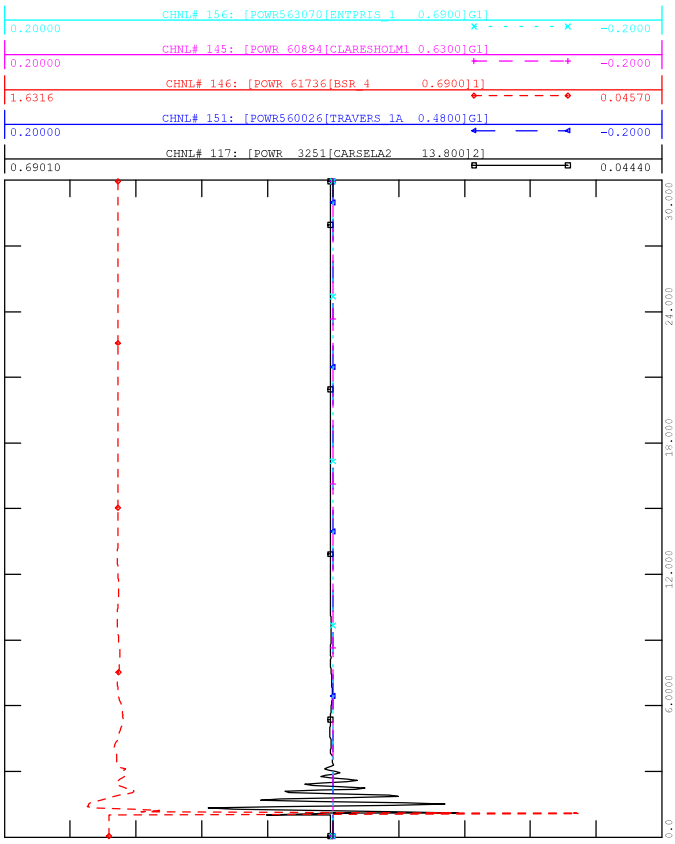
FILE: scn9_SL_A1_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

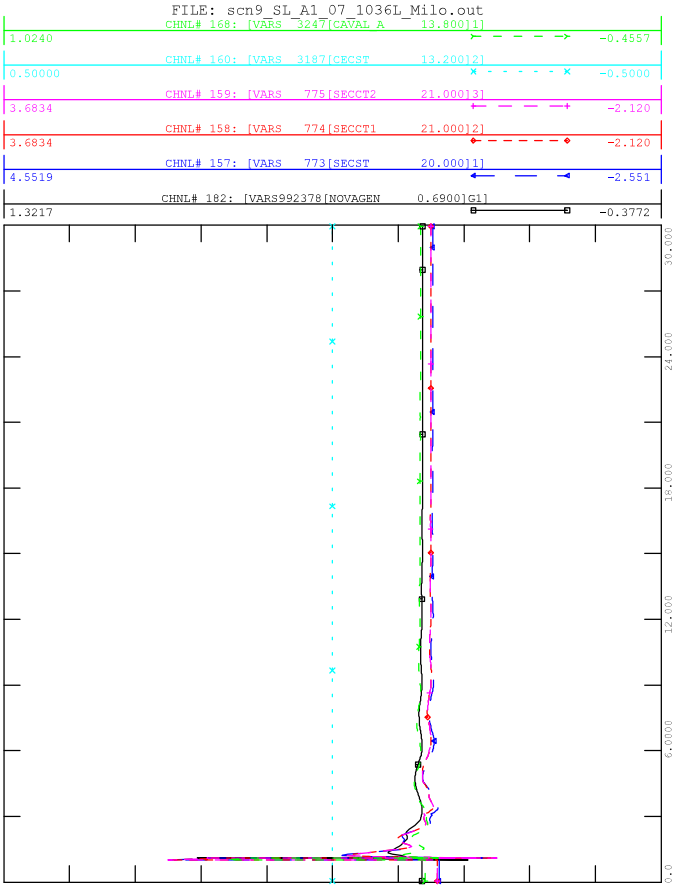
FILE: scn9_SL_A1_07_1036L_Milo.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

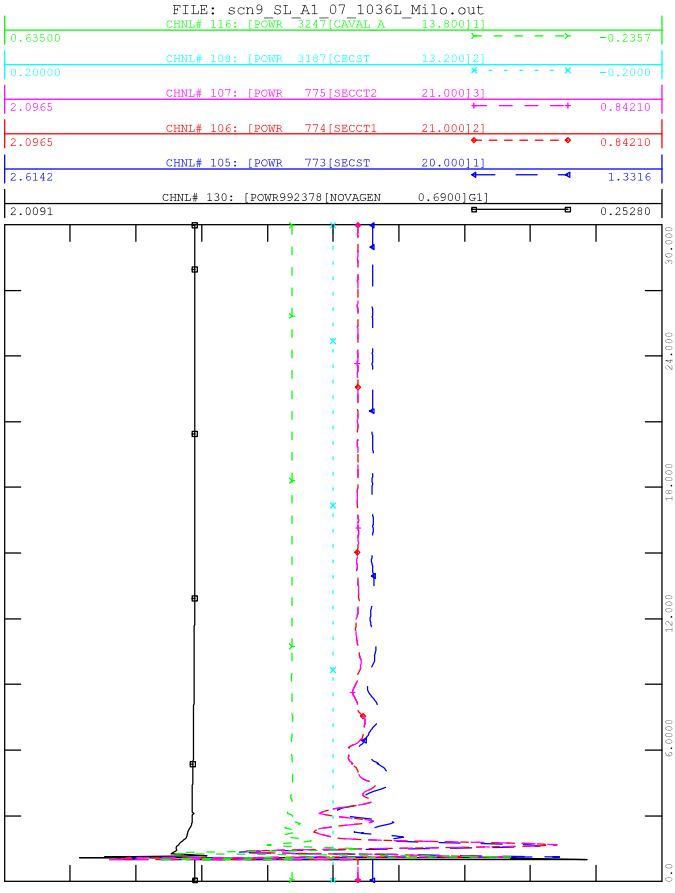
FILE: scn9_SL_A1_07_1036L_Milo.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

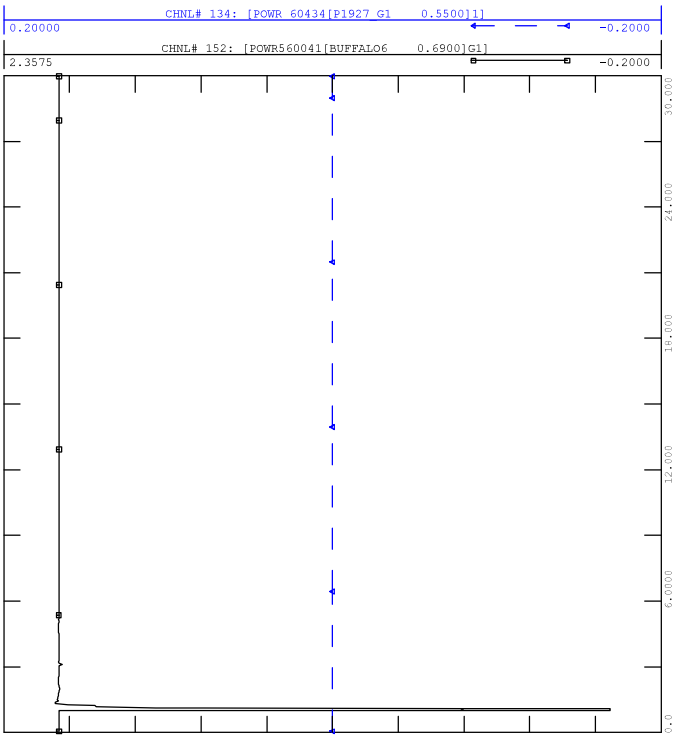
FILE: scn9_SL_A1_07_1036L_Milo.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

FILE: scn9_SL_A1_07_1036L_Milo.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

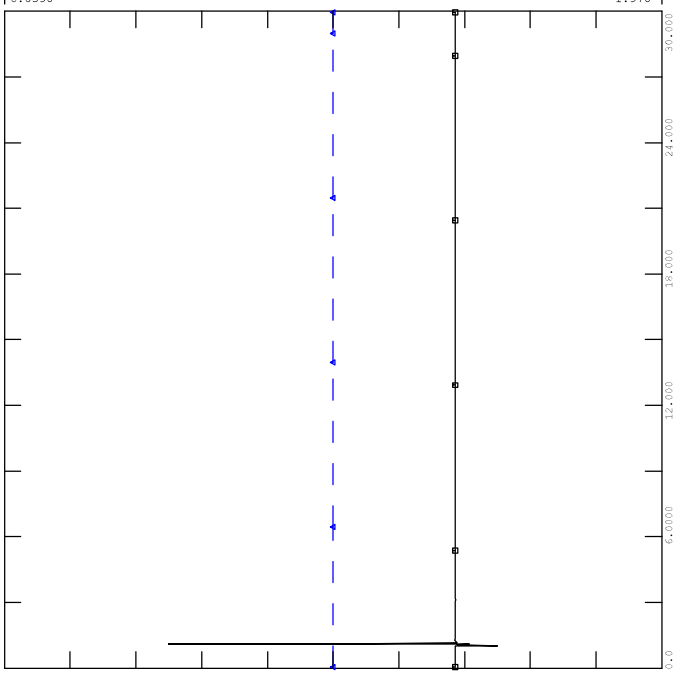
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

FILE: scn9_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:19
REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
6.0398 -1.978

TIME (SECONDS)



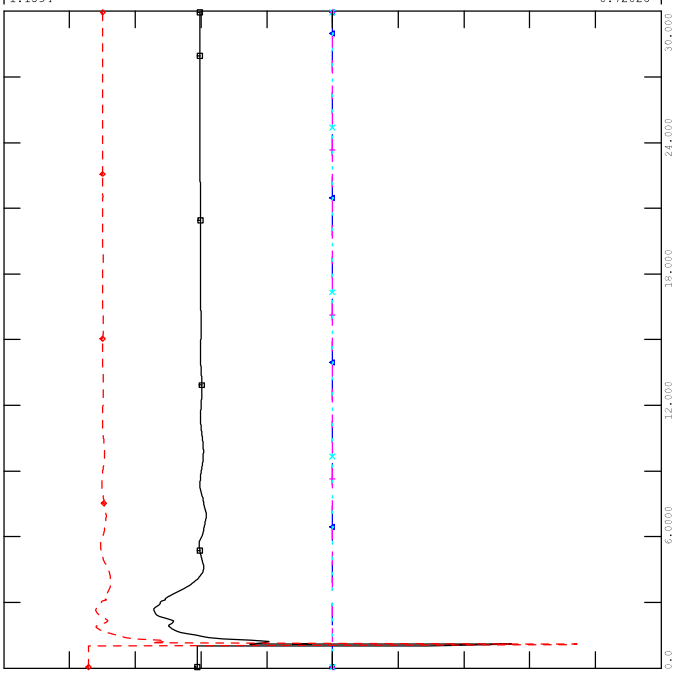
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

FILE: scn9_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1]
0.10000 -0.1000
CHNL# 301: [ETRM_60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 302: [ETRM_61736[BSR_4 0.6900]1]
1.1500 0.37340
CHNL# 307: [ETRM560026[TRAVERS_1A 0.4800]G1]
0.10000 -0.1000
CHNL# 273: [ETRM_3251[CARSELA2 13.800]2]
1.1594 0.72020

TIME (SECONDS)



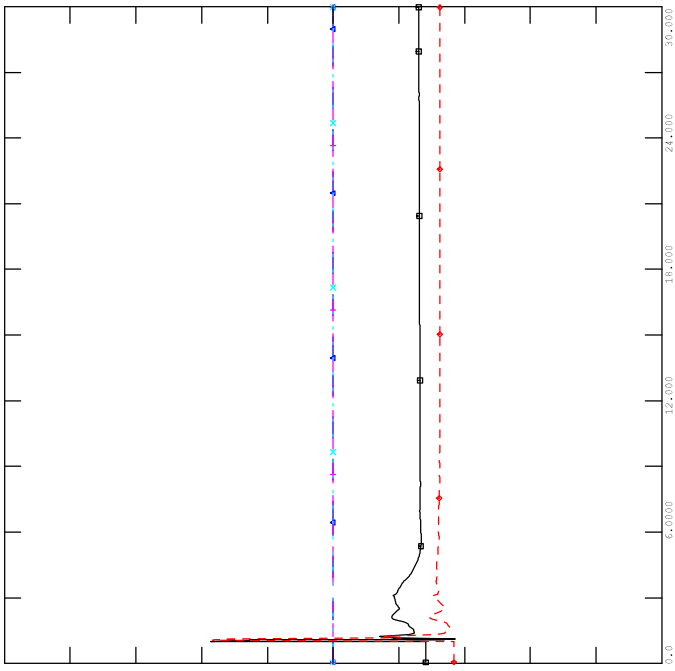
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

FILE: scn9_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:19
REACTIVE POWER

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1]
0.50000 -0.5000
CHNL# 197: [VARS_60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 198: [VARS_61736[BSR_4 0.6900]1]
1.3387 -0.2420
CHNL# 203: [VARS560026[TRAVERS_1A 0.4800]G1]
0.50000 -0.5000
CHNL# 169: [VARS_3251[CARSELA2 13.800]2]
1.0091 -0.5821

TIME (SECONDS)



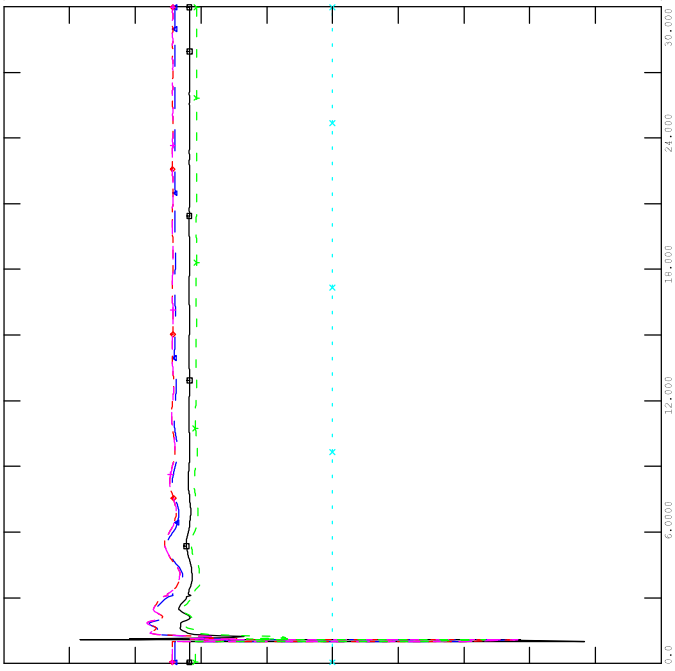
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

FILE: scn9_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

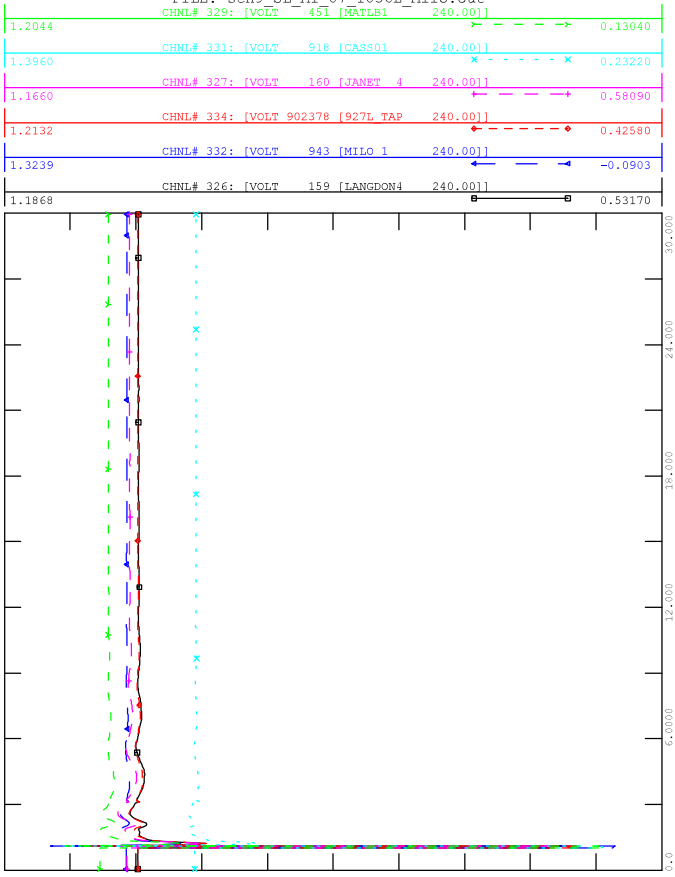
CHNL# 272: [ETRM_3247[CAVAL A 13.800]1]
1.1487 0.77540
CHNL# 264: [ETRM_3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 263: [ETRM_775[SECCT2 21.000]3]
1.1178 0.65860
CHNL# 262: [ETRM_774[SECCT1 21.000]2]
1.1178 0.65860
CHNL# 261: [ETRM_773[SECST 20.000]1]
1.1178 0.66530
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.2921 0.43410

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

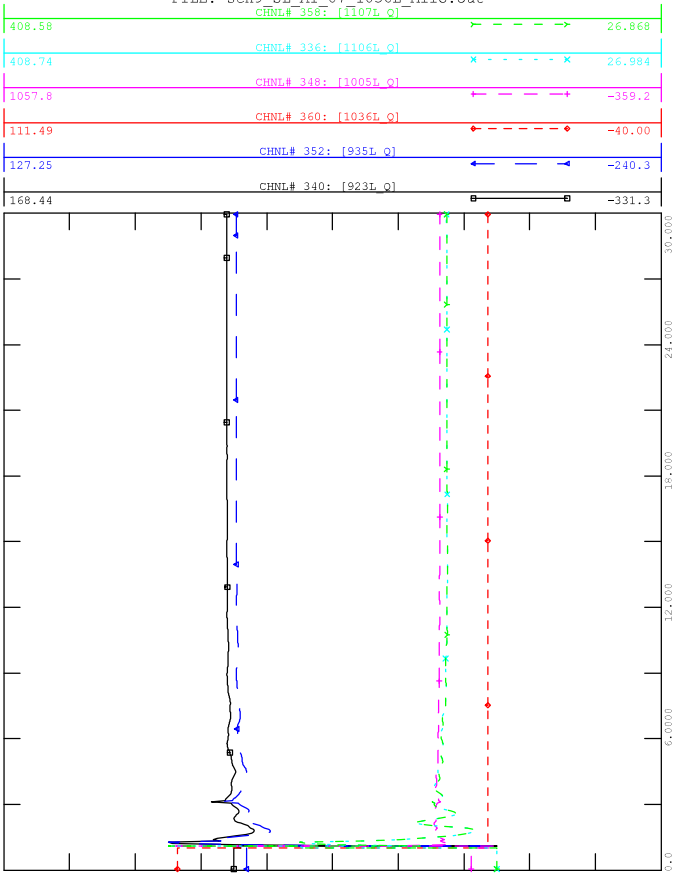
FILE: scn9_SL_A1_07_1036L_Milo.out



SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

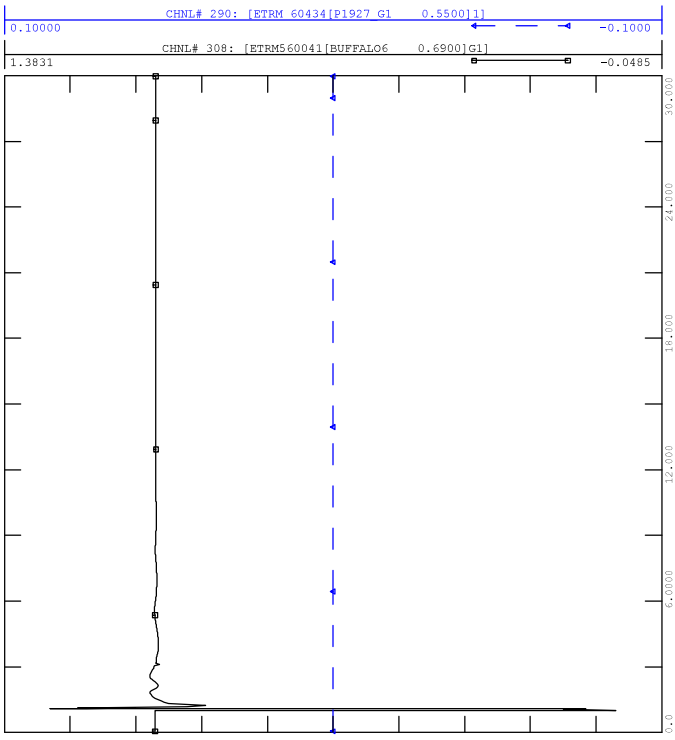
FILE: scn9_SL_A1_07_1036L_Milo.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

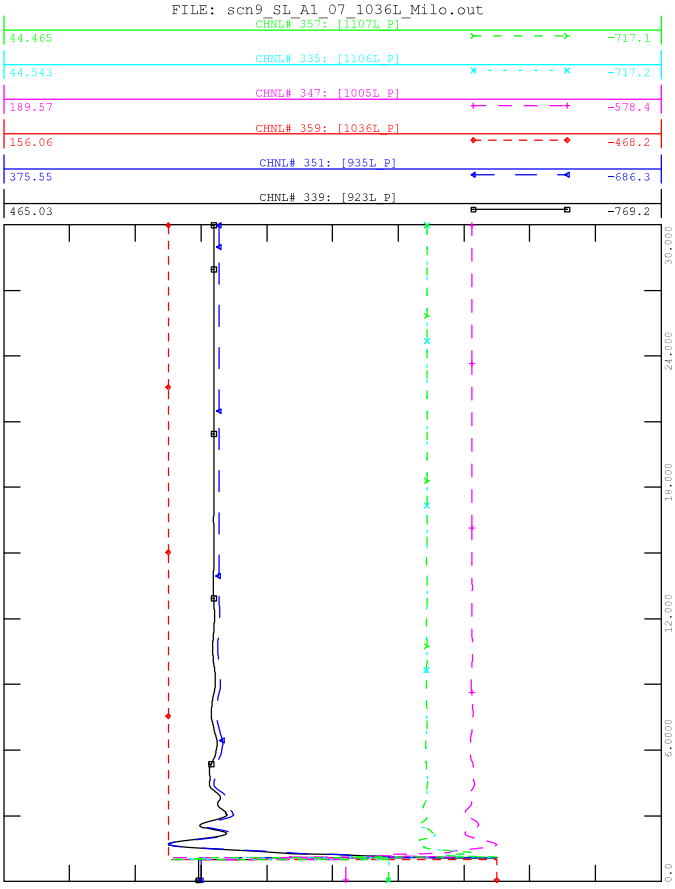
FILE: scn9_SL_A1_07_1036L_Milo.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

FILE: scn9_SL_A1_07_1036L_Milo.out



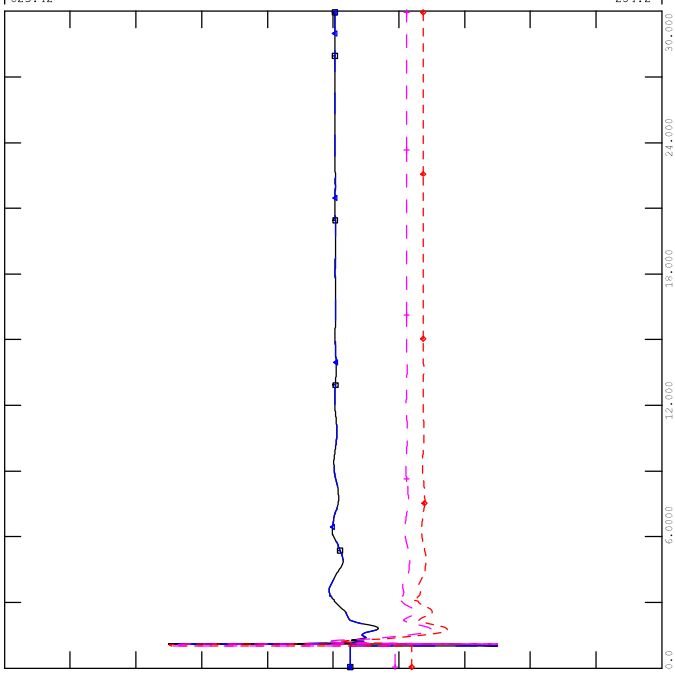
SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

FILE: scn9_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:19 BRANCH Q

CHNL# 354: [927L A1 1 Q] 860.30 -406.7
CHNL# 372: [924L Q] 837.98 -359.5
CHNL# 342: [1003L Q] 615.84 -251.4
CHNL# 366: [985L Q] 623.42 -254.2

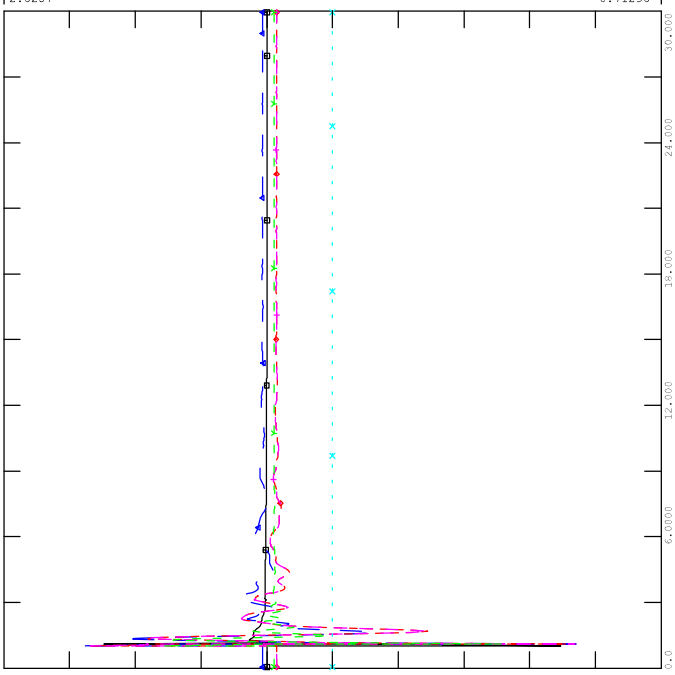


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS

FILE: scn9_SL_A1_08_1036L_Travers.out

SAT, MAY 21 2022 1:19 ACTIVE POWER

CHNL# 116: [POWR 3247[CAVAL A 13.800]1] 0.59610 -0.2353
CHNL# 108: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3] 2.0533 0.53220
CHNL# 106: [POWR 774[SECCT1 21.000]2] 2.0533 0.53220
CHNL# 105: [POWR 773[SECST 20.000]1] 2.5843 0.83470
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1] 2.0257 0.71290

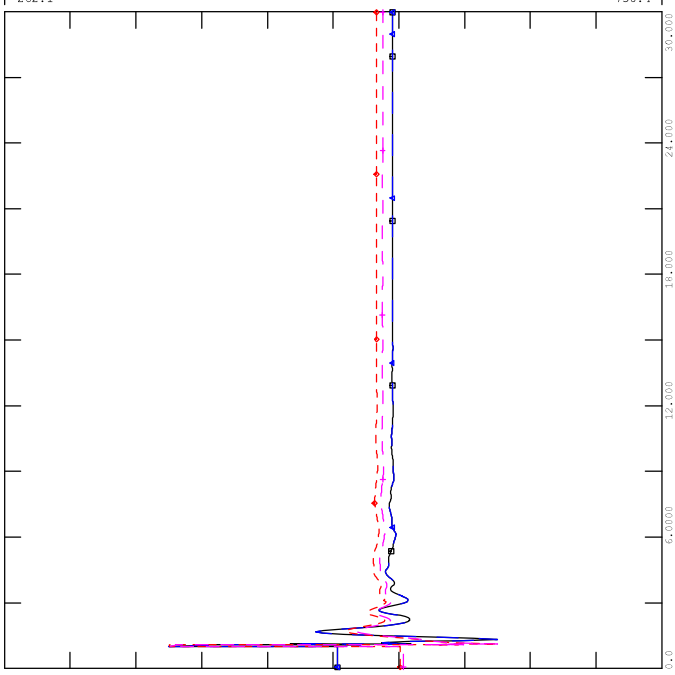


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_07_1036L_MILO

FILE: scn9_SL_A1_07_1036L_Milo.out

SAT, MAY 21 2022 1:19 BRANCH P

CHNL# 353: [927L A1 1 P] 429.60 -1114.
CHNL# 371: [924L P] 437.15 -930.7
CHNL# 341: [1003L P] -259.0 -722.2
CHNL# 365: [985L P] -262.1 -730.4

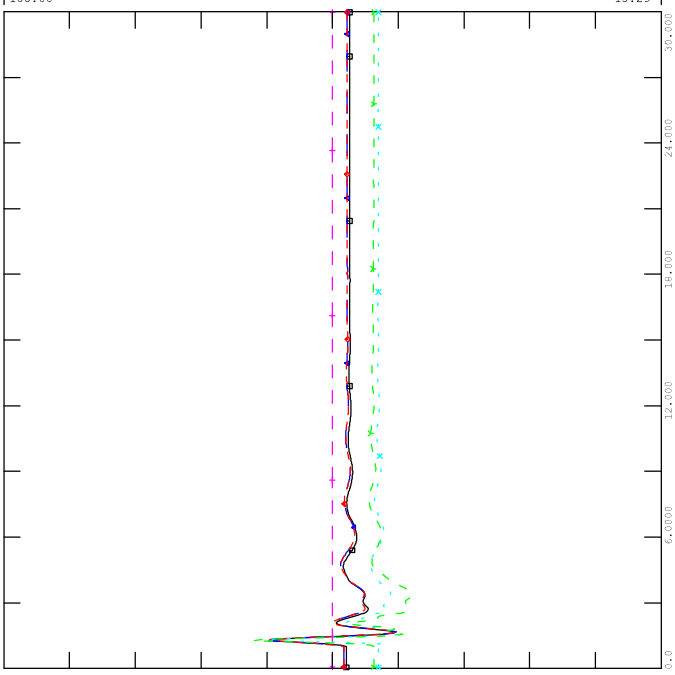


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS

FILE: scn9_SL_A1_08_1036L_Travers.out

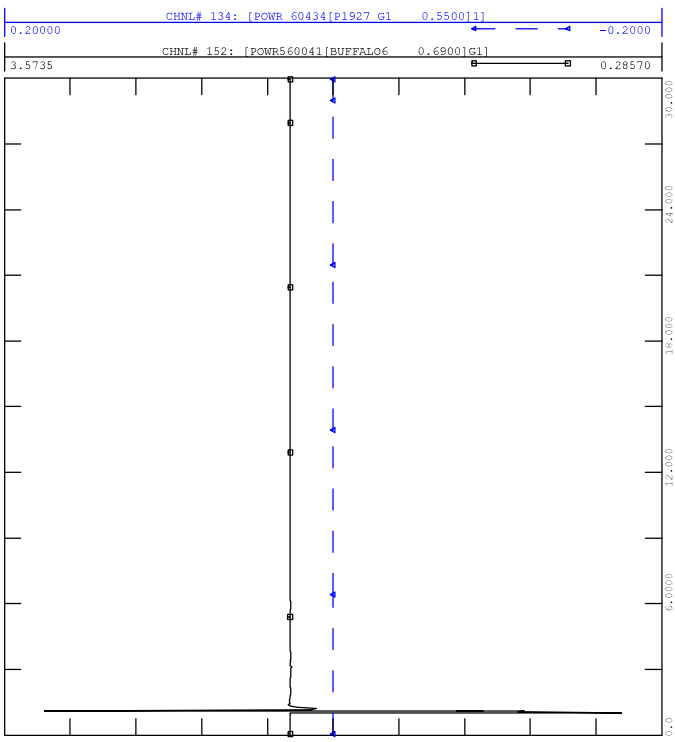
SAT, MAY 21 2022 1:19 ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSBLA2 13.800]2] 131.53 -0.3668
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 104.36 -21.37
CHNL# 4: [ANGL 3187[CECST 13.200]2] 50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 106.86 -17.23
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 106.86 -17.23
CHNL# 1: [ANGL 773[SECST 20.000]1] 108.00 -15.29



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS

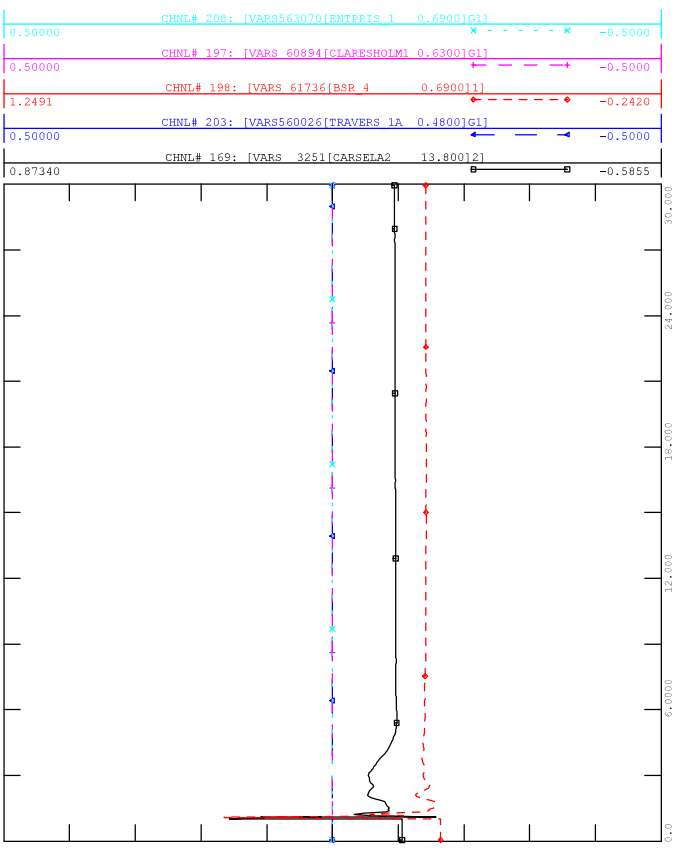
FILE: scn9_SL_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS

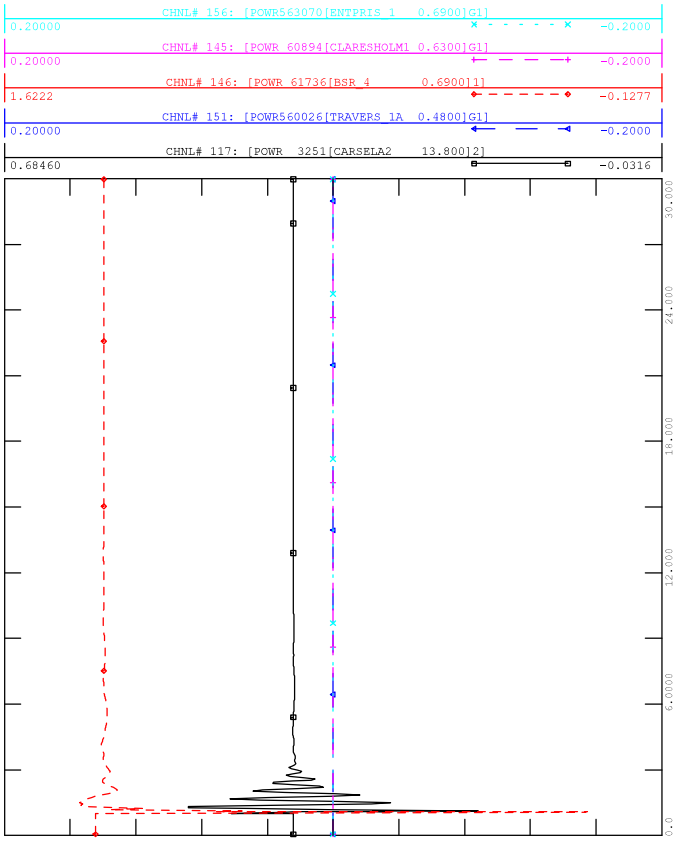
FILE: scn9_SL_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS

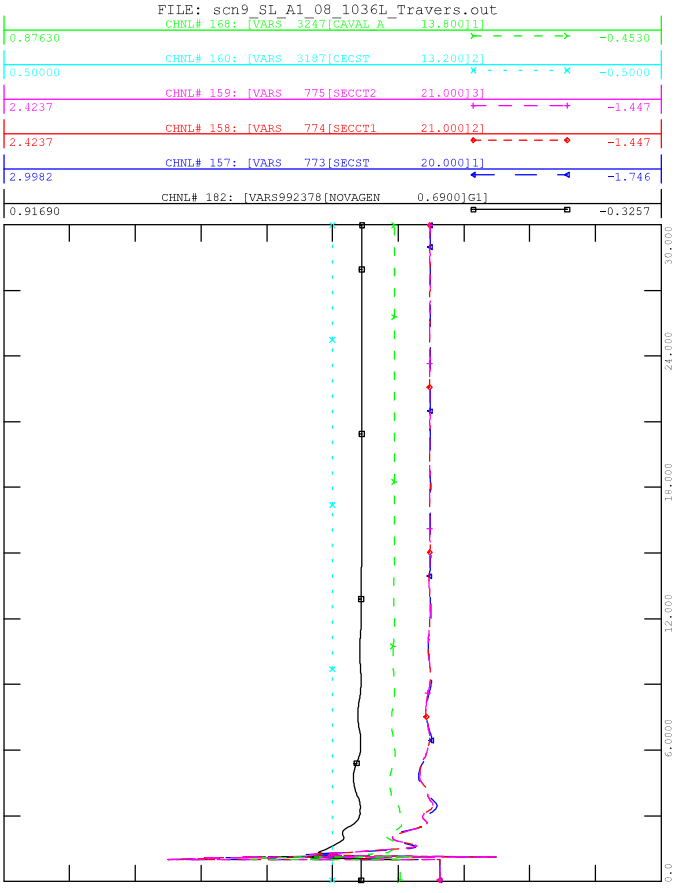
FILE: scn9_SL_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS

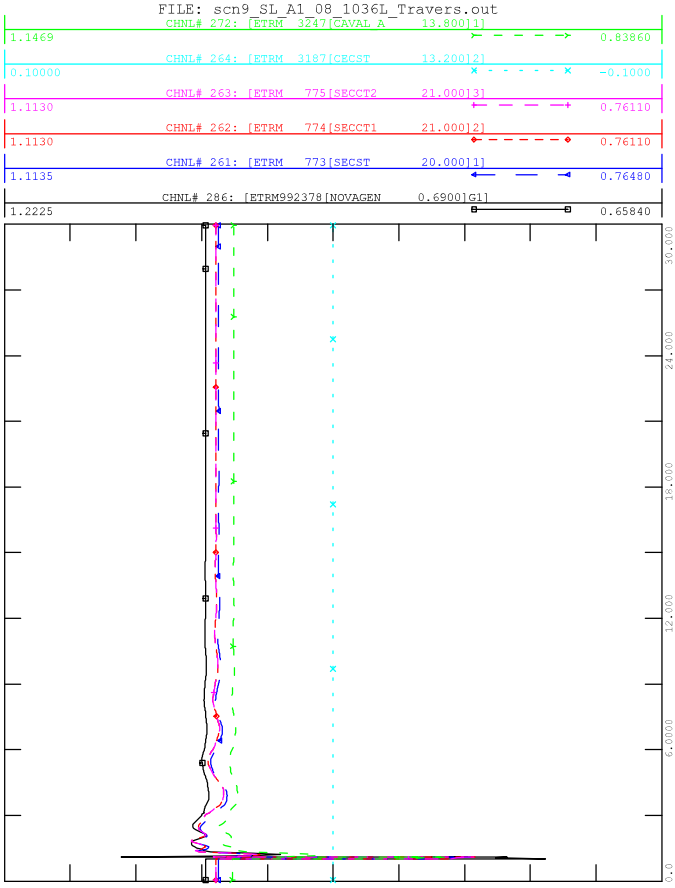
FILE: scn9_SL_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS

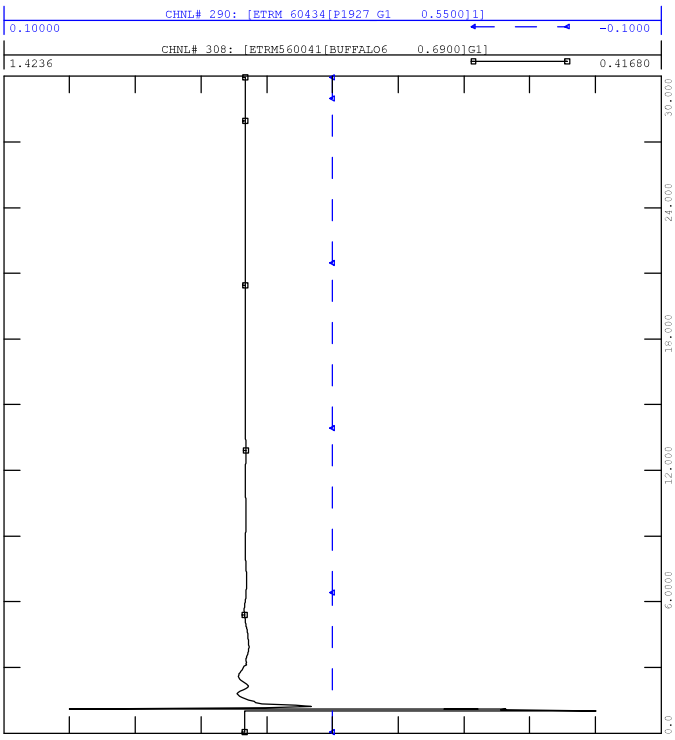
FILE: scn9_SL_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS

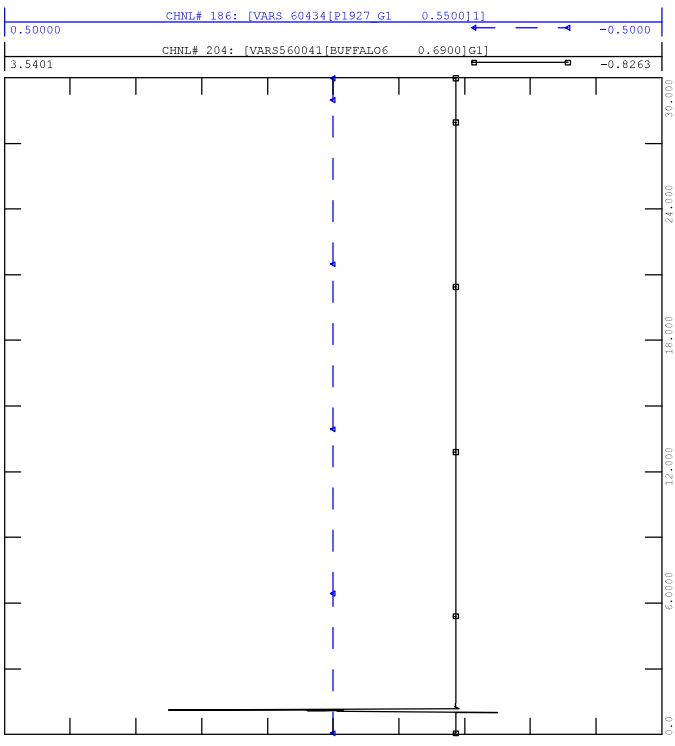
FILE: scn9_SL_A1_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS

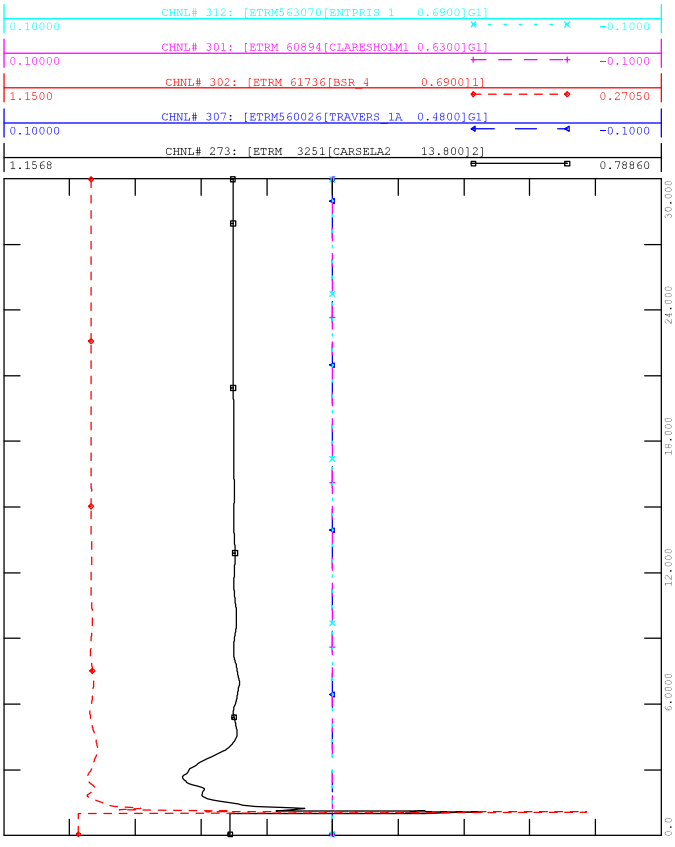
FILE: scn9_SL_A1_08_1036L_Travers.out



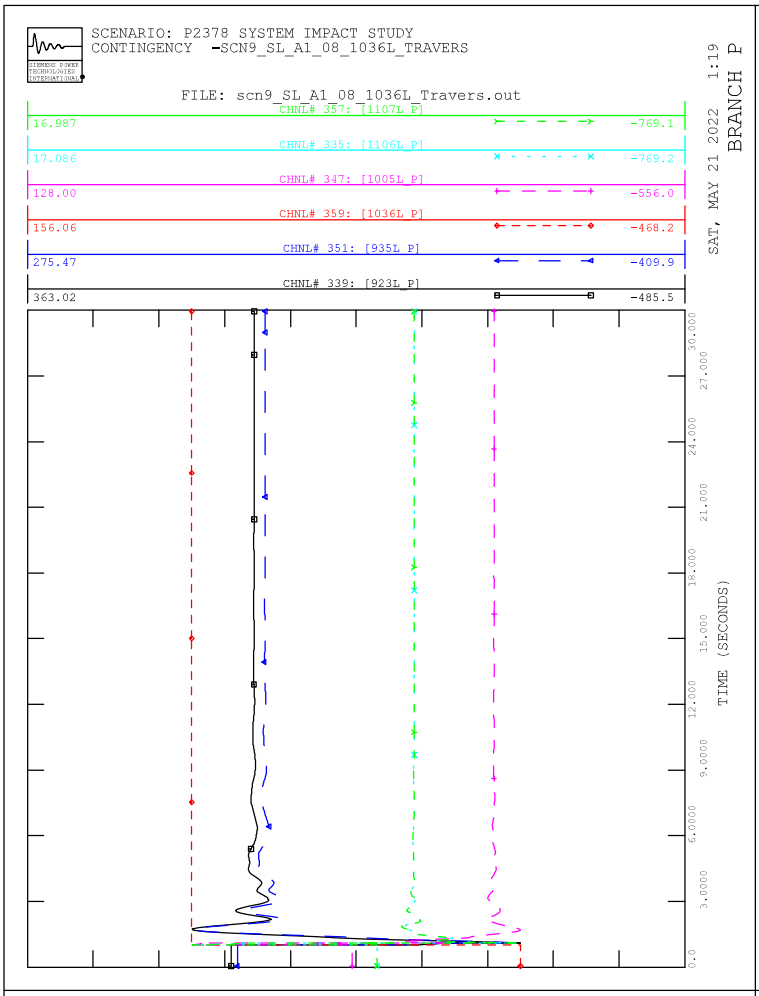
SAT, MAY 21 2022 1:19
REACTIVE POWER

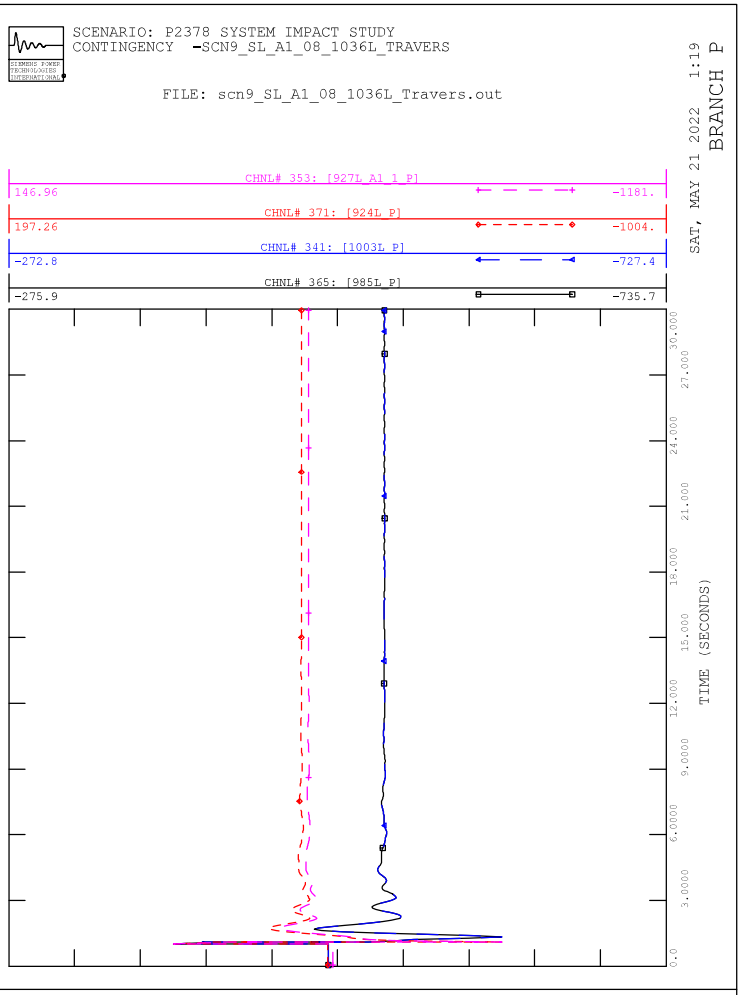
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS

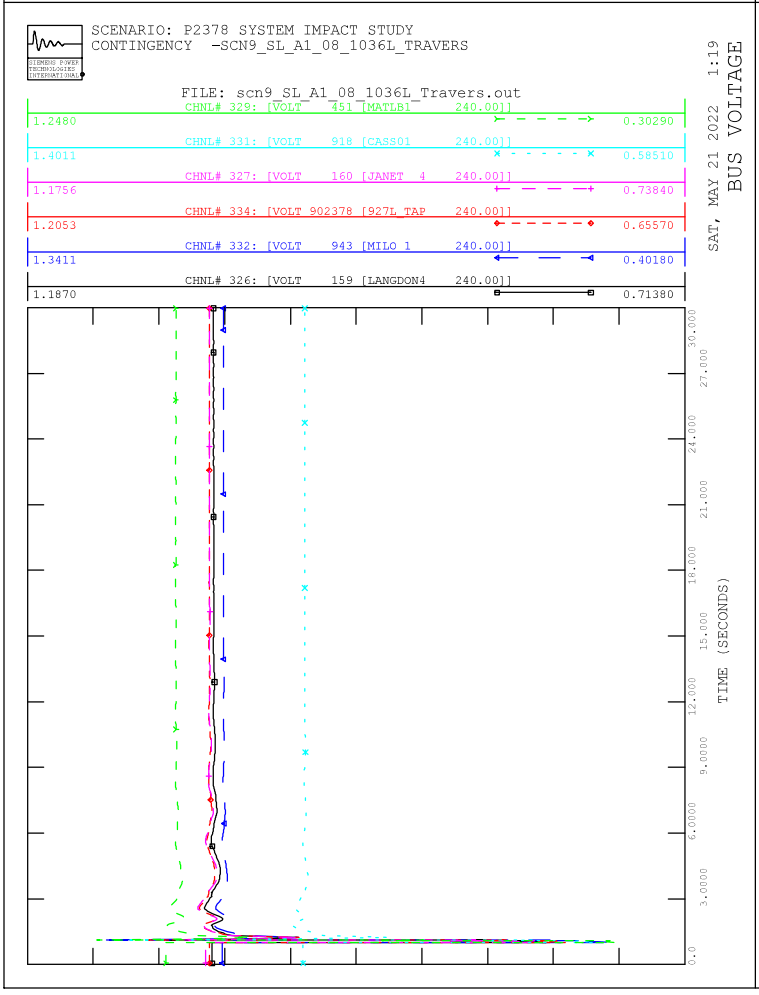
FILE: scn9_SL_A1_08_1036L_Travers.out

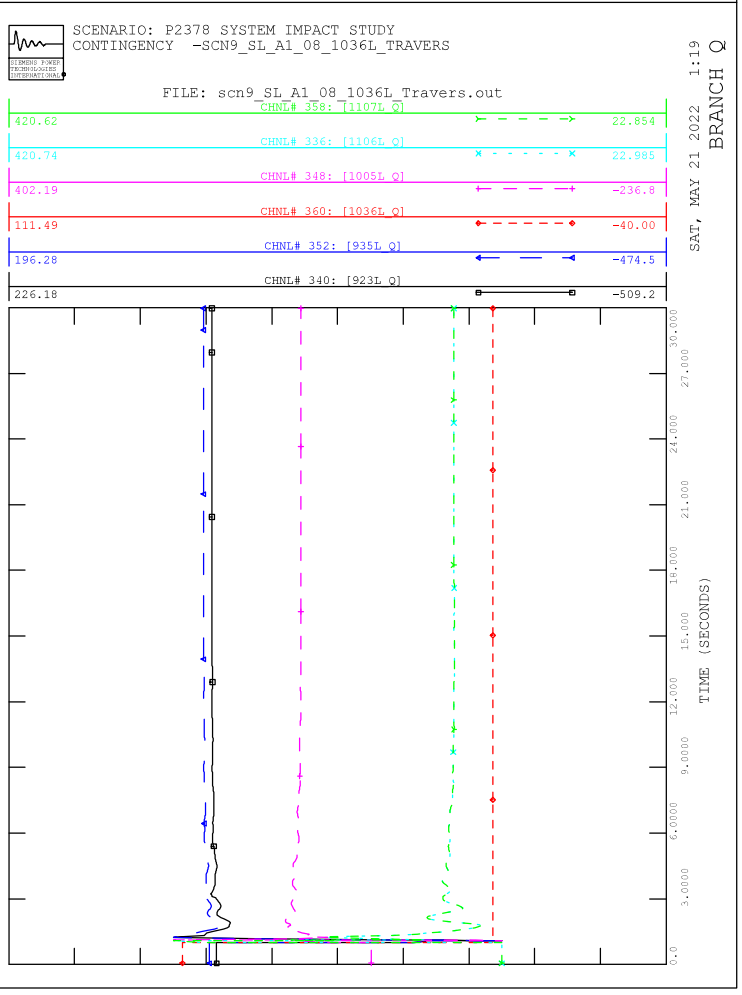


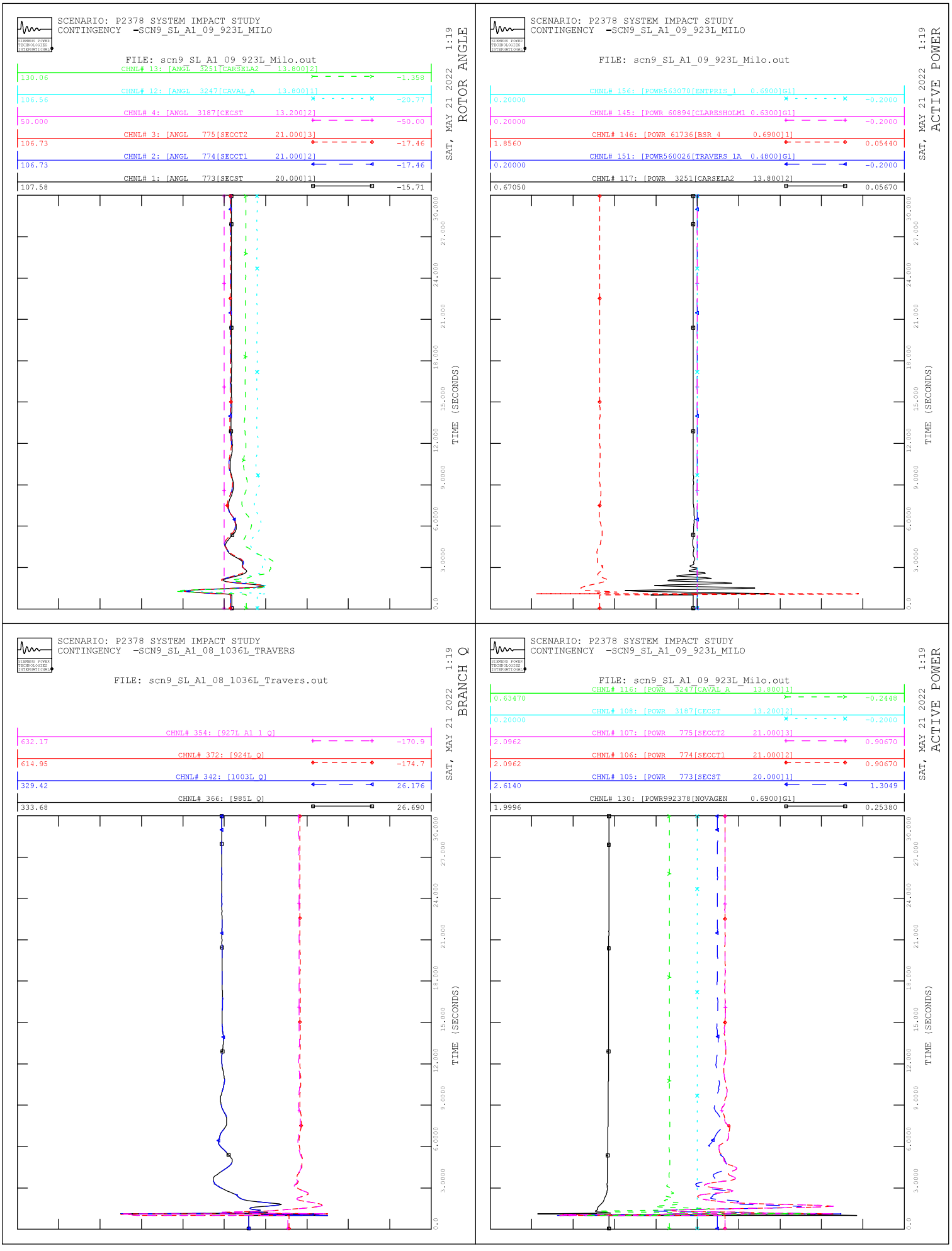
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS
FILE: scn9_SL_A1_08_1036L_Travers.out
CHNL# 357: [1107L P]
16.987
-769.1
CHNL# 335: [1106L P]
17.086
-769.2
CHNL# 347: [1005L P]
128.00
-556.0
CHNL# 359: [1036L P]
156.06
-468.2
CHNL# 351: [935L P]
275.47
-409.9
CHNL# 339: [923L P]
363.02
-485.5
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:19
BRANCH P


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS
FILE: scn9_SL_A1_08_1036L_Travers.out
CHNL# 353: [927L A1_1 P]
146.96
-1181.
CHNL# 371: [924L P]
197.26
-1004.
CHNL# 341: [1003L P]
-272.8
-727.4
CHNL# 365: [985L P]
-275.9
-735.7
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:19
BRANCH P


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS
FILE: scn9_SL_A1_08_1036L_Travers.out
CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.2480
0.30290
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.4011
0.58510
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1756
0.73840
CHNL# 334: [VOLT 902378 [927L_TAP 240.00]]
1.2053
0.65570
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.3411
0.40180
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1870
0.71380
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:19
BUS VOLTAGE


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS
FILE: scn9_SL_A1_08_1036L_Travers.out
CHNL# 358: [1107L Q]
420.62
22.854
CHNL# 336: [1106L Q]
420.74
22.985
CHNL# 348: [1005L Q]
402.19
-236.8
CHNL# 360: [1036L Q]
111.49
-40.00
CHNL# 352: [935L Q]
196.28
-474.5
CHNL# 340: [923L Q]
226.18
-509.2
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
TIME (SECONDS)
SAT, MAY 21 2022 1:19
BRANCH Q

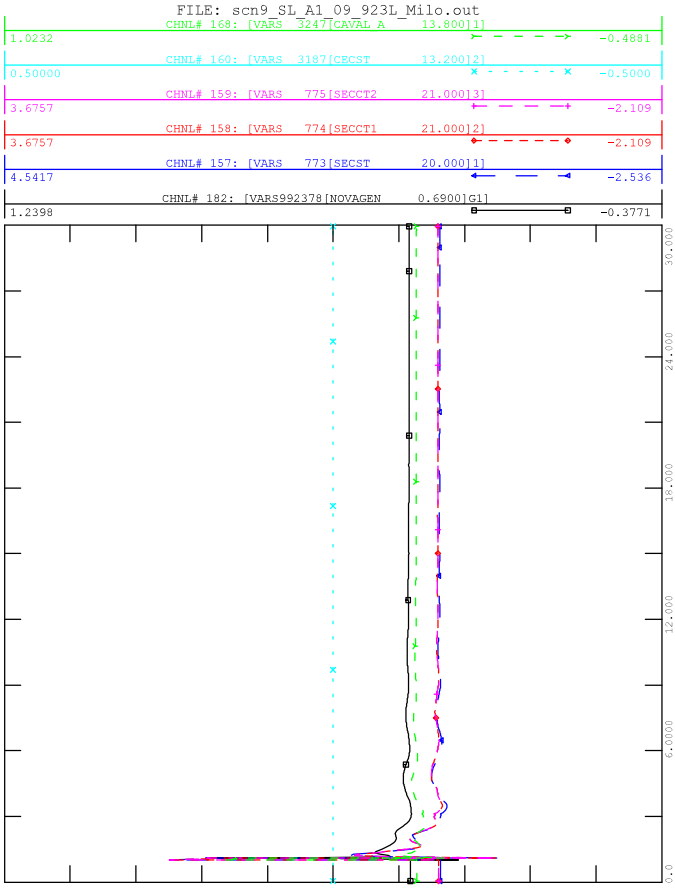

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
130.06
-1.358
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
106.56
-20.77
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
106.73
-17.46
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
106.73
-17.46
CHNL# 1: [ANGL 773[SECST 20.000]1]
107.58
-15.71
SAT, MAY 21 2022 1:19
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.20000
-0.2000
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.8560
0.05440
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.67050
0.05670
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_08_1036L_TRAVERS
FILE: scn9_SL_A1_08_1036L_Travers.out
CHNL# 354: [927L A1 1 Q]
632.17
-170.9
CHNL# 372: [924L Q]
614.95
-174.7
CHNL# 342: [1003L Q]
329.42
26.176
CHNL# 366: [985L Q]
333.68
26.690
SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.63470
-0.2448
CHNL# 108: [POWR 3187[CECST 13.200]2]
0.20000
-0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3]
2.0962
0.90670
CHNL# 106: [POWR 774[SECCT1 21.000]2]
2.0962
0.90670
CHNL# 105: [POWR 773[SECST 20.000]1]
2.6140
1.3049
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.9996
0.25380
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO

FILE: scn9_SL_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

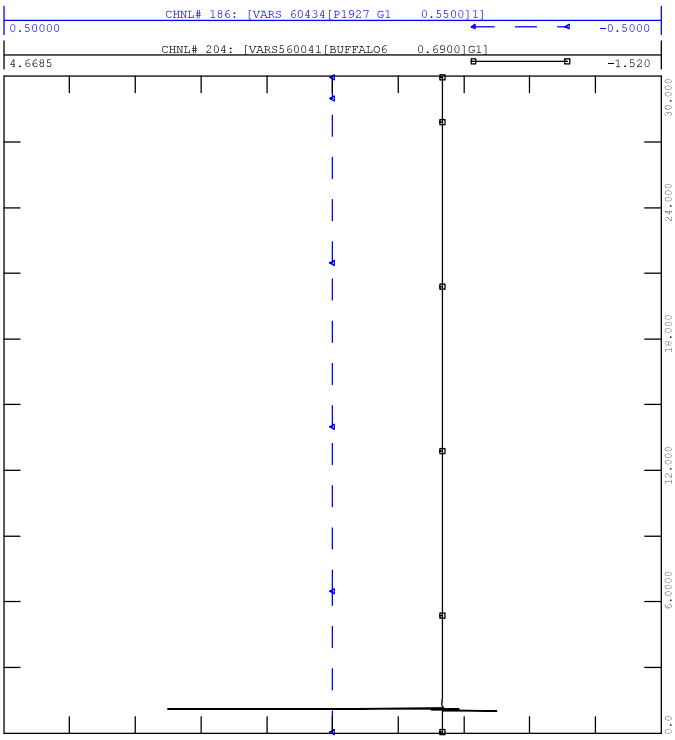


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO

FILE: scn9_SL_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

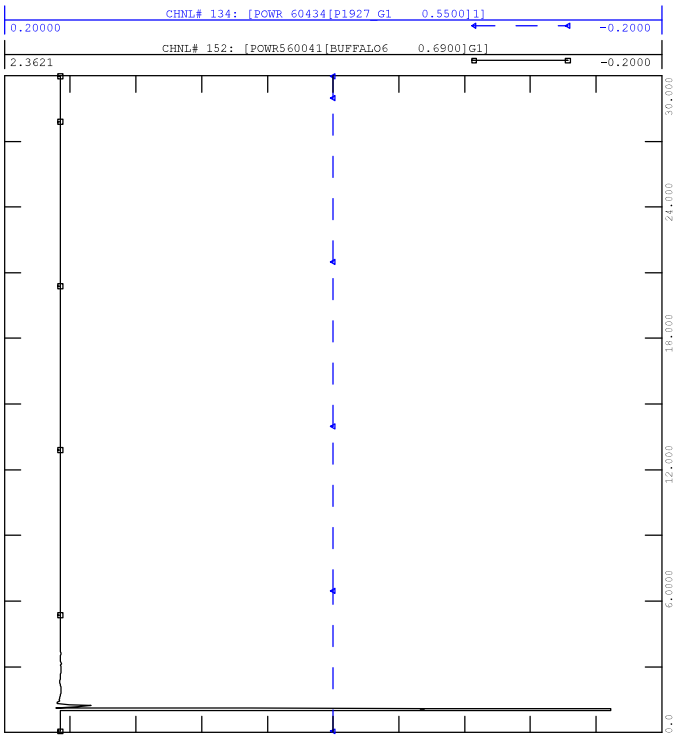


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO

FILE: scn9_SL_A1_09_923L_Milo.out

SAT, MAY 21 2022 1:19

ACTIVE POWER

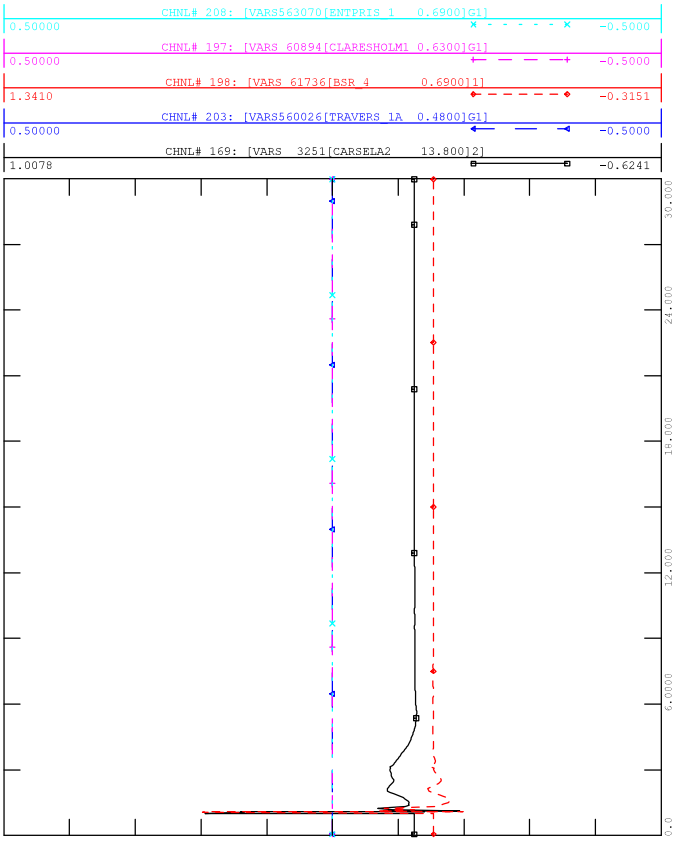


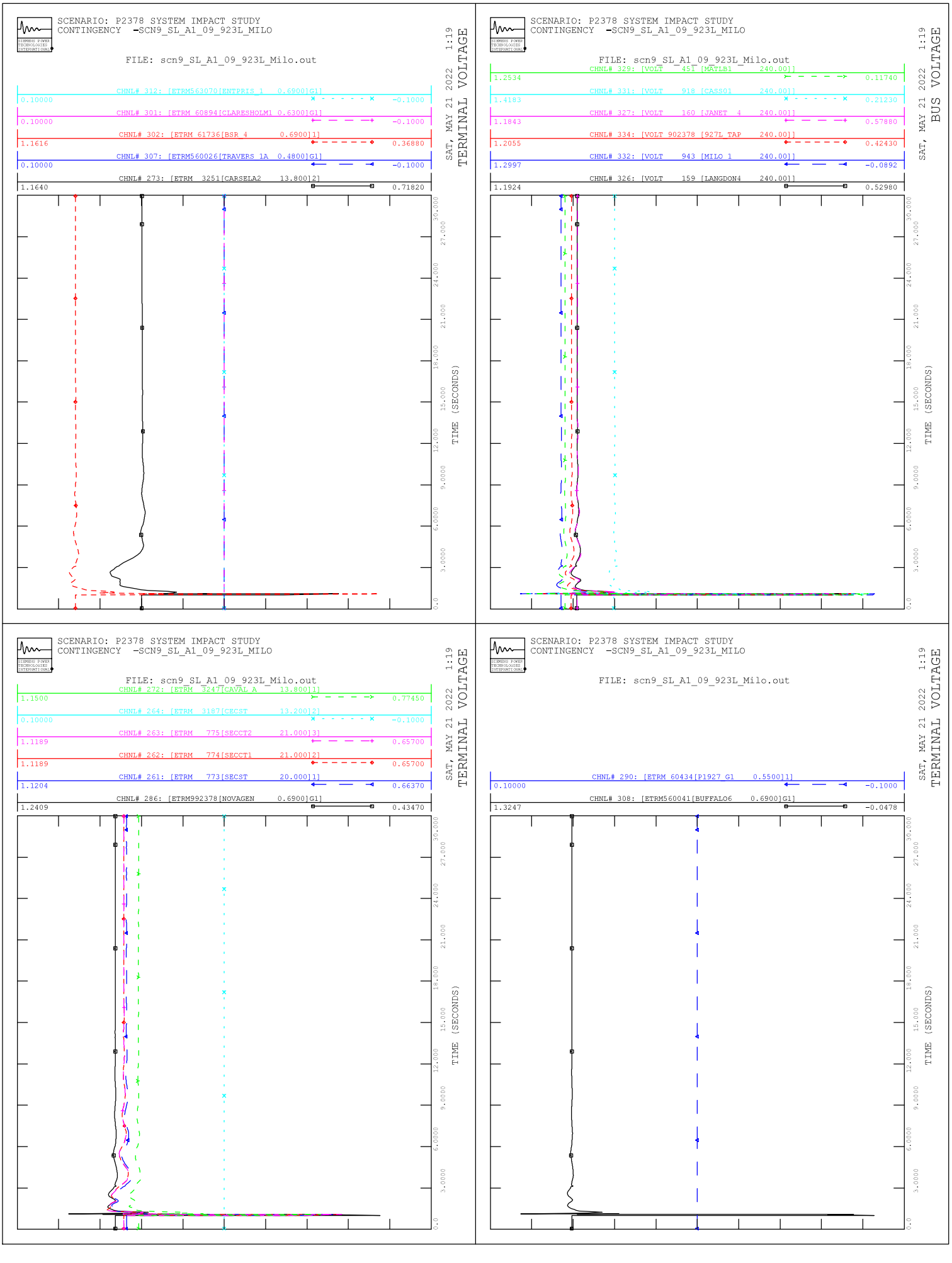
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO

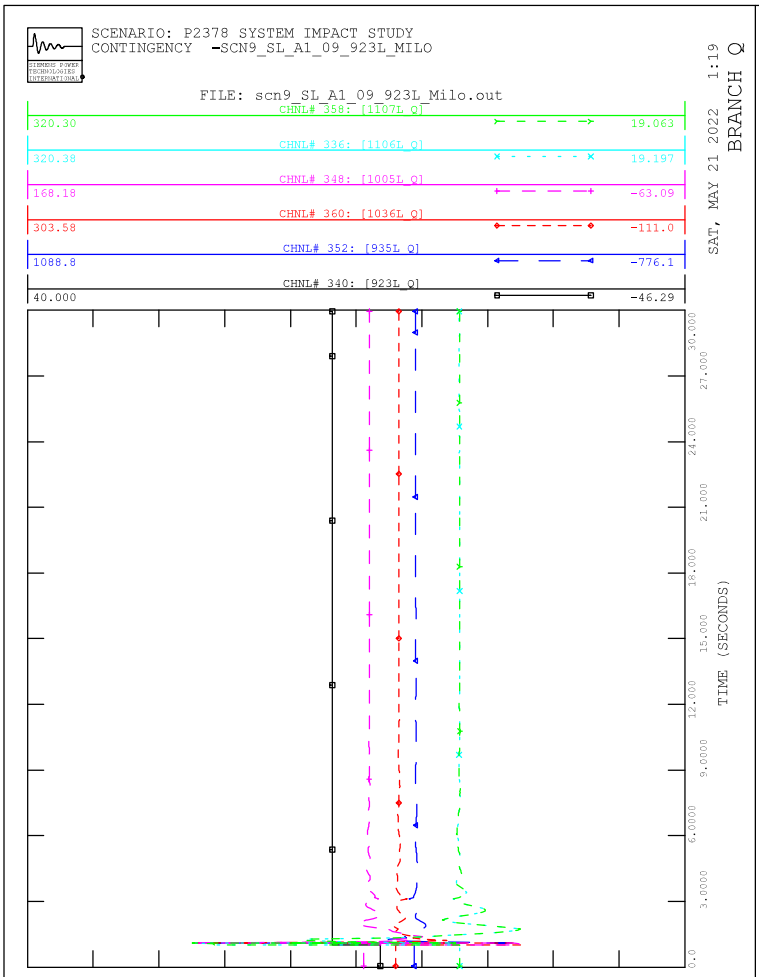
FILE: scn9_SL_A1_09_923L_Milo.out

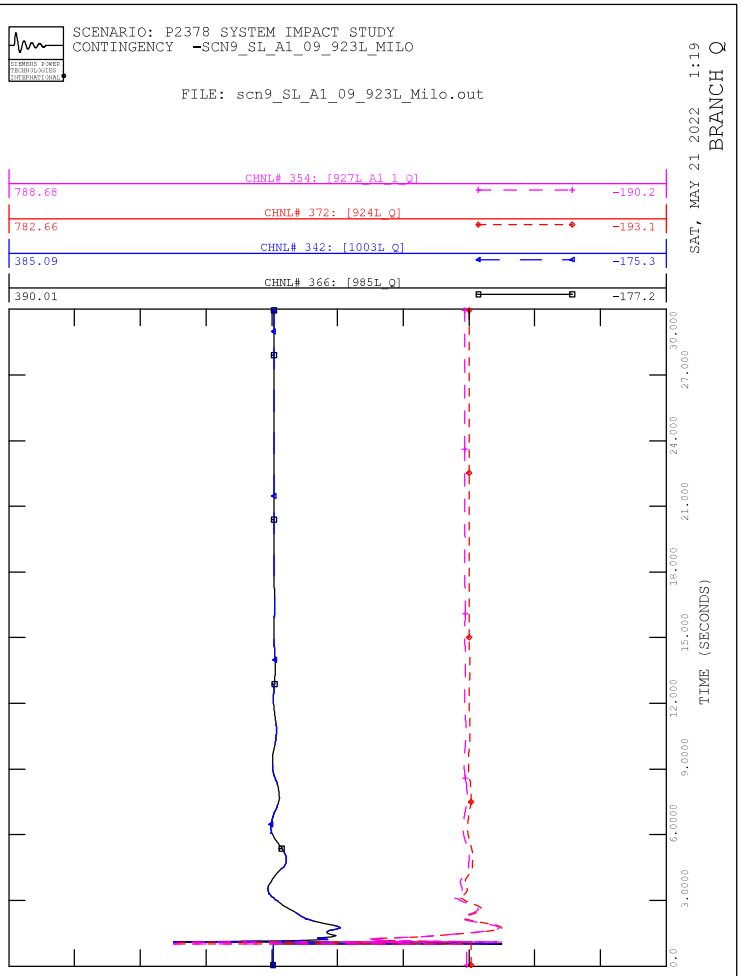
SAT, MAY 21 2022 1:19

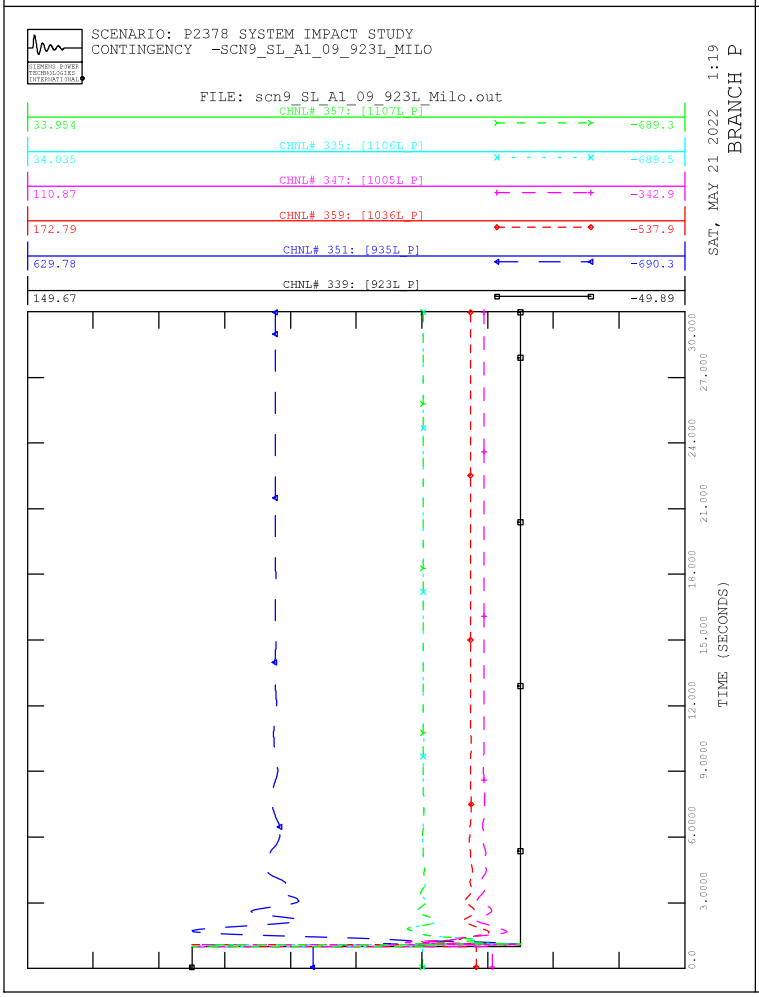
REACTIVE POWER

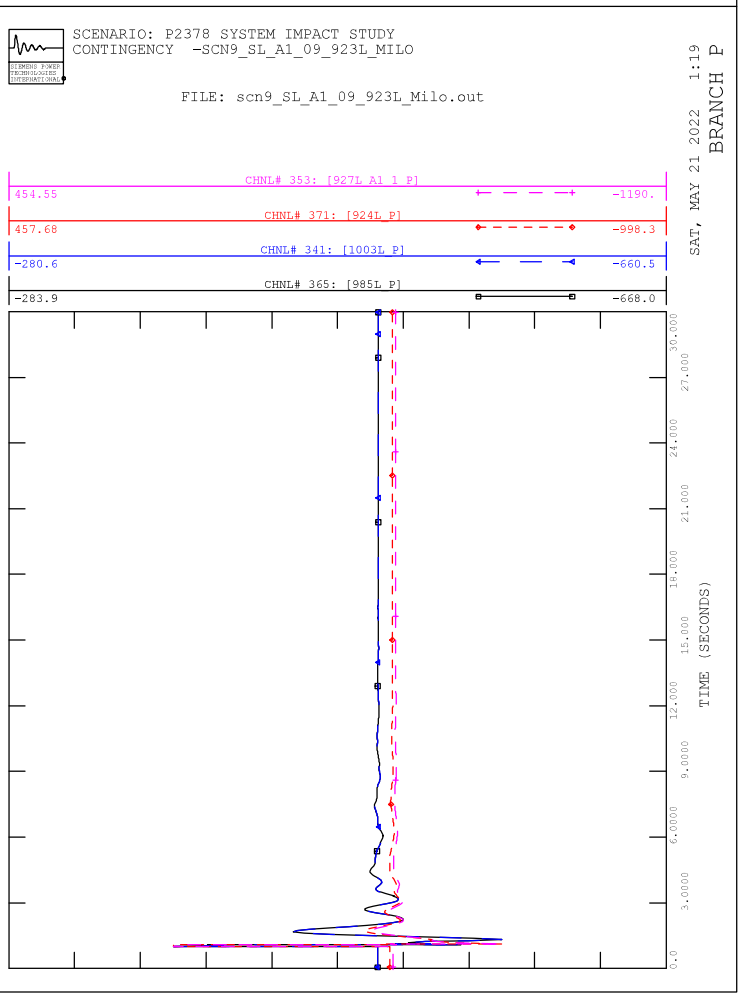


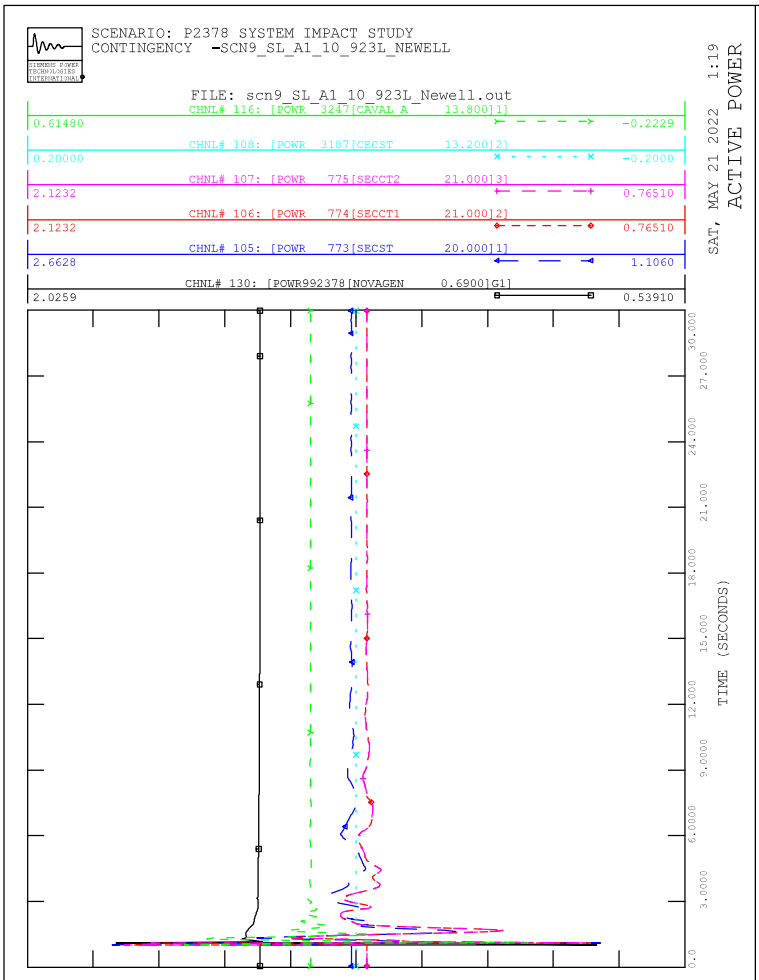

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1]
0.10000 -0.1000
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 302: [ETRM 61736[BSR_4 0.6900]1]
1.1616 0.36880
CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1640 0.71820
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
SAT, MAY 21 2022 1:19
BUS VOLTAGE
CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.2534 0.11740
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.4183 0.21230
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1843 0.57880
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.2055 0.42430
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.2997 -0.0892
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1924 0.52980
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1500 0.77450
CHNL# 264: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1189 0.65700
CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1189 0.65700
CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1204 0.66370
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.2409 0.43470
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.3247 -0.0478
TIME (SECONDS)

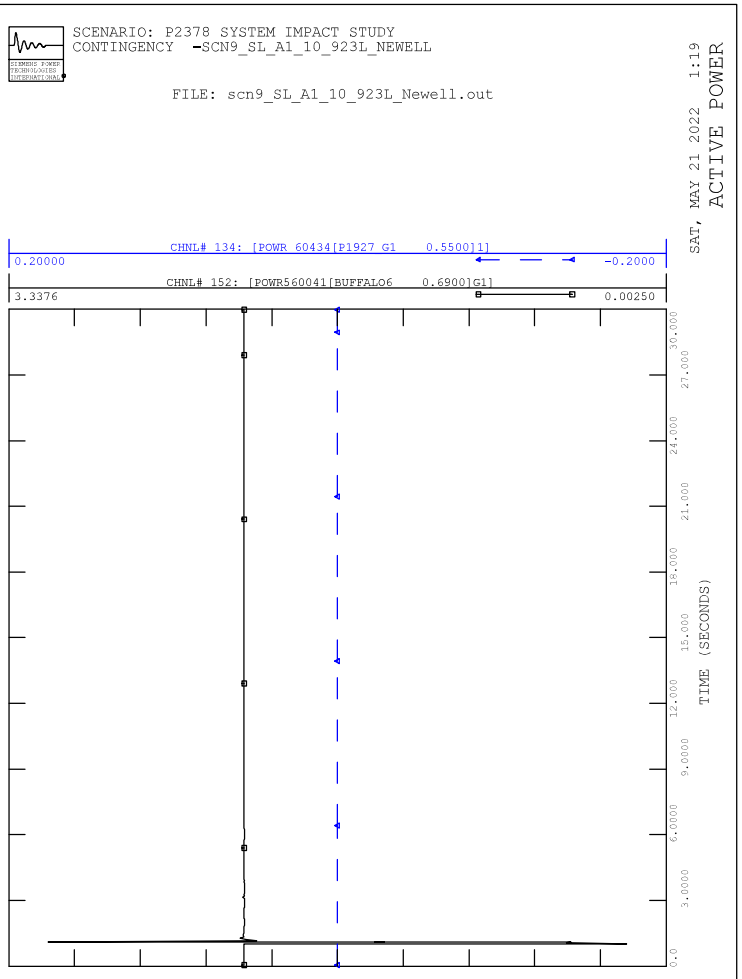

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
CHNL# 358: [1107L Q]
320.30
19.063
CHNL# 336: [1106L Q]
320.38
19.197
CHNL# 348: [1005L Q]
168.18
-63.09
CHNL# 360: [1036L Q]
303.58
-111.0
CHNL# 352: [935L Q]
1088.8
-776.1
CHNL# 340: [923L Q]
40.000
-46.29
SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

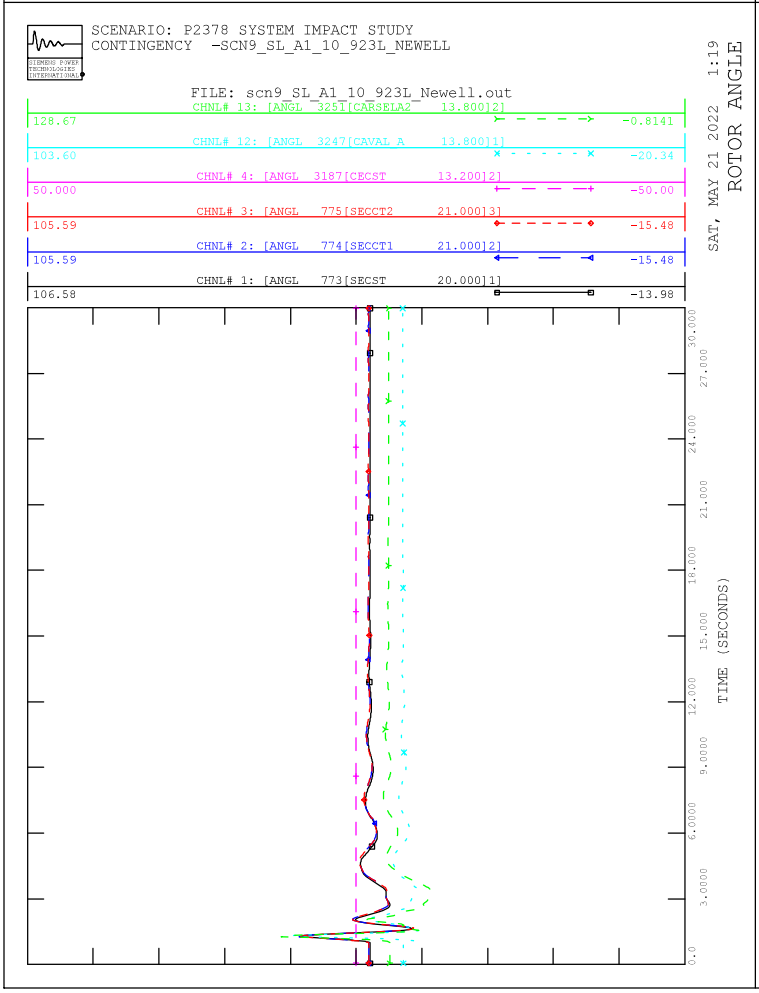

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
CHNL# 354: [927L A1 1 Q]
788.68
-190.2
CHNL# 372: [924L Q]
782.66
-193.1
CHNL# 342: [1003L Q]
385.09
-175.3
CHNL# 366: [985L Q]
390.01
-177.2
SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

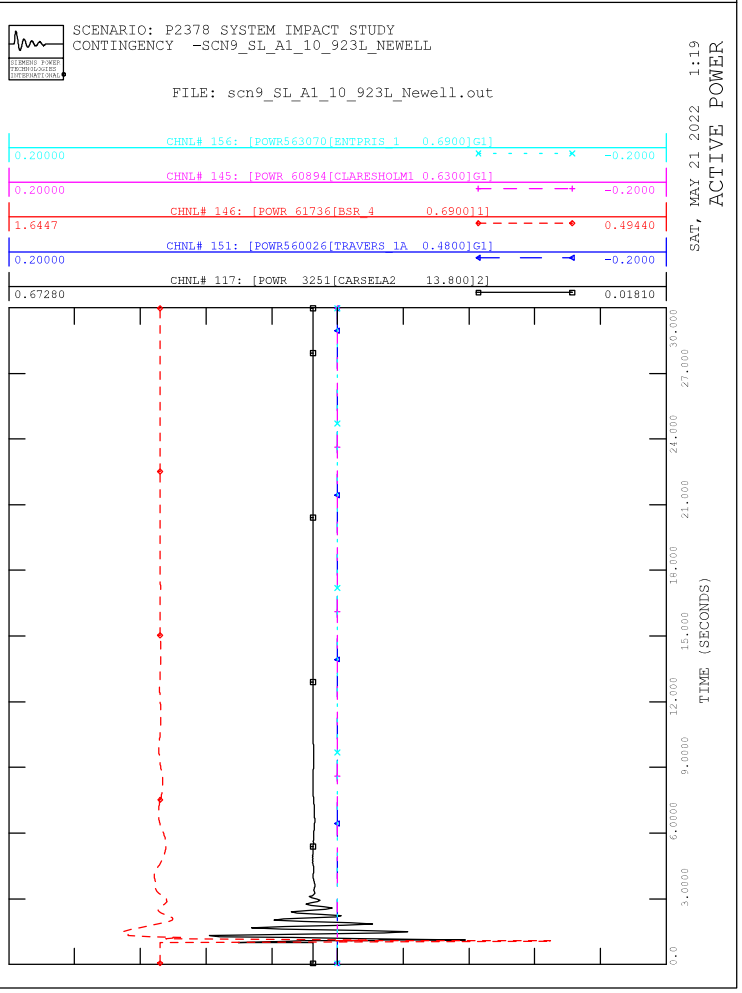

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
CHNL# 357: [1107L P]
33.954
-689.3
CHNL# 335: [1106L P]
34.035
-689.5
CHNL# 347: [1005L P]
110.87
-342.9
CHNL# 359: [1036L P]
172.79
-537.9
CHNL# 351: [935L P]
629.78
-690.3
CHNL# 339: [923L P]
149.67
-49.89
SAT, MAY 21 2022 1:19
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_09_923L_MILO
FILE: scn9_SL_A1_09_923L_Milo.out
CHNL# 353: [927L A1 1 P]
454.55
-1190.
CHNL# 371: [924L P]
457.68
-998.3
CHNL# 341: [1003L P]
-280.6
-660.5
CHNL# 365: [985L P]
-283.9
-668.0
SAT, MAY 21 2022 1:19
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL
FILE: scn9_SL_A1_10_923L_Newell.out
CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.61480
-0.2229
CHNL# 108: [POWR 3187[CECST 13.200]2]
0.20000
-0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3]
2.1232
0.76510
CHNL# 106: [POWR 774[SECCT1 21.000]2]
2.1232
0.76510
CHNL# 105: [POWR 773[SECST 20.000]1]
2.6628
1.1060
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
2.0259
0.53910
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL
FILE: scn9_SL_A1_10_923L_Newell.out
CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
0.20000
-0.2000
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
3.3376
0.00250
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL
FILE: scn9_SL_A1_10_923L_Newell.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
128.67
-0.8141
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
103.60
-20.34
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
105.59
-15.48
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
105.59
-15.48
CHNL# 1: [ANGL 773[SECST 20.000]1]
106.58
-13.98
SAT, MAY 21 2022 1:19
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL
FILE: scn9_SL_A1_10_923L_Newell.out
CHNL# 156: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000
-0.2000
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.6447
0.49440
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.67280
0.01810
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

FILE: scn9_SL_A1_10_923L_Newell.out

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1]
0.50000 -0.5000
CHNL# 197: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 198: [VARS 61736[BSR_4 0.6900]1]
1.2912 -0.2685
CHNL# 203: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 169: [VARS 3251[CARSELA2 13.800]2]
0.88880 -0.6166

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

FILE: scn9_SL_A1_10_923L_Newell.out

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1]
1.1481 0.82810
CHNL# 264: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 263: [ETRM 775[SECCT2 21.000]3]
1.1137 0.73770
CHNL# 262: [ETRM 774[SECCT1 21.000]2]
1.1137 0.73770
CHNL# 261: [ETRM 773[SECST 20.000]1]
1.1153 0.74170
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1]
1.2283 0.58240

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

FILE: scn9_SL_A1_10_923L_Newell.out

CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
0.91240 -0.4769
CHNL# 160: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 159: [VARS 775[SECCT2 21.000]3]
2.8242 -1.708
CHNL# 158: [VARS 774[SECCT1 21.000]2]
2.8242 -1.708
CHNL# 157: [VARS 773[SECST 20.000]1]
3.4944 -2.069
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
0.94820 -0.3431

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

FILE: scn9_SL_A1_10_923L_Newell.out

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1]
3.6470 -0.9735

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

FILE: scn9_SL_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.4022 0.25340

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

FILE: scn9_SL_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:19 BRANCH P

CHNL# 357: [1107L P]
-32.50 -693.3
CHNL# 335: [1106L P]
-32.43 -693.4
CHNL# 347: [1005L P]
24.053 -296.6
CHNL# 359: [1036L P]
-2.018 -429.4
CHNL# 351: [935L P]
534.03 -561.7
CHNL# 339: [923L P]
149.67 -49.89

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

FILE: scn9_SL_A1_10_923L_Newell.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1604 0.52960
CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1616 0.78470

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

FILE: scn9_SL_A1_10_923L_Newell.out

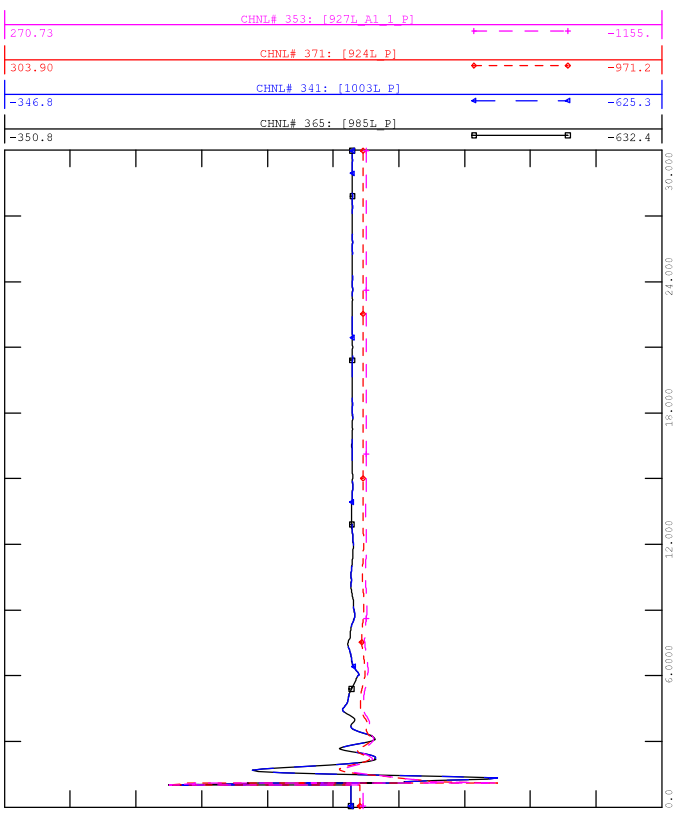
SAT, MAY 21 2022 1:19 BUS VOLTAGE

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.2699 0.33050
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.4016 -0.0210
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1837 0.69940
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.2064 0.58440
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.3132 0.23570
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1922 0.66170

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

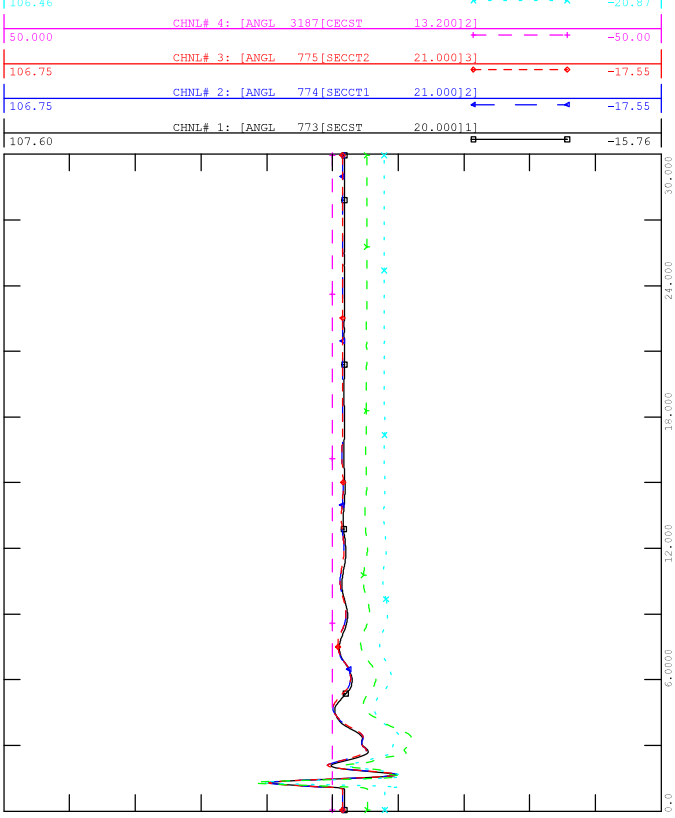
FILE: scn9_SL_A1_10_923L_Newell.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

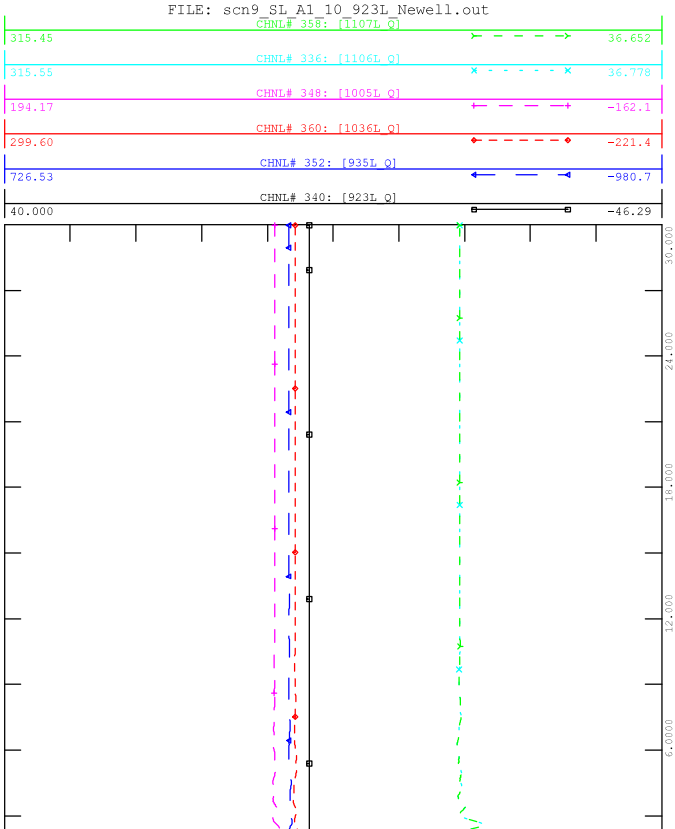
FILE: scn9_SL_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

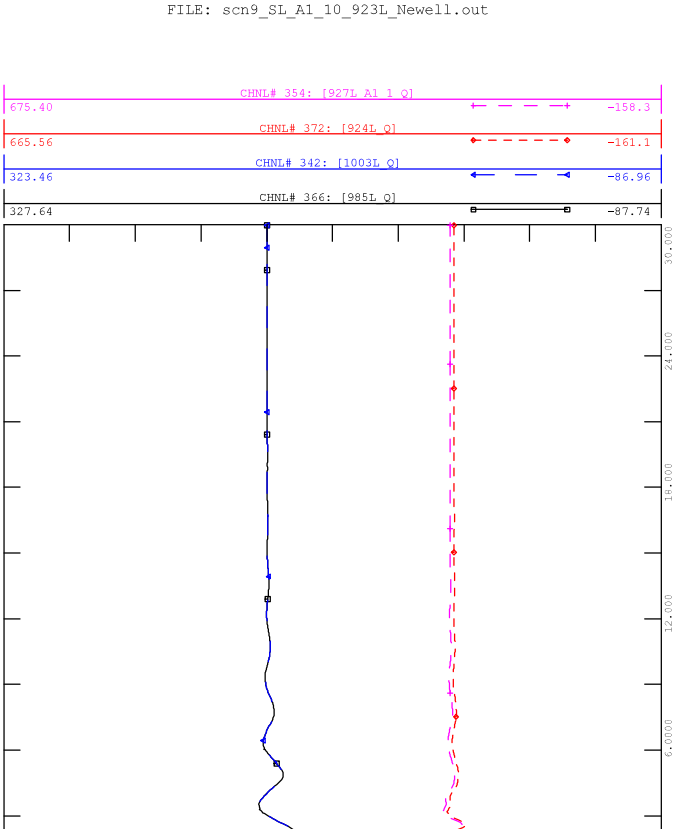
FILE: scn9_SL_A1_10_923L_Newell.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_10_923L_NEWELL

FILE: scn9_SL_A1_10_923L_Newell.out



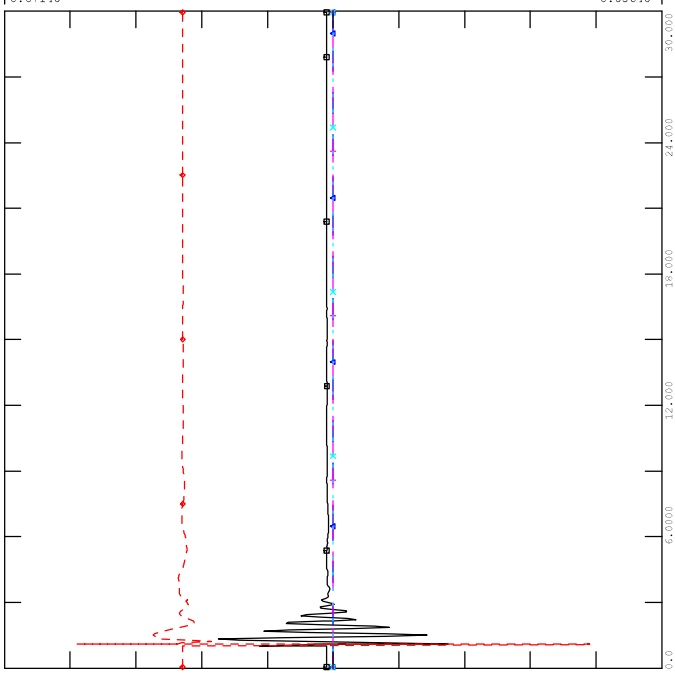
SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

FILE: scn9_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:19 ACTIVE POWER

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.20000 -0.2000
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 146: [POWR 61736[BSR_4 0.6900]1]
1.8711 0.05840
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.67140 0.05640

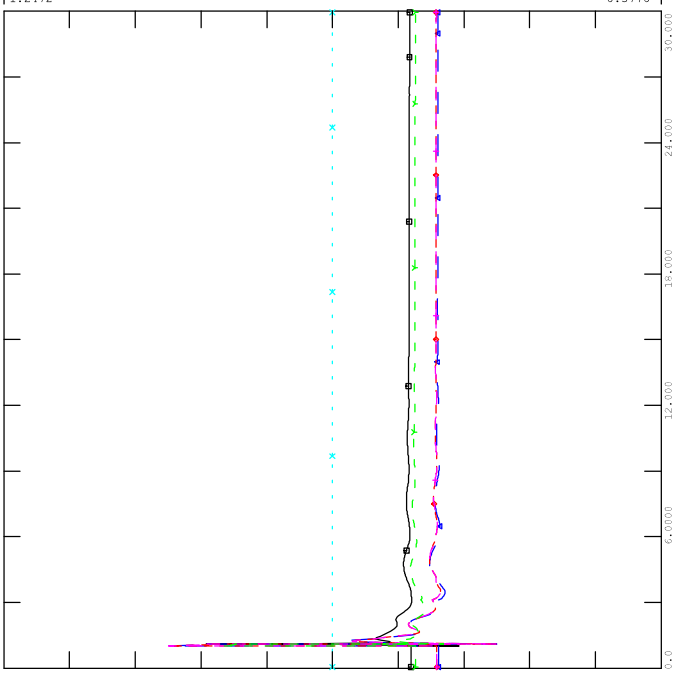


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

FILE: scn9_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:19 REACTIVE POWER

CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
1.0228 -0.4899
CHNL# 160: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 159: [VARS 775[SECCT2 21.000]3]
3.6785 -2.124
CHNL# 158: [VARS 774[SECCT1 21.000]2]
3.6785 -2.124
CHNL# 157: [VARS 773[SECST 20.000]1]
4.5450 -2.554
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
1.2472 -0.3770

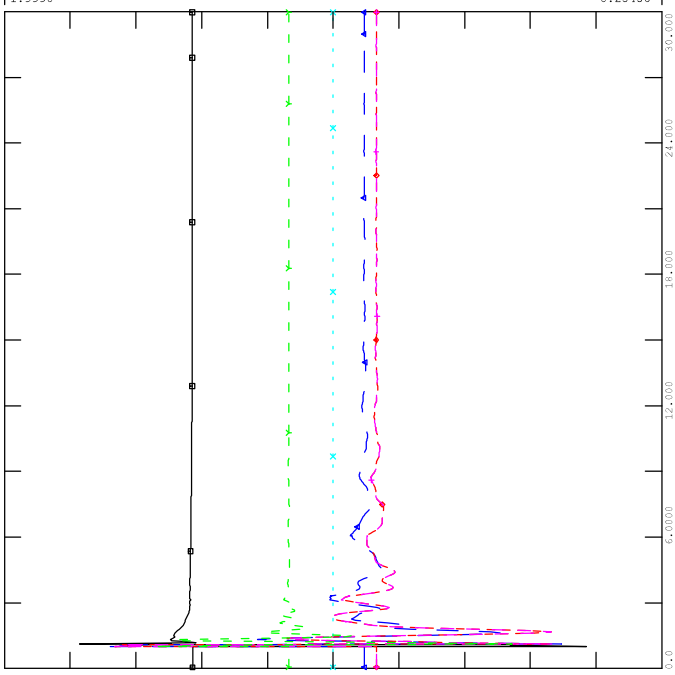


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

FILE: scn9_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:19 ACTIVE POWER

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.63460 -0.2453
CHNL# 108: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3]
2.0961 0.90440
CHNL# 106: [POWR 774[SECCT1 21.000]2]
2.0961 0.90440
CHNL# 105: [POWR 773[SECST 20.000]1]
2.6139 1.3022
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.9990 0.25450

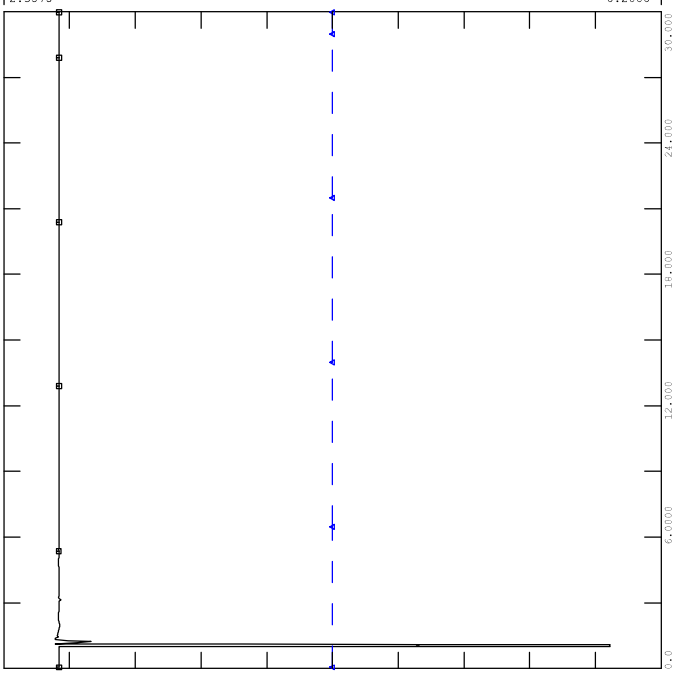


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

FILE: scn9_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:19 ACTIVE POWER

CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
2.3575 -0.2000



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

FILE: scn9_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1] 0.50000 -0.5000

CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1] 4.8047 -1.565

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

FILE: scn9_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1] 0.10000 -0.1000

CHNL# 301: [ETRM_60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000

CHNL# 302: [ETRM_61736[BSR_4 0.6900]1] 1.1613 0.37220

CHNL# 307: [ETRM560026[TRAVERS_1A 0.4800]G1] 0.10000 -0.1000

CHNL# 273: [ETRM_3251[CARSELA2 13.800]2] 1.1639 0.71910

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

FILE: scn9_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1] 0.50000 -0.5000

CHNL# 197: [VARS_60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000

CHNL# 198: [VARS_61736[BSR_4 0.6900]1] 1.3401 -0.3301

CHNL# 203: [VARS560026[TRAVERS_1A 0.4800]G1] 0.50000 -0.5000

CHNL# 169: [VARS_3251[CARSELA2 13.800]2] 1.0075 -0.6261

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

FILE: scn9_SL_A1_11_935L_Milo.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 272: [ETRM_3247[CAVAL_A 13.800]1] 1.1499 0.77520

CHNL# 264: [ETRM_3187[CECST 13.200]2] 0.10000 -0.1000

CHNL# 263: [ETRM_775[SECCT2 21.000]3] 1.1189 0.65810

CHNL# 262: [ETRM_774[SECCT1 21.000]2] 1.1189 0.65810

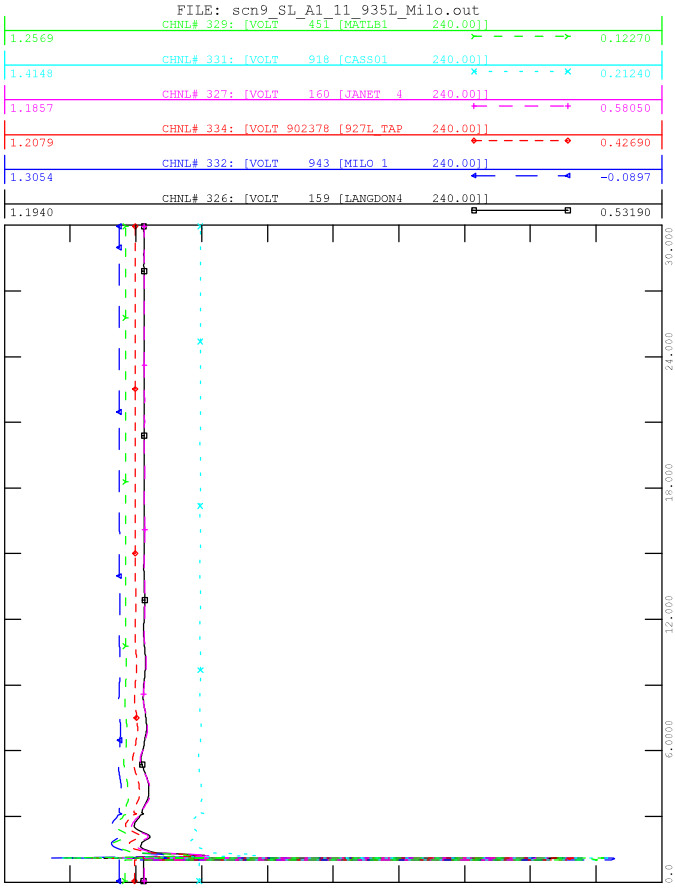
CHNL# 261: [ETRM_773[SECST 20.000]1] 1.1203 0.66480

CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1] 1.2446 0.43510

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

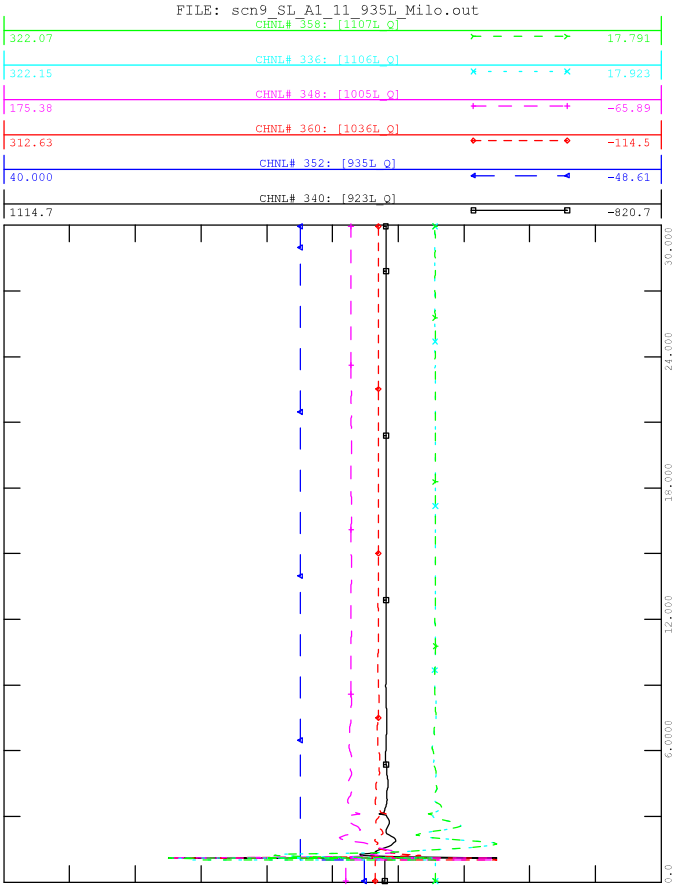
FILE: scn9_SL_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

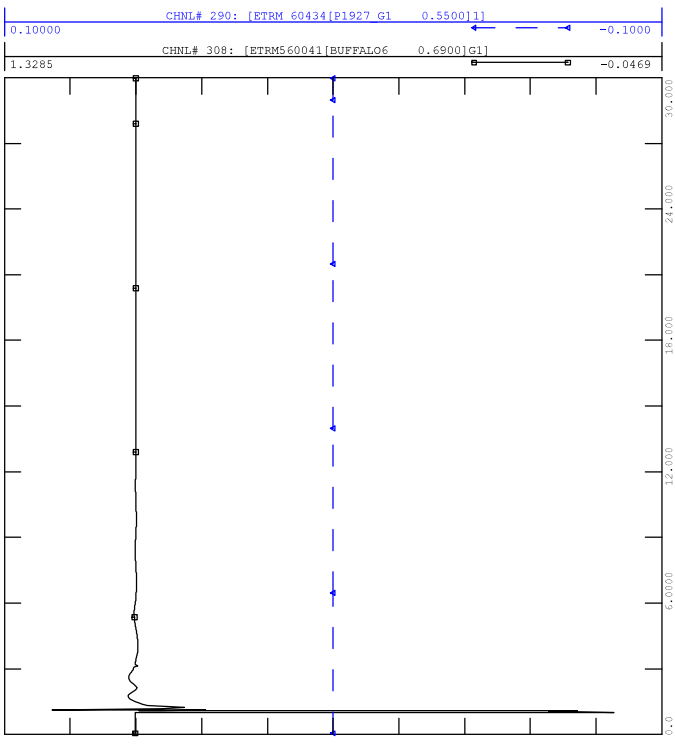
FILE: scn9_SL_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

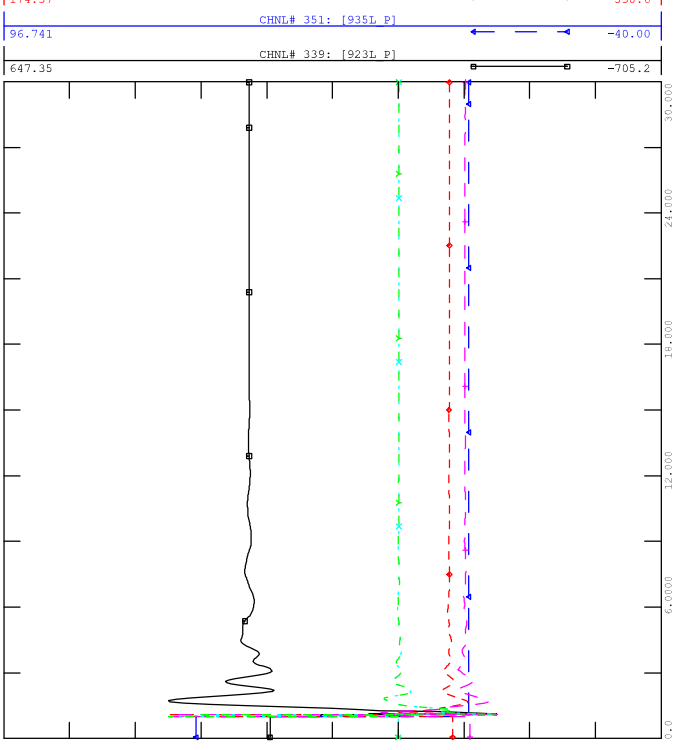
FILE: scn9_SL_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

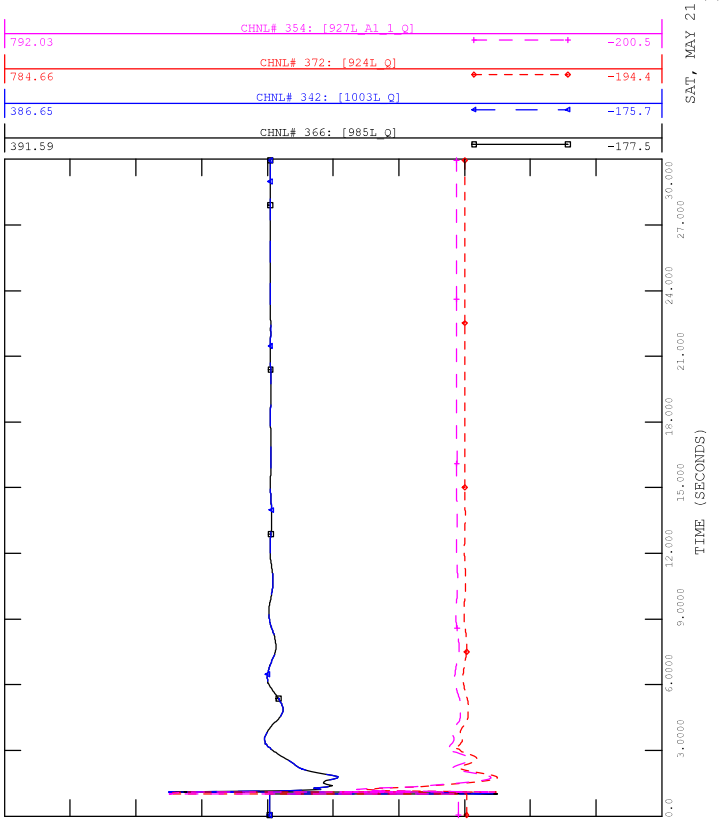
FILE: scn9_SL_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

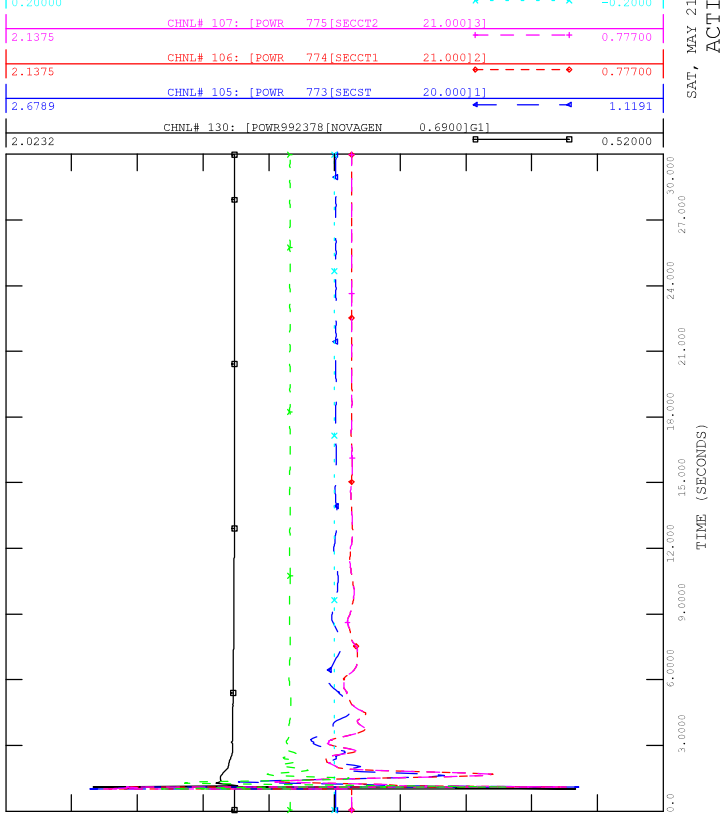
FILE: scn9_SL_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

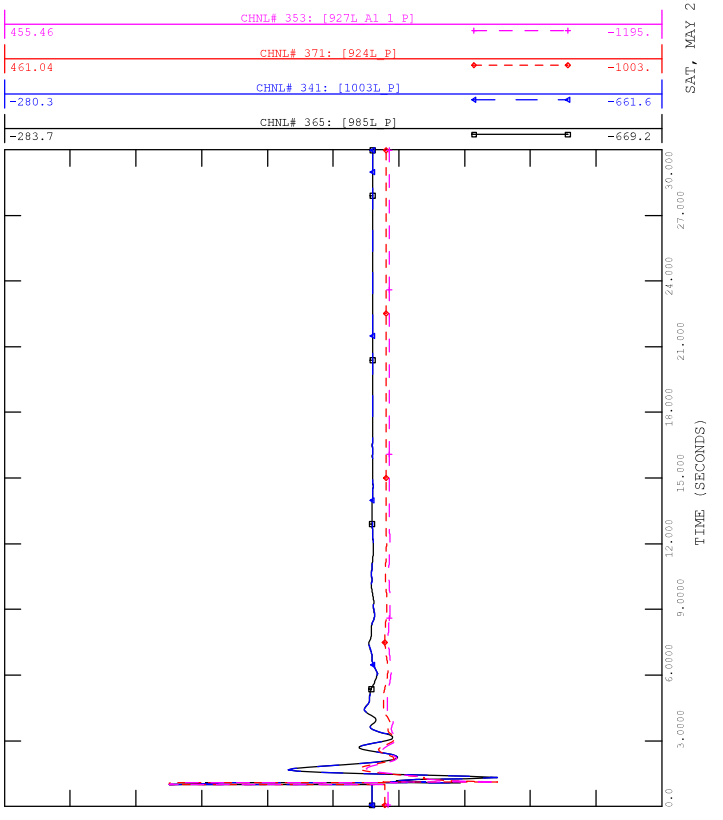
FILE: scn9_SL_A1_12_935L_Cassils.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_11_935L_MILO

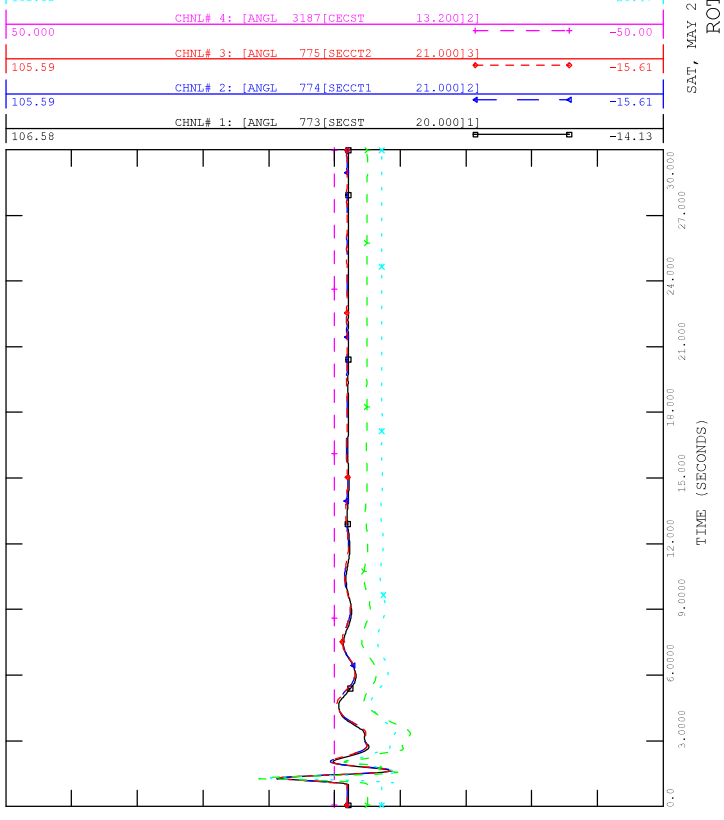
FILE: scn9_SL_A1_11_935L_Milo.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

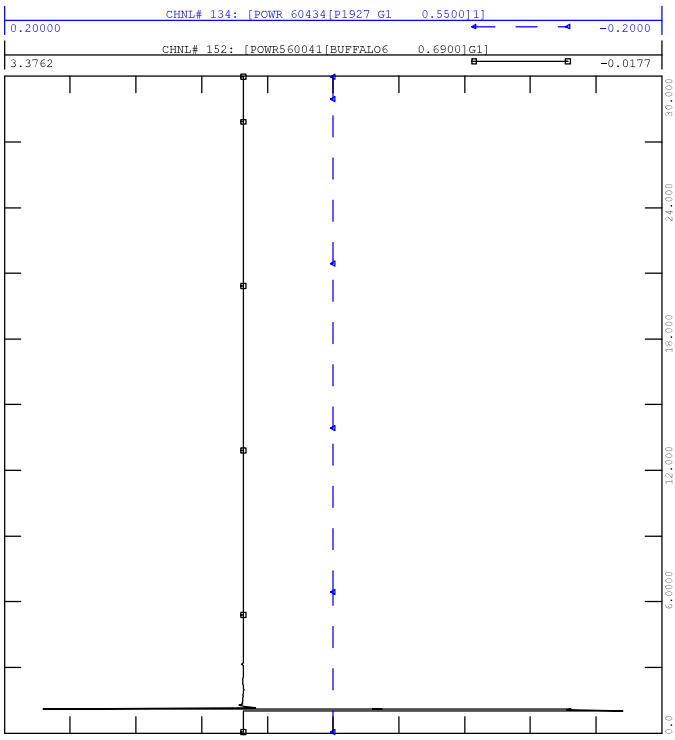


SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

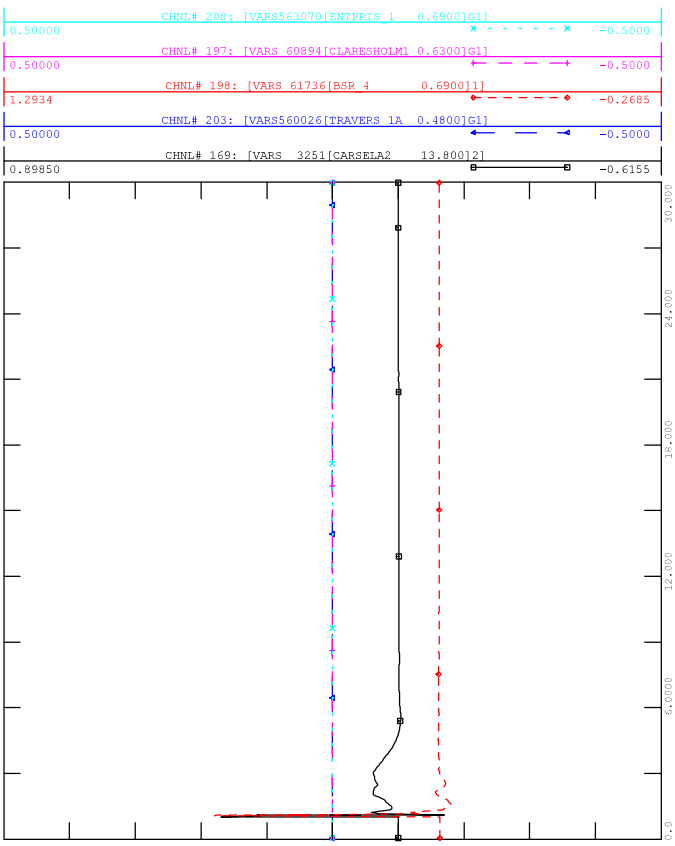
SAT, MAY 21 2022 1:19 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

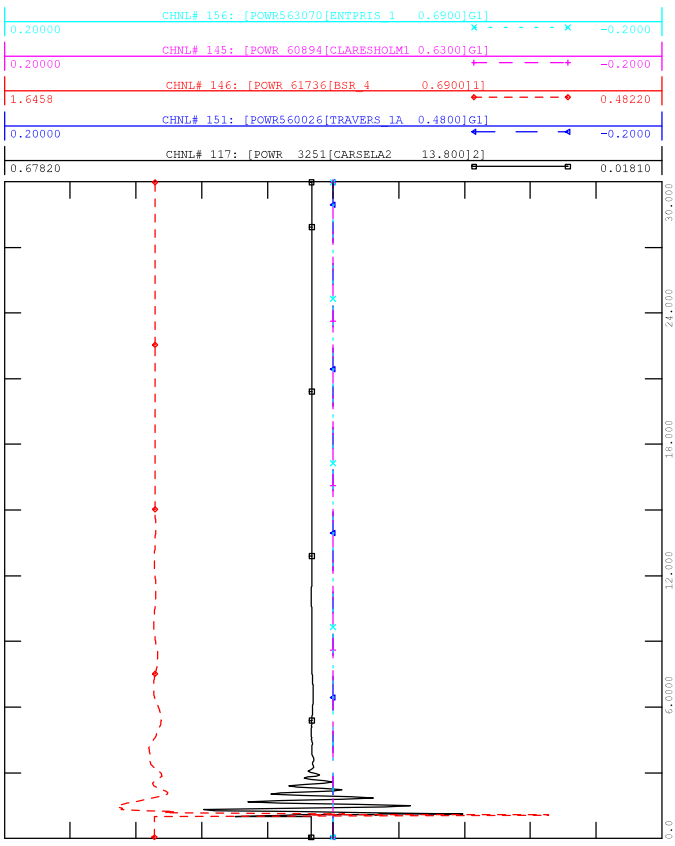
SAT, MAY 21 2022 1:19 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

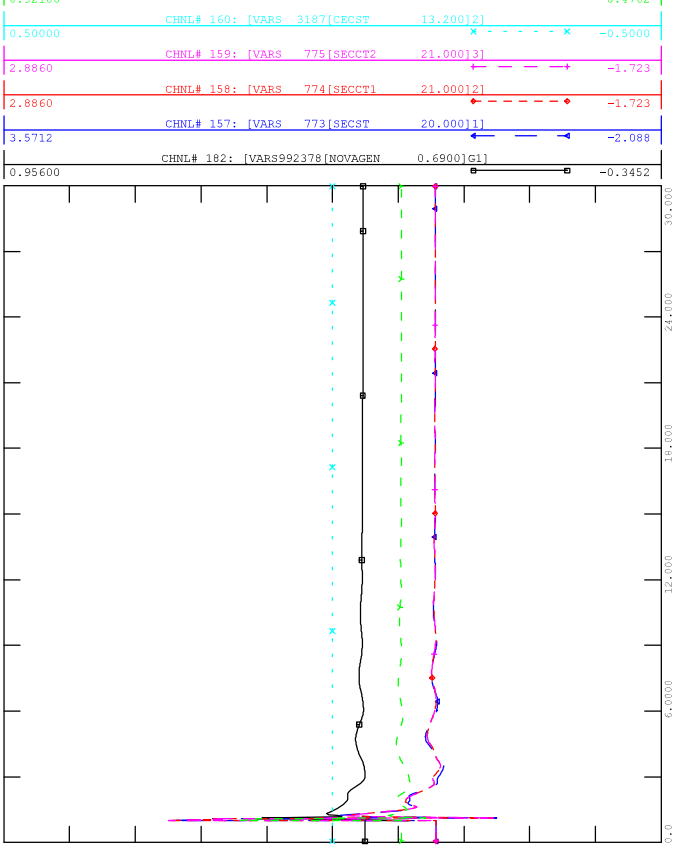
SAT, MAY 21 2022 1:19 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:19 REACTIVE POWER



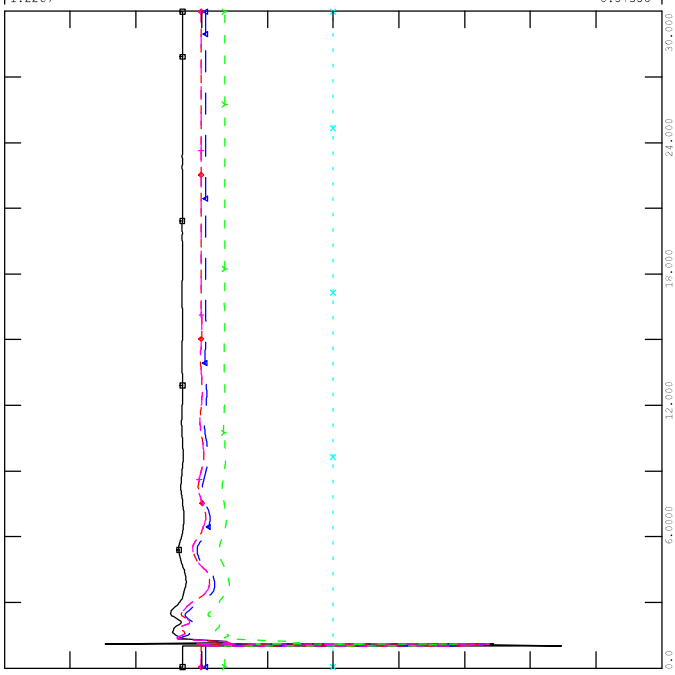
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1] 1.1483 0.82510
CHNL# 264: [ETRM 3187[CECST 13.200]2] 0.10000 -0.1000
CHNL# 263: [ETRM 775[SECCT2 21.000]3] 1.1141 0.73280
CHNL# 262: [ETRM 774[SECCT1 21.000]2] 1.1141 0.73280
CHNL# 261: [ETRM 773[SECST 20.000]1] 1.1159 0.73700
CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1] 1.2267 0.57350



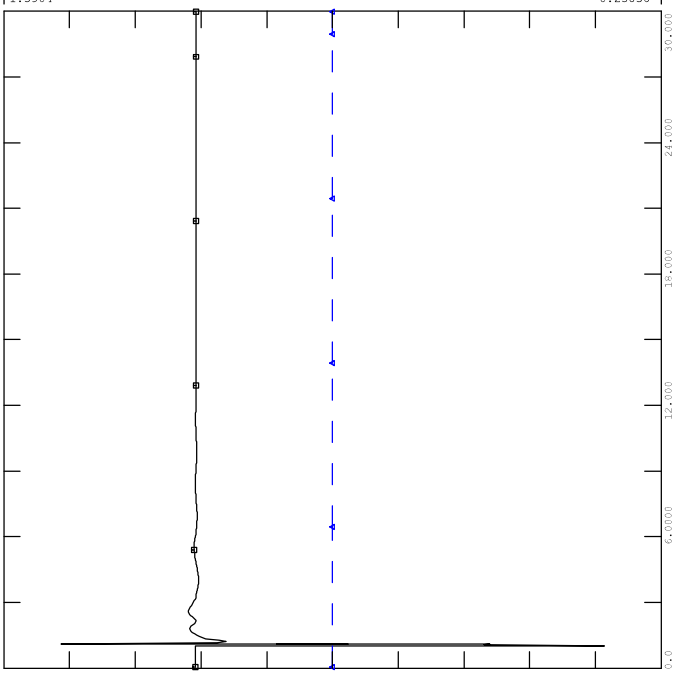
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1] 0.10000 -0.1000
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1] 1.3904 0.23830



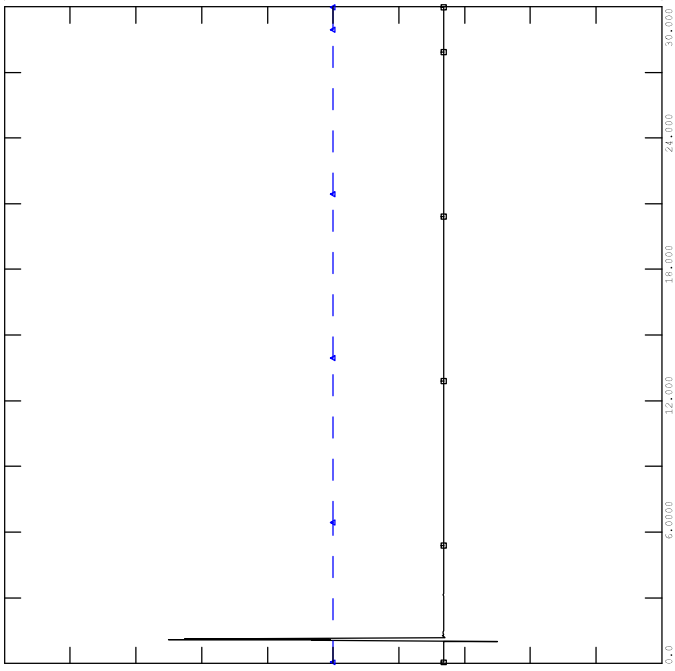
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1] 0.50000 -0.5000
CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1] 3.5325 -0.9457



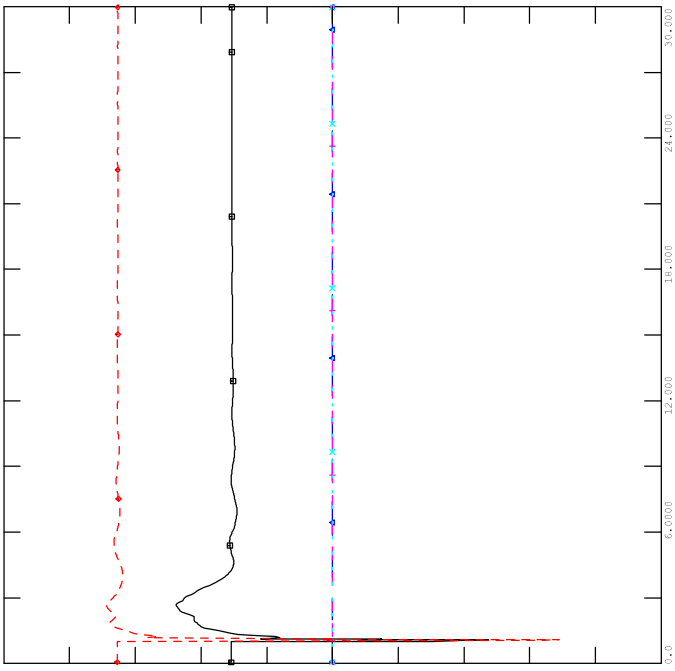
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

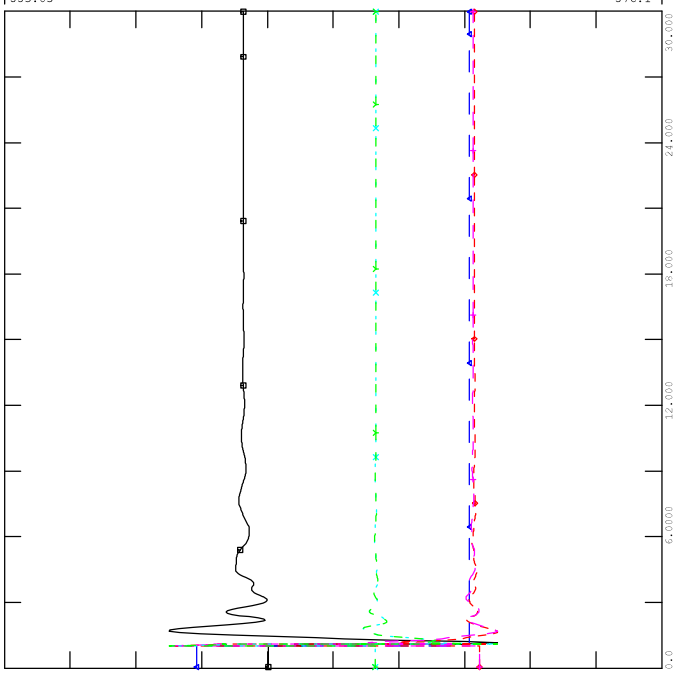
CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1] 0.10000 -0.1000
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000
CHNL# 302: [ETRM 61736[BSR 4 0.6900]1] 1.1604 0.51950
CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2] 1.1618 0.78080



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

CHNL# 357: [1107L P]
-24.77 -691.6
CHNL# 335: [1106L P]
-24.70 -691.7
CHNL# 347: [1005L P]
29.271 -301.7
CHNL# 359: [1036L P]
5.3044 -433.7
CHNL# 351: [935L P]
96.741 -40.00
CHNL# 339: [923L P]
553.03 -576.1

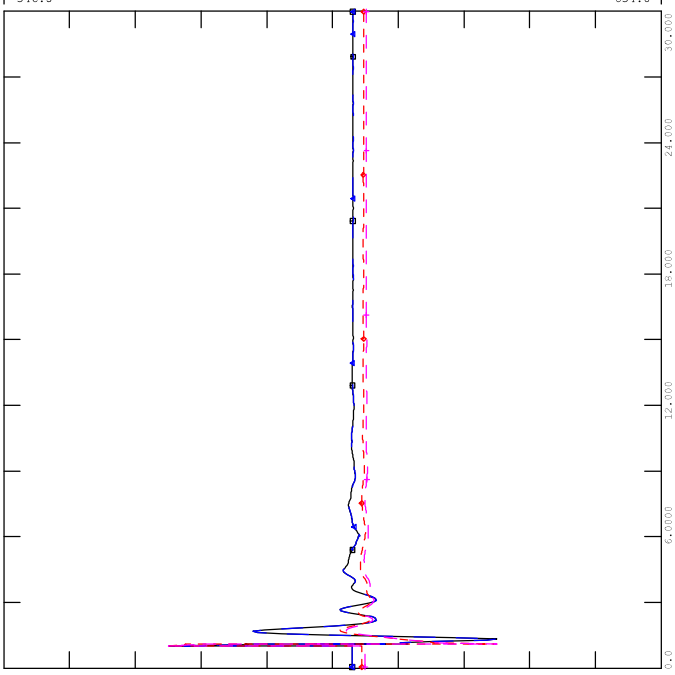


SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

CHNL# 353: [927L A1_1 P]
284.29 -1157.
CHNL# 371: [924L P]
315.33 -972.4
CHNL# 341: [1003L P]
-342.5 -627.6
CHNL# 365: [985L P]
-346.5 -634.8

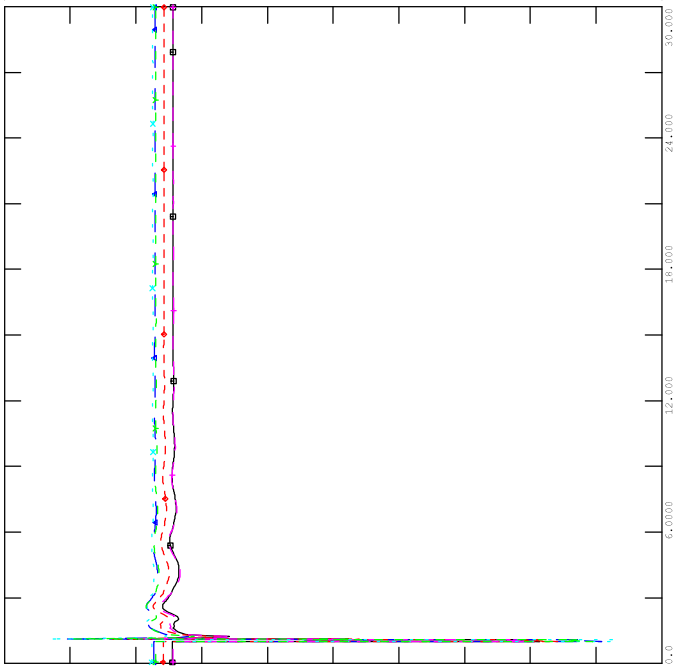


SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.2672 0.31540
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3900 -0.0873
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1828 0.69210
CHNL# 334: [VOLT 902378 [927L_TAP 240.00]]
1.2051 0.57530
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.3107 0.22000
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1912 0.65380

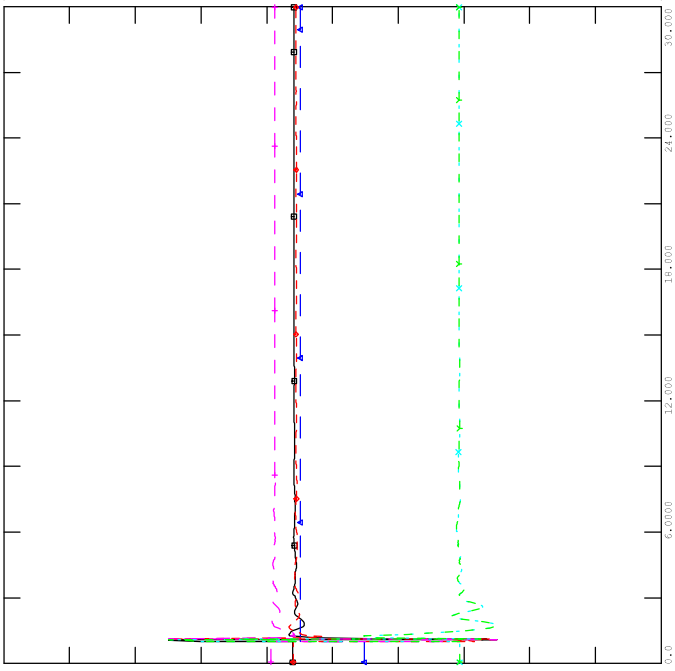


SAT, MAY 21 2022 1:19 BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

CHNL# 358: [1107L Q]
315.21 36.946
CHNL# 336: [1106L Q]
315.32 37.074
CHNL# 348: [1005L Q]
191.51 -157.0
CHNL# 360: [1036L Q]
294.95 -212.6
CHNL# 352: [935L Q]
40.000 -48.61
CHNL# 340: [923L Q]
790.44 -1022.



SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

FILE: scn9_SL_A1_13_1064L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
164.05 -15.50
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
132.54 -33.43
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
142.58 -37.16
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
142.58 -37.16
CHNL# 1: [ANGL 773[SECST 20.000]1]
143.84 -32.49

SAT, MAY 21 2022 1:19
ROTOR ANGLE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

FILE: scn9_SL_A1_13_1064L_Langdon.out

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.20000 -0.2000
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.7482 0.22400
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.84960 -0.0827

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_12_935L_CASSILS

FILE: scn9_SL_A1_12_935L_Cassils.out

CHNL# 354: [927L A1 1 Q]
674.74 -155.1
CHNL# 372: [924L Q]
662.22 -157.3
CHNL# 342: [1003L Q]
324.17 -91.76
CHNL# 366: [985L Q]
328.36 -92.60

SAT, MAY 21 2022 1:19
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

FILE: scn9_SL_A1_13_1064L_Langdon.out

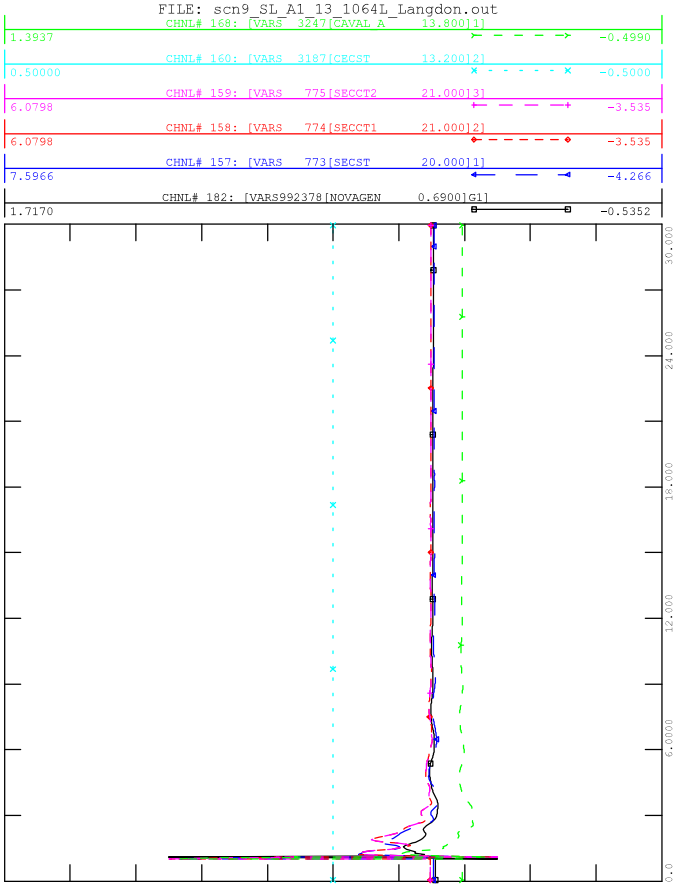
CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.66940 -0.1316
CHNL# 108: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3]
3.2018 -0.2093
CHNL# 106: [POWR 774[SECCT1 21.000]2]
3.2018 -0.2093
CHNL# 105: [POWR 773[SECST 20.000]1]
3.8464 0.23420
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.8120 -0.1767

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

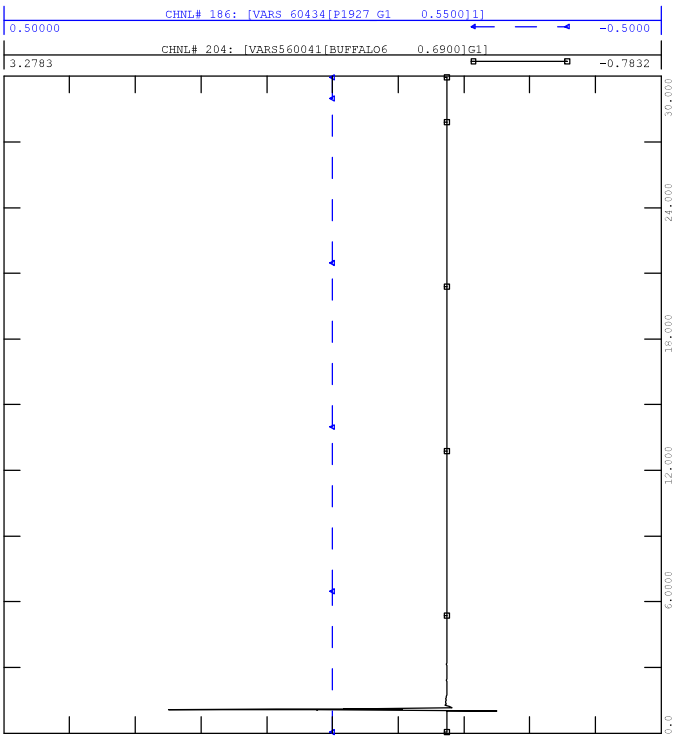
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

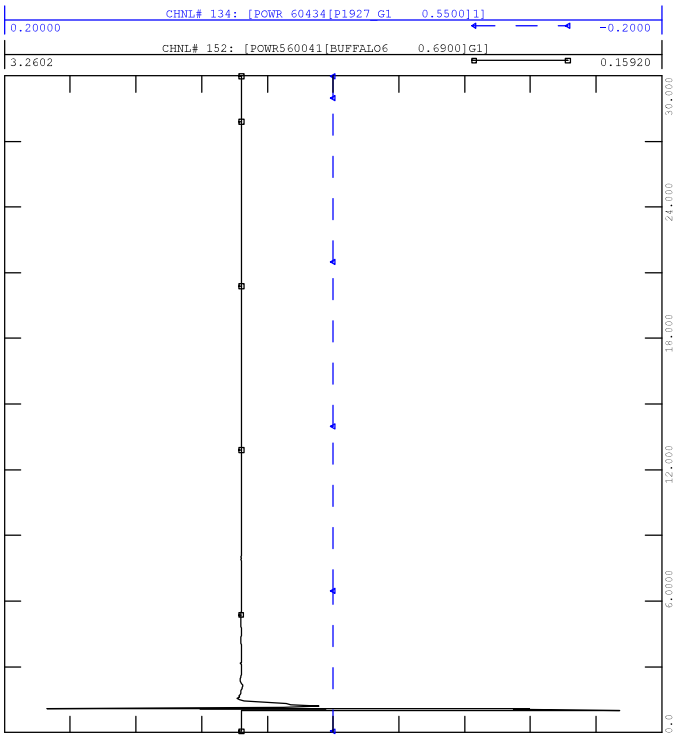
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

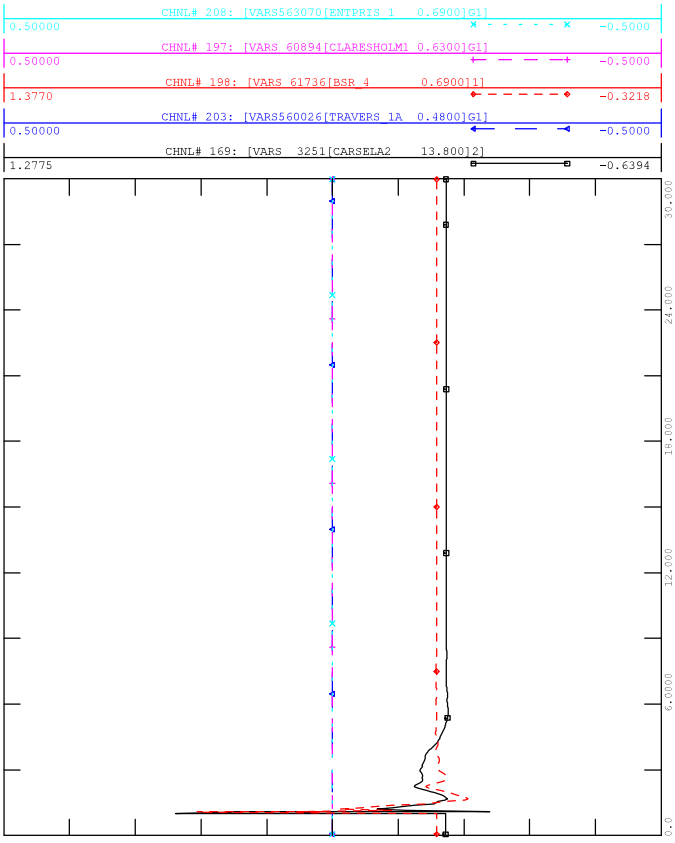
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

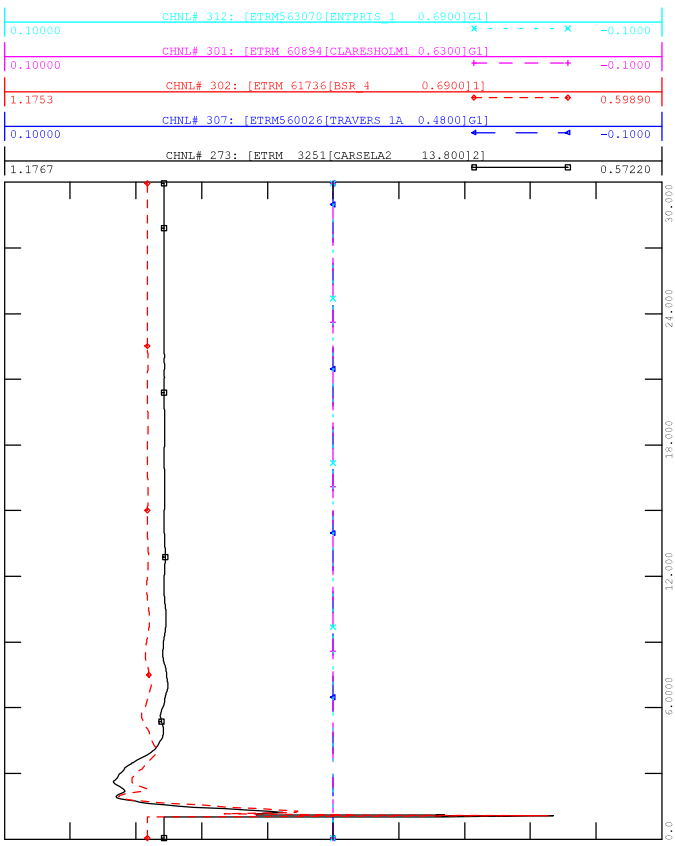
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

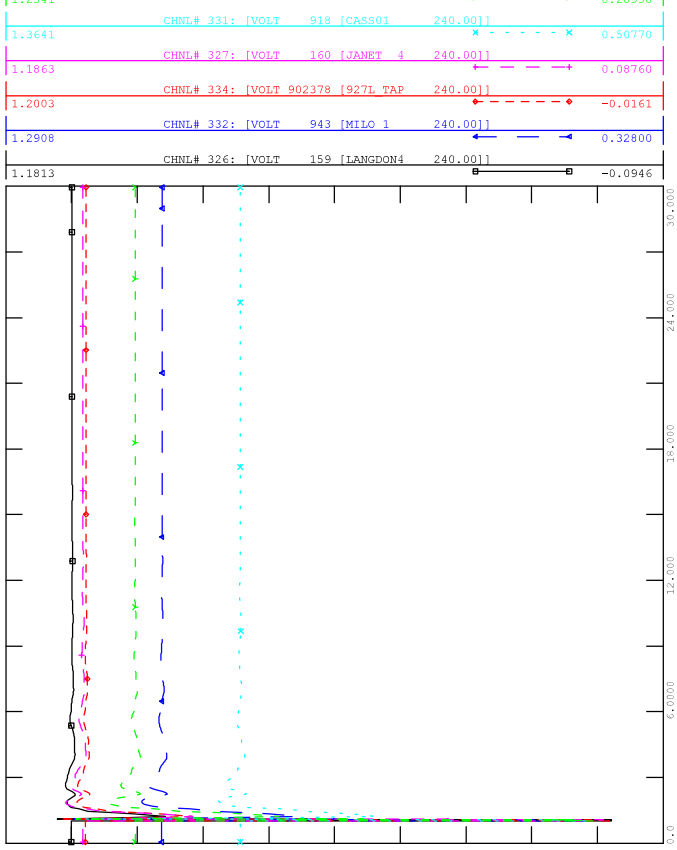
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

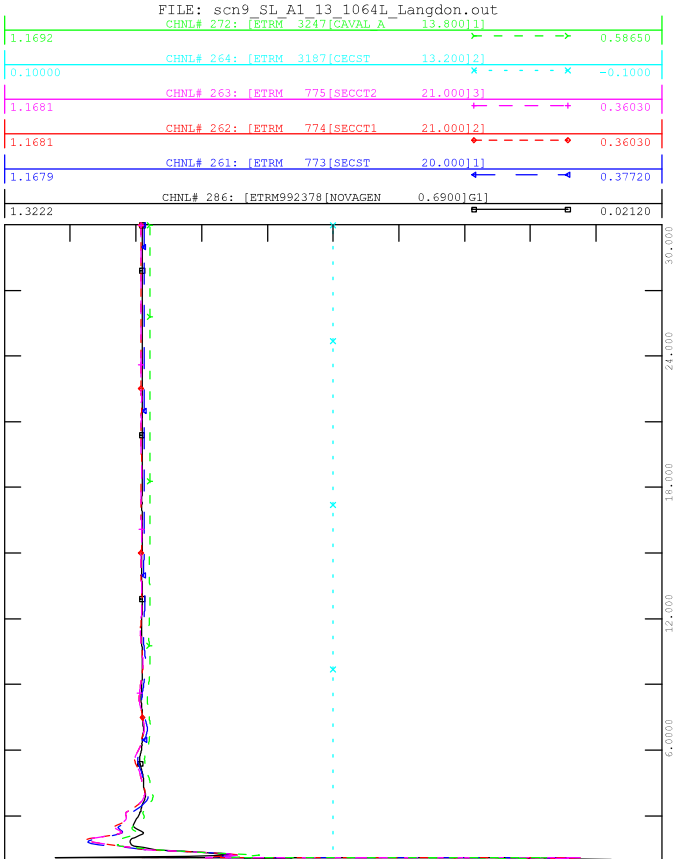
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

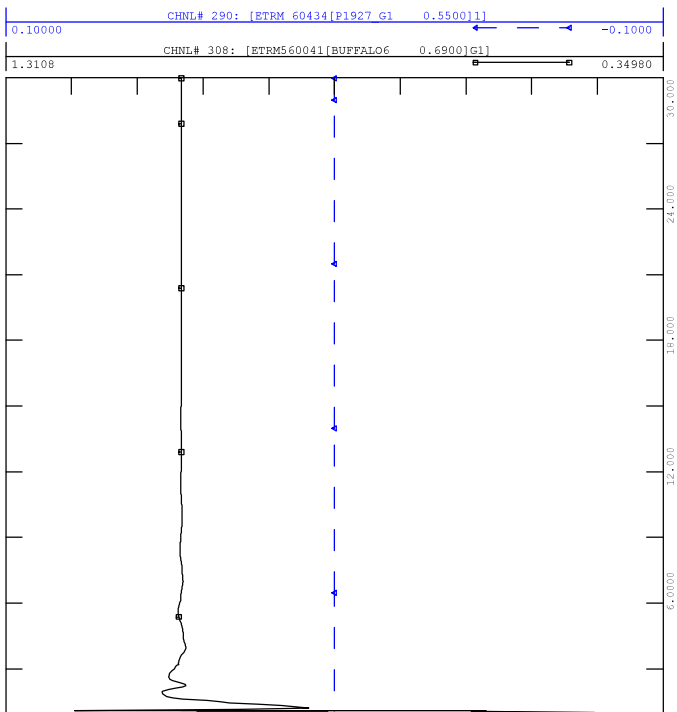
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

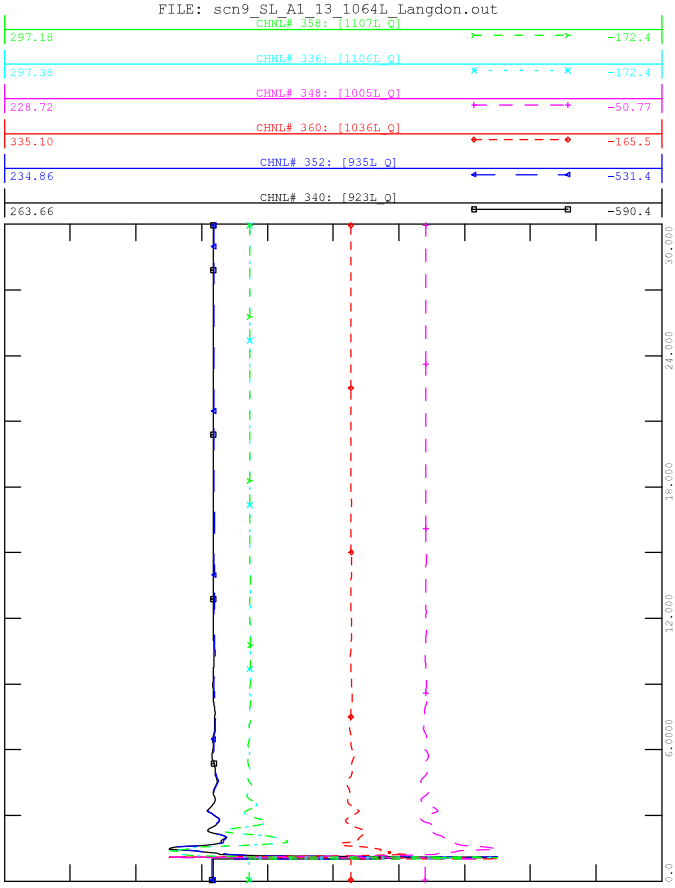
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

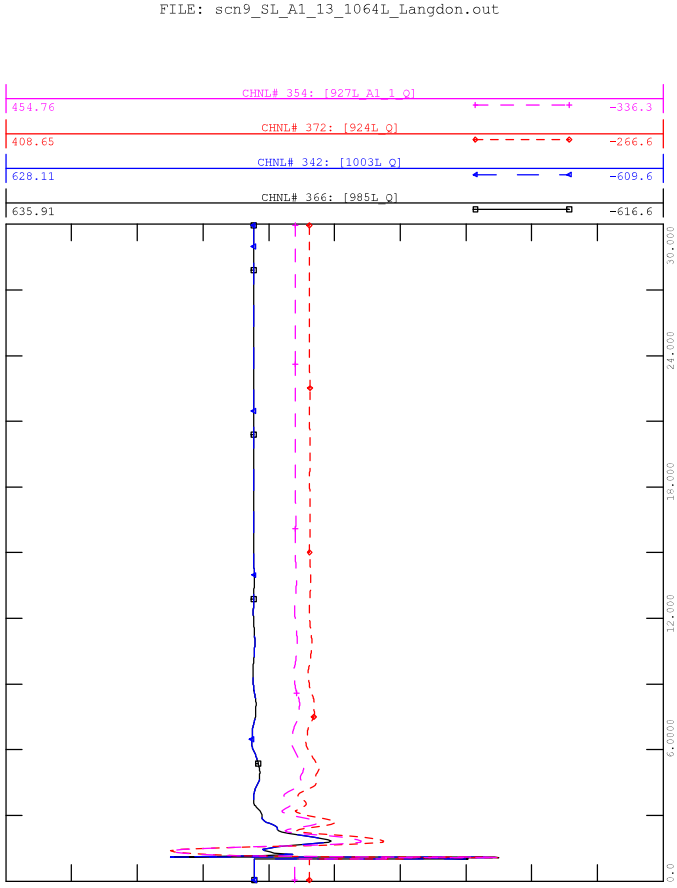
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

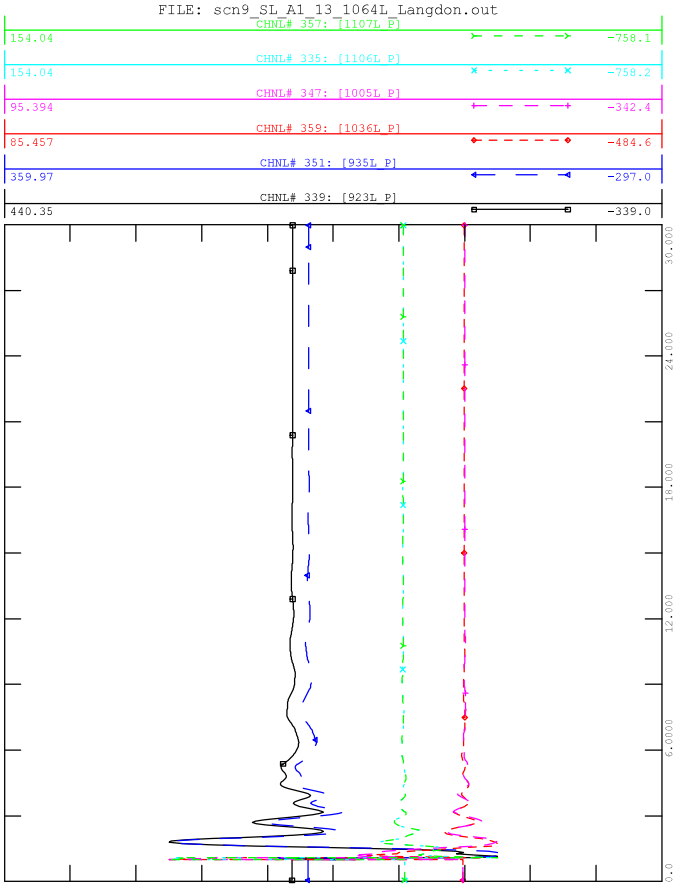
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

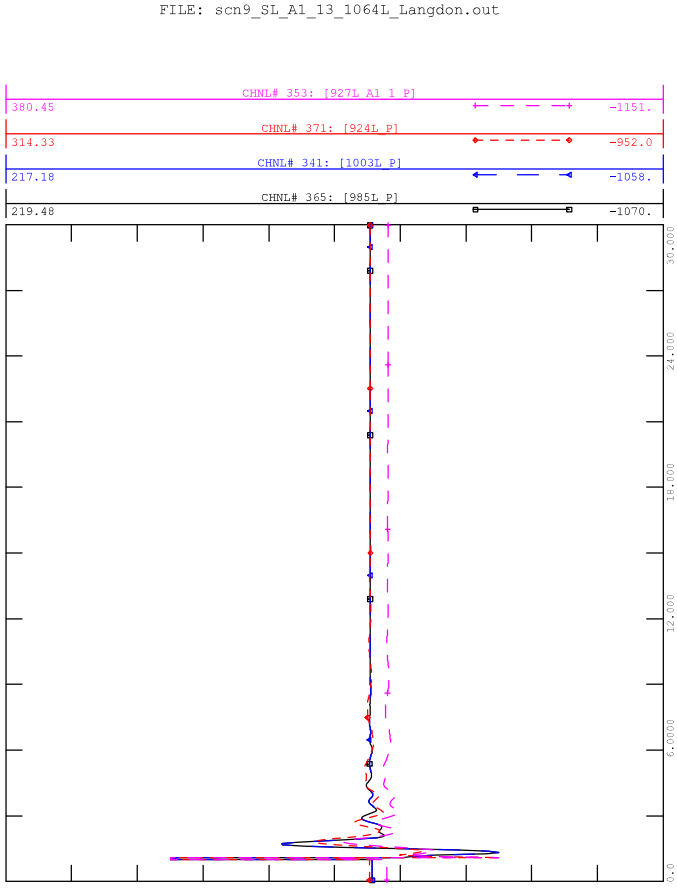
FILE: scn9_SL_A1_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_13_1064L_LANGDON

FILE: scn9_SL_A1_13_1064L_Langdon.out

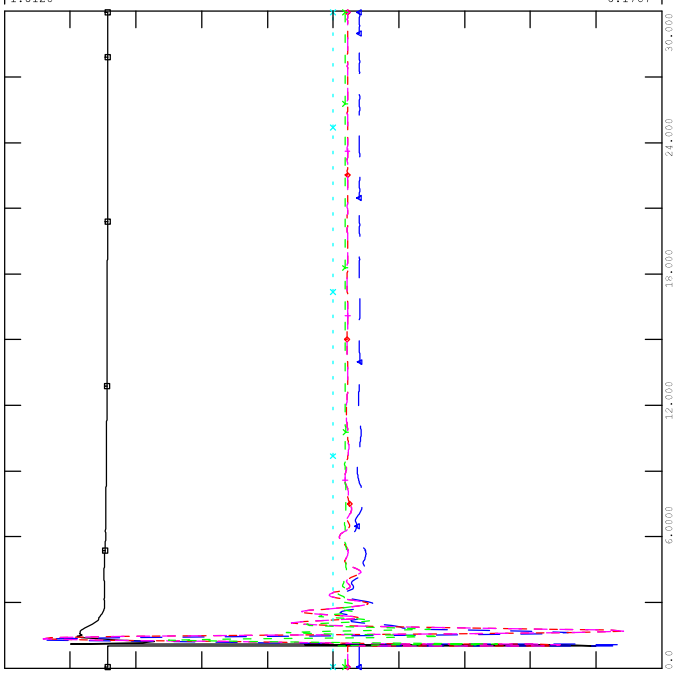


SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

FILE: scn9_SL_A1_14_1065L_Langdon.out

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.66940 -0.1316
CHNL# 108: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3]
3.2020 -0.2094
CHNL# 106: [POWR 774[SECCT1 21.000]2]
3.2020 -0.2094
CHNL# 105: [POWR 773[SECST 20.000]1]
3.8467 0.23420
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.8120 -0.1767

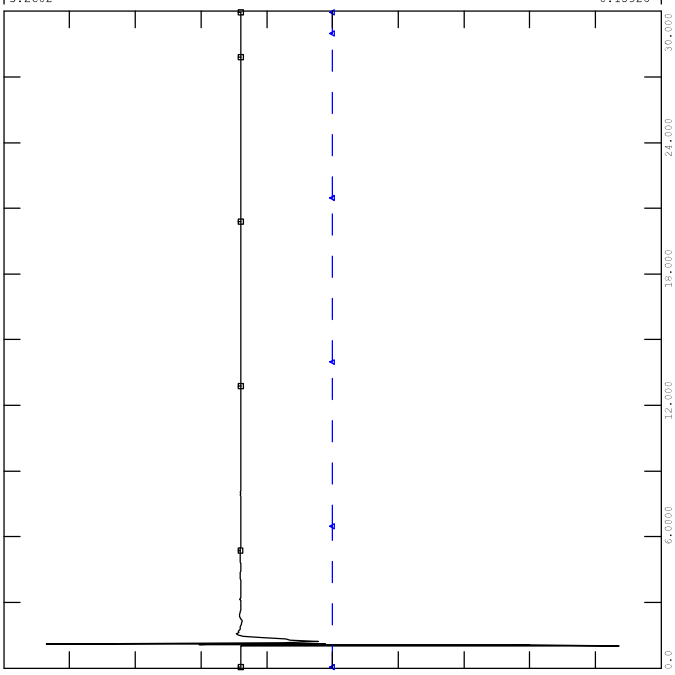


SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

FILE: scn9_SL_A1_14_1065L_Langdon.out

CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
3.2602 0.15920

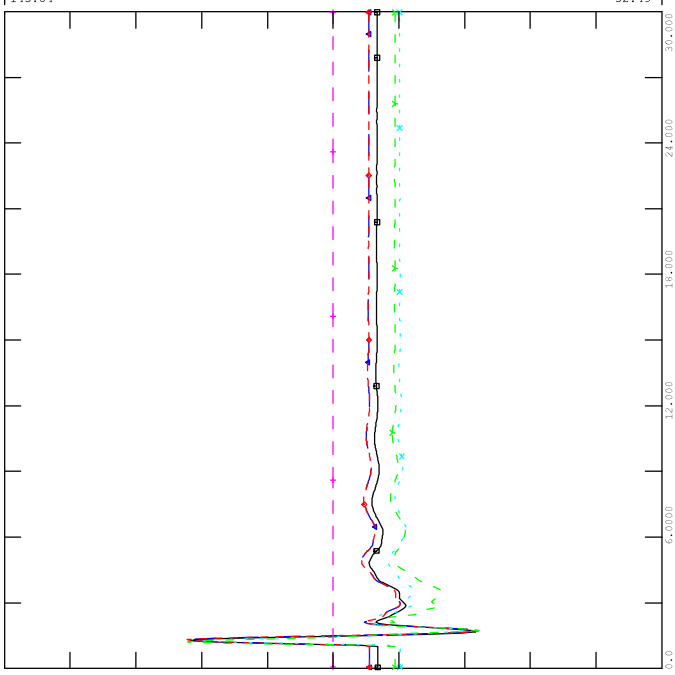


SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

FILE: scn9_SL_A1_14_1065L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
164.05 -15.50
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
132.54 -33.43
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
142.58 -37.16
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
142.58 -37.16
CHNL# 1: [ANGL 773[SECST 20.000]1]
143.84 -32.49

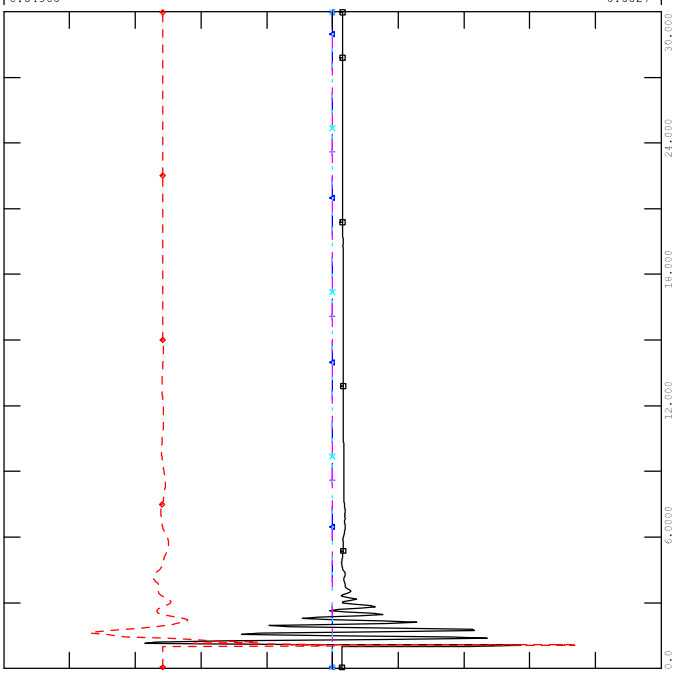


SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

FILE: scn9_SL_A1_14_1065L_Langdon.out

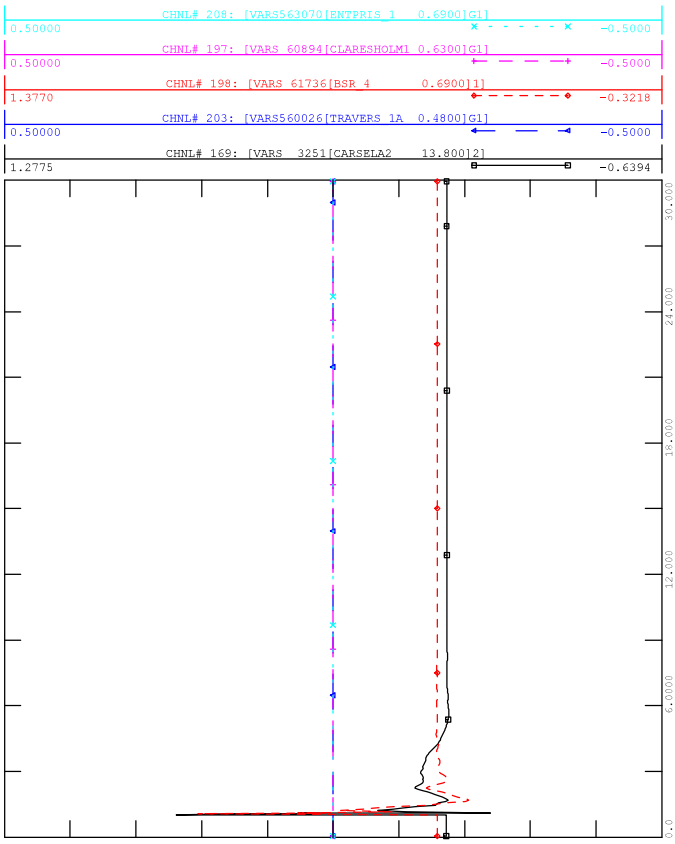
CHNL# 156: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 146: [POWR 61736[BSR 4 0.6900]1]
1.7482 0.22400
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.84960 -0.0827



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

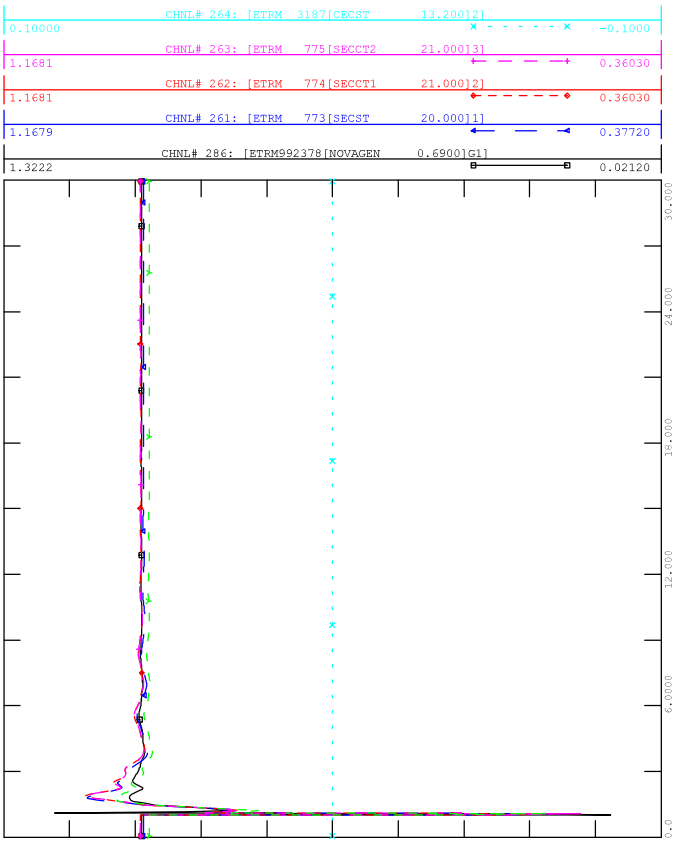
FILE: scn9_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

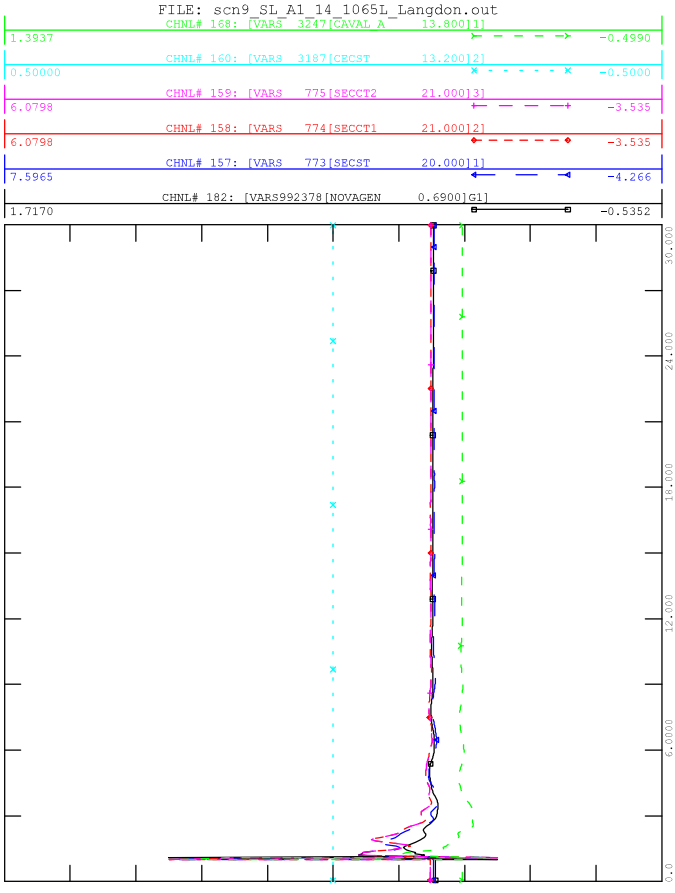
FILE: scn9_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

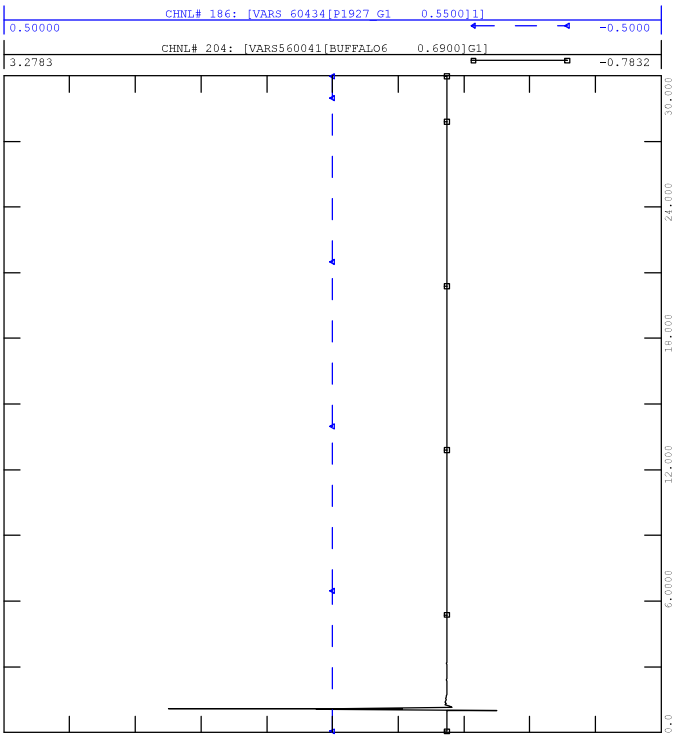
FILE: scn9_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

FILE: scn9_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

FILE: scn9_SL_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.3108 0.34980

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

FILE: scn9_SL_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:19
BRANCH P

CHNL# 357: [1107L P]
154.04 -758.1
CHNL# 335: [1106L P]
154.04 -758.2
CHNL# 347: [1005L P]
95.394 -342.4
CHNL# 359: [1036L P]
85.458 -484.6
CHNL# 351: [935L P]
359.91 -296.8
CHNL# 339: [923L P]
440.35 -339.0

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

FILE: scn9_SL_A1_14_1065L_Langdon.out

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 302: [ETRM 61736[BSR 4 0.6900]1]
1.1753 0.59890
CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2]
1.1767 0.57220

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

FILE: scn9_SL_A1_14_1065L_Langdon.out

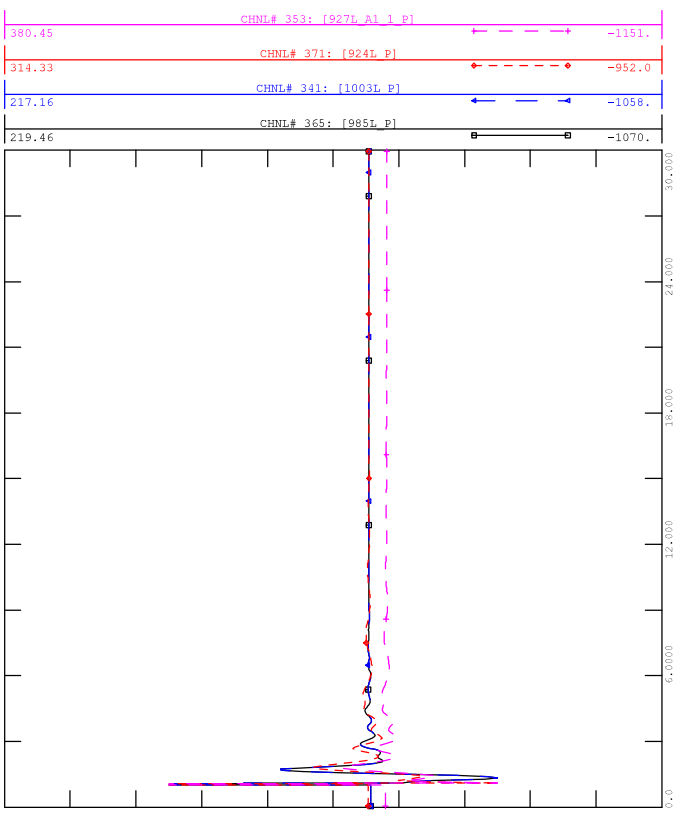
SAT, MAY 21 2022 1:19
BUS VOLTAGE

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.2341 0.28990
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3641 0.50770
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1863 0.08760
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.2003 -0.0161
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.2908 0.32800
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1813 -0.0946

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

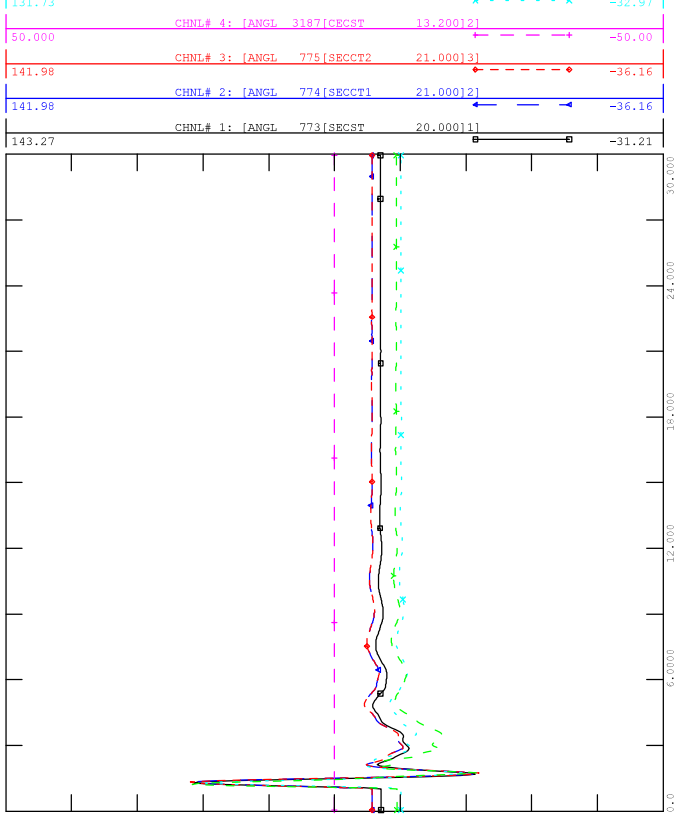
FILE: scn9_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

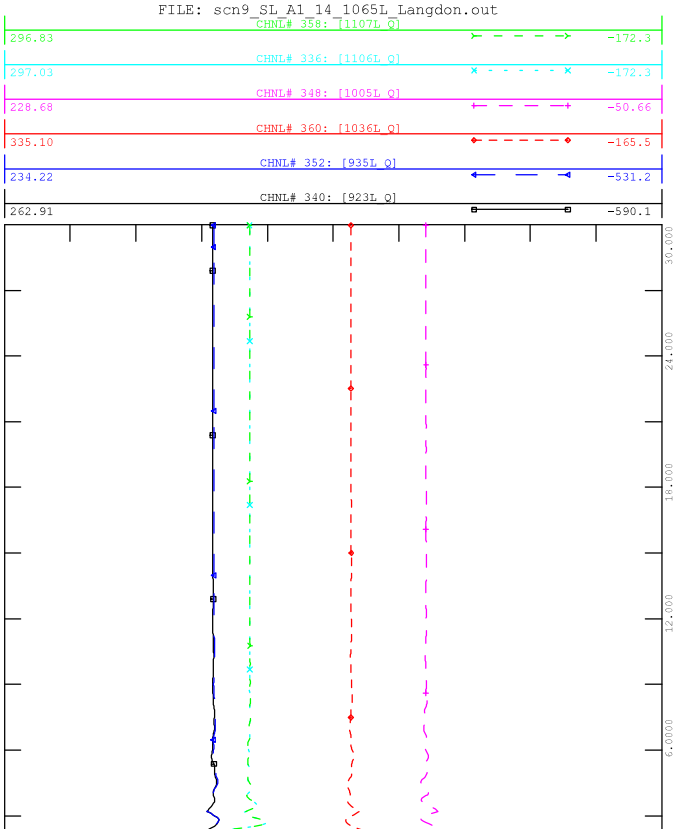
FILE: scn9_SL_A1_15_936L_Langdon.out



SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

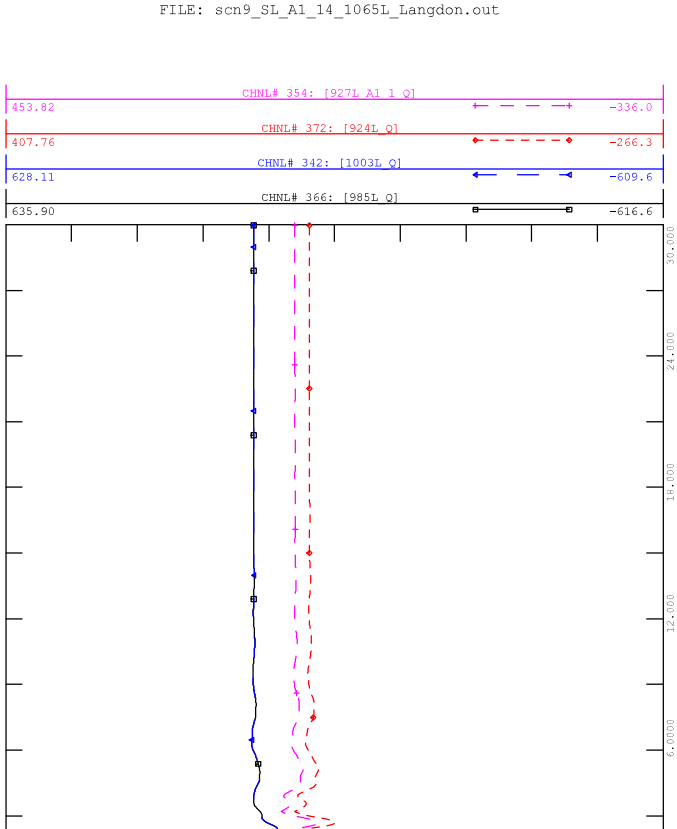
FILE: scn9_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_14_1065L_LANGDON

FILE: scn9_SL_A1_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

CHNL# 156: [POWR563070[ENTPRIS_1 0.6900]G1]
0.20000 -0.2000
CHNL# 145: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 146: [POWR 61736[BSR_4 0.6900]1]
1.7404 0.21730
CHNL# 151: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 117: [POWR 3251[CARSELA2 13.800]2]
0.83440 -0.0840

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

CHNL# 168: [VARS 3247[CAVAL A 13.800]1]
1.3881 -0.4793
CHNL# 160: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 159: [VARS 775[SECCT2 21.000]3]
5.9559 -3.202
CHNL# 158: [VARS 774[SECCT1 21.000]2]
5.9559 -3.202
CHNL# 157: [VARS 773[SECST 20.000]1]
7.4455 -3.874
CHNL# 182: [VARS992378[NOVAGEN 0.6900]G1]
1.9170 -0.5993

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

CHNL# 116: [POWR 3247[CAVAL A 13.800]1]
0.66300 -0.1574
CHNL# 108: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3]
3.2055 -0.1728
CHNL# 106: [POWR 774[SECCT1 21.000]2]
3.2055 -0.1728
CHNL# 105: [POWR 773[SECST 20.000]1]
3.8055 0.23720
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1]
1.7966 -0.1734

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

CHNL# 134: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 152: [POWR560041[BUFFALO6 0.6900]G1]
3.0302 0.17120

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

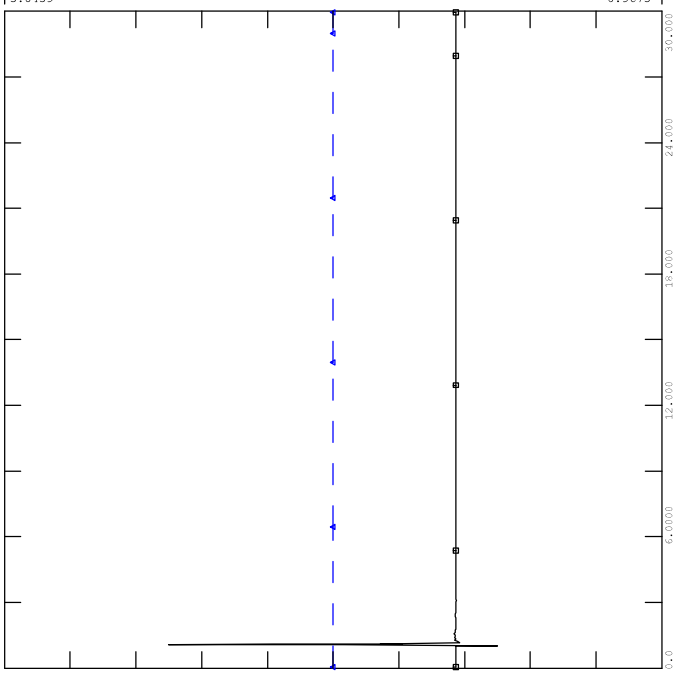
SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1] 0.50000 -0.5000

CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1] 3.8439 -0.9673

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1] 0.10000 -0.1000

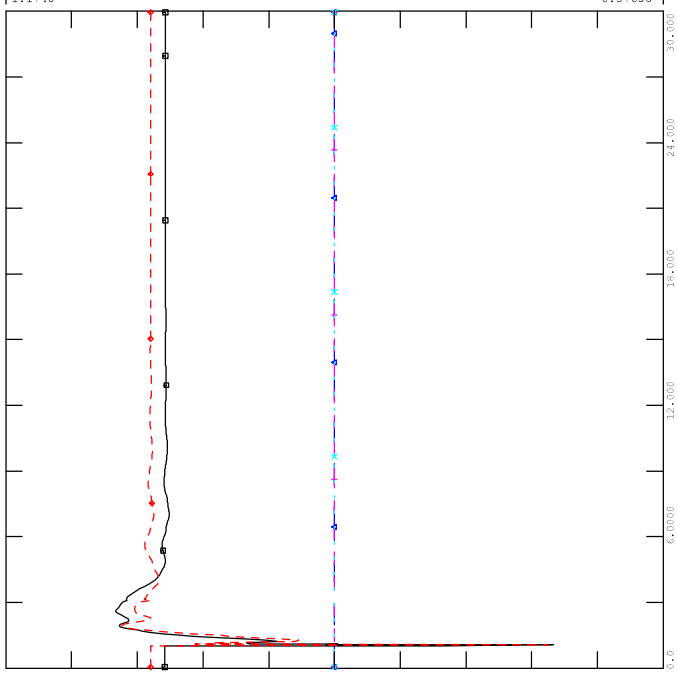
CHNL# 301: [ETRM_60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000

CHNL# 302: [ETRM_61736[BSR_4 0.6900]1] 1.1749 0.60760

CHNL# 307: [ETRM560026[TRAVERS_1A 0.4800]G1] 0.10000 -0.1000

CHNL# 273: [ETRM_3251[CARSELA2 13.800]2] 1.1748 0.57650

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 208: [VARS563070[ENTPRIS_1 0.6900]G1] 0.50000 -0.5000

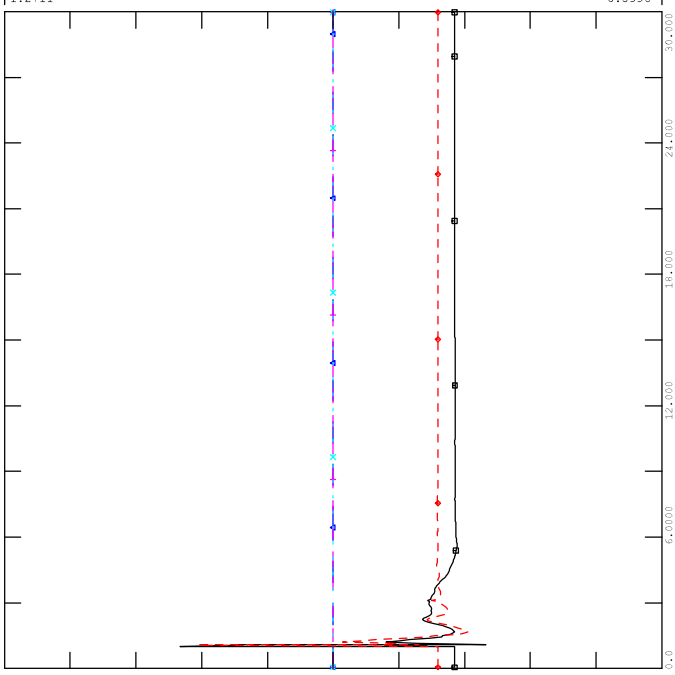
CHNL# 197: [VARS_60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000

CHNL# 198: [VARS_61736[BSR_4 0.6900]1] 1.3768 -0.3192

CHNL# 203: [VARS560026[TRAVERS_1A 0.4800]G1] 0.50000 -0.5000

CHNL# 169: [VARS_3251[CARSELA2 13.800]2] 1.2711 -0.5996

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 272: [ETRM_3247[CAVAL_A 13.800]1] 1.1659 0.58920

CHNL# 264: [ETRM_3187[CECST 13.200]2] 0.10000 -0.1000

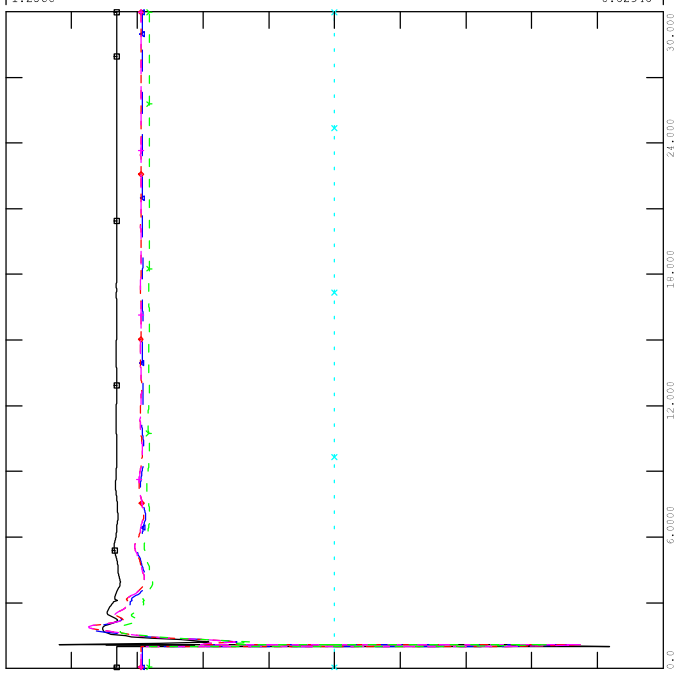
CHNL# 263: [ETRM_775[SECCT2 21.000]3] 1.1636 0.36650

CHNL# 262: [ETRM_774[SECCT1 21.000]2] 1.1636 0.36650

CHNL# 261: [ETRM_773[SECST 20.000]1] 1.1620 0.38290

CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1] 1.2566 0.02940

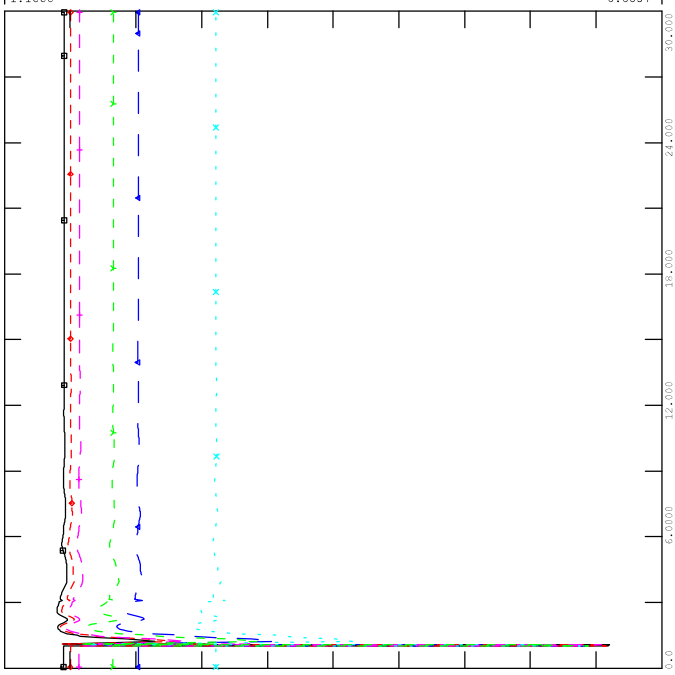
TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

CHNL# 329: [VOLT 451 [MATLBI 240.00]]
1.1968 0.29980
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3175 0.51360
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1802 0.09630
CHNL# 334: [VOLT 902378 [927L TAP 240.00]]
1.1711 -0.0072
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.2479 0.33560
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1666 -0.0857



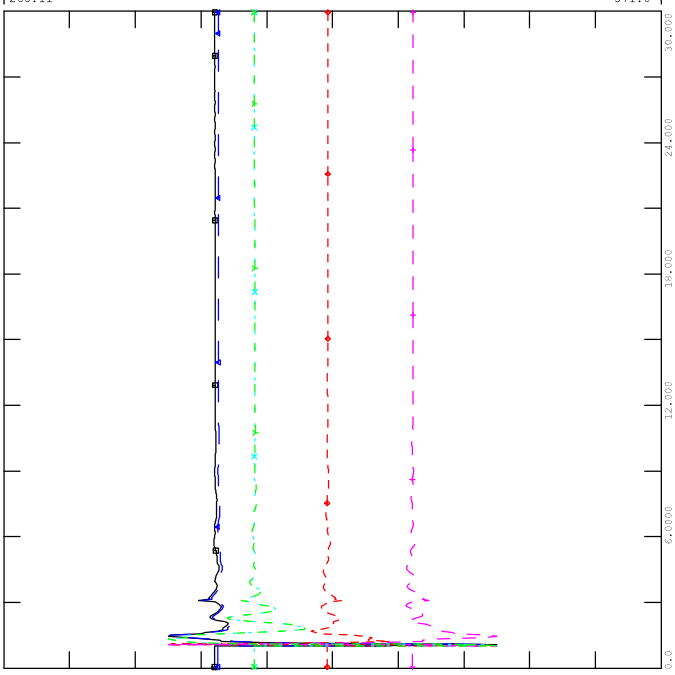
TIME (SECONDS)

SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

CHNL# 358: [1107L Q]
279.37 -133.4
CHNL# 336: [1106L Q]
279.58 -133.4
CHNL# 348: [1005L Q]
197.29 -40.07
CHNL# 360: [1036L Q]
285.89 -150.0
CHNL# 352: [935L Q]
223.67 -489.9
CHNL# 340: [923L Q]
260.11 -571.0



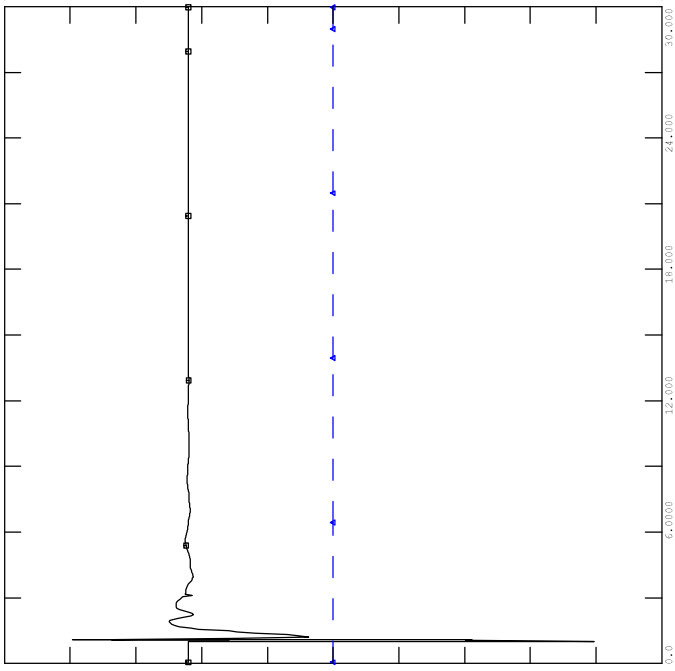
TIME (SECONDS)

SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000
CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1]
1.3258 0.35700



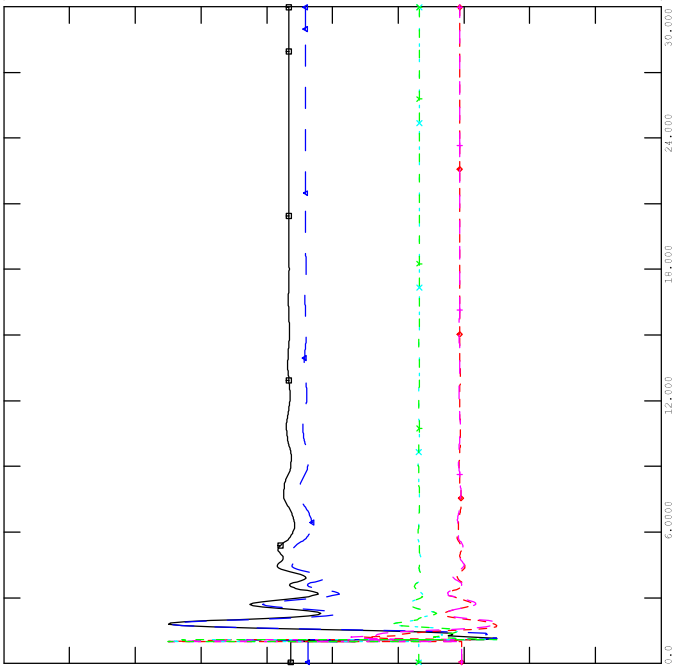
TIME (SECONDS)

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

CHNL# 357: [1107L P]
135.00 -714.0
CHNL# 335: [1106L P]
135.00 -714.1
CHNL# 347: [1005L P]
95.083 -343.1
CHNL# 359: [1036L P]
83.212 -484.6
CHNL# 351: [935L P]
359.30 -294.8
CHNL# 339: [923L P]
440.72 -340.3



TIME (SECONDS)

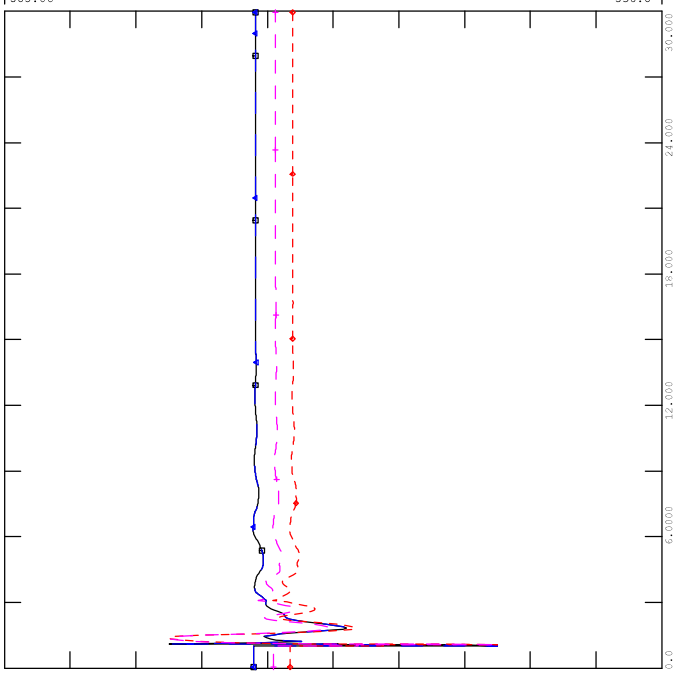
SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:19 BRANCH Q

CHNL# 354: [927L_A1_1_Q] 470.98 -418.5
CHNL# 372: [924L_Q] 414.63 -316.9
CHNL# 342: [1003L_Q] 577.85 -524.6
CHNL# 366: [985L_Q] 585.06 -530.8

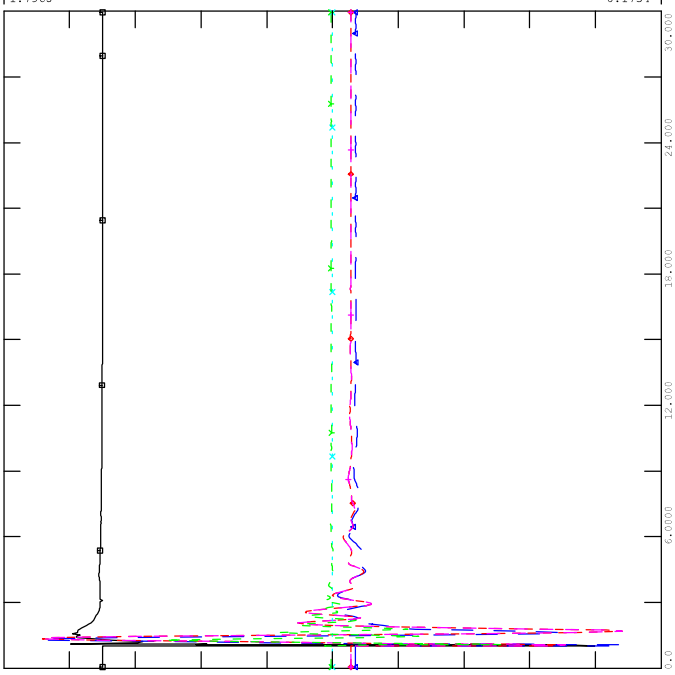


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:19 ACTIVE POWER

CHNL# 116: [POWR 3247[CAVAL A 13.800]1] 0.66290 -0.1575
CHNL# 108: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000
CHNL# 107: [POWR 775[SECCT2 21.000]3] 3.2056 -0.1732
CHNL# 106: [POWR 774[SECCT1 21.000]2] 3.2056 -0.1732
CHNL# 105: [POWR 773[SECST 20.000]1] 3.8060 0.23720
CHNL# 130: [POWR992378[NOVAGEN 0.6900]G1] 1.7965 -0.1734

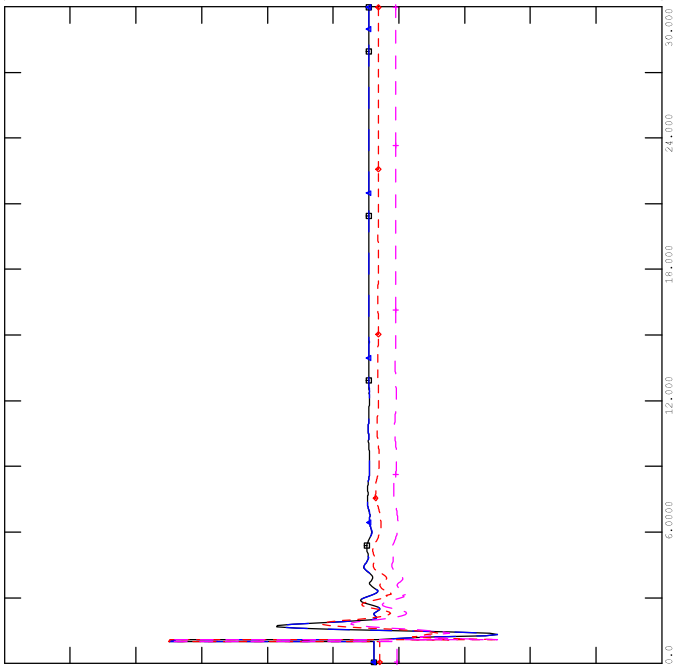


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_15_936L_LANGDON

FILE: scn9_SL_A1_15_936L_Langdon.out

SAT, MAY 21 2022 1:19 BRANCH P

CHNL# 353: [927L_A1_1_P] 353.94 -1088.
CHNL# 371: [924L_P] 289.26 -892.6
CHNL# 341: [1003L_P] 206.75 -1040.
CHNL# 365: [985L_P] 208.91 -1052.

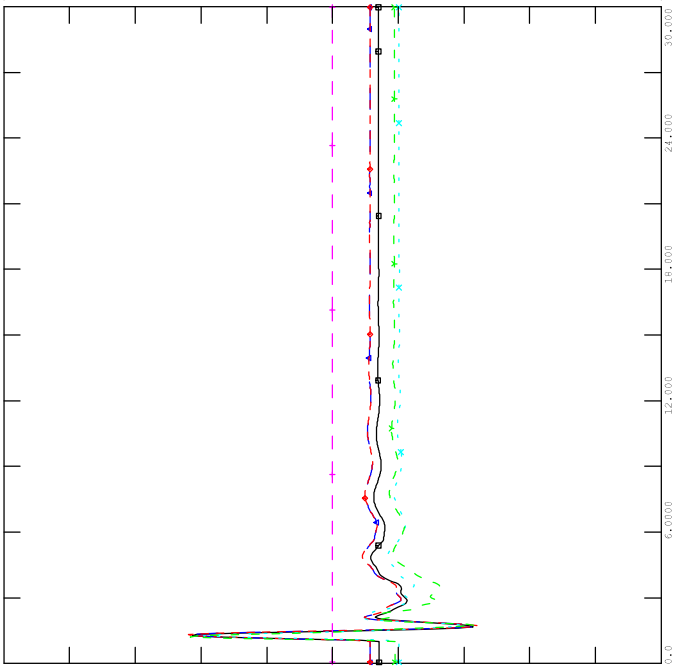


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:19 ROTOR ANGLE

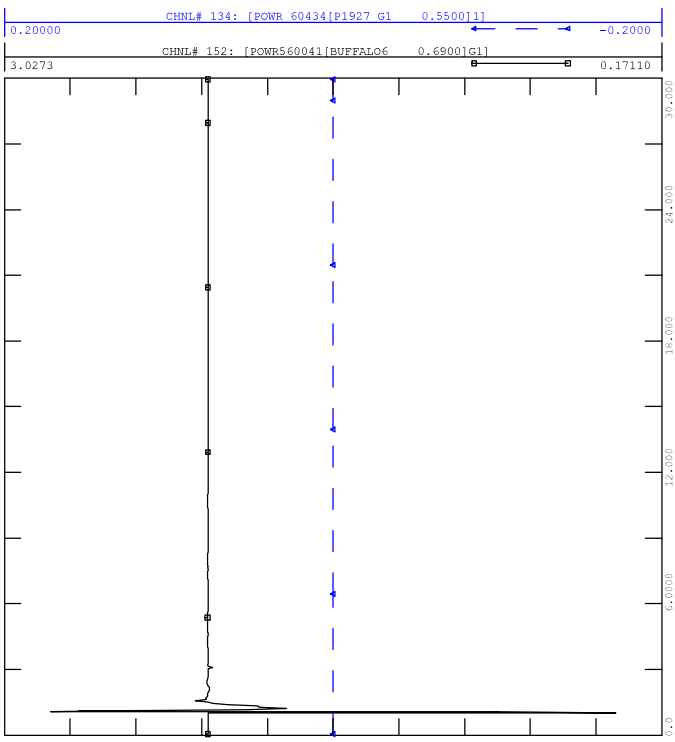
CHNL# 13: [ANGL 3251[CARSBLAZ 13.800]2] 162.17 -14.11
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1] 131.74 -32.97
CHNL# 4: [ANGL 3187[CECST 13.200]2] 50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 141.99 -36.17
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 141.99 -36.17
CHNL# 1: [ANGL 773[SECST 20.000]1] 143.28 -31.22



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

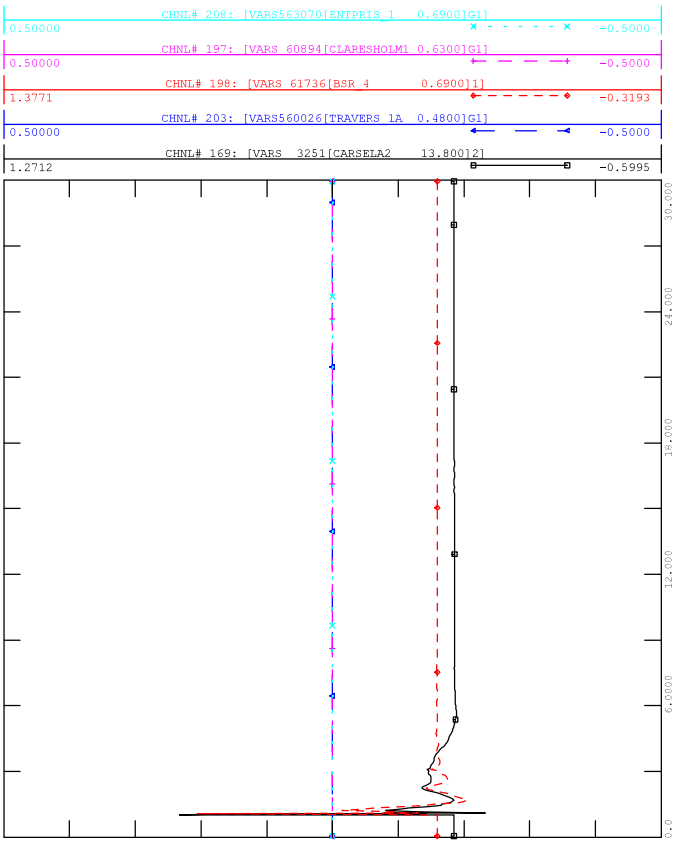
SAT, MAY 21 2022 1:19 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

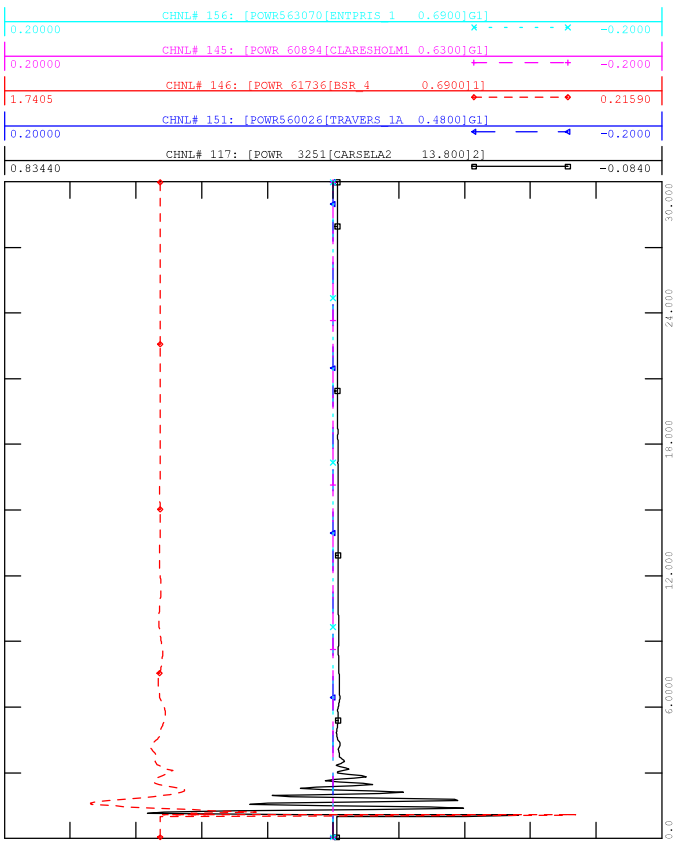
SAT, MAY 21 2022 1:19 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

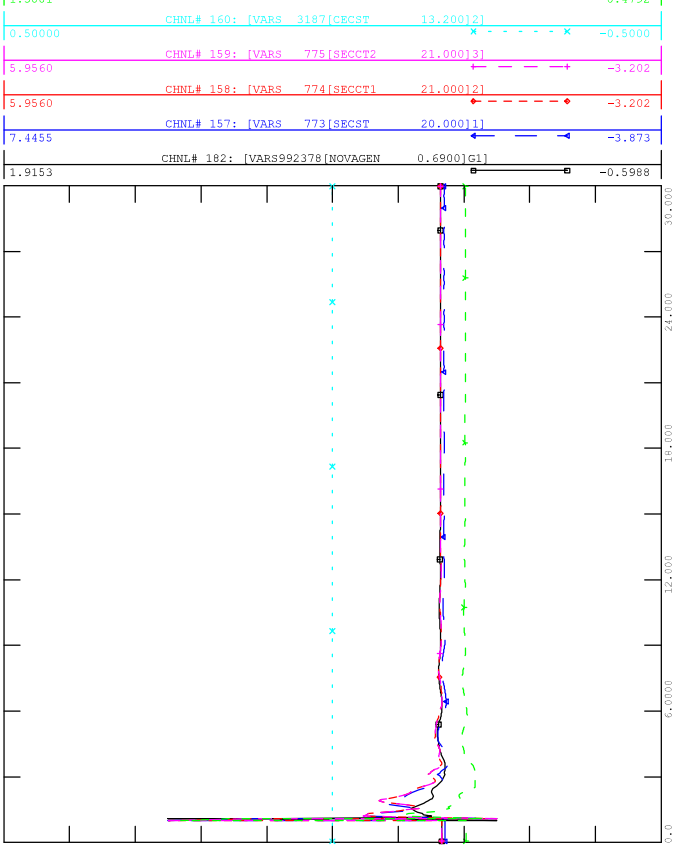
SAT, MAY 21 2022 1:19 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:19 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 272: [ETRM 3247[CAVAL A 13.800]1] 1.1660 0.58910

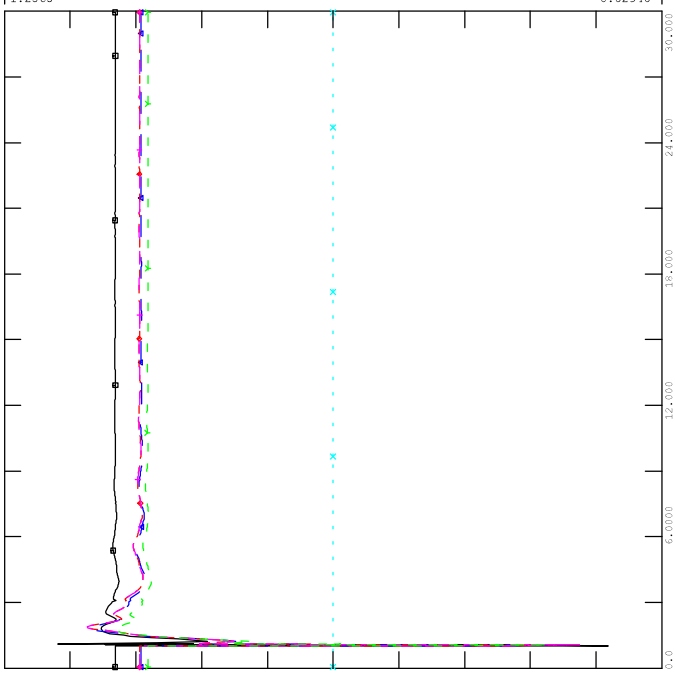
CHNL# 264: [ETRM 3187[CECST 13.200]2] 0.10000 -0.1000

CHNL# 263: [ETRM 775[SECCT2 21.000]3] 1.1636 0.36640

CHNL# 262: [ETRM 774[SECCT1 21.000]2] 1.1636 0.36640

CHNL# 261: [ETRM 773[SECST 20.000]1] 1.1620 0.38280

CHNL# 286: [ETRM992378[NOVAGEN 0.6900]G1] 1.2565 0.02940



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

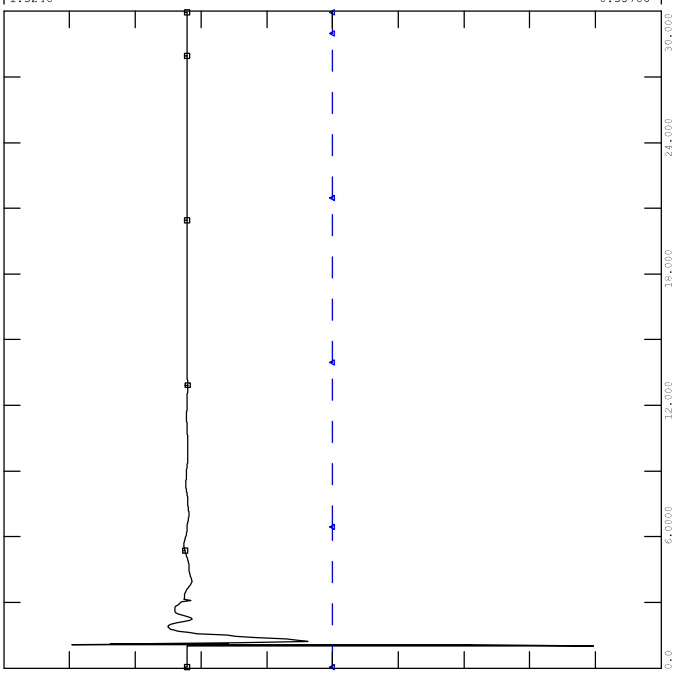
FILE: scn9_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 290: [ETRM 60434[P1927 G1 0.5500]1] 0.10000 -0.1000

CHNL# 308: [ETRM560041[BUFFALO6 0.6900]G1] 1.3246 0.35700



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

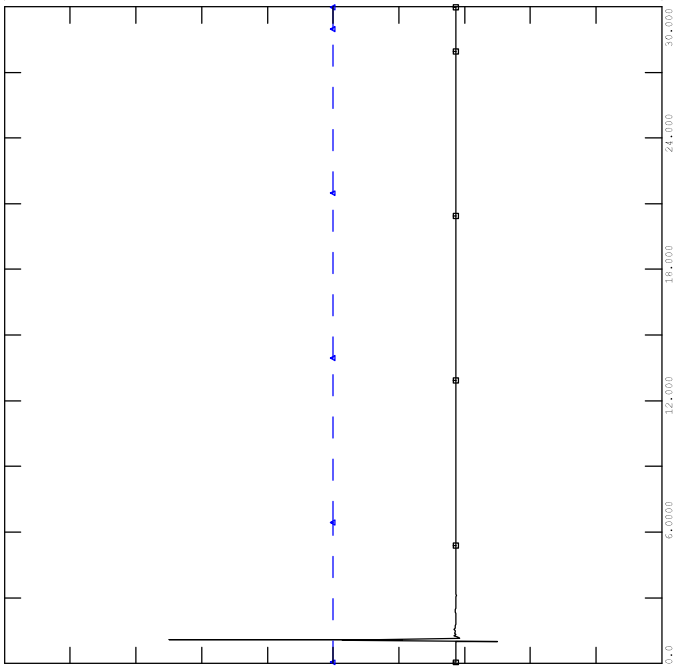
FILE: scn9_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 186: [VARS 60434[P1927 G1 0.5500]1] 0.50000 -0.5000

CHNL# 204: [VARS560041[BUFFALO6 0.6900]G1] 3.8403 -0.9661



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

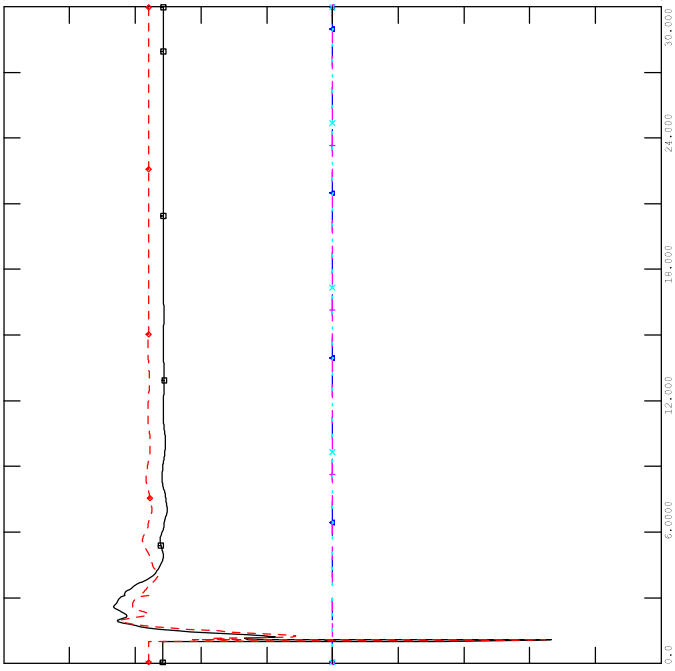
CHNL# 312: [ETRM563070[ENTPRIS_1 0.6900]G1] 0.10000 -0.1000

CHNL# 301: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000

CHNL# 302: [ETRM 61736[BSR_4 0.6900]1] 1.1749 0.60720

CHNL# 307: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000

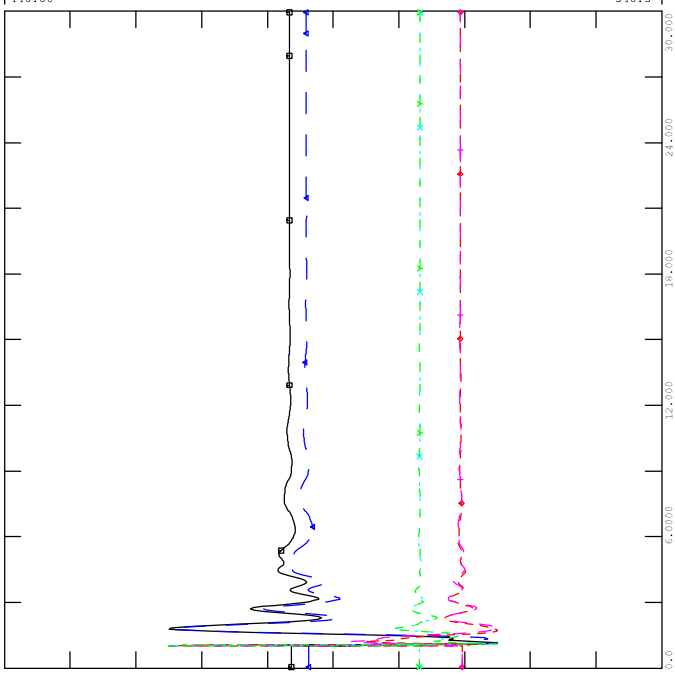
CHNL# 273: [ETRM 3251[CARSELA2 13.800]2] 1.1748 0.57640



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

CHNL# 357: [1107L P]
135.04 -714.0
CHNL# 335: [1106L P]
135.03 -714.1
CHNL# 347: [1005L P]
95.089 -343.1
CHNL# 359: [1036L P]
83.232 -484.6
CHNL# 351: [935L P]
359.38 -294.8
CHNL# 339: [923L P]
440.80 -340.3

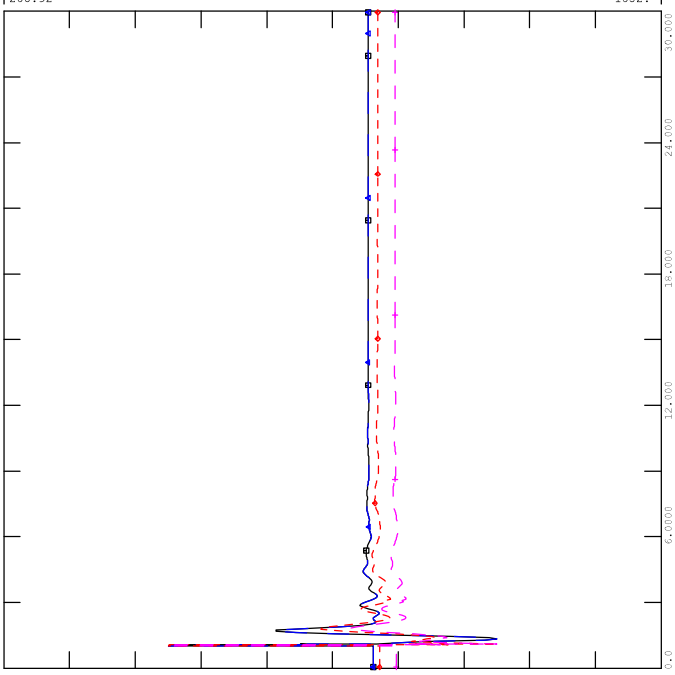


SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

CHNL# 353: [927L_A1_1 P]
353.97 -1088.
CHNL# 371: [924L P]
289.29 -892.5
CHNL# 341: [1003L P]
206.76 -1040.
CHNL# 365: [985L P]
208.92 -1052.

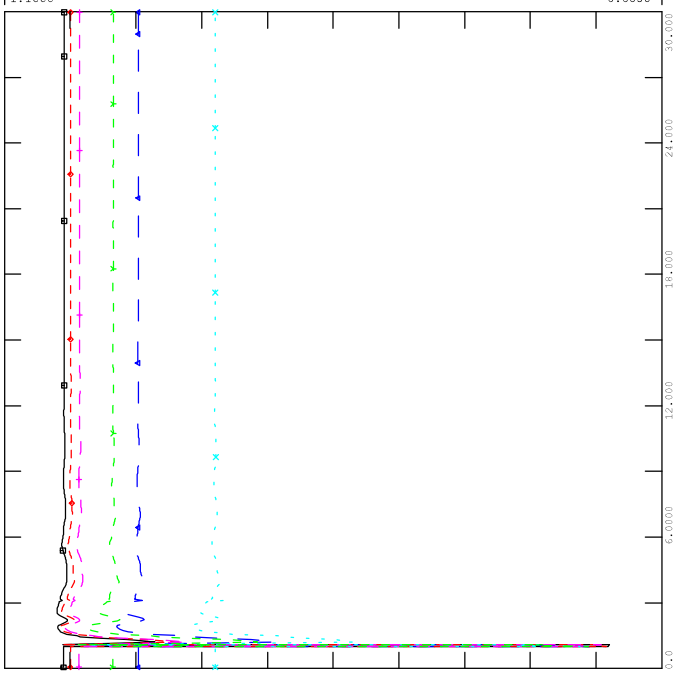


SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

FILE: scn9_SL_A1_16_937L_Langdon.out

CHNL# 329: [VOLT 451 [MATLB1 240.00]]
1.1967 0.29970
CHNL# 331: [VOLT 918 [CASS01 240.00]]
1.3161 0.51350
CHNL# 327: [VOLT 160 [JANET 4 240.00]]
1.1802 0.09620
CHNL# 334: [VOLT 902378 [927L_TAP 240.00]]
1.1711 -0.0073
CHNL# 332: [VOLT 943 [MILO 1 240.00]]
1.2479 0.33560
CHNL# 326: [VOLT 159 [LANGDON4 240.00]]
1.1666 -0.0858

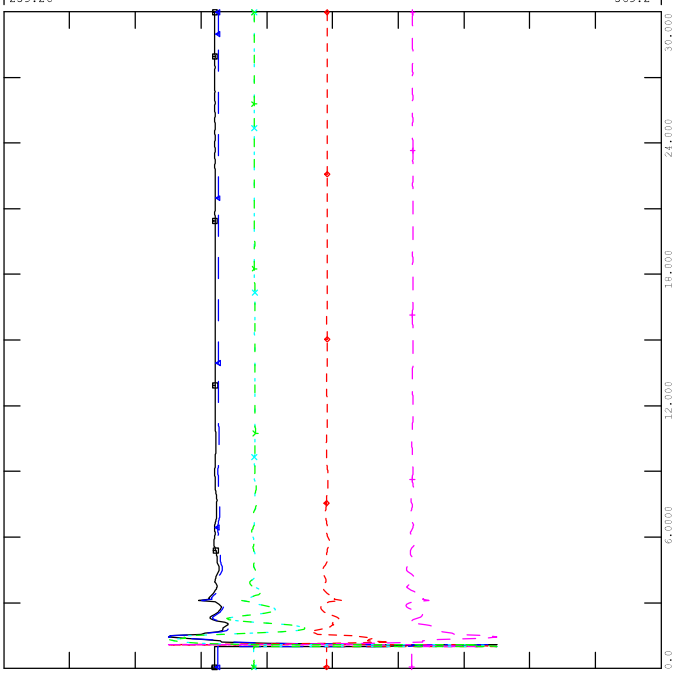


SAT, MAY 21 2022 1:19 BUS VOLTAGE

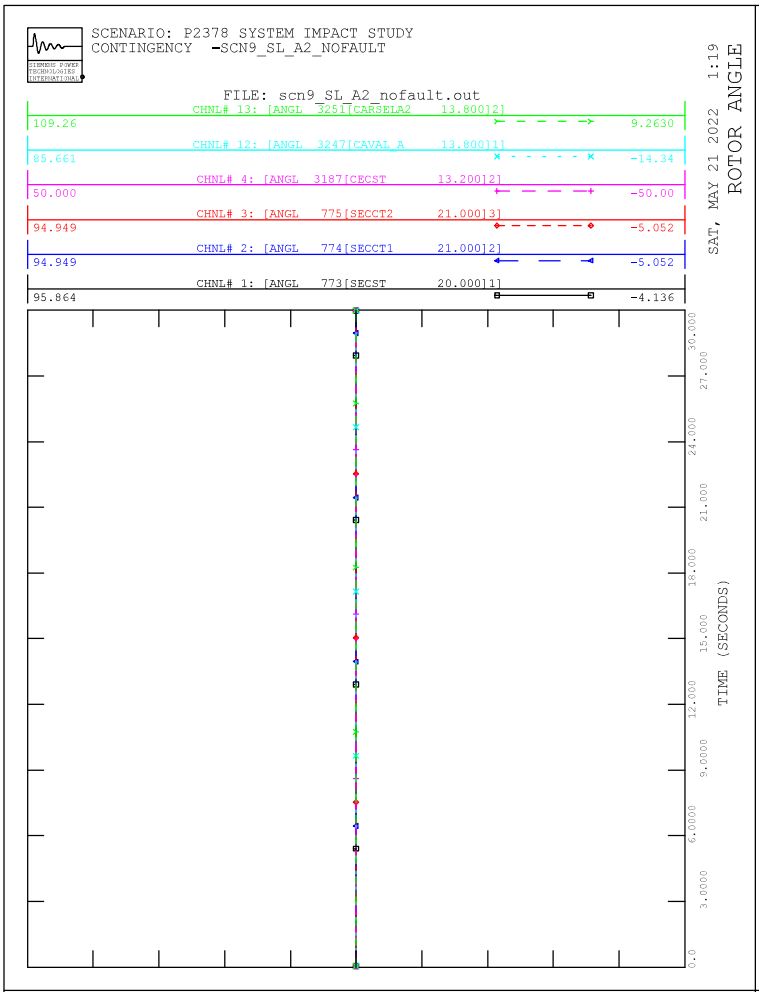
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON

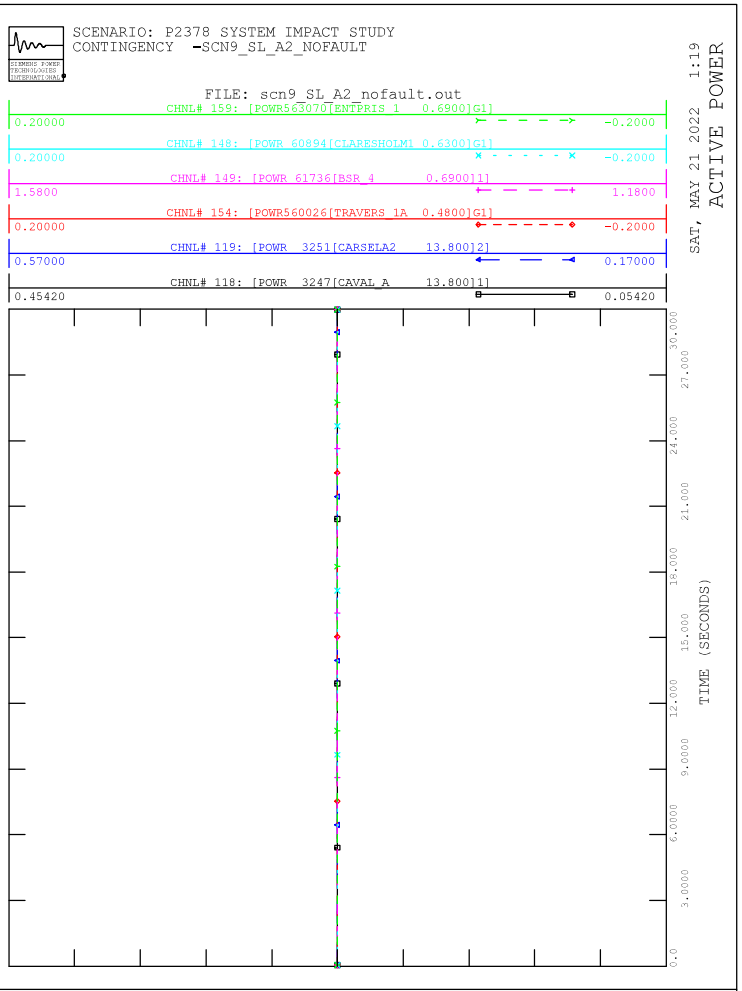
FILE: scn9_SL_A1_16_937L_Langdon.out

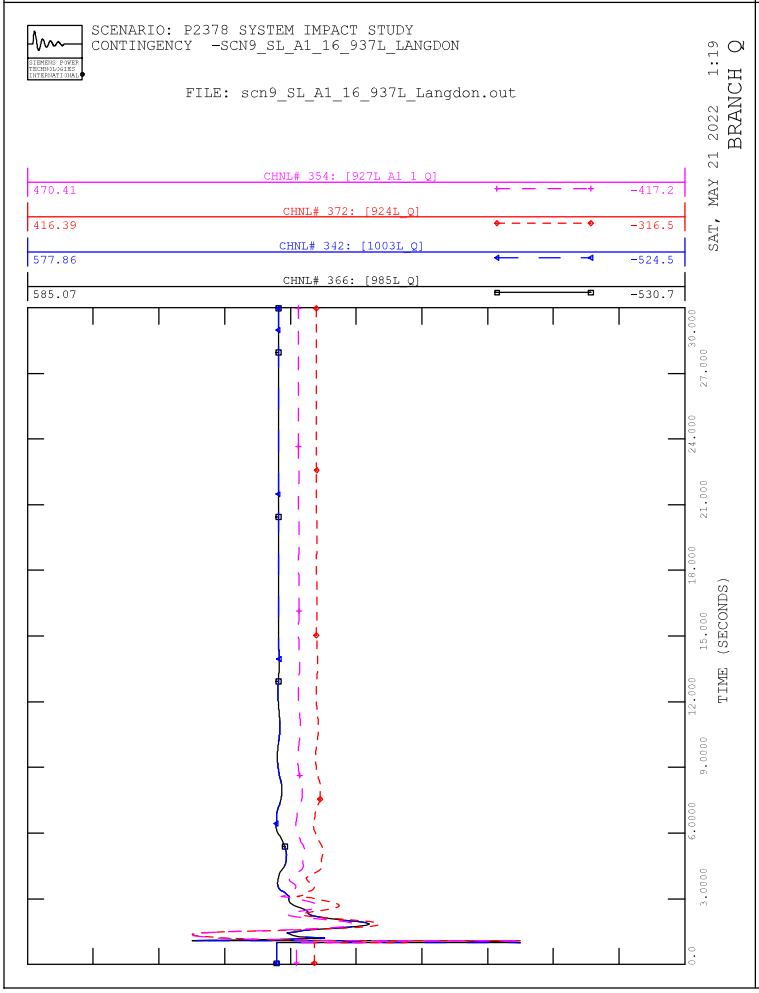
CHNL# 358: [1107L Q]
279.25 -133.3
CHNL# 336: [1106L Q]
279.46 -133.4
CHNL# 348: [1005L Q]
196.69 -39.82
CHNL# 360: [1036L Q]
284.49 -149.5
CHNL# 352: [935L Q]
222.97 -488.5
CHNL# 340: [923L Q]
259.26 -569.2

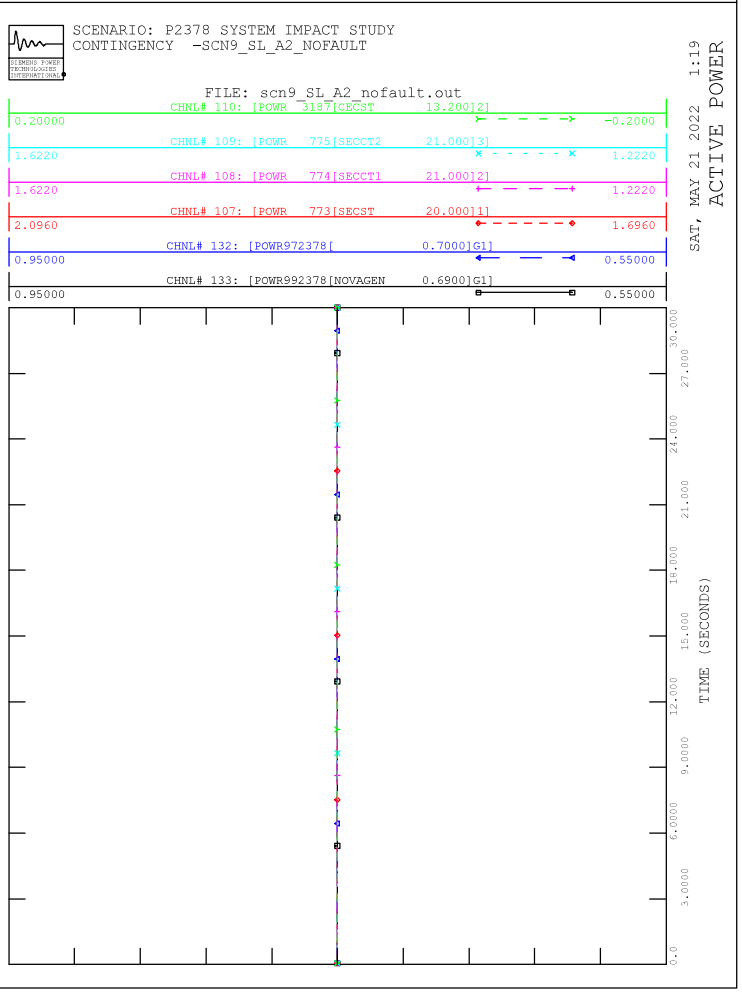


SAT, MAY 21 2022 1:19 BRANCH Q


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT
FILE: scn9_SL_A2_nofault.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
109.26
9.2630
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
85.661
-14.34
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
94.949
-5.052
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
94.949
-5.052
CHNL# 1: [ANGL 773[SECST 20.000]1]
95.864
-4.136
SAT, MAY 21 2022 1:19
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT
FILE: scn9_SL_A2_nofault.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000
-0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.5800
1.1800
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.57000
0.17000
CHNL# 118: [POWR 3247[CAVAL_A 13.800]1]
0.45420
0.05420
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A1_16_937L_LANGDON
FILE: scn9_SL_A1_16_937L_Langdon.out
CHNL# 354: [927L A1 1 Q]
470.41
-417.2
CHNL# 372: [924L Q]
416.39
-316.5
CHNL# 342: [1003L Q]
577.86
-524.5
CHNL# 366: [985L Q]
585.07
-530.7
SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT
FILE: scn9_SL_A2_nofault.out
CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000
-0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
1.6220
1.2220
CHNL# 108: [POWR 774[SECCT1 21.000]2]
1.6220
1.2220
CHNL# 107: [POWR 773[SECST 20.000]1]
2.0960
1.6960
CHNL# 132: [POWR972378[0.7000]G1]
0.95000
0.55000
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
0.95000
0.55000
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

FILE: scn9_SL_A2_nofault.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
0.32160 -0.6784
CHNL# 161: [VARS 774[SECCT1 21.000]2]
0.32160 -0.6784
CHNL# 160: [VARS 773[SECST 20.000]1]
0.31100 -0.6890
CHNL# 185: [VARS972378[0.7000]G1]
0.46460 -0.5354
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.67960 -0.3204

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

FILE: scn9_SL_A2_nofault.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
0.50170 -0.4983

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

FILE: scn9_SL_A2_nofault.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.3436 1.9436

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

FILE: scn9_SL_A2_nofault.out

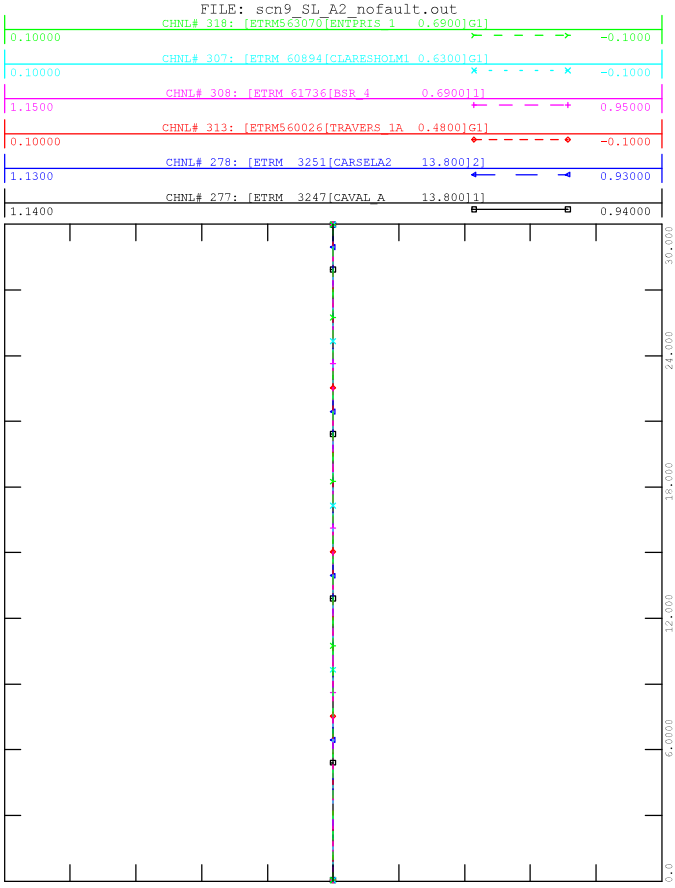
CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
0.78130 -0.2187
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
0.48660 -0.5134
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.54930 -0.4507

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

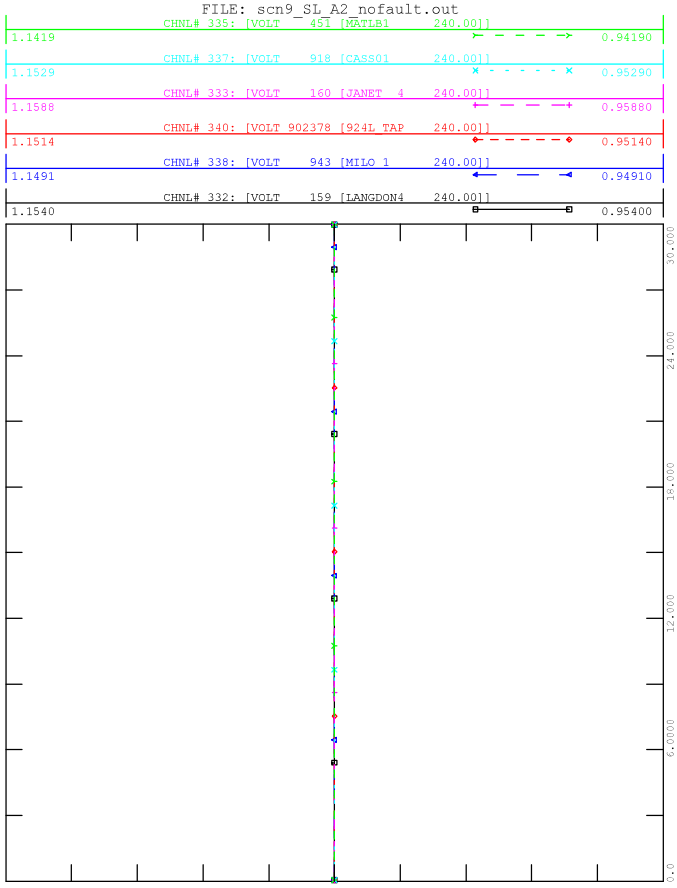
FILE: scn9_SL_A2_nofault.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

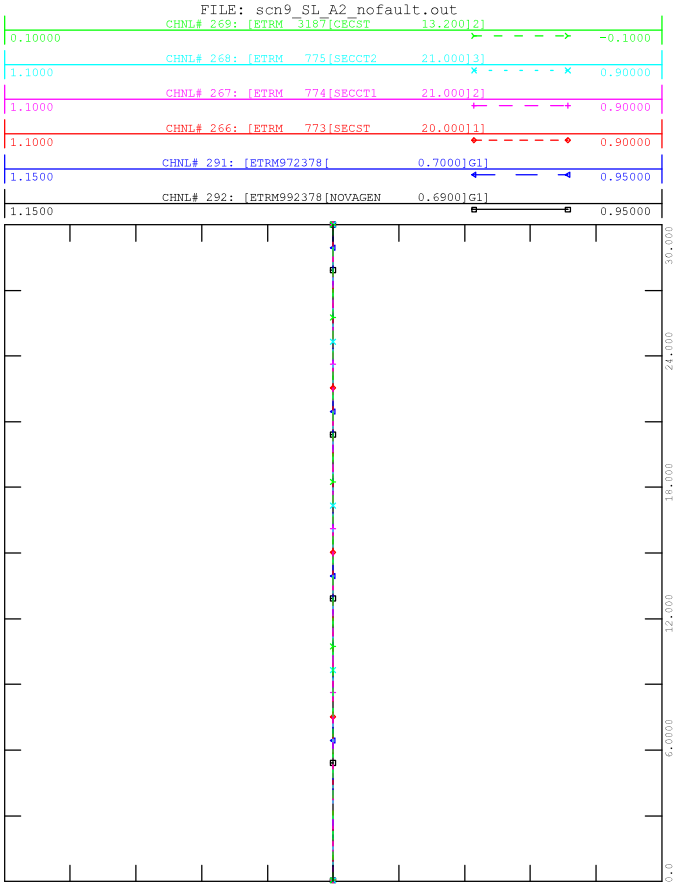
FILE: scn9_SL_A2_nofault.out



SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

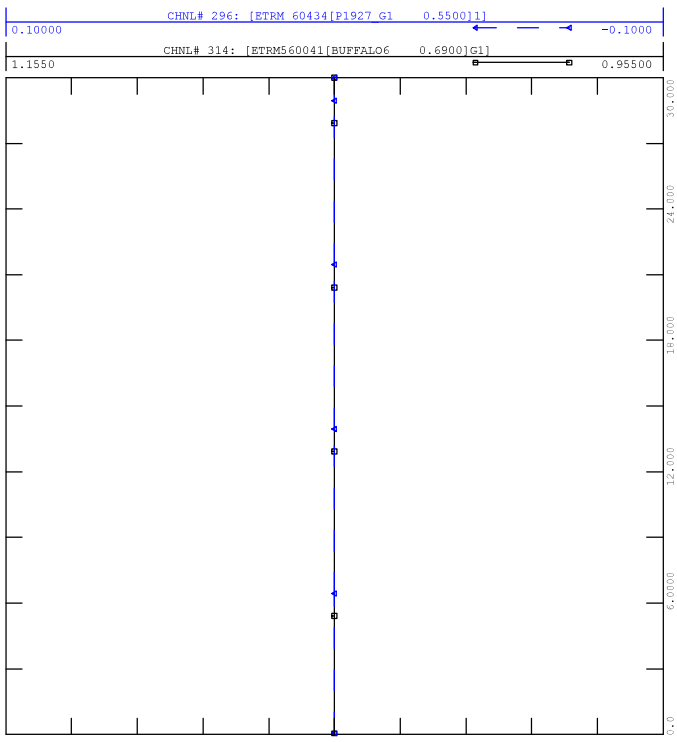
FILE: scn9_SL_A2_nofault.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

FILE: scn9_SL_A2_nofault.out

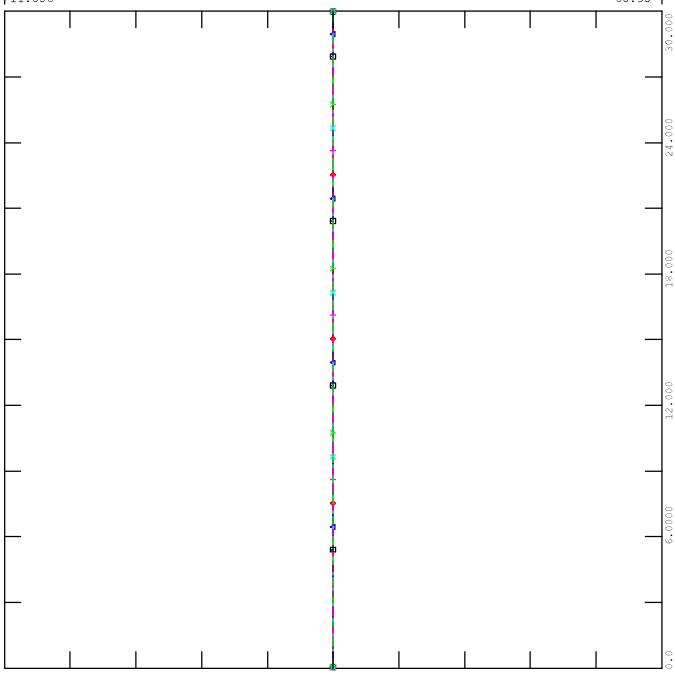


SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

FILE: scn9_SL_A2_nofault.out

CHNL# 360: [1107L Q]
170.18 — 90.179
CHNL# 342: [1106L Q]
170.31 — 90.309
CHNL# 354: [1005L Q]
77.748 — -2.254
CHNL# 364: [1036L Q]
99.511 — 19.510
CHNL# 358: [935L Q]
9.9637 — -70.04
CHNL# 346: [923L Q]
11.056 — -68.95

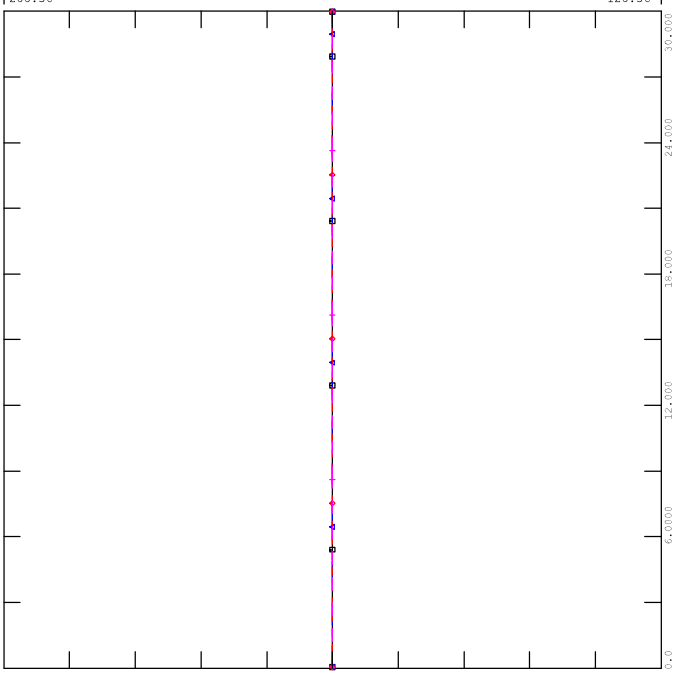


SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

FILE: scn9_SL_A2_nofault.out

CHNL# 380: [927L A2 1 Q]
164.61 — 84.604
CHNL# 362: [924L A2 1 Q]
151.15 — 71.151
CHNL# 348: [1003L Q]
198.17 — 118.16
CHNL# 372: [985L Q]
200.36 — 120.36

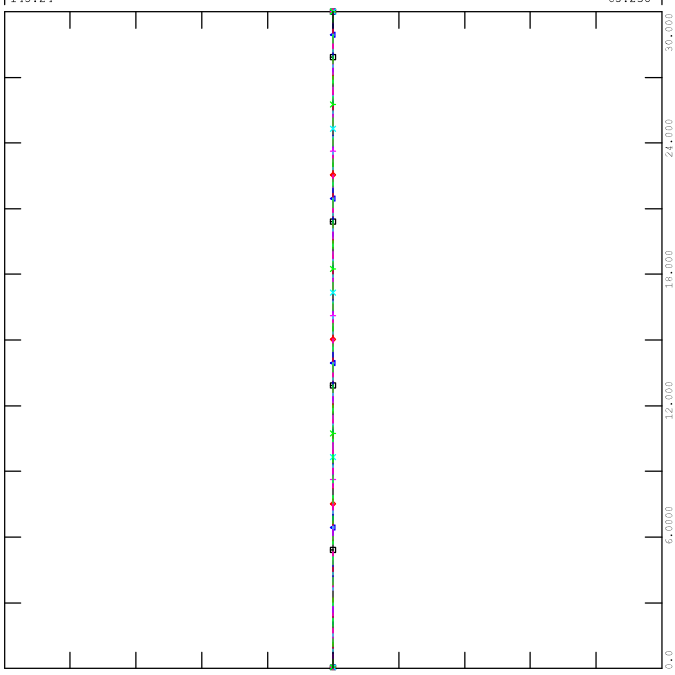


SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

FILE: scn9_SL_A2_nofault.out

CHNL# 359: [1107L P]
-364.5 — -444.5
CHNL# 341: [1106L P]
-364.6 — -444.6
CHNL# 353: [1005L P]
-168.9 — -248.9
CHNL# 363: [1036L P]
-270.8 — -350.8
CHNL# 357: [935L P]
102.43 — 22.427
CHNL# 345: [923L P]
145.24 — 65.238

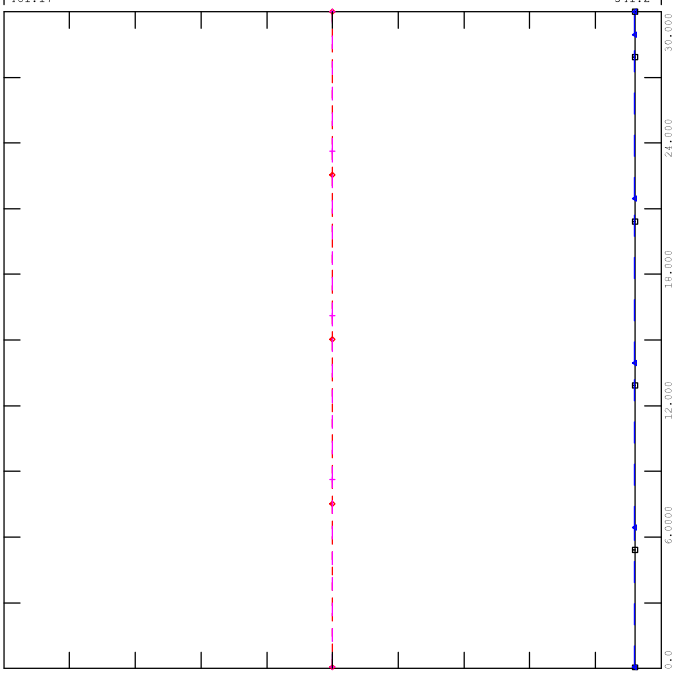


SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_NOFAULT

FILE: scn9_SL_A2_nofault.out

CHNL# 379: [927L A2 1 P]
-402.3 — -482.3
CHNL# 361: [924L A2 1 P]
-400.2 — -480.2
CHNL# 347: [1003L P]
455.50 — -535.5
CHNL# 371: [985L P]
461.17 — -541.2



SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
3.0016 0.03340
CHNL# 108: [POWR 774[SECCT1 21.000]2]
3.0016 0.03340
CHNL# 107: [POWR 773[SECST 20.000]1]
3.7055 0.27170
CHNL# 132: [POWR972378[0.7000]G1]
1.0170 -0.1960
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
0.95000 -0.2000

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
3.2643 0.09520

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
165.77 -8.465
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
132.57 -26.57
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
142.73 -30.70
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
142.73 -30.70
CHNL# 1: [ANGL 773[SECST 20.000]1]
144.43 -25.43

SAT, MAY 21 2022 1:19
ROTOR ANGLE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.7931 0.16640
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.83670 -0.0776
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.62170 -0.0754

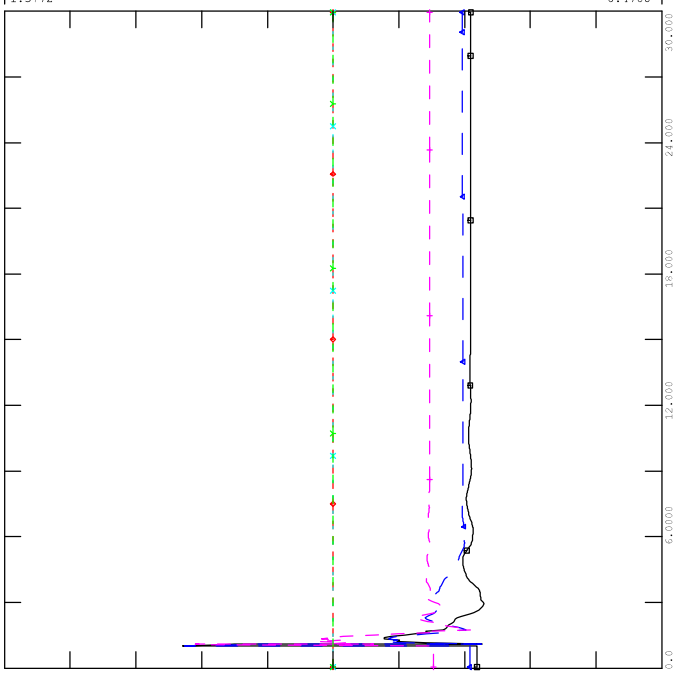
SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.4034 -0.3160
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2772 -0.5463
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3772 -0.4708



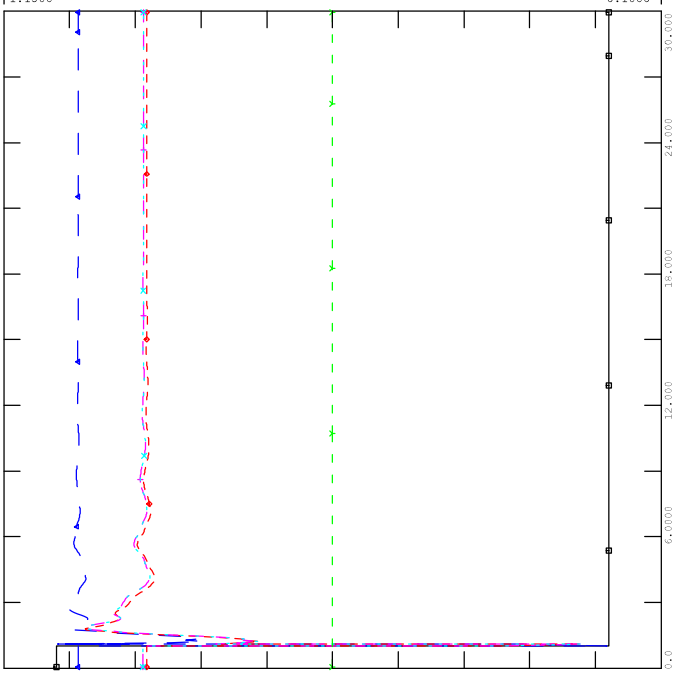
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1740 0.35280
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1740 0.35280
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1750 0.36980
CHNL# 291: [ETRM972378[0.7000]G1]
1.1872 -0.0287
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500 -0.1000



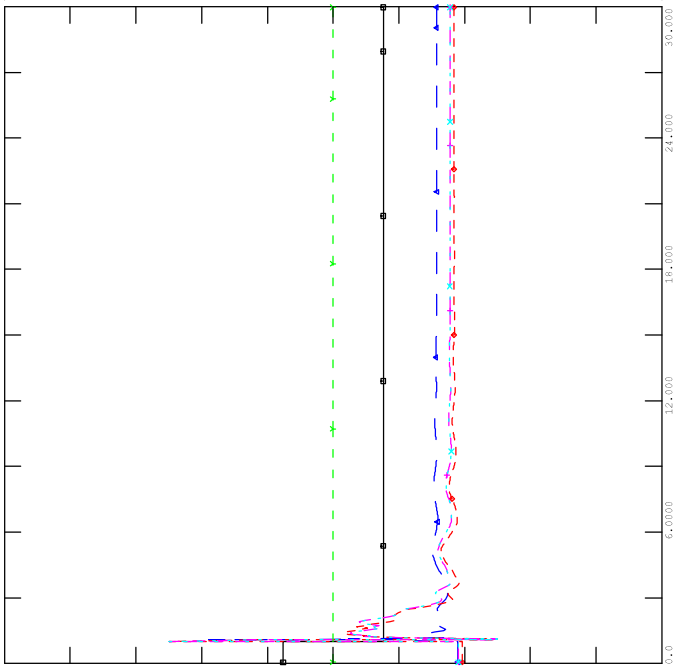
TIME (SECONDS)

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.8285 -2.867
CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.8285 -2.867
CHNL# 160: [VARS 773[SECST 20.000]1]
7.2903 -3.451
CHNL# 185: [VARS972378[0.7000]G1]
1.0754 -0.5354
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.67960 -0.5000



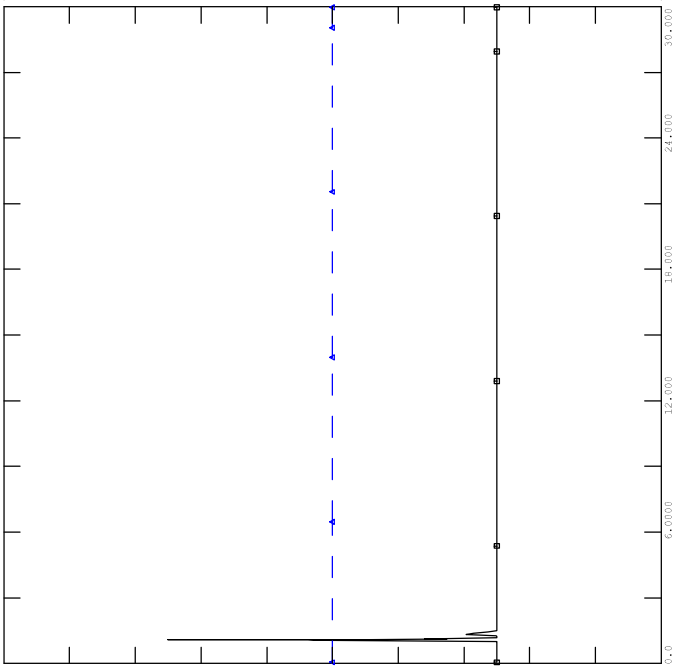
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
2.8683 -0.9552



TIME (SECONDS)

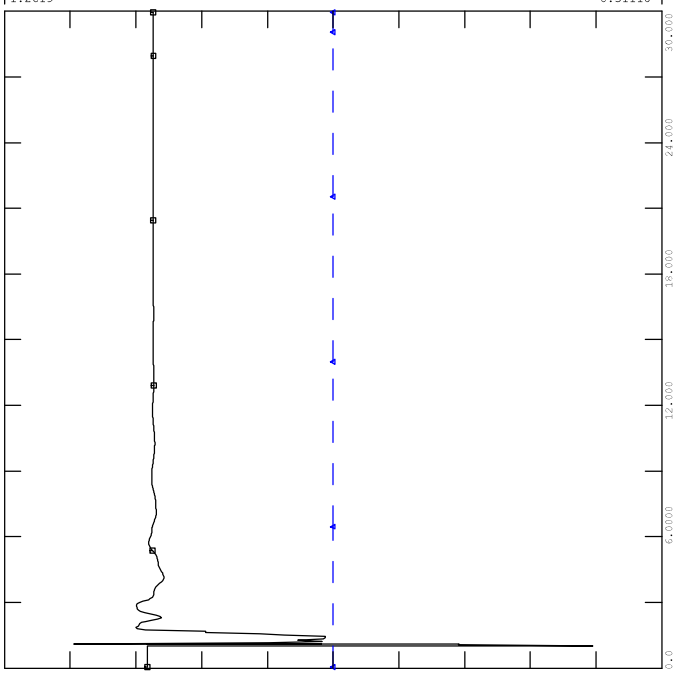
SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1] 0.10000 -0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1] 1.2619 0.31110

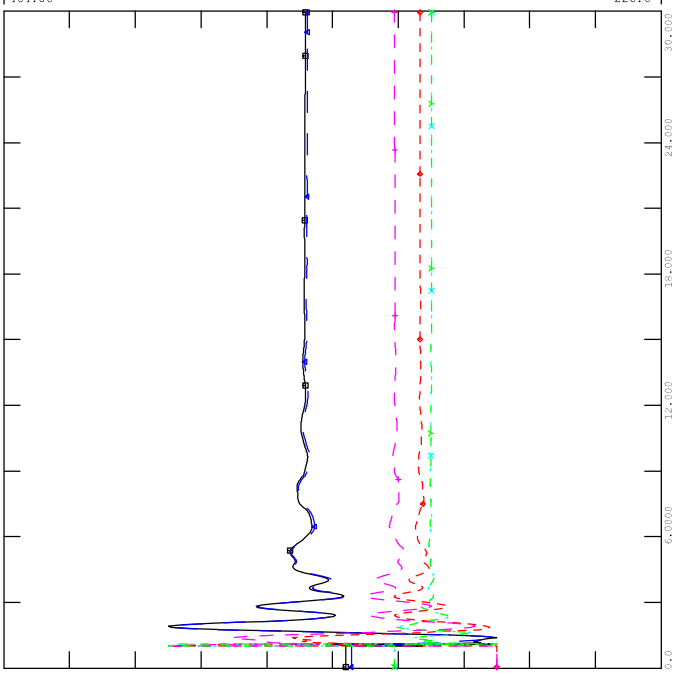


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:19 BRANCH P

CHNL# 359: [1107L P] 164.28 -793.3
CHNL# 341: [1106L P] 164.28 -793.4
CHNL# 353: [1005L P] 78.872 -304.8
CHNL# 363: [1036L P] 69.905 -437.8
CHNL# 357: [935L P] 398.82 -237.6
CHNL# 345: [923L P] 464.86 -226.6

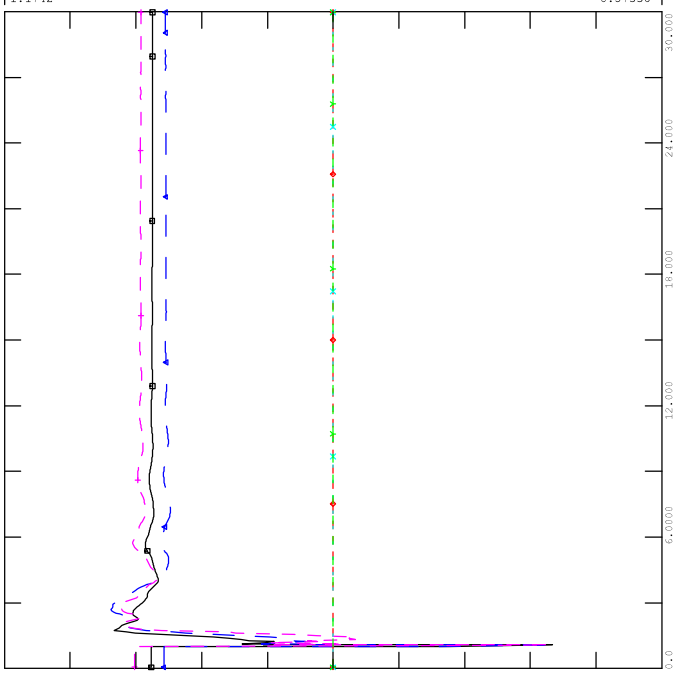


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

FILE: scn9_SL_A2_01_924L_Langdon.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[BNTPRIS 1 0.6900]G1] 0.10000 -0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1] 1.1636 0.58960
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2] 1.1792 0.56340
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1] 1.1742 0.57330

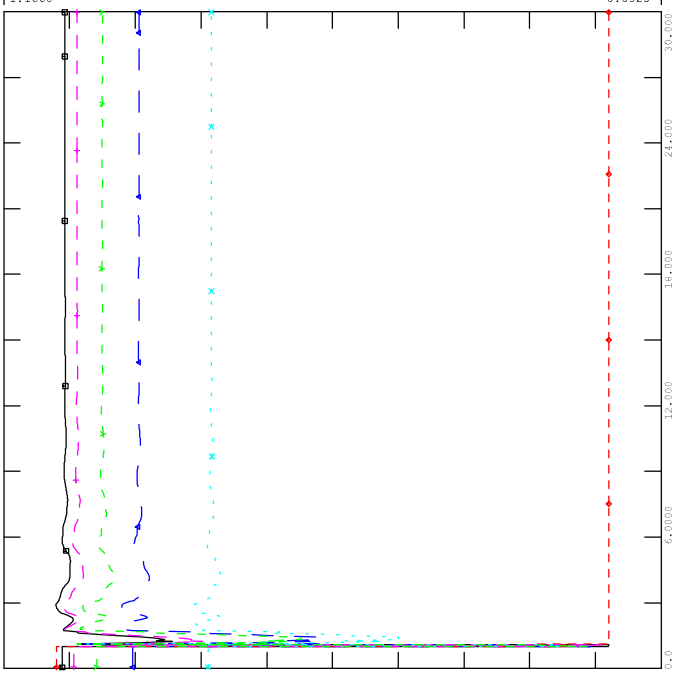


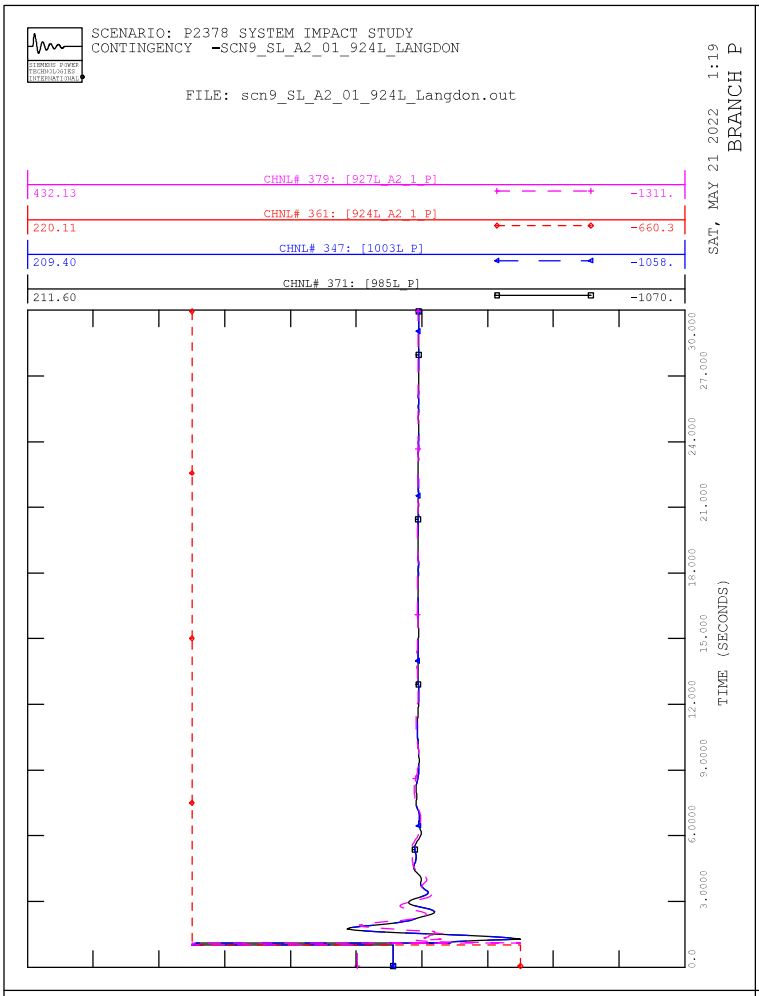
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON

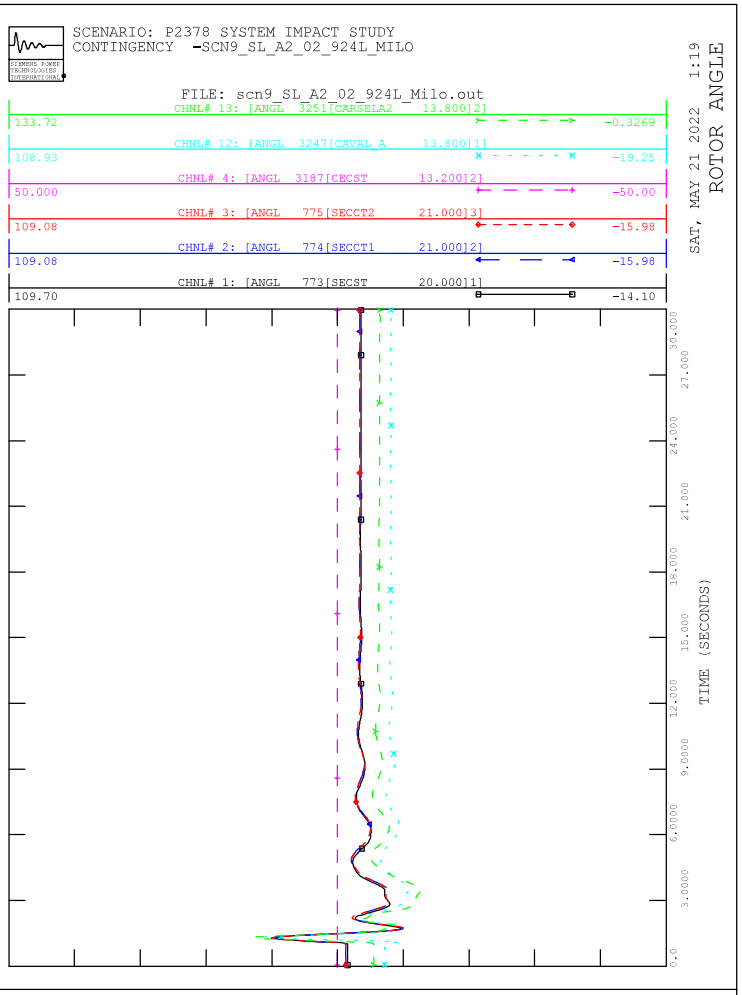
FILE: scn9_SL_A2_01_924L_Langdon.out

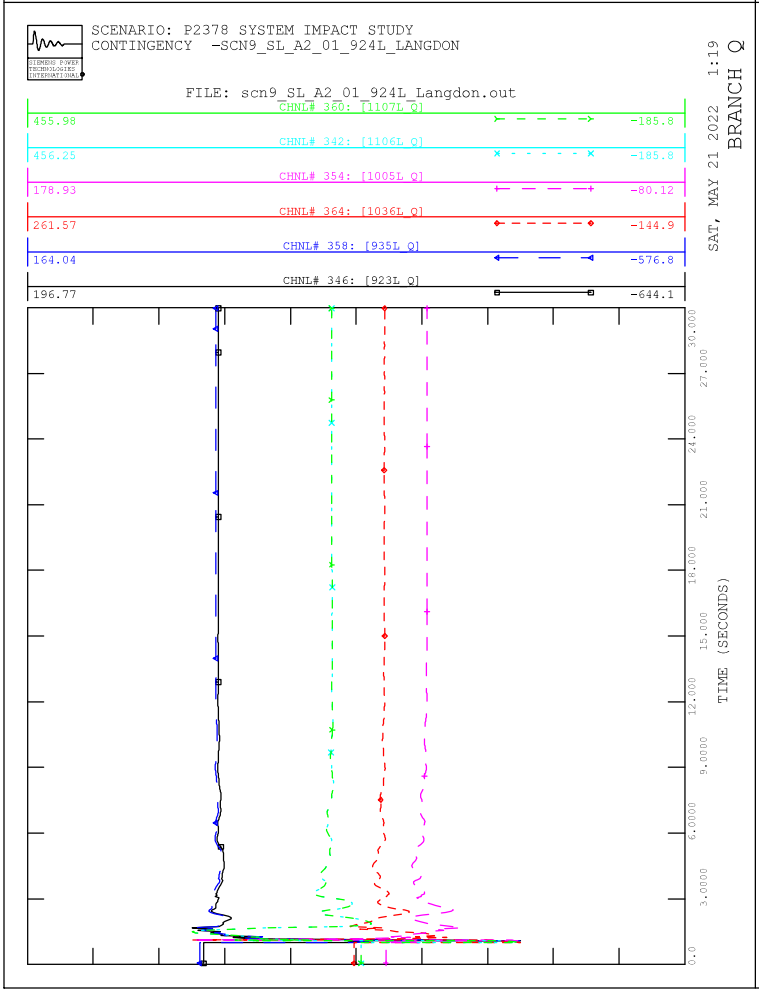
SAT, MAY 21 2022 1:19 BUS VOLTAGE

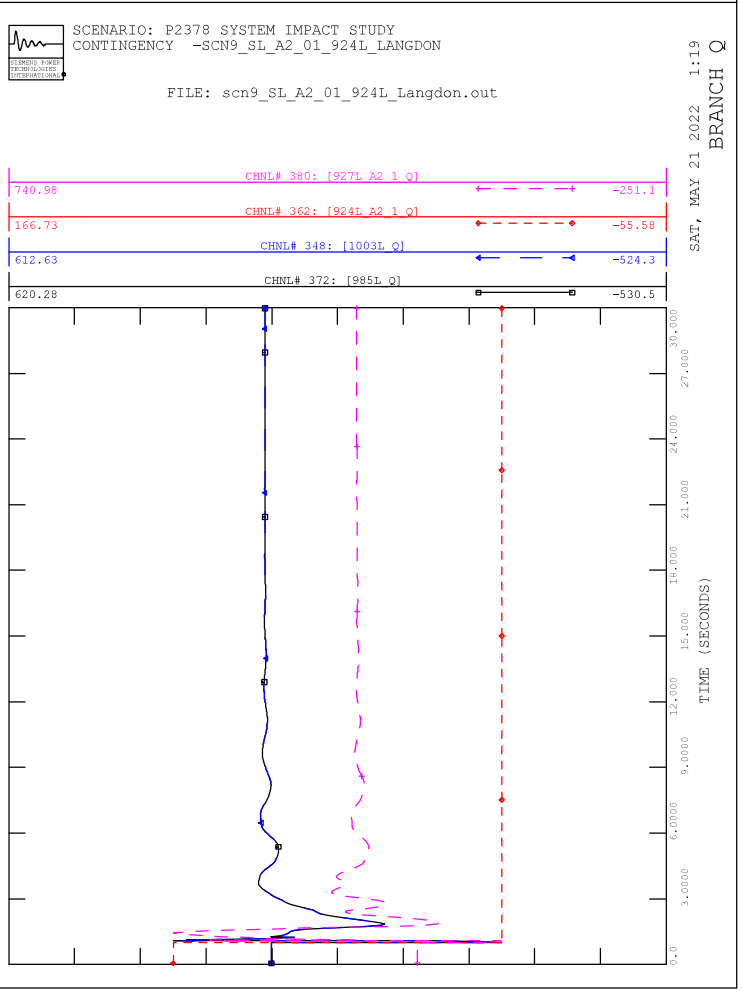
CHNL# 335: [VOLT 451 [MATLB1 240.00]] 1.1688 0.27240
CHNL# 337: [VOLT 918 [CASS01 240.00]] 1.3055 0.49350
CHNL# 333: [VOLT 160 [JANET 4 240.00]] 1.1747 0.08380
CHNL# 340: [VOLT 902378 [924L TAP 240.00]] 1.1514 -0.1000
CHNL# 338: [VOLT 943 [MILO 1 240.00]] 1.2305 0.30670
CHNL# 332: [VOLT 159 [LANGDON4 240.00]] 1.1660 -0.0925




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON
FILE: scn9_SL_A2_01_924L_Langdon.out
CHNL# 379: [927L_A2_1_P]
432.13
-1311.
CHNL# 361: [924L_A2_1_P]
220.11
-660.3
CHNL# 347: [1003L_P]
209.40
-1058.
CHNL# 371: [985L_P]
211.60
-1070.
BRANCH P
SAT, MAY 21 2022 1:19
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO
FILE: scn9_SL_A2_02_924L_Milo.out
CHNL# 13: [ANGL 3251[CARBELA2 13.800]2]
133.72
-0.3269
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
108.93
-19.25
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
109.08
-15.98
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
109.08
-15.98
CHNL# 1: [ANGL 773[SECST 20.000]1]
109.70
-14.10
ROTOR ANGLE
SAT, MAY 21 2022 1:19
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON
FILE: scn9_SL_A2_01_924L_Langdon.out
CHNL# 360: [1107L_Q]
455.98
-185.8
CHNL# 342: [1106L_Q]
456.25
-185.8
CHNL# 354: [1005L_Q]
178.93
-80.12
CHNL# 364: [1036L_Q]
261.57
-144.9
CHNL# 358: [935L_Q]
164.04
-576.8
CHNL# 346: [923L_Q]
196.77
-644.1
BRANCH Q
SAT, MAY 21 2022 1:19
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_01_924L_LANGDON
FILE: scn9_SL_A2_01_924L_Langdon.out
CHNL# 380: [927L_A2_1_Q]
740.98
-251.1
CHNL# 362: [924L_A2_1_Q]
166.73
-55.58
CHNL# 348: [1003L_Q]
612.63
-524.3
CHNL# 372: [985L_Q]
620.28
-530.5
BRANCH Q
SAT, MAY 21 2022 1:19
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO

FILE: scn9_SL_A2_02_924L_Milo.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
2.0098 0.06530
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.65350 0.04960
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.64590 -0.1771

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO

FILE: scn9_SL_A2_02_924L_Milo.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
3.4566 -1.630
CHNL# 161: [VARS 774[SECCT1 21.000]2]
3.4566 -1.630
CHNL# 160: [VARS 773[SECST 20.000]1]
4.2754 -1.946
CHNL# 185: [VARS972378[0.7000]G1]
0.74230 -0.5354
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.67960 -0.5000

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO

FILE: scn9_SL_A2_02_924L_Milo.out

CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.1531 0.95800
CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.1531 0.95800
CHNL# 107: [POWR 773[SECST 20.000]1]
2.6838 1.4296
CHNL# 132: [POWR972378[0.7000]G1]
1.0740 0.01940
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
0.95000 -0.2000

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

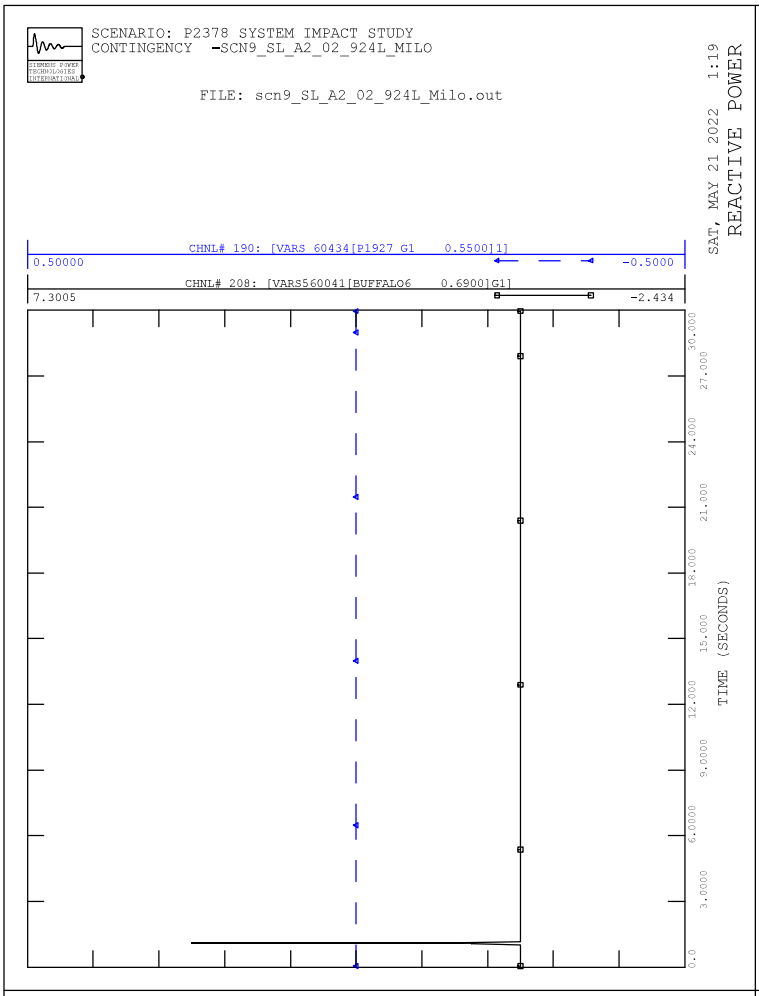
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO

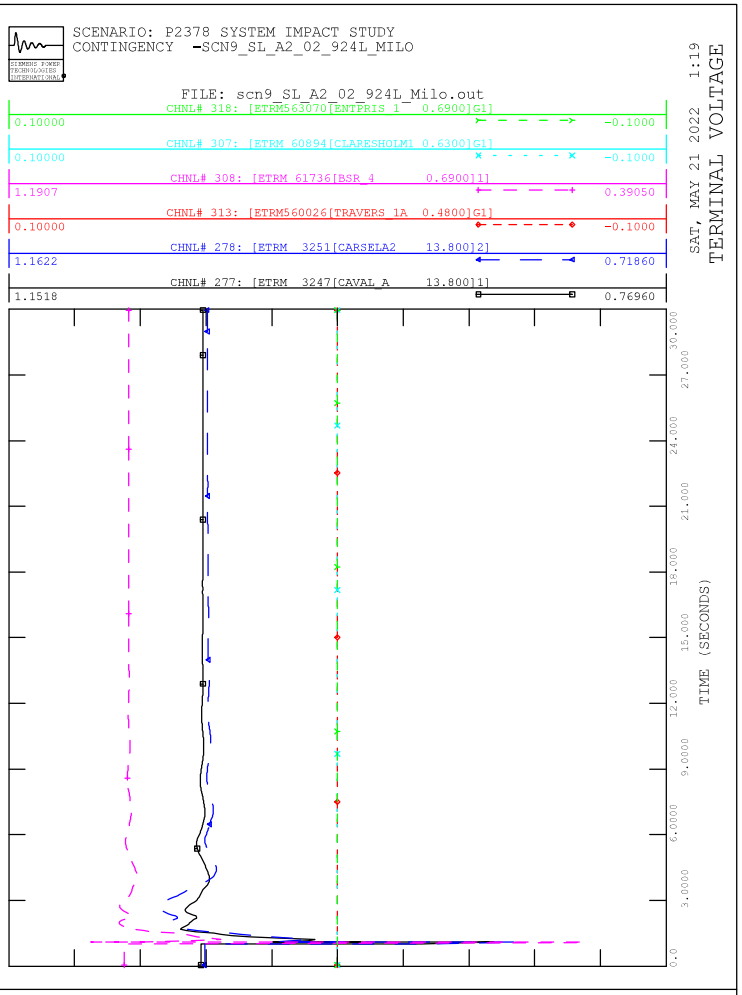
FILE: scn9_SL_A2_02_924L_Milo.out

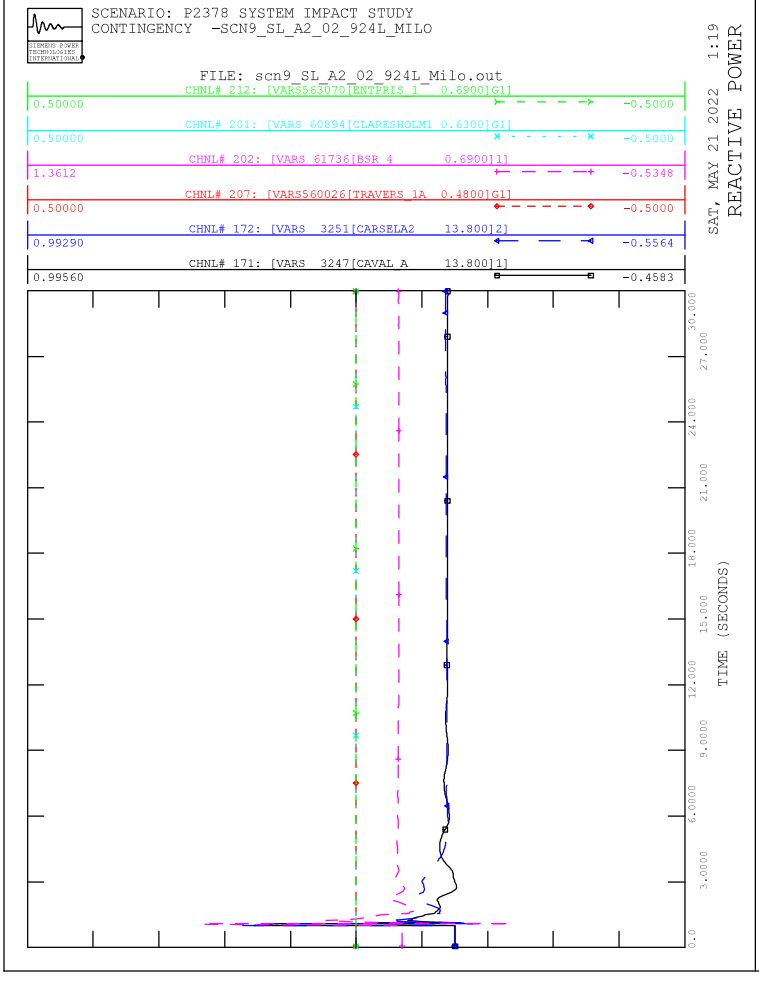
CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.4207 -0.2000

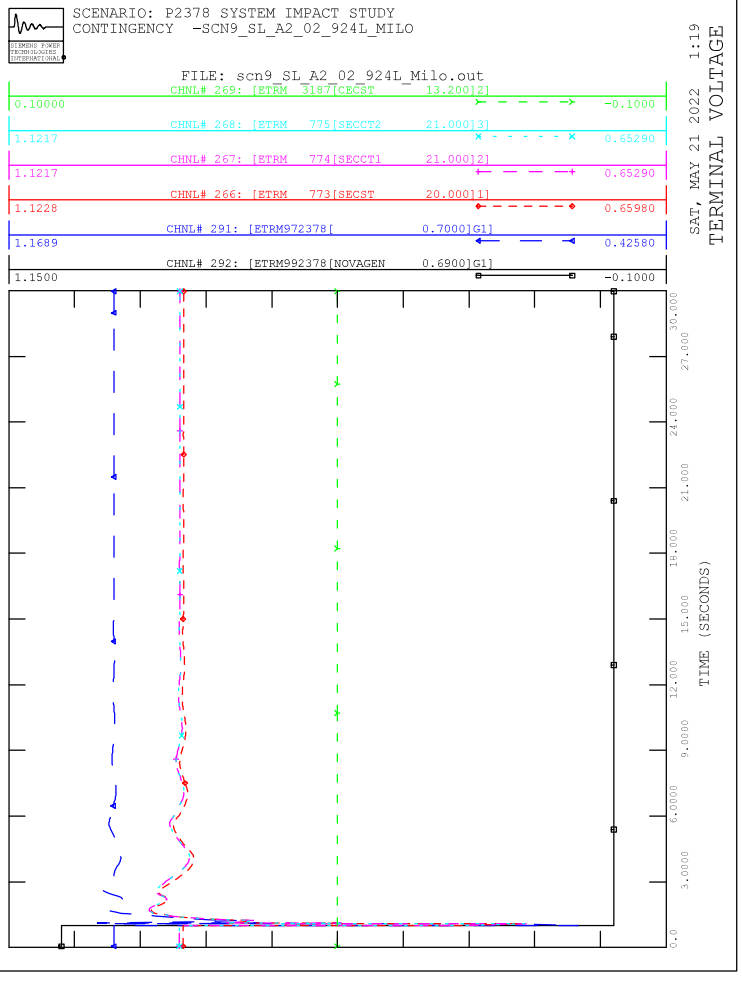
SAT, MAY 21 2022 1:19
ACTIVE POWER

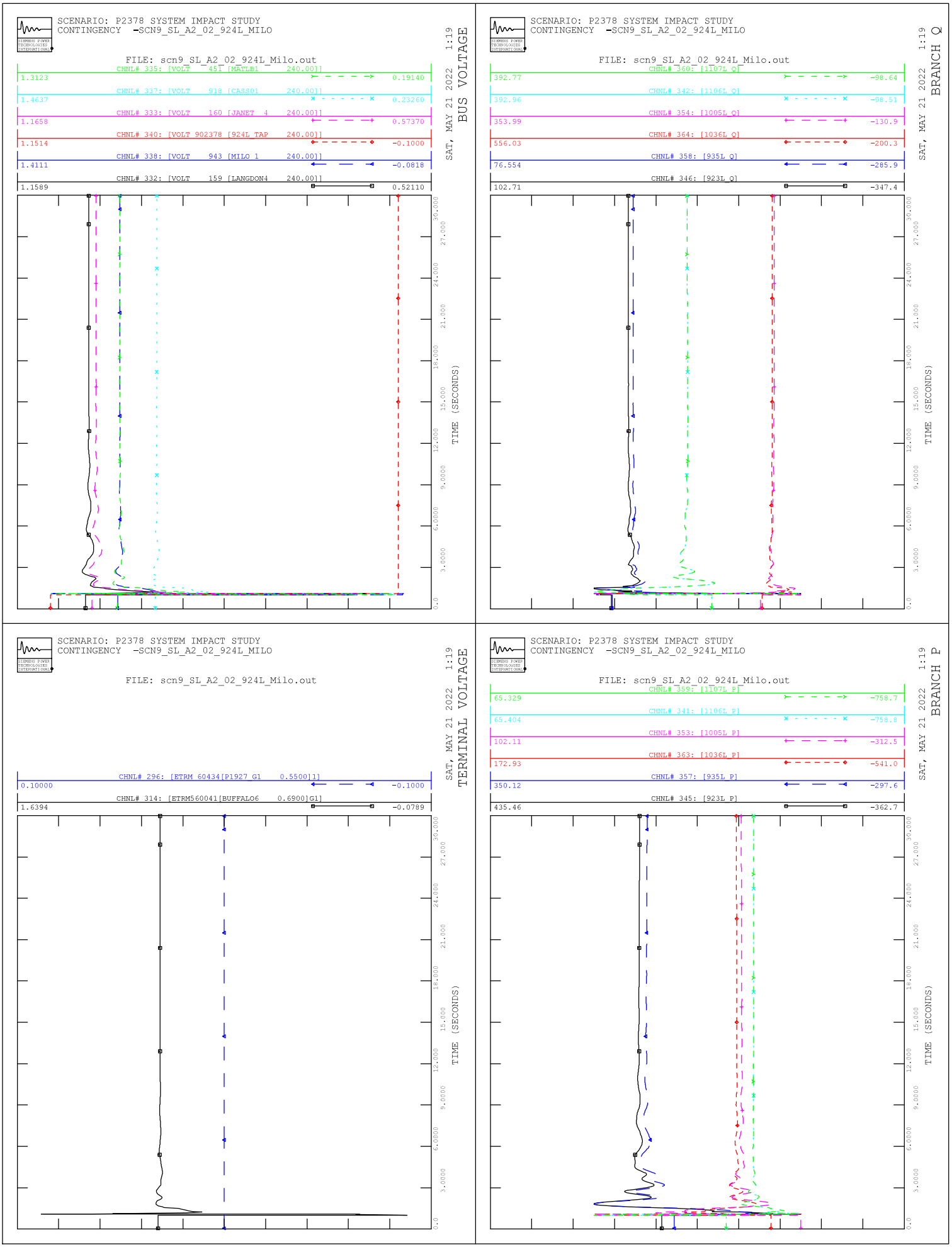
TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO
FILE: scn9_SL_A2_02_924L_Milo.out
CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000
-0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
7.3005
-2.434
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO
FILE: scn9_SL_A2_02_924L_Milo.out
CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000
-0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000
-0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1907
0.39050
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000
-0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1622
0.71860
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1518
0.76960
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO
FILE: scn9_SL_A2_02_924L_Milo.out
CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000
-0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000
-0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3612
-0.5348
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000
-0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
0.99290
-0.5564
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.99560
-0.4583
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO
FILE: scn9_SL_A2_02_924L_Milo.out
CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000
-0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1217
0.65290
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1217
0.65290
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1228
0.65980
CHNL# 291: [ETRM972378[0.7000]G1]
1.1689
0.42580
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1500
-0.1000
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

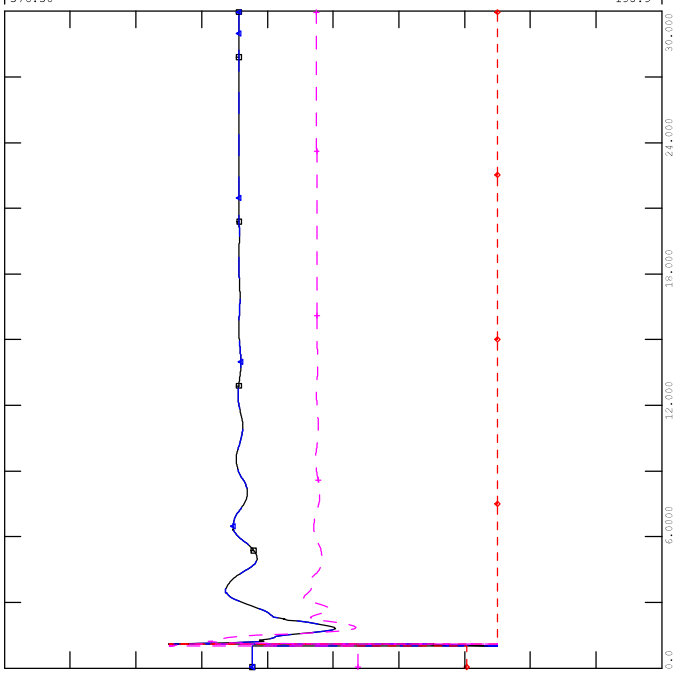

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO
FILE: scn9_SL_A2_02_924L_Milo.out
SAT, MAY 21 2022 1:19
BUS VOLTAGE
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.3123
0.19140
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.4637
0.23260
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1658
0.57370
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1514
-0.1000
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.4111
-0.0818
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1589
0.52110
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO
FILE: scn9_SL_A2_02_924L_Milo.out
SAT, MAY 21 2022 1:19
BRANCH Q
CHNL# 360: [1107L Q]
392.77
-98.64
CHNL# 342: [1106L Q]
392.96
-98.51
CHNL# 354: [1005L Q]
353.99
-130.9
CHNL# 364: [1036L Q]
556.03
-200.3
CHNL# 358: [935L Q]
76.554
-285.9
CHNL# 346: [923L Q]
102.71
-347.4
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO
FILE: scn9_SL_A2_02_924L_Milo.out
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000
-0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.6394
-0.0789
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO
FILE: scn9_SL_A2_02_924L_Milo.out
SAT, MAY 21 2022 1:19
BRANCH P
CHNL# 359: [1107L P]
65.329
-758.7
CHNL# 341: [1106L P]
65.404
-758.8
CHNL# 353: [1005L P]
102.11
-312.5
CHNL# 363: [1036L P]
172.93
-541.0
CHNL# 357: [935L P]
350.12
-297.6
CHNL# 345: [923L P]
435.46
-362.7
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO

FILE: scn9_SL_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:19 BRANCH Q

CHNL# 380: [927L_A2_1_Q] 903.79 -545.4
CHNL# 362: [924L_A2_1_Q] 1771.4 -590.5
CHNL# 348: [1003L_Q] 371.48 -193.8
CHNL# 372: [985L_Q] 376.30 -195.9

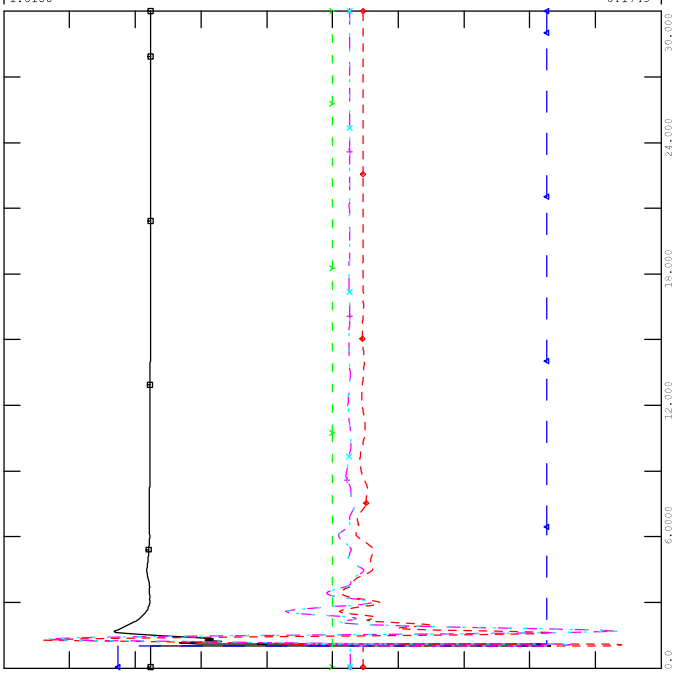


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON

FILE: scn9_SL_A2_03_927L_Langdon.out

SAT, MAY 21 2022 1:19 ACTIVE POWER

CHNL# 110: [POWR 3187[CECST 13.200]2] 0.20000 -0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3] 2.9669 0.03270
CHNL# 108: [POWR 774[SECCT1 21.000]2] 2.9669 0.03270
CHNL# 107: [POWR 773[SECST 20.000]1] 3.7127 0.38850
CHNL# 132: [POWR972378[0.7000]G1] 0.95000 -0.2000
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1] 1.0158 -0.1749

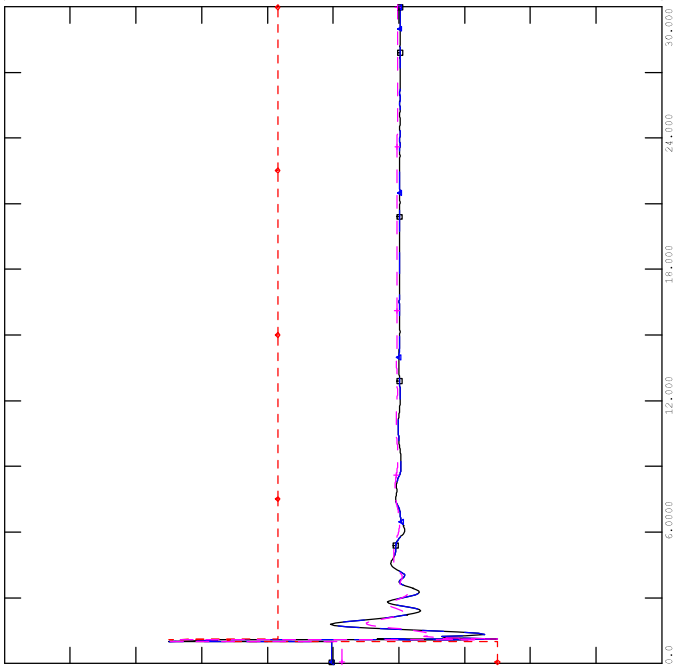


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_02_924L_MILO

FILE: scn9_SL_A2_02_924L_Milo.out

SAT, MAY 21 2022 1:19 BRANCH P

CHNL# 379: [927L_A2_1_P] 543.84 -1376.
CHNL# 361: [924L_A2_1_P] 546.87 -769.2
CHNL# 347: [1003L_P] -260.3 -732.4
CHNL# 371: [985L_P] -263.4 -740.7

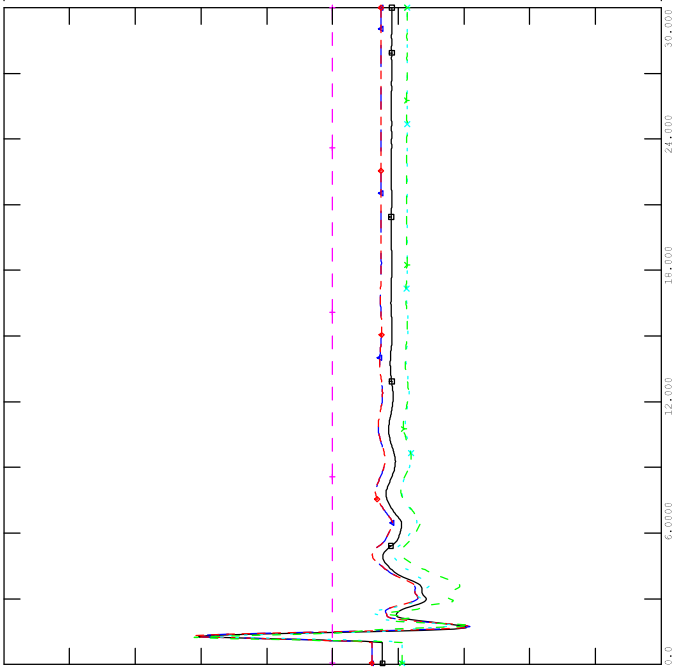


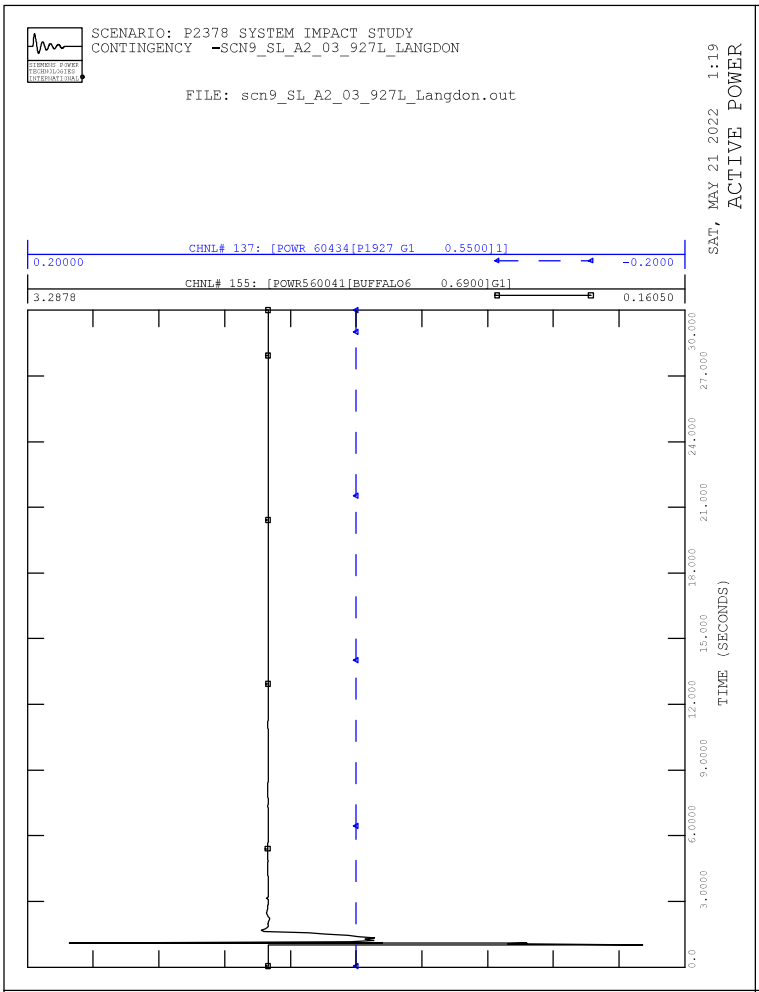
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON

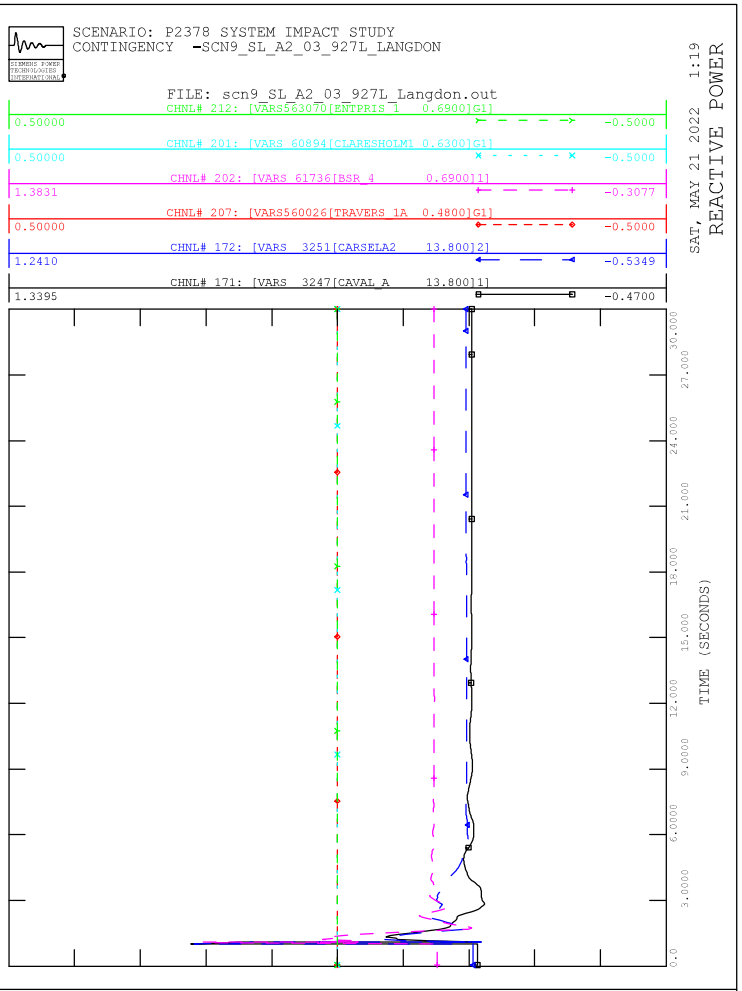
FILE: scn9_SL_A2_03_927L_Langdon.out

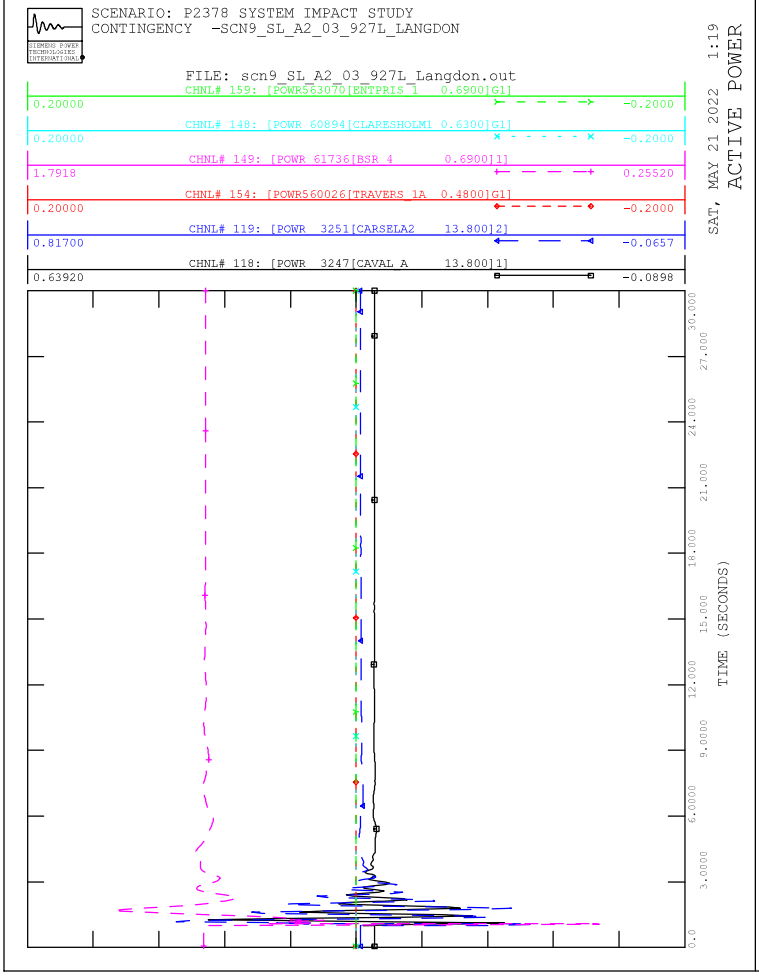
SAT, MAY 21 2022 1:19 ROTOR ANGLE

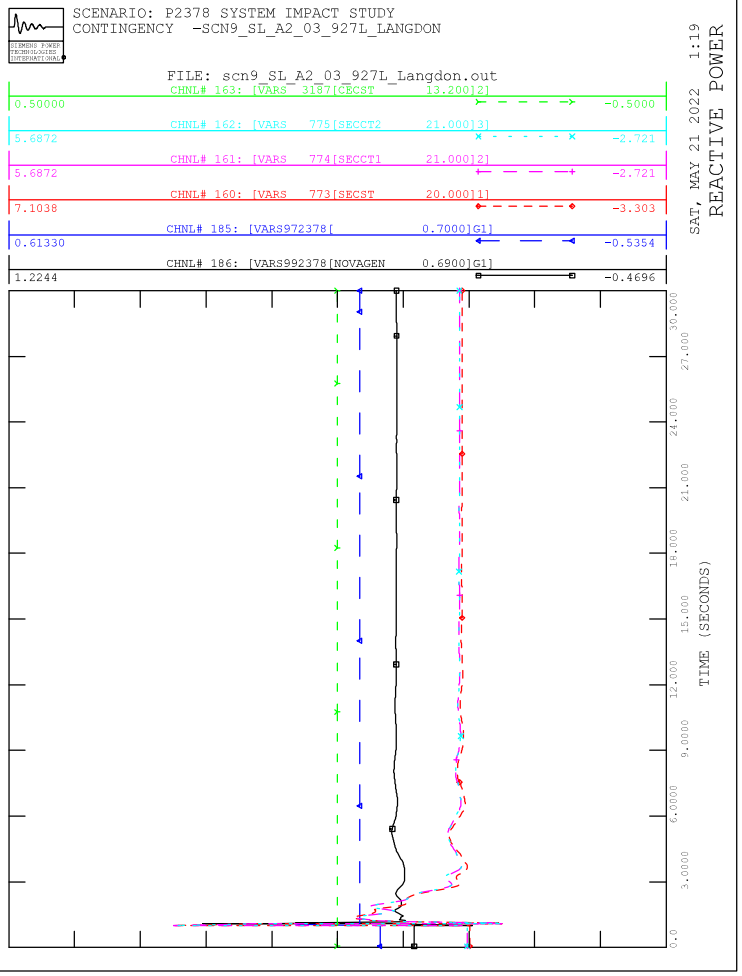
CHNL# 13: [ANGL 3251[CARSBLAZ 13.800]2] 164.13 -8.874
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1] 131.96 -26.91
CHNL# 4: [ANGL 3187[CECST 13.200]2] 50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3] 141.20 -30.80
CHNL# 2: [ANGL 774[SECCT1 21.000]2] 141.20 -30.80
CHNL# 1: [ANGL 773[SECST 20.000]1] 143.02 -25.63




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON
FILE: scn9_SL_A2_03_927L_Langdon.out
CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000
-0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
3.2878
0.16050
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

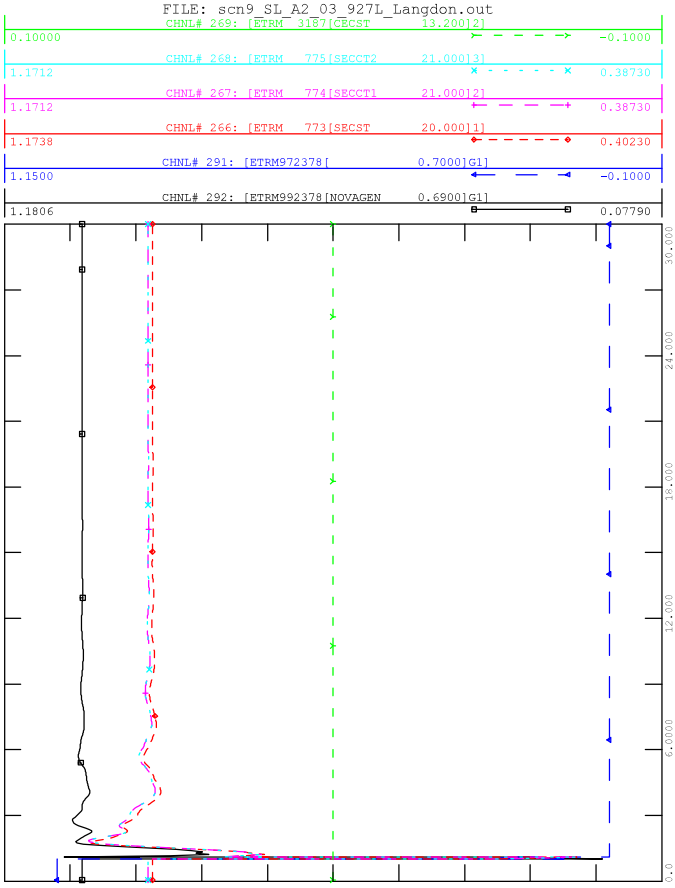

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON
FILE: scn9_SL_A2_03_927L_Langdon.out
CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000
-0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000
-0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3831
-0.3077
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000
-0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2410
-0.5349
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3395
-0.4700
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON
FILE: scn9_SL_A2_03_927L_Langdon.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000
-0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.7918
0.25520
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.81700
-0.0657
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.63920
-0.0898
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON
FILE: scn9_SL_A2_03_927L_Langdon.out
CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000
-0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.6872
-2.721
CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.6872
-2.721
CHNL# 160: [VARS 773[SECST 20.000]1]
7.1038
-3.303
CHNL# 185: [VARS972378[0.7000]G1]
0.61330
-0.5354
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
1.2244
-0.4696
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

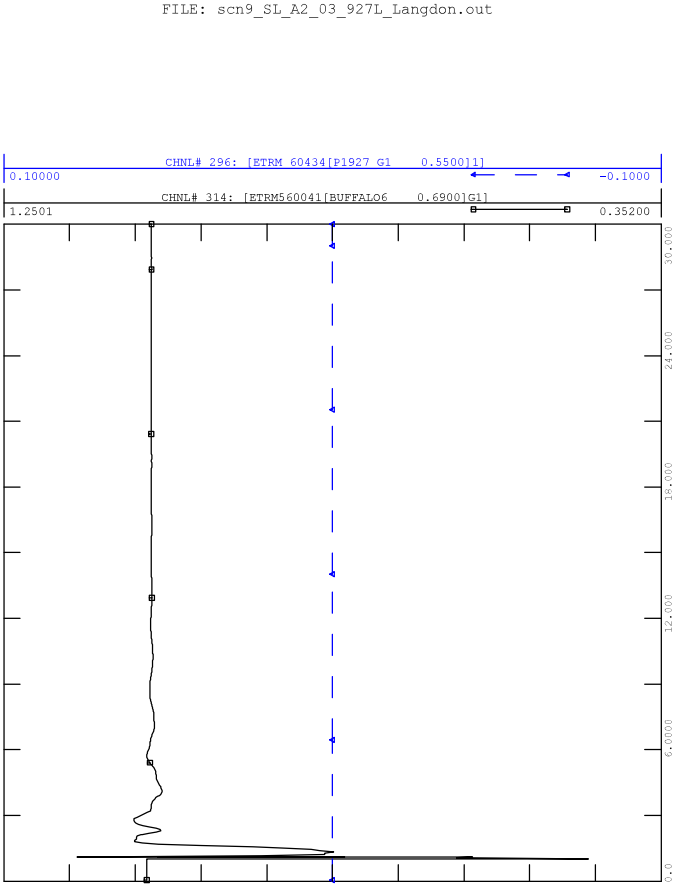
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON

FILE: scn9_SL_A2_03_927L_Langdon.out



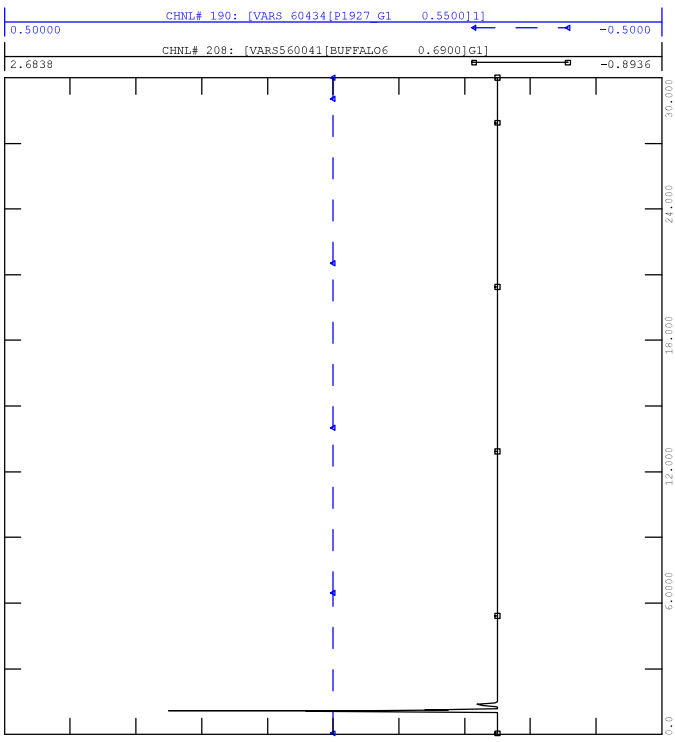
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON

FILE: scn9_SL_A2_03_927L_Langdon.out



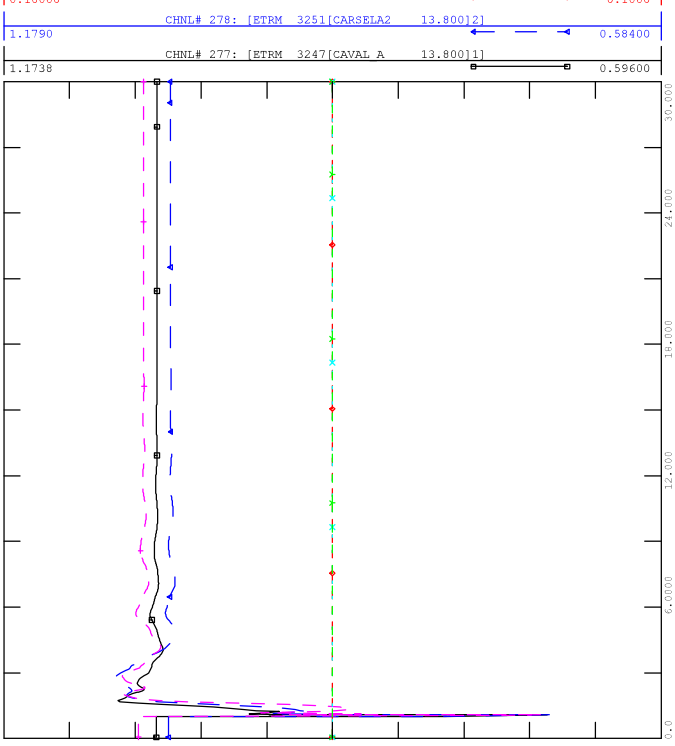
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON

FILE: scn9_SL_A2_03_927L_Langdon.out



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON

FILE: scn9_SL_A2_03_927L_Langdon.out



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON

FILE: scn9_SL_A2_03_927L_Langdon.out

CHNL# 359: [1107L P]
128.73 -786.7

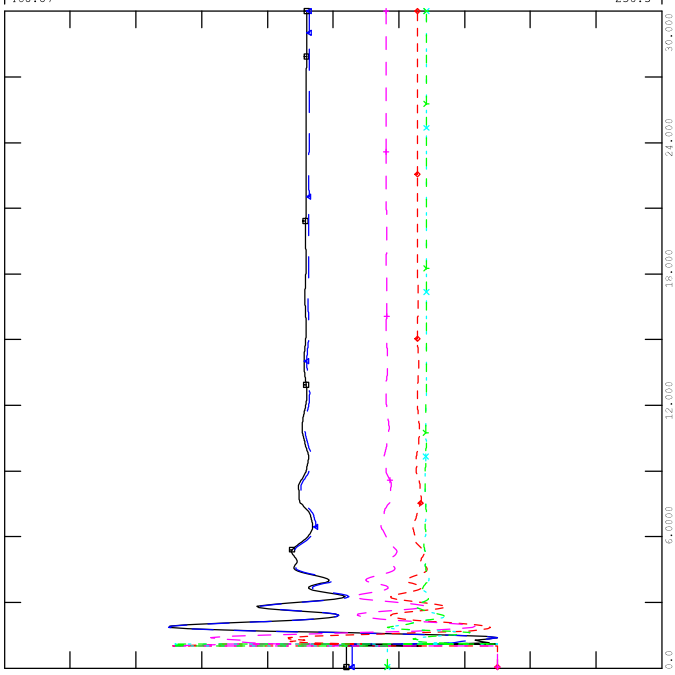
CHNL# 341: [1106L P]
128.72 -786.8

CHNL# 353: [1005L P]
54.852 -296.8

CHNL# 363: [1036L P]
53.736 -432.4

CHNL# 357: [935L P]
404.98 -242.3

CHNL# 345: [923L P]
468.87 -230.3



SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON

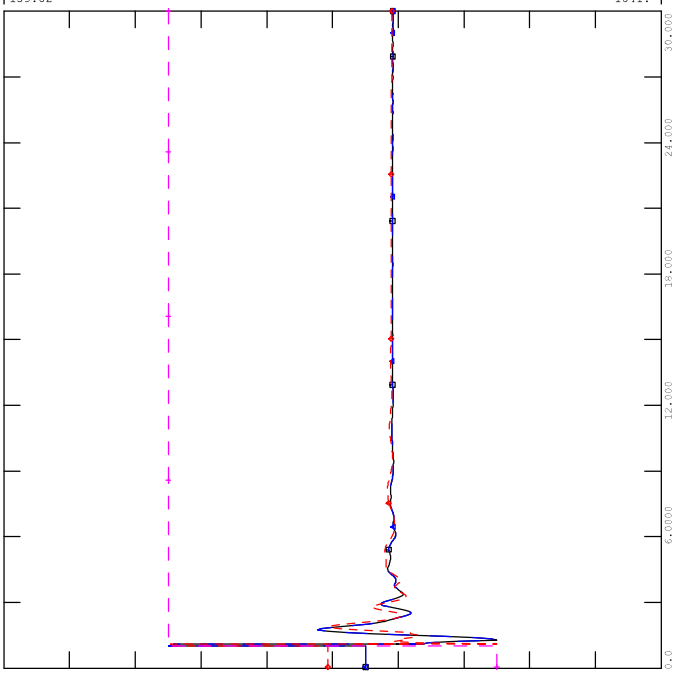
FILE: scn9_SL_A2_03_927L_Langdon.out

CHNL# 379: [927L_A2_1 P]
221.17 -663.5

CHNL# 361: [924L_A2_1 P]
377.89 -1283.

CHNL# 347: [1003L P]
158.24 -1029.

CHNL# 371: [985L P]
159.82 -1041.



SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON

FILE: scn9_SL_A2_03_927L_Langdon.out

CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1653 0.32860

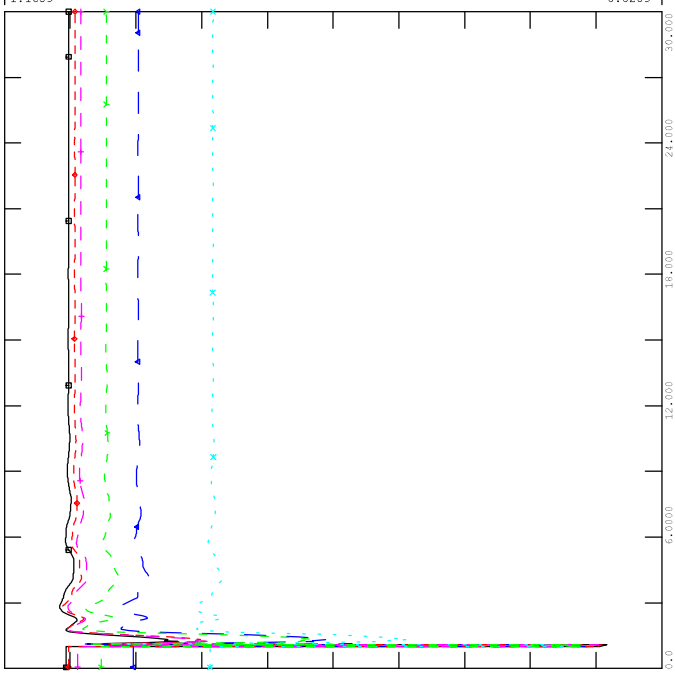
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.2922 0.52760

CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1745 0.13780

CHNL# 340: [VOLT 902378 [924L_TAP 240.00]]
1.1610 0.03570

CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2206 0.34500

CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1659 -0.0289



SAT, MAY 21 2022 1:19 BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON

FILE: scn9_SL_A2_03_927L_Langdon.out

CHNL# 360: [1107L Q]
450.67 -180.0

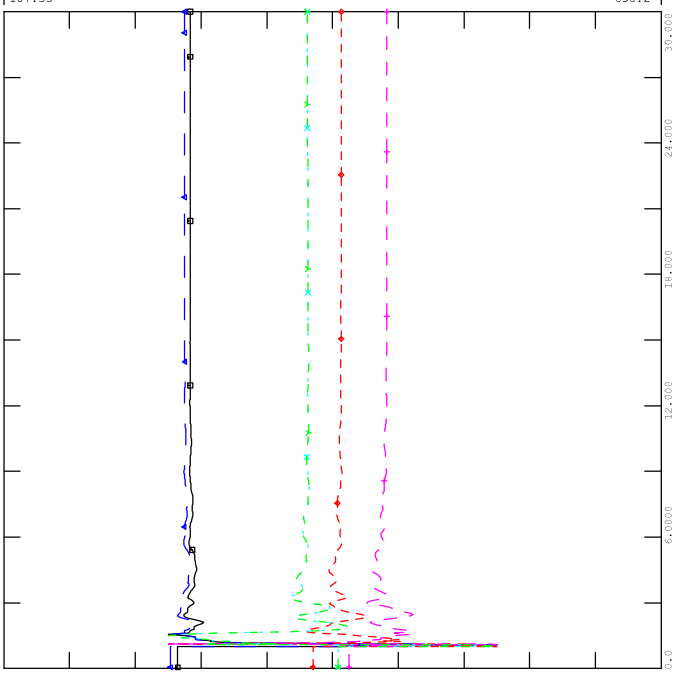
CHNL# 342: [1106L Q]
450.93 -180.0

CHNL# 354: [1005L Q]
171.89 -83.81

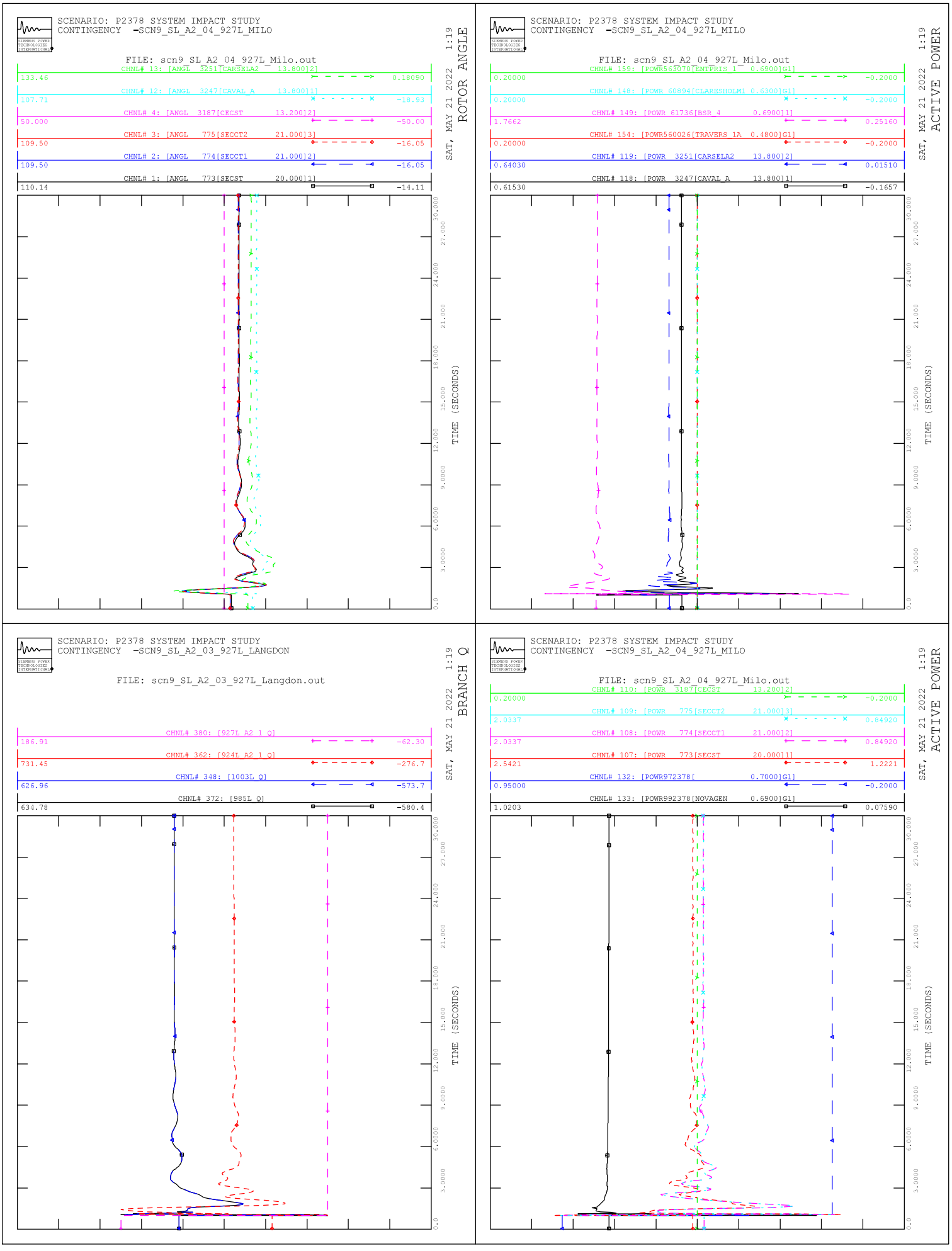
CHNL# 364: [1036L Q]
244.95 -149.6

CHNL# 358: [935L Q]
151.28 -564.3

CHNL# 346: [923L Q]
187.33 -630.2

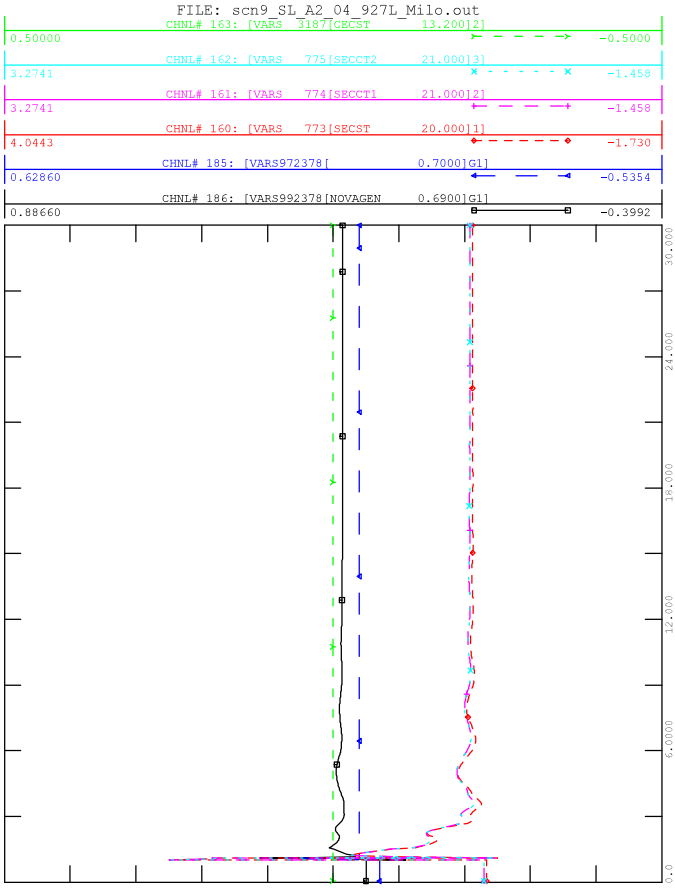


SAT, MAY 21 2022 1:19 BRANCH Q


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
133.46
0.18090
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
107.71
-18.93
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
109.50
-16.05
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
109.50
-16.05
CHNL# 1: [ANGL 773[SECST 20.000]1]
110.14
-14.11
SAT, MAY 21 2022 1:19
ROTOR ANGLE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000
-0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.7662
0.25160
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.64030
0.01510
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.61530
-0.1657
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_03_927L_LANGDON
FILE: scn9_SL_A2_03_927L_Langdon.out
CHNL# 380: [927L A2 1 Q]
186.91
-62.30
CHNL# 362: [924L A2 1 Q]
731.45
-276.7
CHNL# 348: [1003L Q]
626.96
-573.7
CHNL# 372: [985L Q]
634.78
-580.4
SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000
-0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.0337
0.84920
CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.0337
0.84920
CHNL# 107: [POWR 773[SECST 20.000]1]
2.5421
1.2221
CHNL# 132: [POWR972378[0.7000]G1]
0.95000
-0.2000
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0203
0.07590
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO

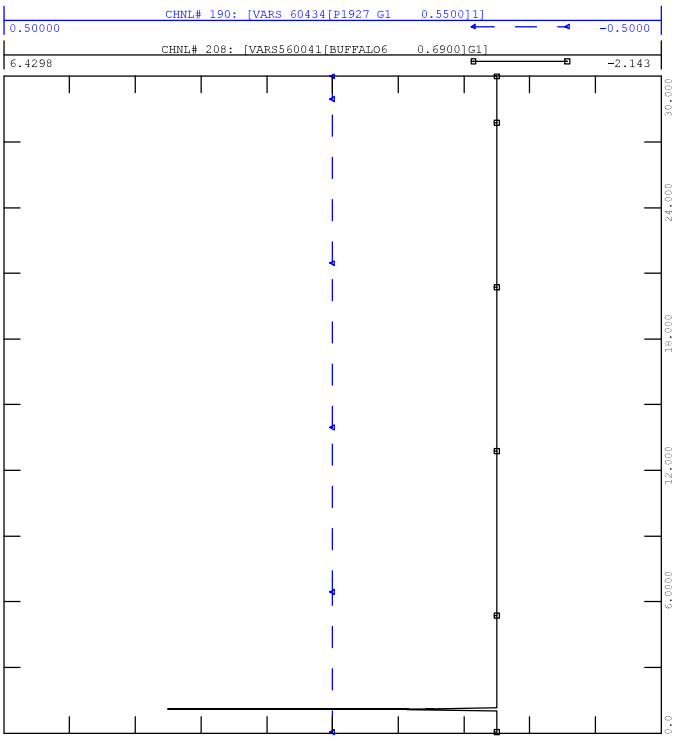
FILE: scn9_SL_A2_04_927L_Milo.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO

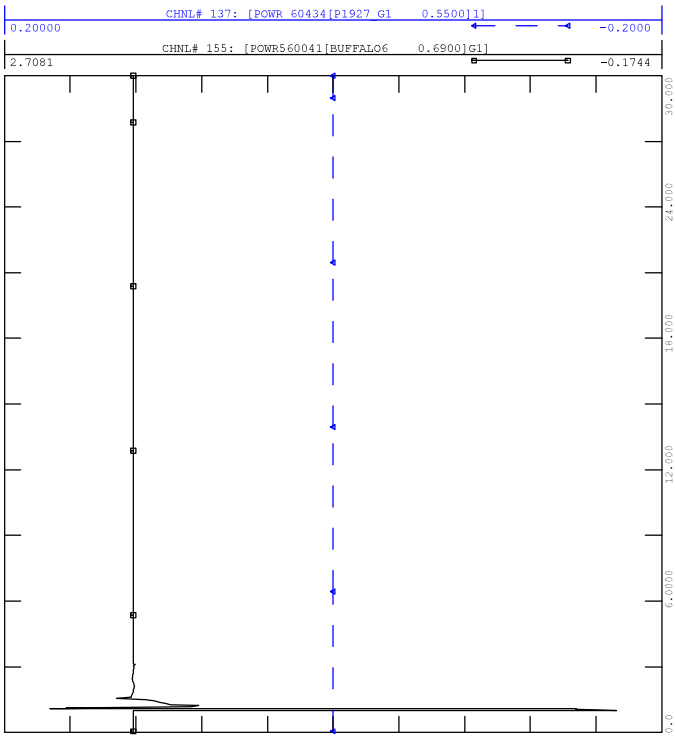
FILE: scn9_SL_A2_04_927L_Milo.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO

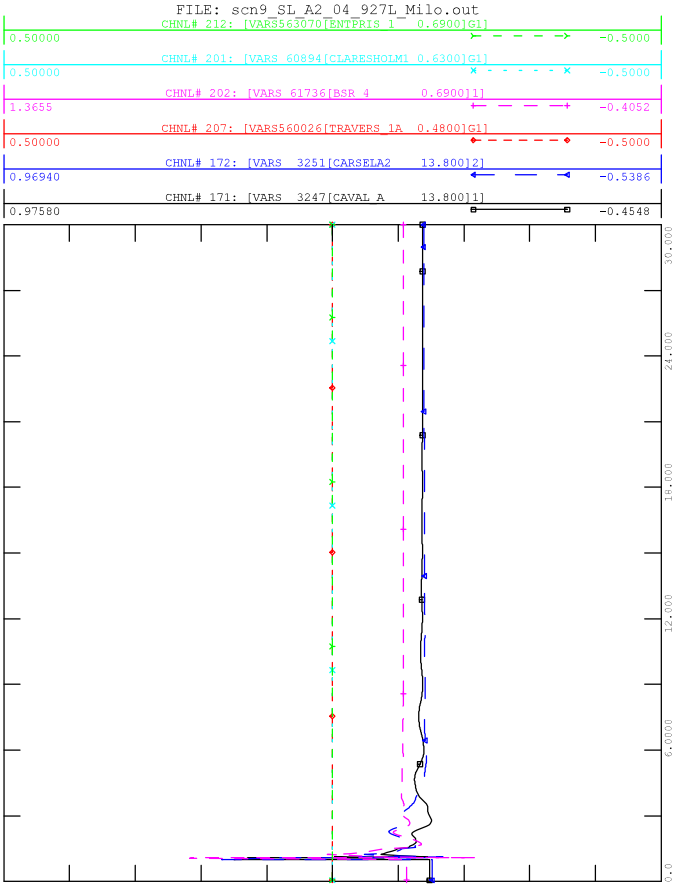
FILE: scn9_SL_A2_04_927L_Milo.out



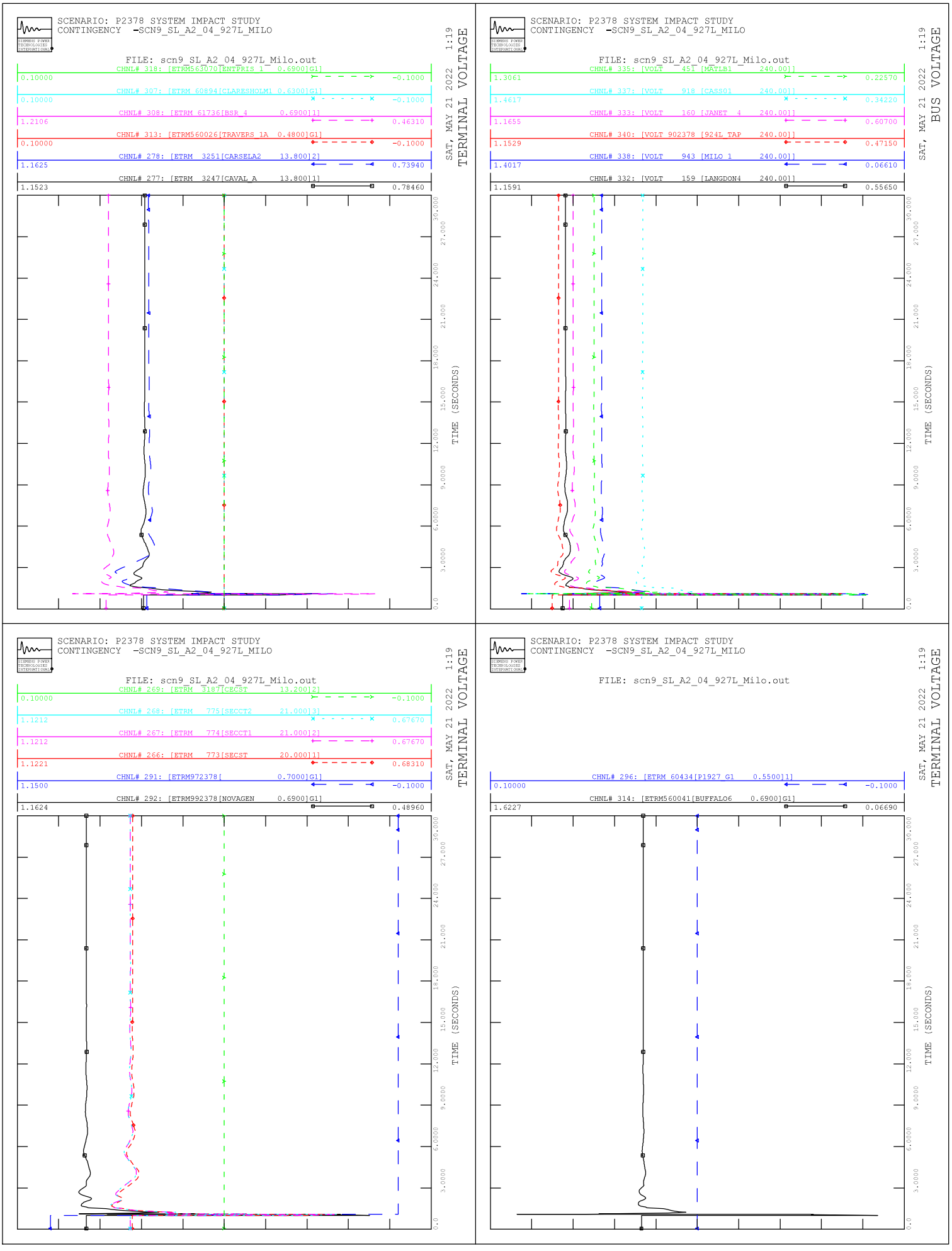
SAT, MAY 21 2022 1:19
ACTIVE POWER

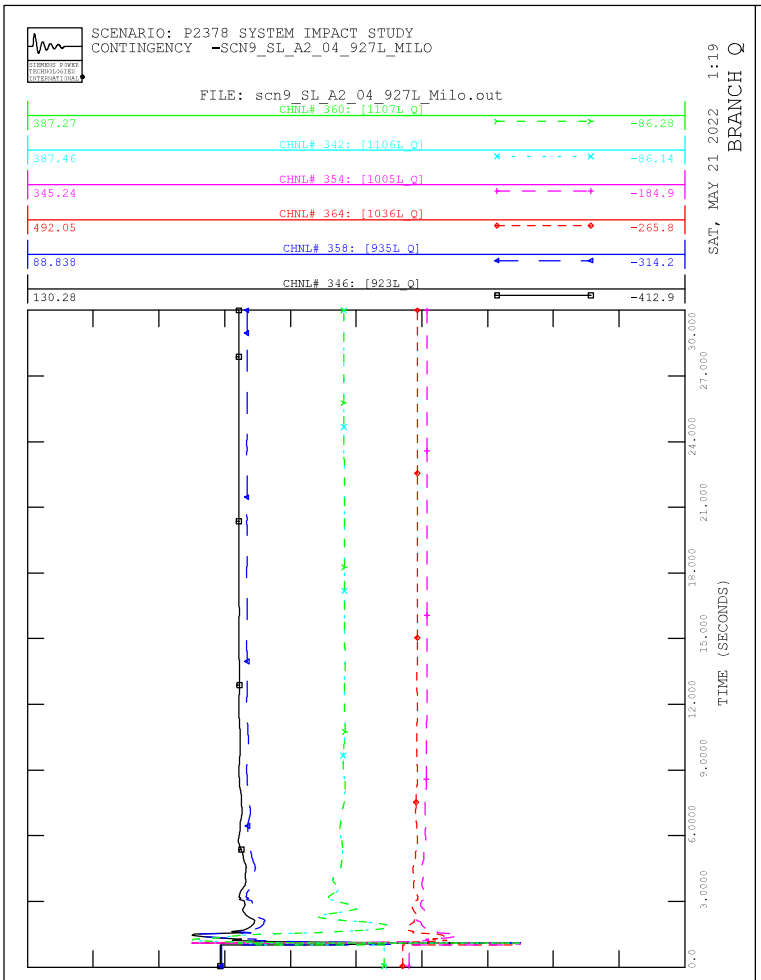
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO

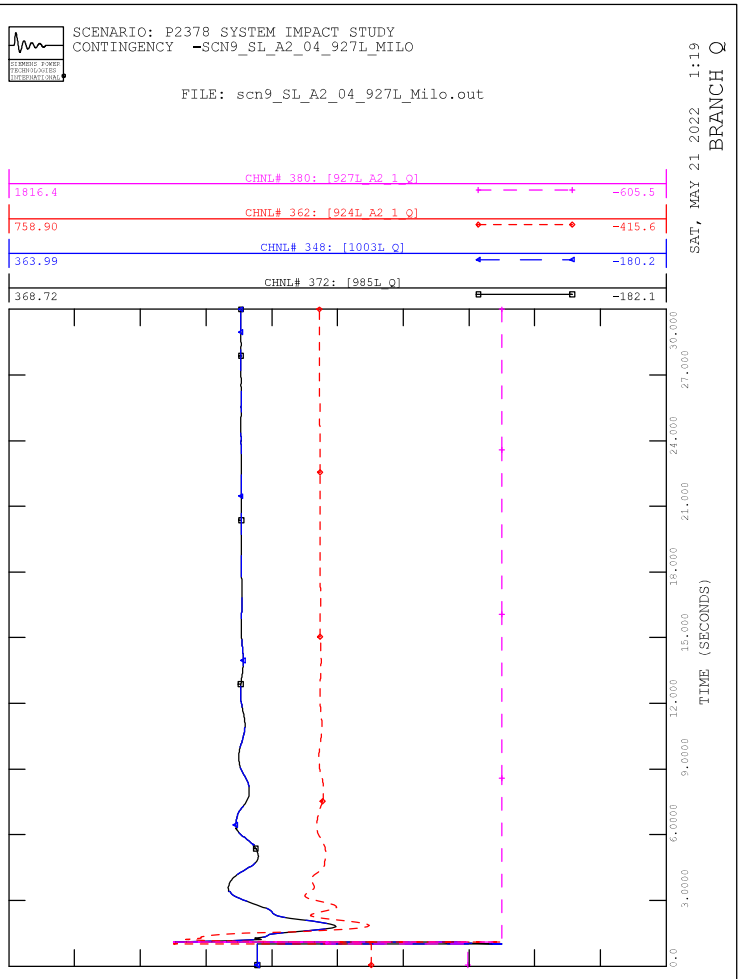
FILE: scn9_SL_A2_04_927L_Milo.out

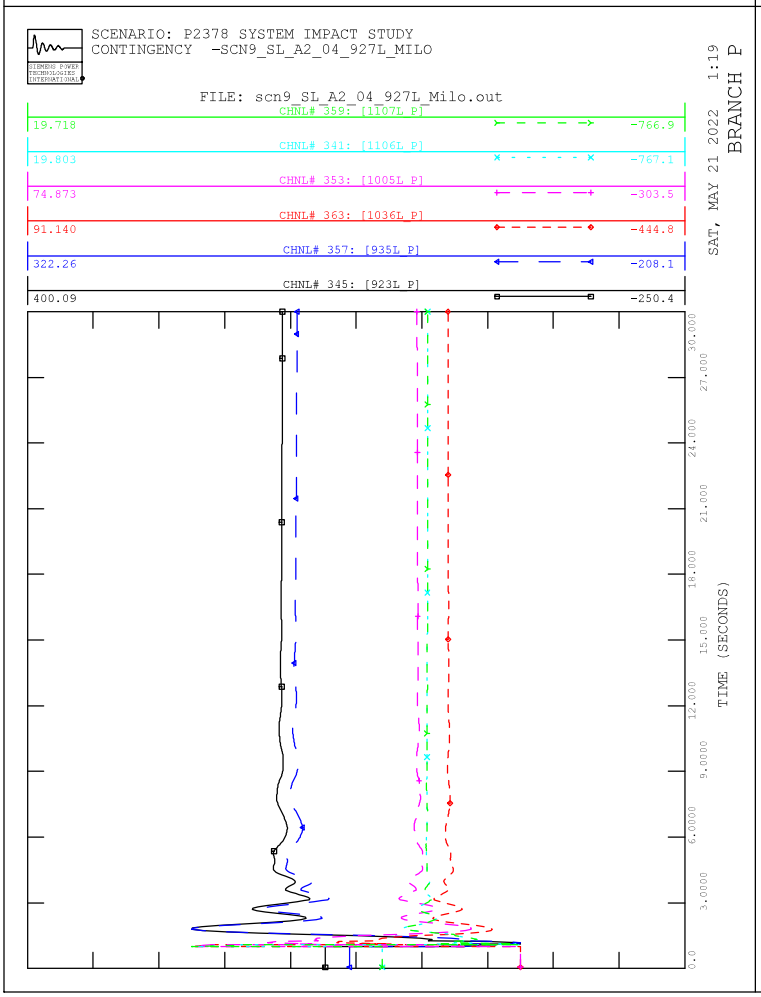


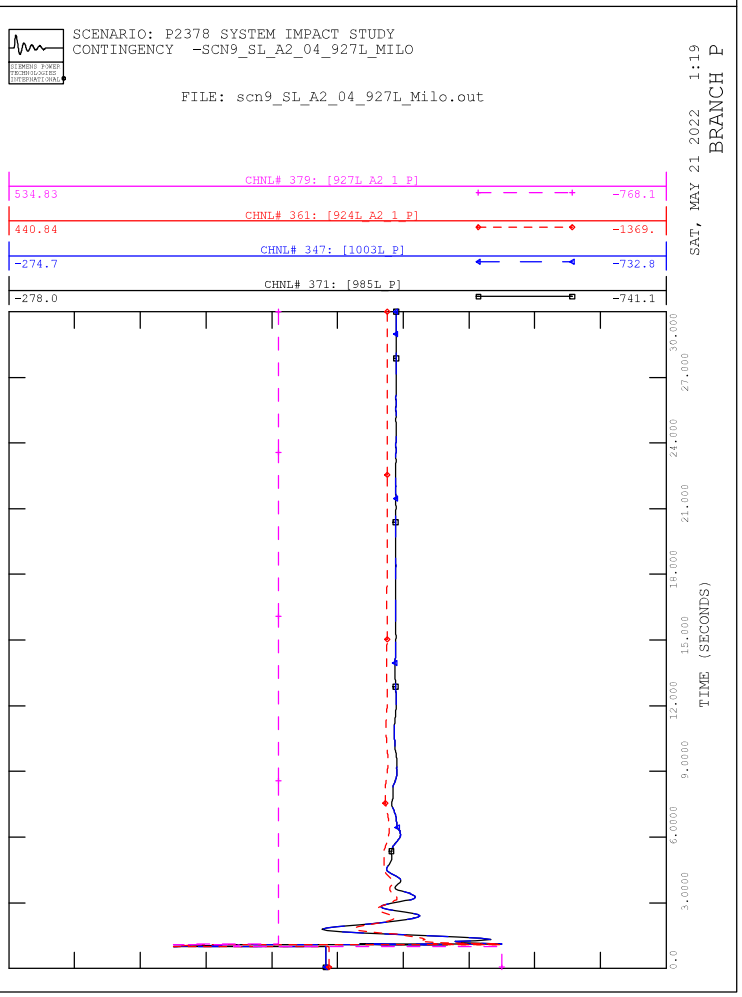
SAT, MAY 21 2022 1:19
REACTIVE POWER


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000
-0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000
-0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.2106
0.46310
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000
-0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1625
0.73940
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1523
0.78460
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.3061
0.22570
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.4617
0.34220
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1655
0.60700
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1529
0.47150
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.4017
0.06610
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1591
0.55650
SAT, MAY 21 2022 1:19
BUS VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000
-0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1212
0.67670
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1212
0.67670
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1221
0.68310
CHNL# 291: [ETRM972378[0.7000]G1]
1.1500
-0.1000
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.1624
0.48960
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000
-0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.6227
0.06690
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 360: [1107L Q]
387.27
-86.28
CHNL# 342: [1106L Q]
387.46
-86.14
CHNL# 354: [1005L Q]
345.24
-184.9
CHNL# 364: [1036L Q]
492.05
-265.8
CHNL# 358: [935L Q]
88.838
-314.2
CHNL# 346: [923L Q]
130.28
-412.9
SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

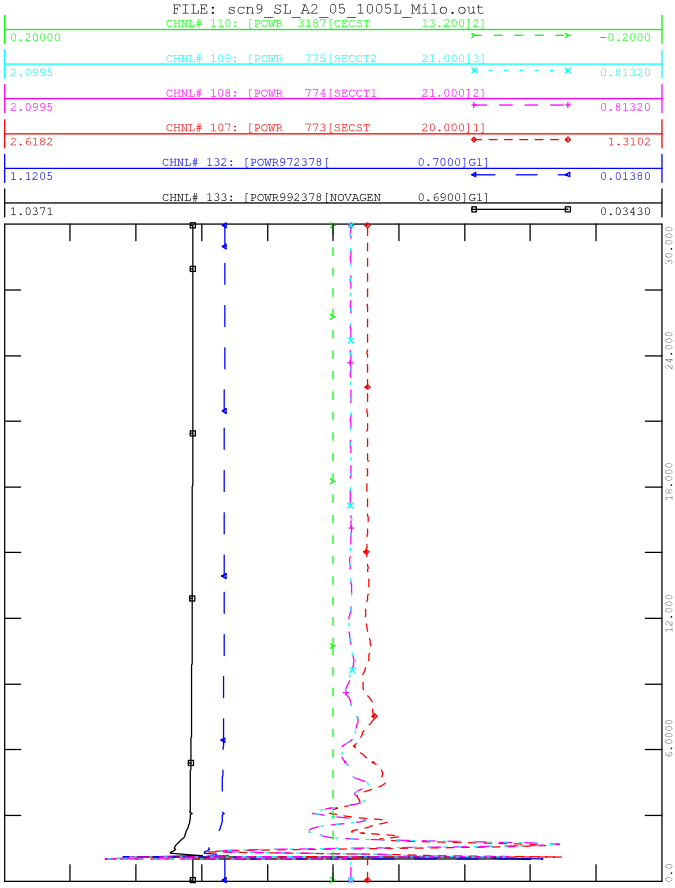

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 380: [927L A2 1 Q]
1816.4
-605.5
CHNL# 362: [924L A2 1 Q]
758.90
-415.6
CHNL# 348: [1003L Q]
363.99
-180.2
CHNL# 372: [985L Q]
368.72
-182.1
SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 359: [1107L P]
19.718
-766.9
CHNL# 341: [1106L P]
19.803
-767.1
CHNL# 353: [1005L P]
74.873
-303.5
CHNL# 363: [1036L P]
91.140
-444.8
CHNL# 357: [935L P]
322.26
-208.1
CHNL# 345: [923L P]
400.09
-250.4
SAT, MAY 21 2022 1:19
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_04_927L_MILO
FILE: scn9_SL_A2_04_927L_Milo.out
CHNL# 379: [927L A2 1 P]
534.83
-768.1
CHNL# 361: [924L A2 1 P]
440.84
-1369.
CHNL# 347: [1003L P]
-274.7
-732.8
CHNL# 371: [985L P]
-278.0
-741.1
SAT, MAY 21 2022 1:19
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

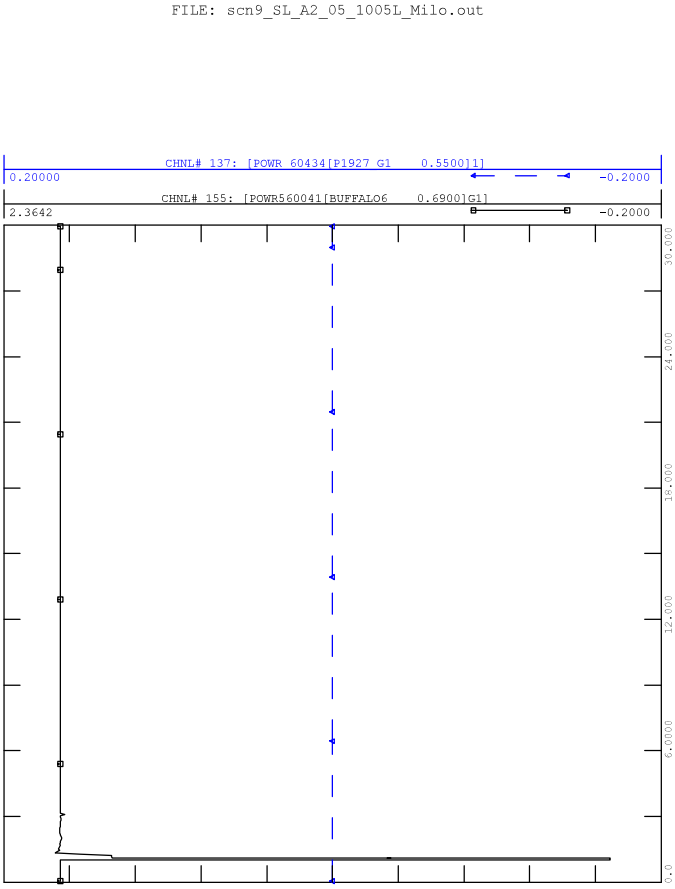
FILE: scn9_SL_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

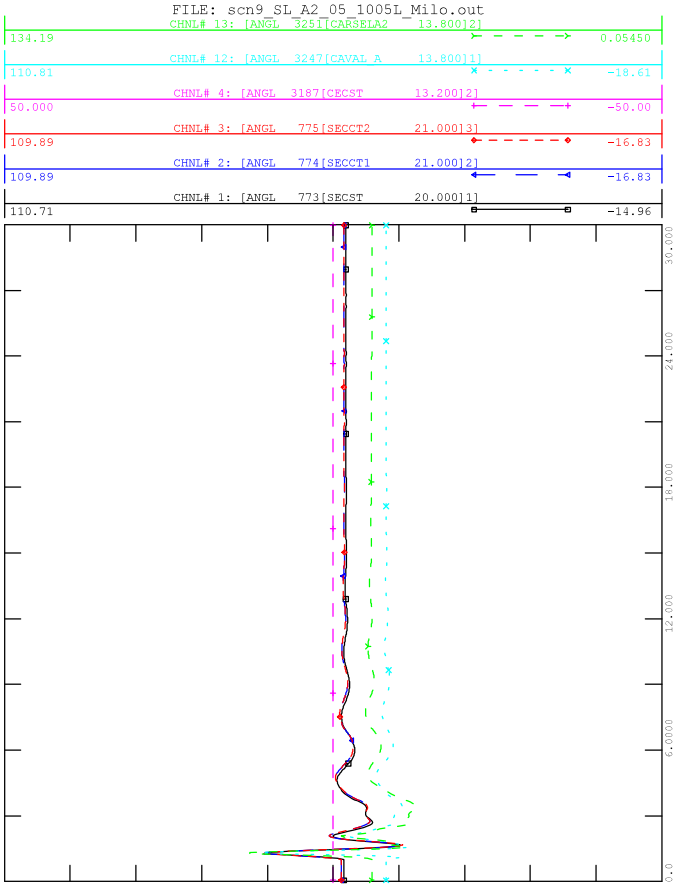
FILE: scn9_SL_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

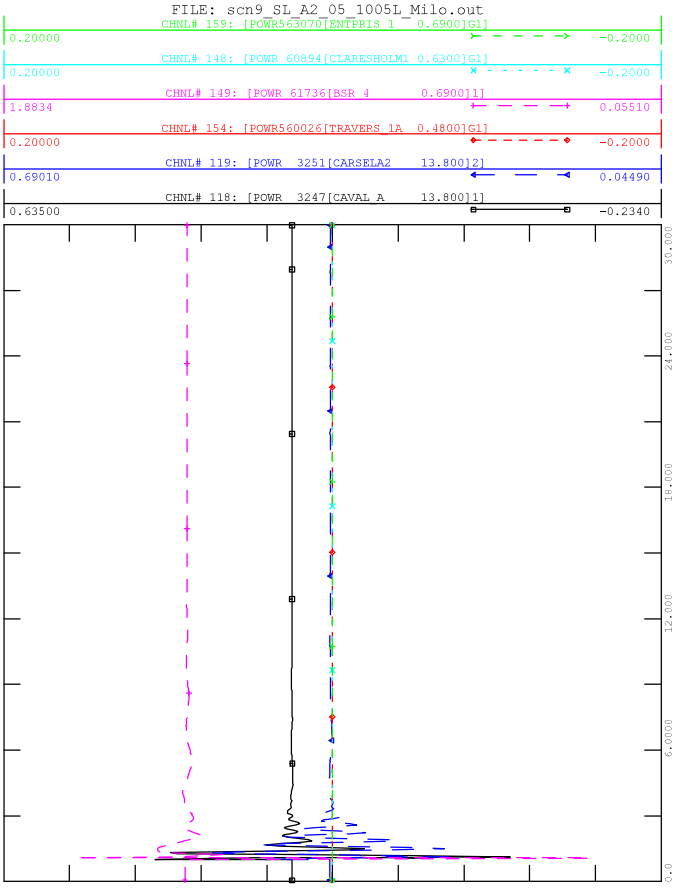
FILE: scn9_SL_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

FILE: scn9_SL_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

FILE: scn9_SL_A2_05_1005L_Milo.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3521 -0.3186
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.0055 -0.5784
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.0032 -0.4732

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

FILE: scn9_SL_A2_05_1005L_Milo.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1188 0.65470
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1188 0.65470
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1188 0.66160
CHNL# 291: [ETRM972378[0.7000]G1]
1.2508 0.41910
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2450 0.44330

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

FILE: scn9_SL_A2_05_1005L_Milo.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
3.5822 -1.931
CHNL# 161: [VARS 774[SECCT1 21.000]2]
3.5822 -1.931
CHNL# 160: [VARS 773[SECST 20.000]1]
4.4295 -2.318
CHNL# 185: [VARS972378[0.7000]G1]
0.76400 -0.5354
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.97680 -0.4071

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

FILE: scn9_SL_A2_05_1005L_Milo.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
6.1912 -2.064

SAT, MAY 21 2022 1:19
REACTIVE POWER

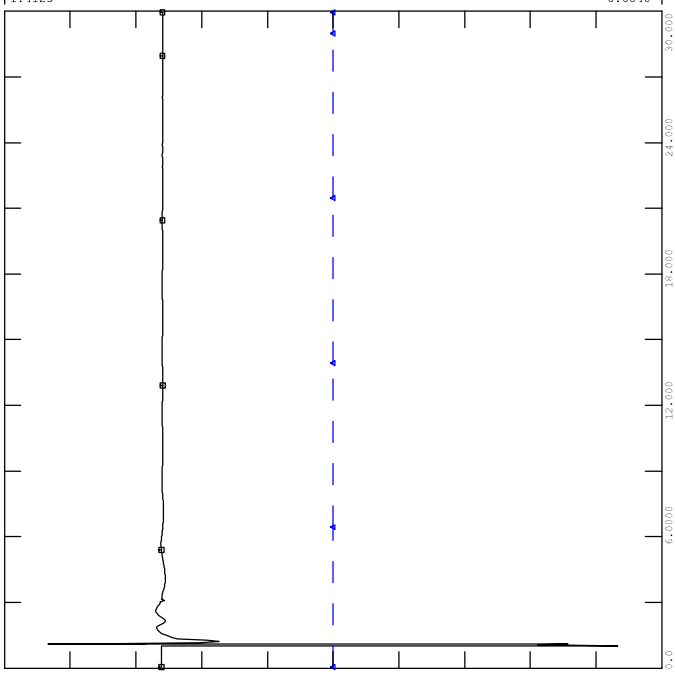
TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

FILE: scn9_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.4123 -0.0848

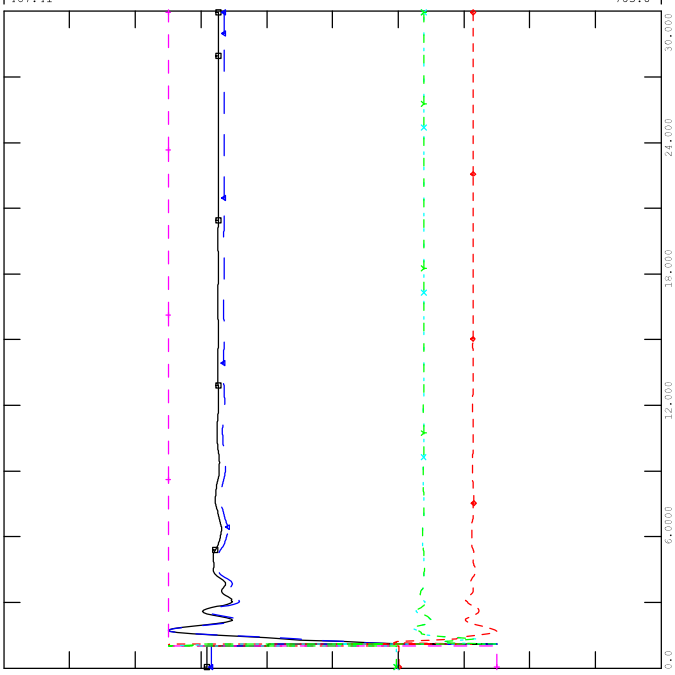


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

FILE: scn9_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:19 BRANCH P

CHNL# 359: [1107L P]
35.831 -701.2
CHNL# 341: [1106L P]
35.909 -701.3
CHNL# 353: [1005L P]
104.44 -313.3
CHNL# 363: [1036L P]
215.67 -660.0
CHNL# 357: [935L P]
377.73 -622.2
CHNL# 345: [923L P]
467.41 -703.8

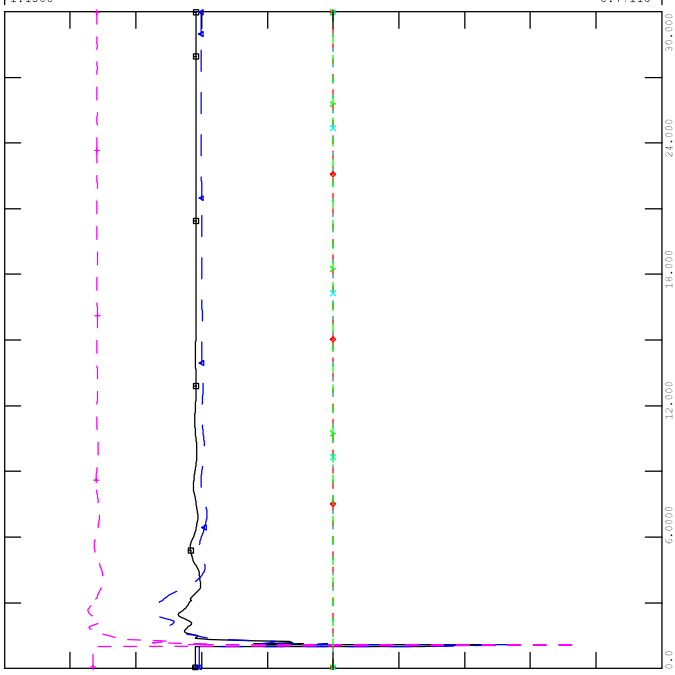


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

FILE: scn9_SL_A2_05_1005L_Milo.out

SAT, MAY 21 2022 1:19 TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[BNTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1561 0.37010
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1615 0.71810
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1500 0.77110

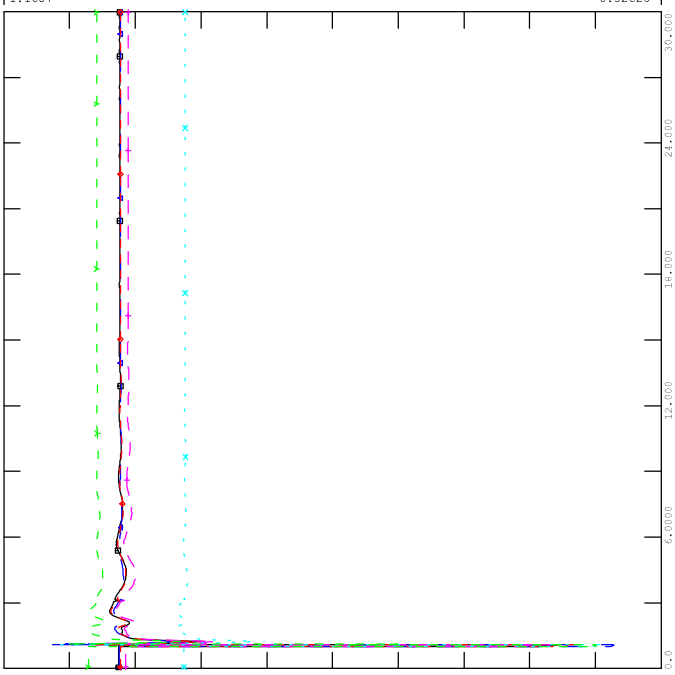


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

FILE: scn9_SL_A2_05_1005L_Milo.out

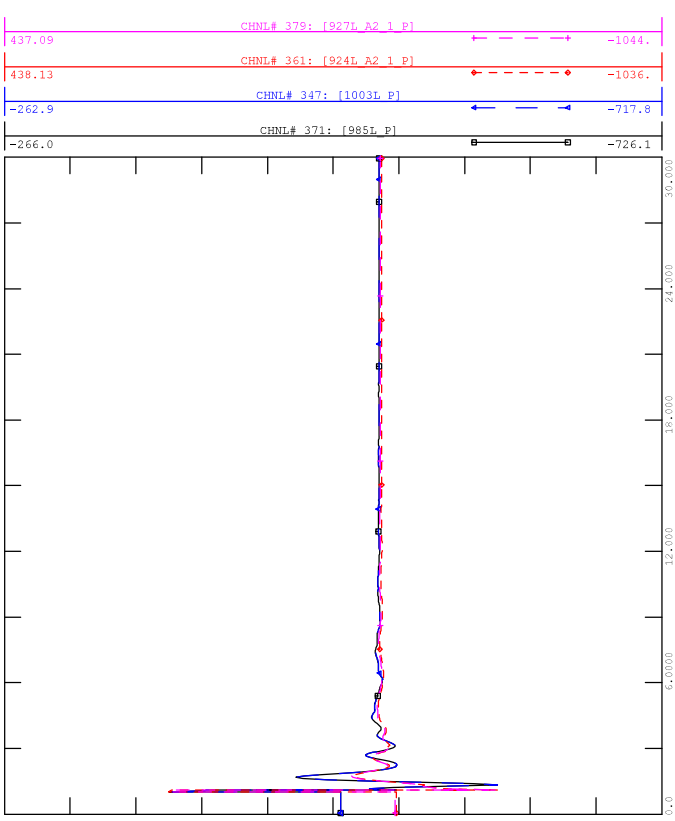
SAT, MAY 21 2022 1:19 BUS VOLTAGE

CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1771 0.12930
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.3669 0.22110
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1686 0.57730
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1871 0.42040
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2925 -0.0908
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1657 0.52620



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

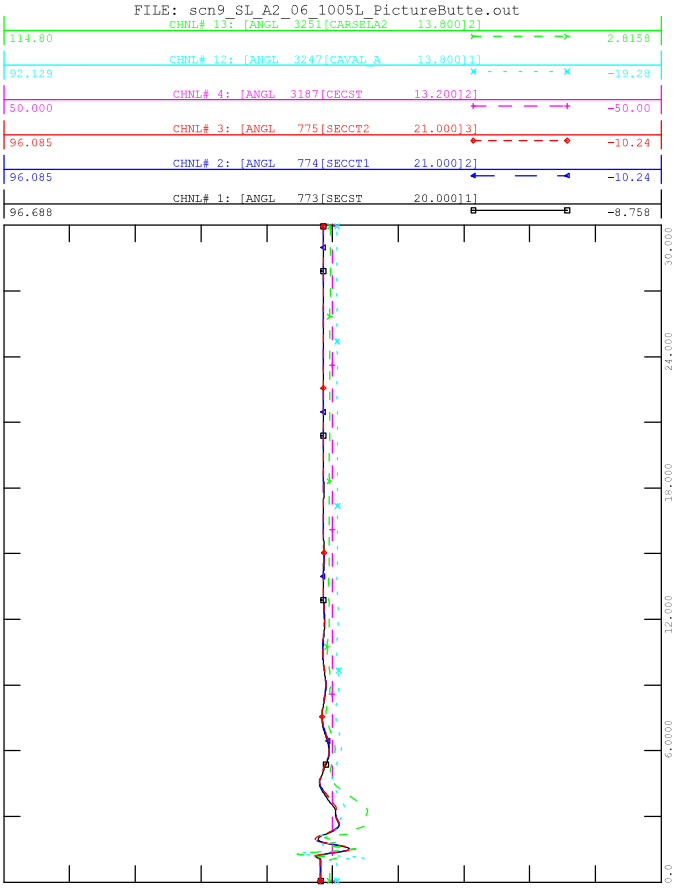
FILE: scn9_SL_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

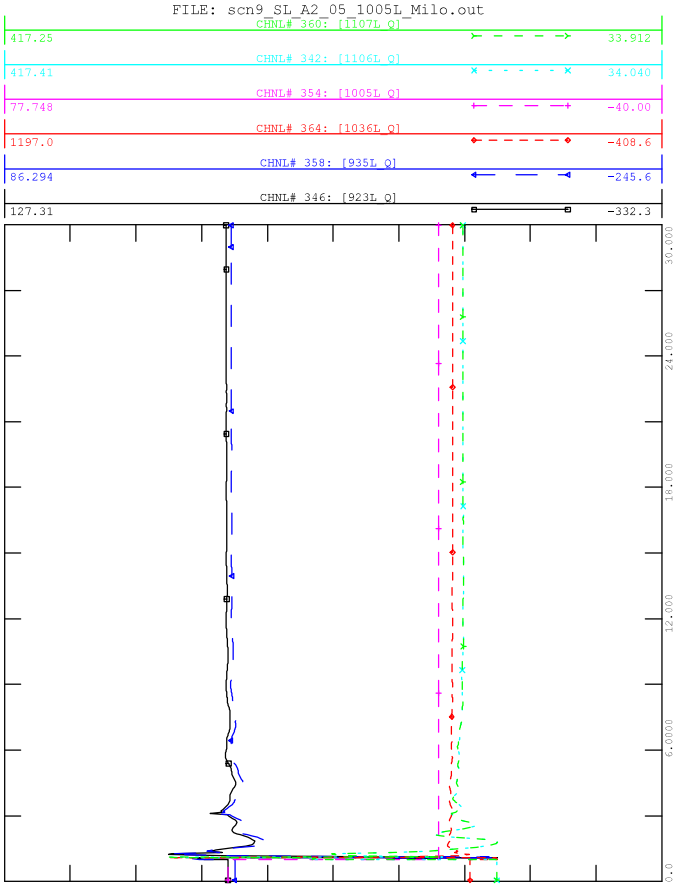
FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

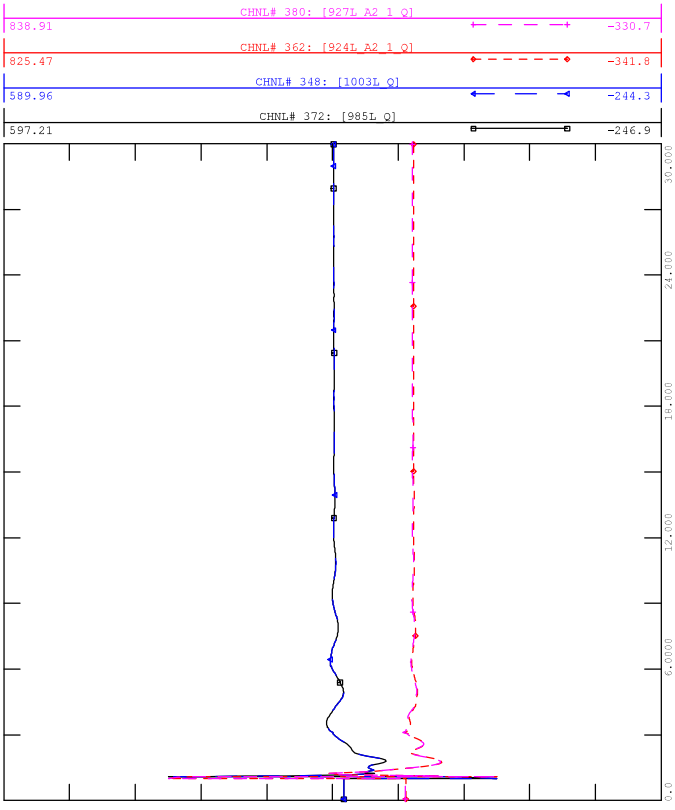
FILE: scn9_SL_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_05_1005L_MILO

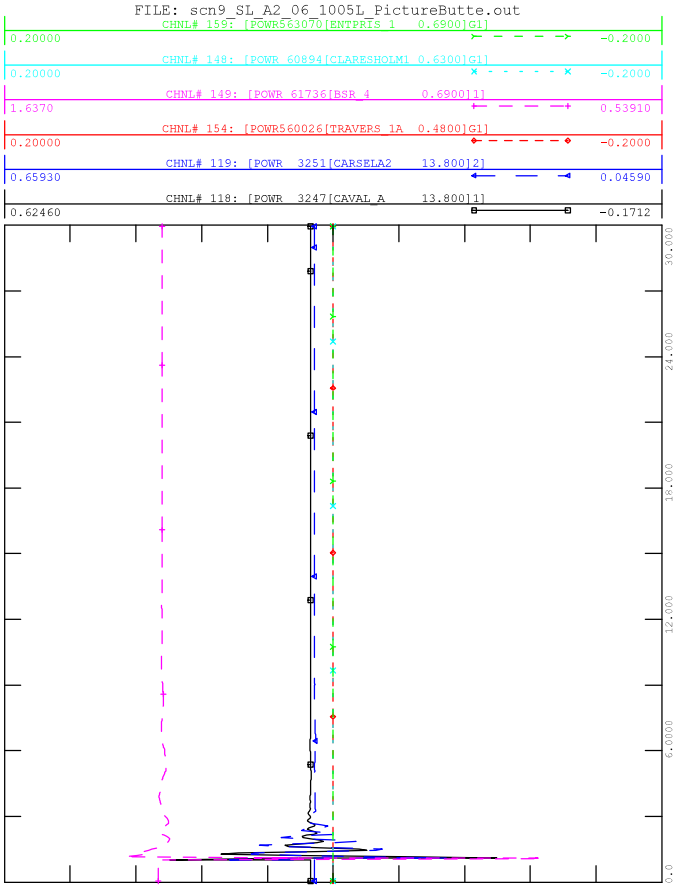
FILE: scn9_SL_A2_05_1005L_Milo.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

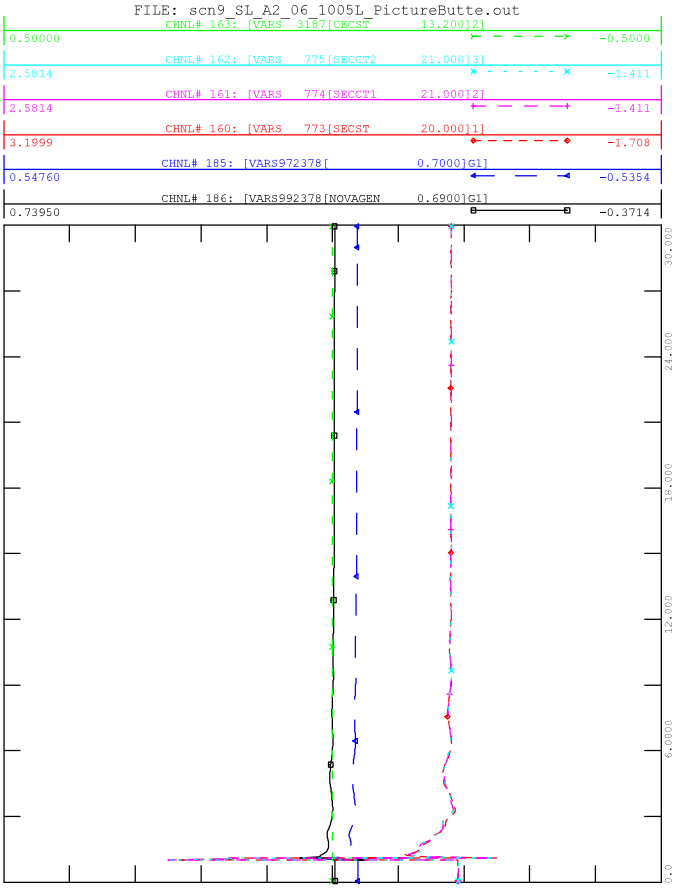
FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

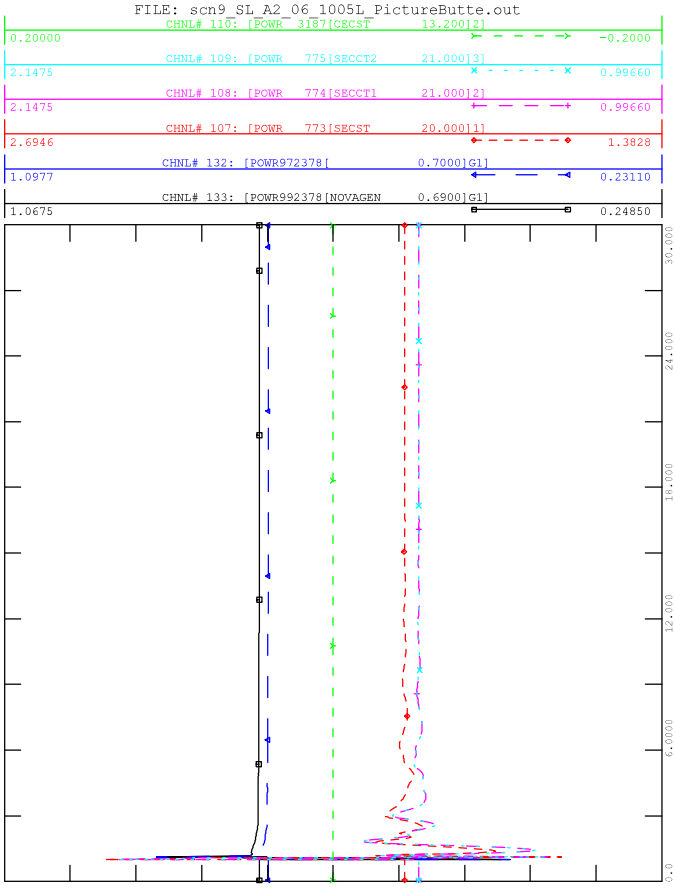
FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

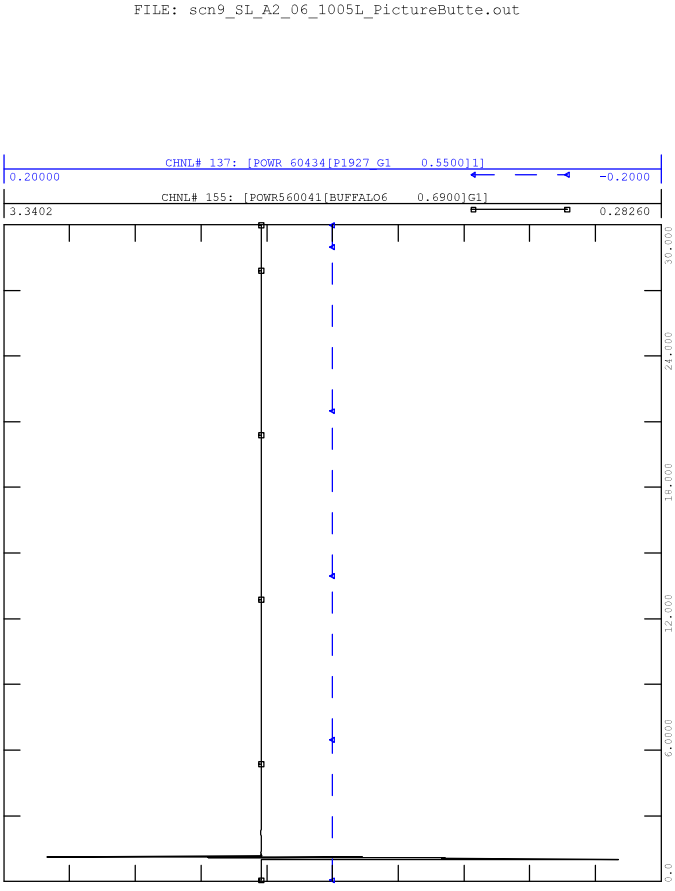
FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

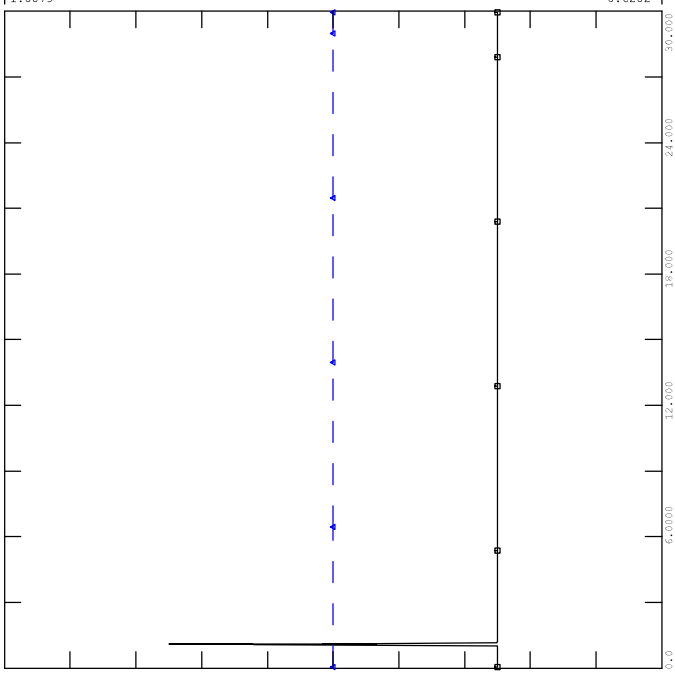
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn9_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:19
REACTIVE POWER

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1] 0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1] 1.8879 -0.6282

TIME (SECONDS)



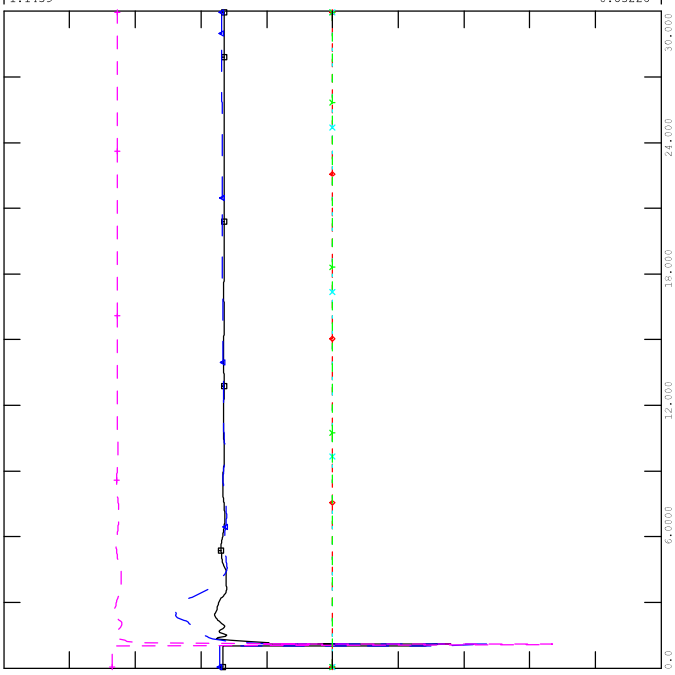
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn9_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1] 0.10000 -0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1] 0.10000 -0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1] 1.1500 0.54320
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1] 0.10000 -0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2] 1.1564 0.77180
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1] 1.1439 0.83220

TIME (SECONDS)



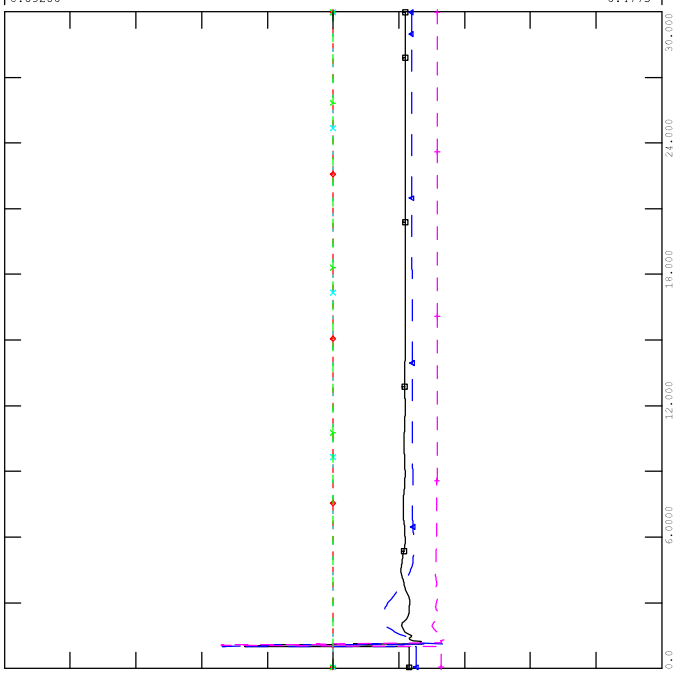
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn9_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:19
REACTIVE POWER

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1] 0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1] 0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1] 1.2886 -0.2276
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1] 0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2] 0.93140 -0.5763
CHNL# 171: [VARS 3247[CAVAL A 13.800]1] 0.89280 -0.4773

TIME (SECONDS)



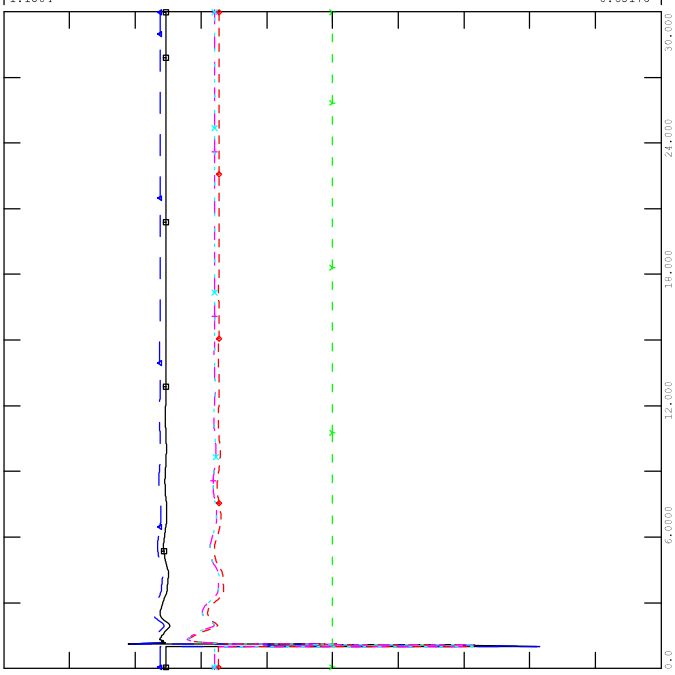
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

FILE: scn9_SL_A2_06_1005L_PictureButte.out

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

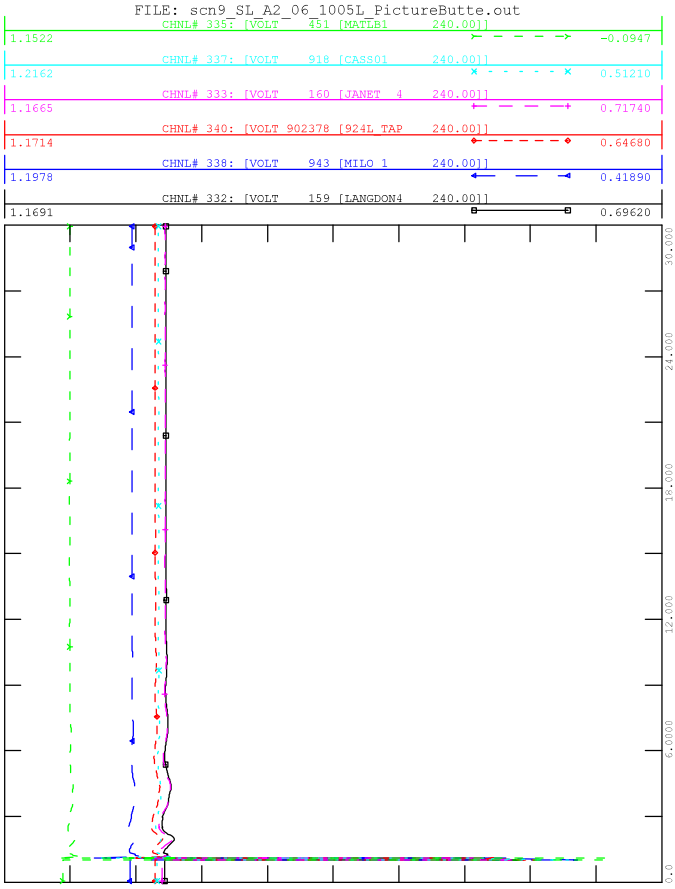
CHNL# 269: [ETRM 3187[CECST 13.200]2] 0.10000 -0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3] 1.1148 0.75630
CHNL# 267: [ETRM 774[SECCT1 21.000]2] 1.1148 0.75630
CHNL# 266: [ETRM 773[SECST 20.000]1] 1.1166 0.75980
CHNL# 291: [ETRM972378[0.7000]G1] 1.1787 0.63700
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1] 1.1804 0.65170

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

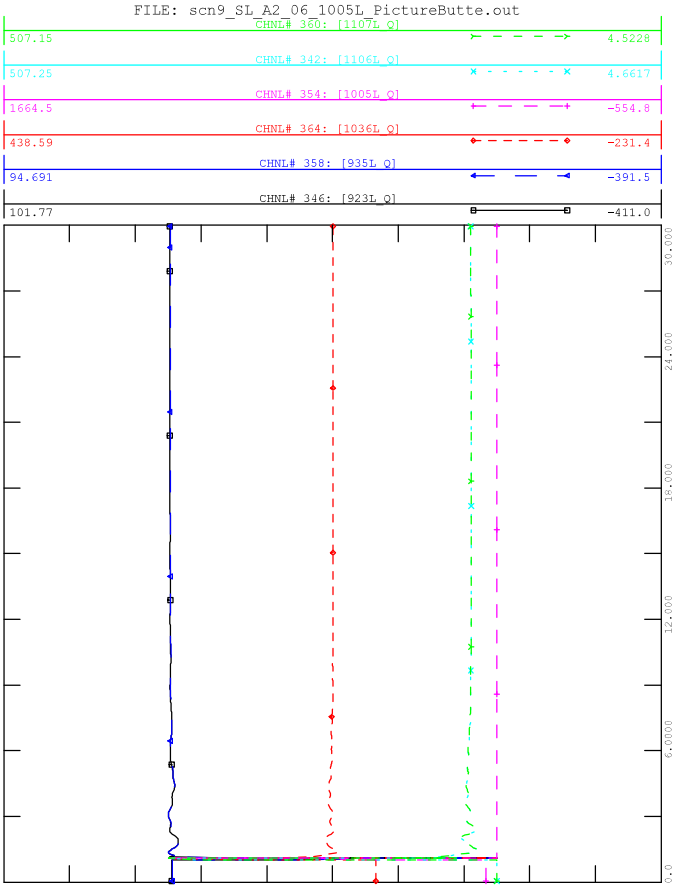
FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

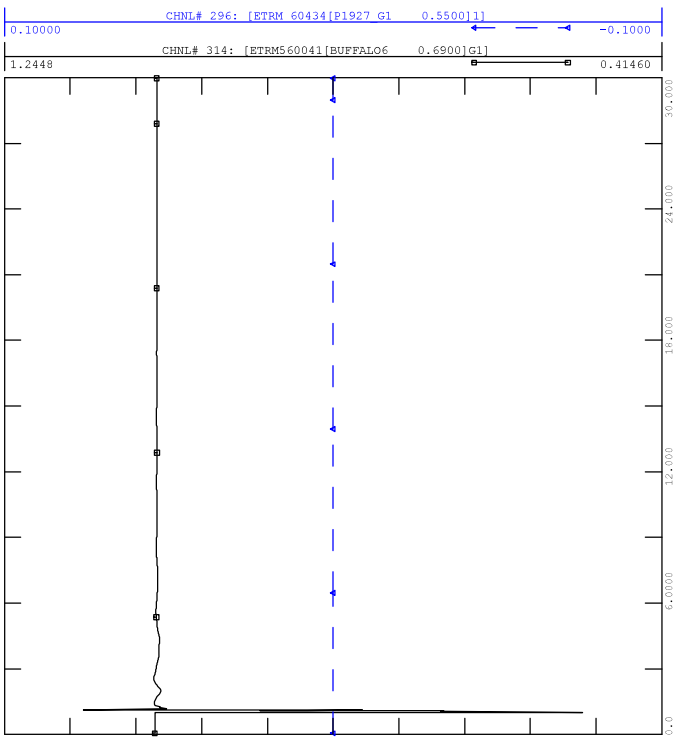
FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

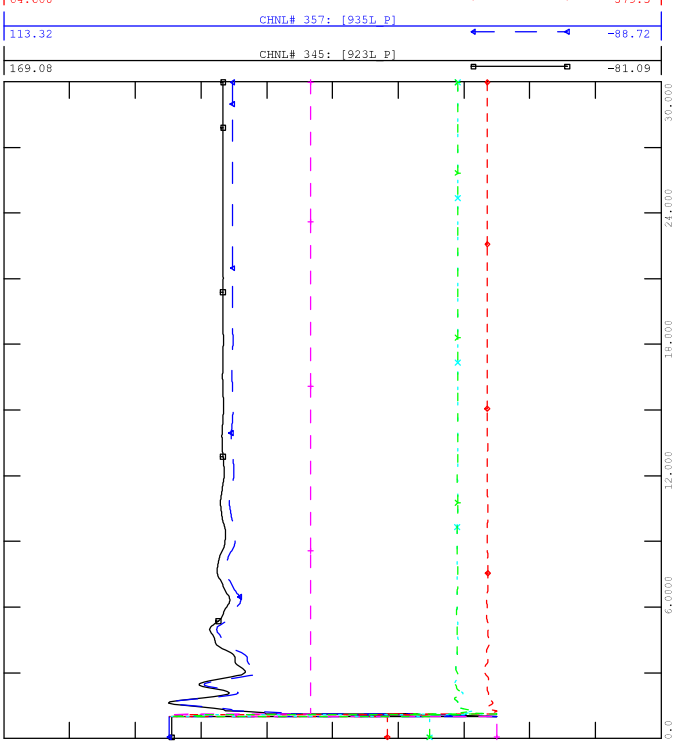
FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

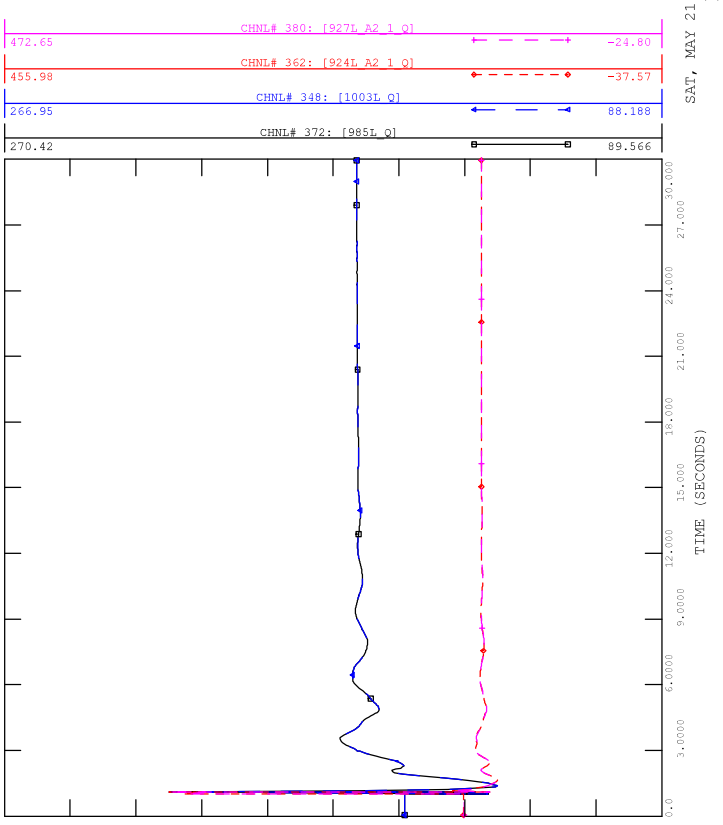
FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

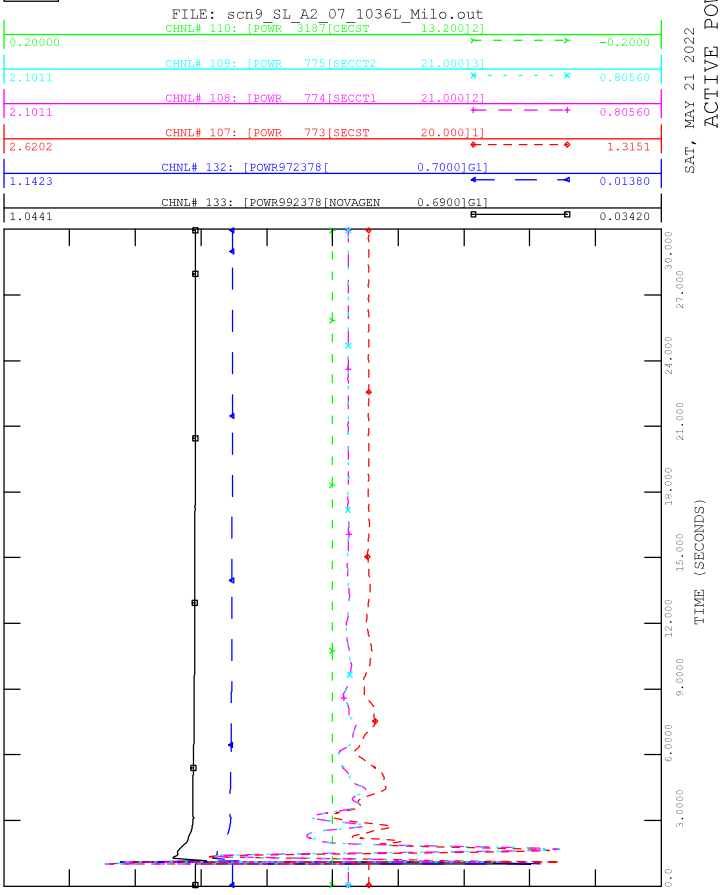
FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

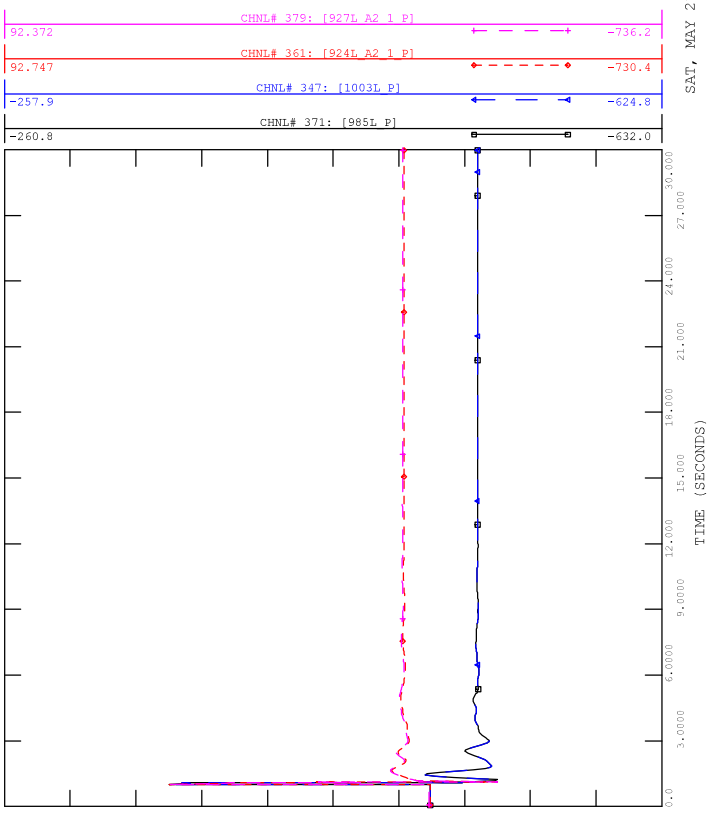
FILE: scn9_SL_A2_07_1036L_Milo.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_06_1005L_PICTUREBUTTE

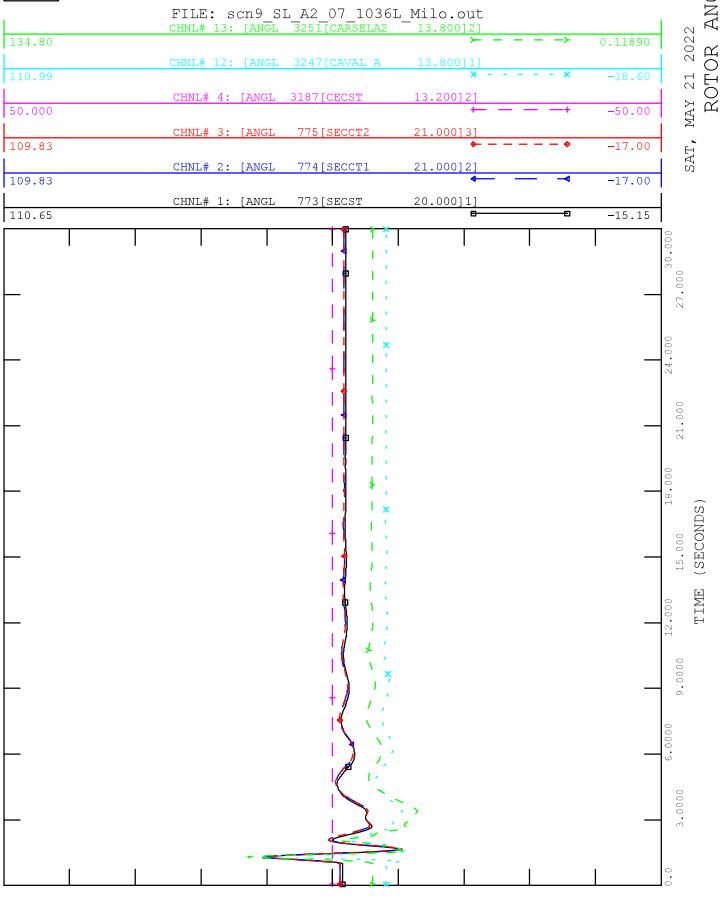
FILE: scn9_SL_A2_06_1005L_PictureButte.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

FILE: scn9_SL_A2_07_1036L_Milo.out

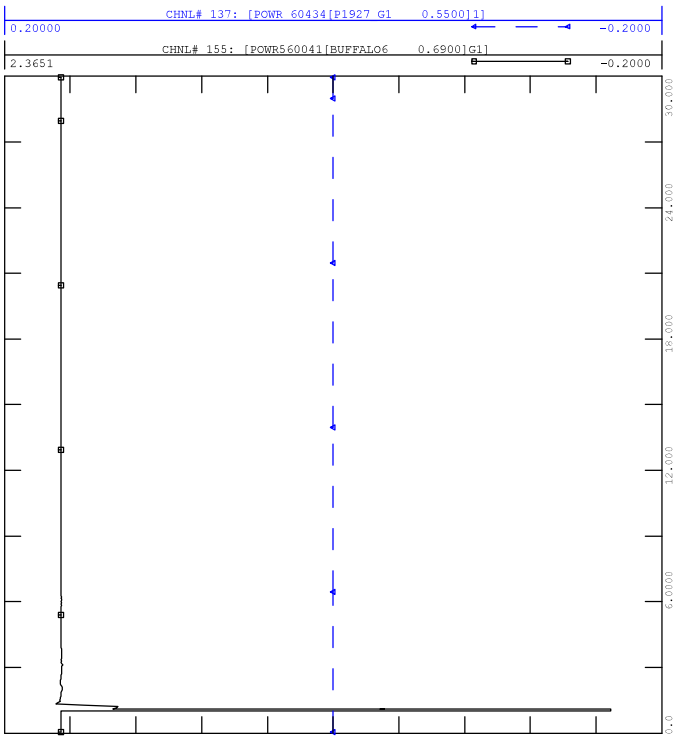


SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

FILE: scn9_SL_A2_07_1036L_Milo.out

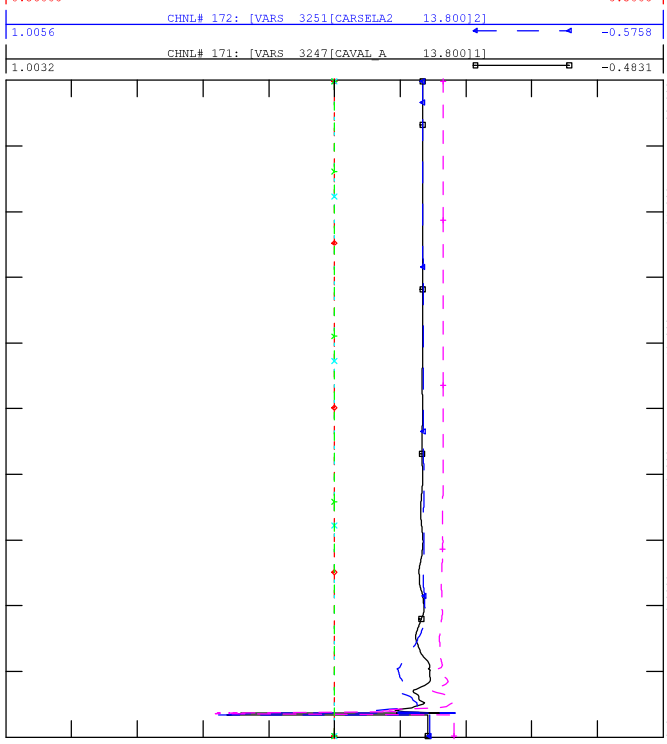
SAT, MAY 21 2022 1:19 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

FILE: scn9_SL_A2_07_1036L_Milo.out

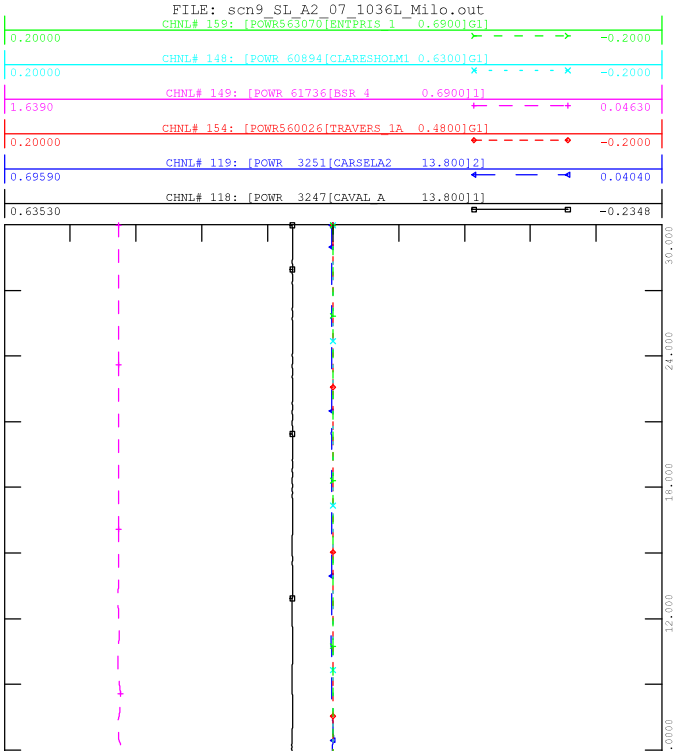
SAT, MAY 21 2022 1:19 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

FILE: scn9_SL_A2_07_1036L_Milo.out

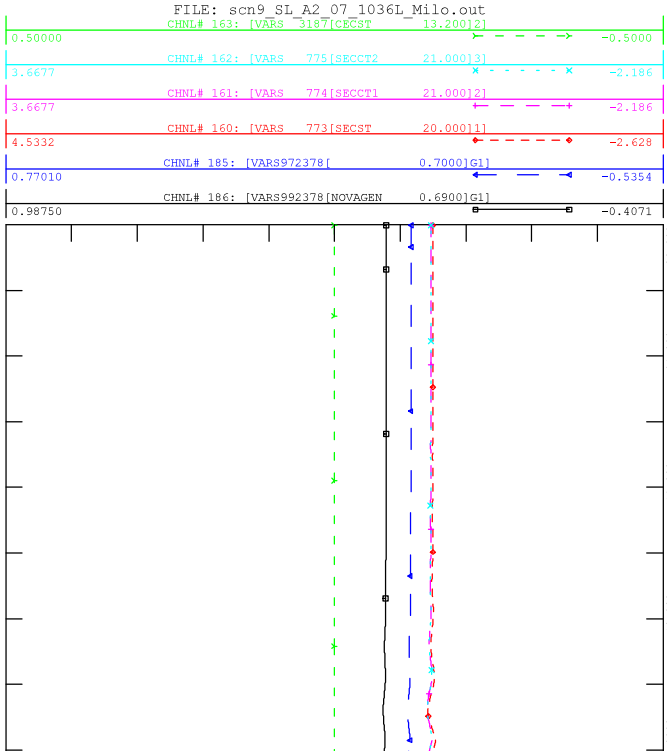
SAT, MAY 21 2022 1:19 ACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

FILE: scn9_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:19 REACTIVE POWER



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

FILE: scn9_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000

CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1189 0.65550

CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1188 0.65550

CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1186 0.66230

CHNL# 291: [ETRM972378[0.7000]G1]
1.2780 0.41900

CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2709 0.44320

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

FILE: scn9_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000

CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.4584 -0.0852

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

FILE: scn9_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000

CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
6.4154 -2.138

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

FILE: scn9_SL_A2_07_1036L_Milo.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000

CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000

CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1500 0.37600

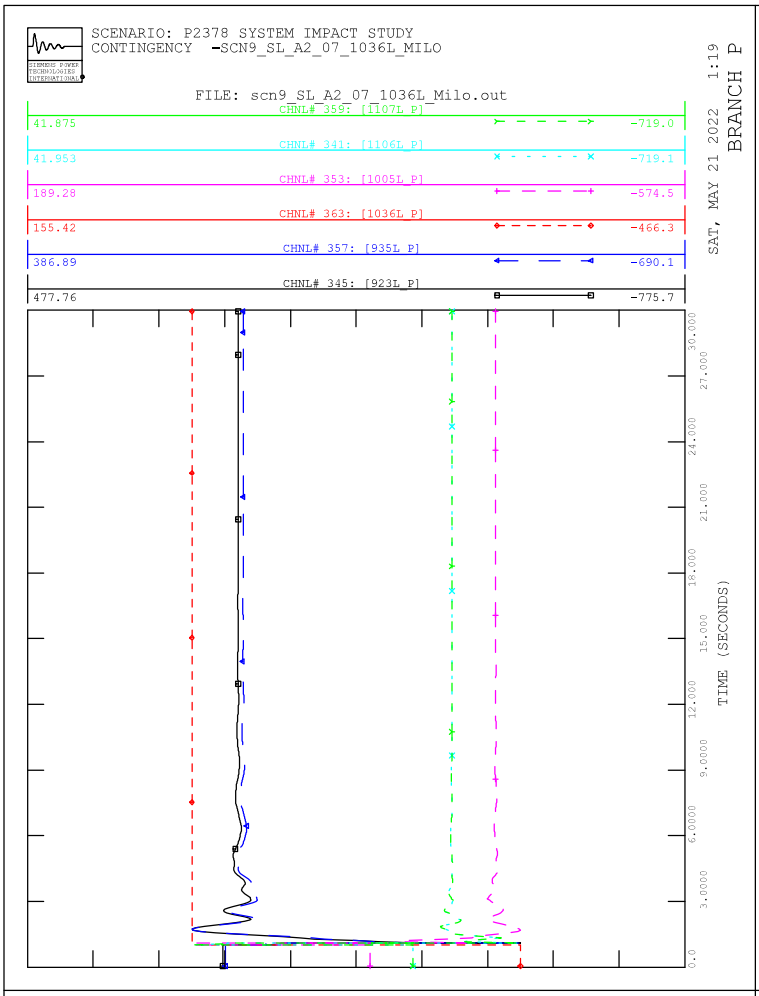
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000

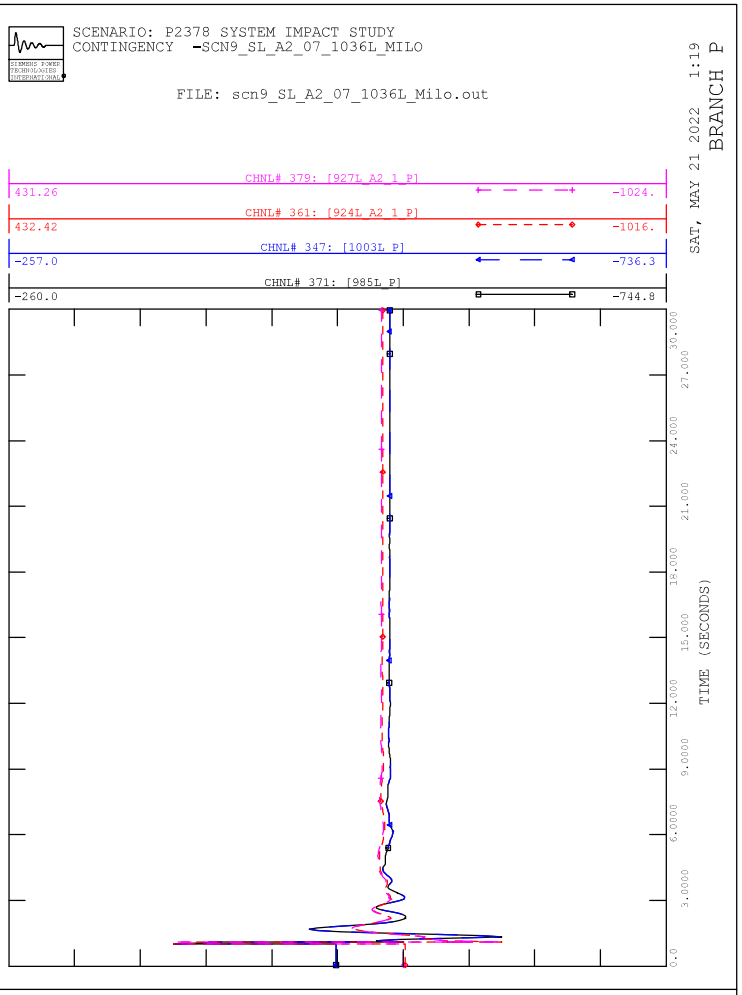
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1604 0.71890

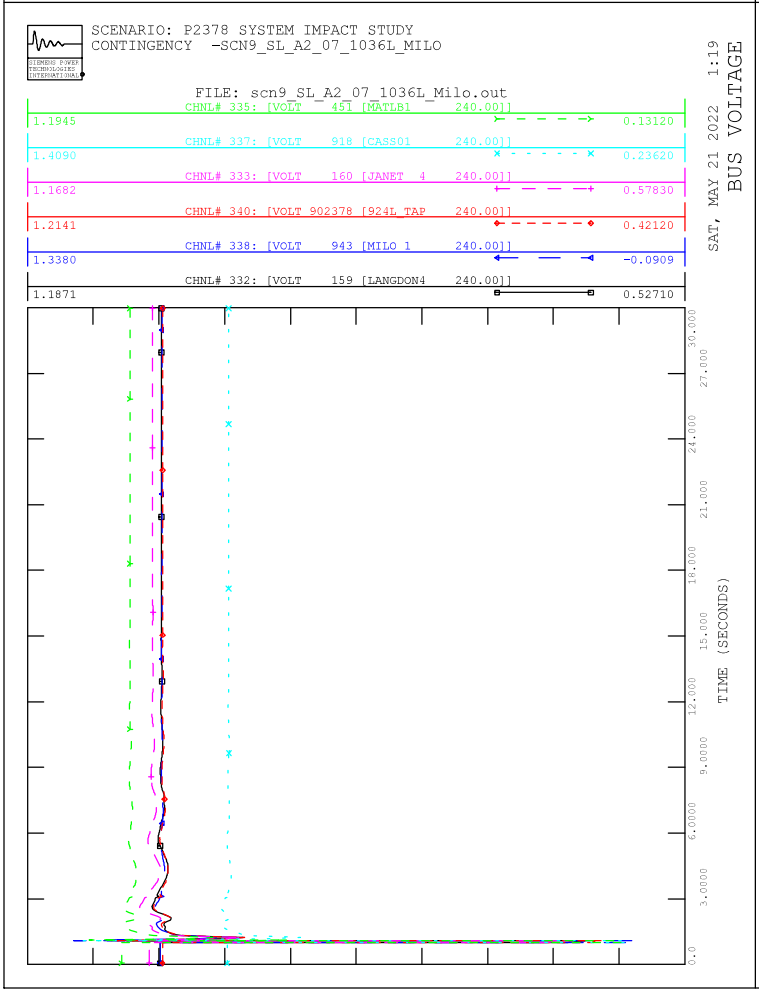
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1496 0.77150

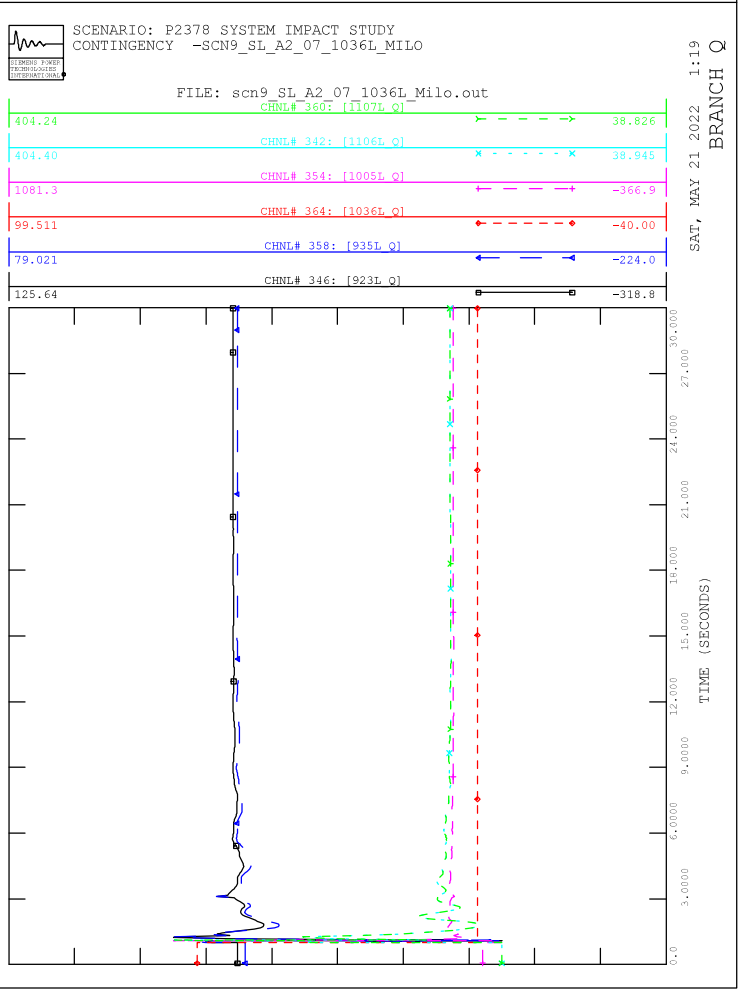
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

TIME (SECONDS)


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO
FILE: scn9_SL_A2_07_1036L_Milo.out
CHNL# 359: [1107L P]
41.875
-719.0
CHNL# 341: [1106L P]
41.953
-719.1
CHNL# 353: [1005L P]
189.28
-574.5
CHNL# 363: [1036L P]
155.42
-466.3
CHNL# 357: [935L P]
386.89
-690.1
CHNL# 345: [923L P]
477.76
-775.7
SAT, MAY 21 2022 1:19
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO
FILE: scn9_SL_A2_07_1036L_Milo.out
CHNL# 379: [927L A2 1 P]
431.26
-1024.
CHNL# 361: [924L A2 1 P]
432.42
-1016.
CHNL# 347: [1003L P]
-257.0
-736.3
CHNL# 371: [985L P]
-260.0
-744.8
SAT, MAY 21 2022 1:19
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO
FILE: scn9_SL_A2_07_1036L_Milo.out
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1945
0.13120
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.4090
0.23620
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1682
0.57830
CHNL# 340: [VOLT 902378 [924L_TAP 240.00]]
1.2141
0.42120
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.3380
-0.0909
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1871
0.52710
SAT, MAY 21 2022 1:19
BUS VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO
FILE: scn9_SL_A2_07_1036L_Milo.out
CHNL# 360: [1107L Q]
404.24
38.826
CHNL# 342: [1106L Q]
404.40
38.945
CHNL# 354: [1005L Q]
1081.3
-366.9
CHNL# 364: [1036L Q]
99.511
-40.00
CHNL# 358: [935L Q]
79.021
-224.0
CHNL# 346: [923L Q]
125.64
-318.8
SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

FILE: scn9_SL_A2_08_1036L_Travers.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
134.30 1.2569
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
107.97 -18.80
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
109.61 -15.84
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
109.61 -15.84
CHNL# 1: [ANGL 773[SECST 20.000]1]
110.69 -13.91

SAT, MAY 21 2022 1:19
ROTOR ANGLE
TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

FILE: scn9_SL_A2_08_1036L_Travers.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.6295 -0.1270
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.68760 -0.0338
CHNL# 118: [POWR 3247[CAVAL_A 13.800]1]
0.59750 -0.2335

SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_07_1036L_MILO

FILE: scn9_SL_A2_07_1036L_Milo.out

CHNL# 380: [927L_A2_1_Q]
864.99 -409.8
CHNL# 362: [924L_A2_1_Q]
851.63 -421.2
CHNL# 348: [1003L_Q]
604.27 -248.9
CHNL# 372: [985L_Q]
611.71 -251.7

SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

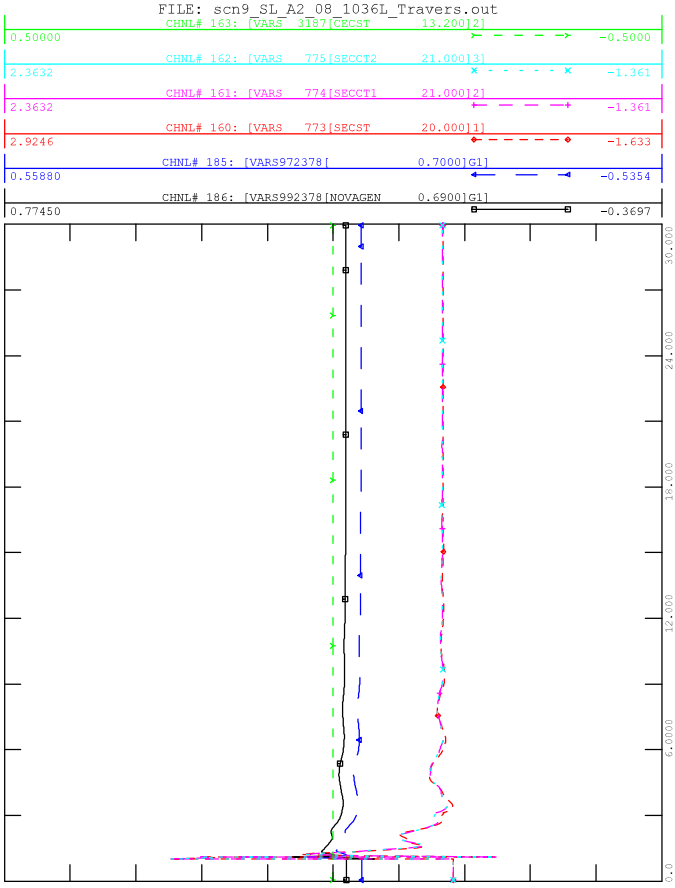
FILE: scn9_SL_A2_08_1036L_Travers.out

CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.0607 0.52890
CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.0607 0.52890
CHNL# 107: [POWR 773[SECST 20.000]1]
2.5934 0.83210
CHNL# 132: [POWR972378[0.7000]G1]
1.1216 0.24390
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0784 0.26060

SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

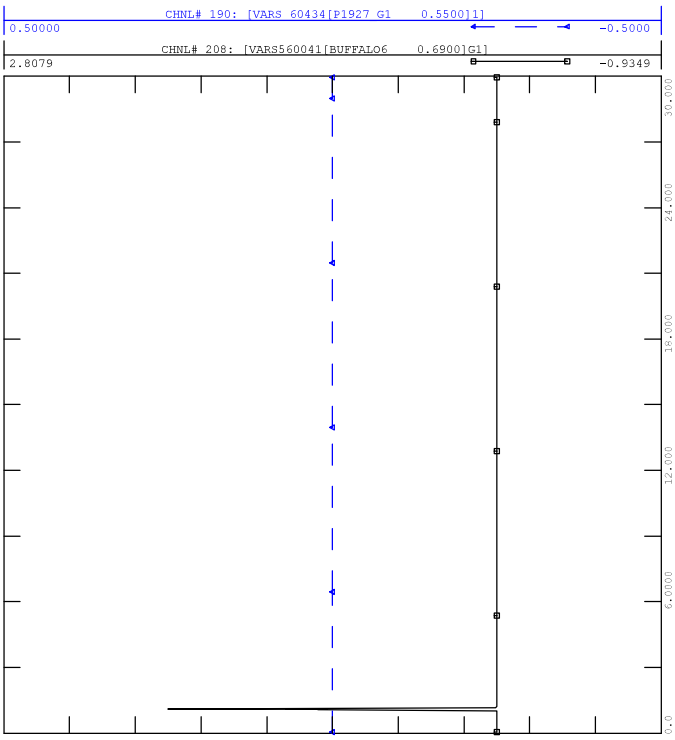
FILE: scn9_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

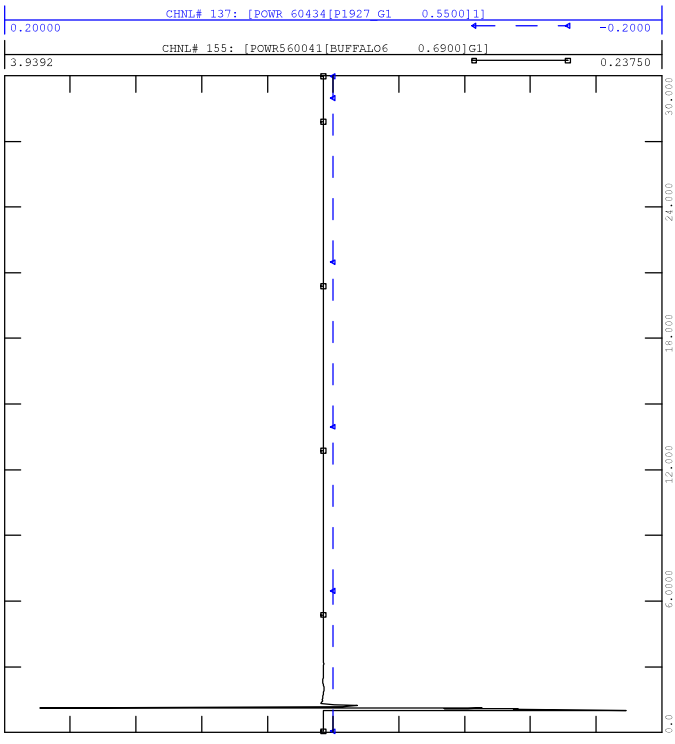
FILE: scn9_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

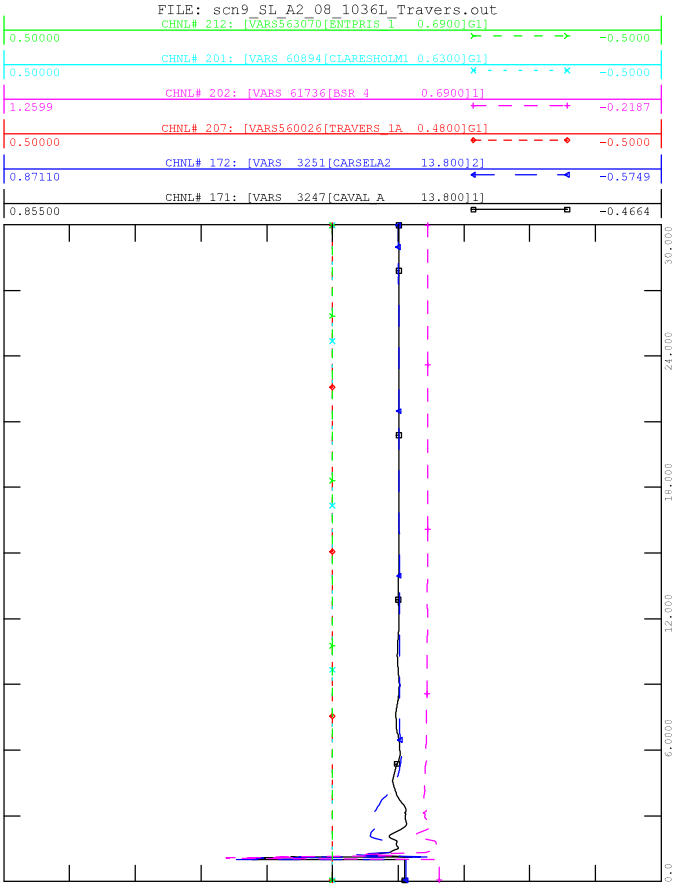
FILE: scn9_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

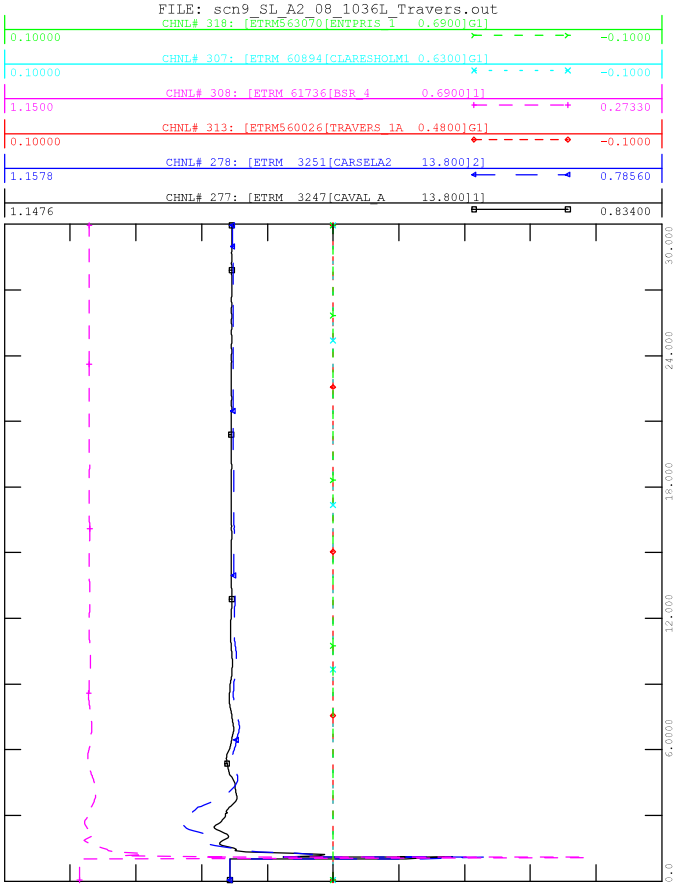
FILE: scn9_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

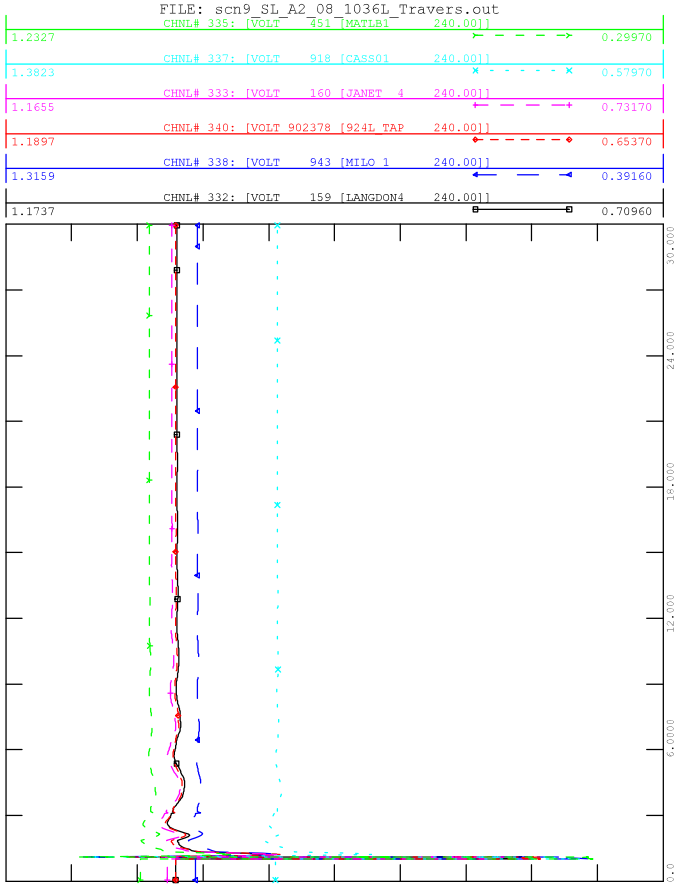
FILE: scn9_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

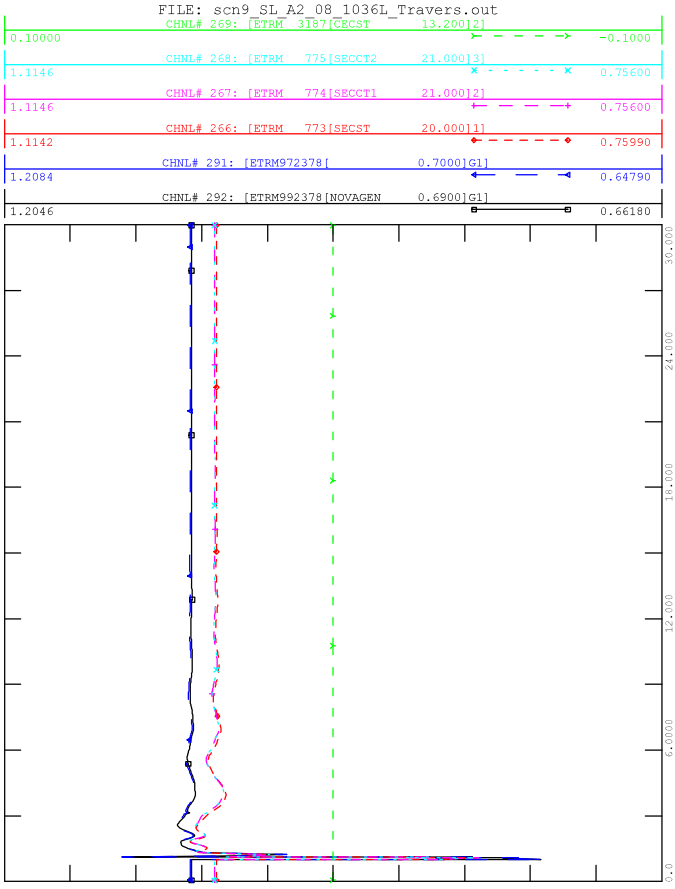
FILE: scn9_SL_A2_08_1036L_Travers.out



SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

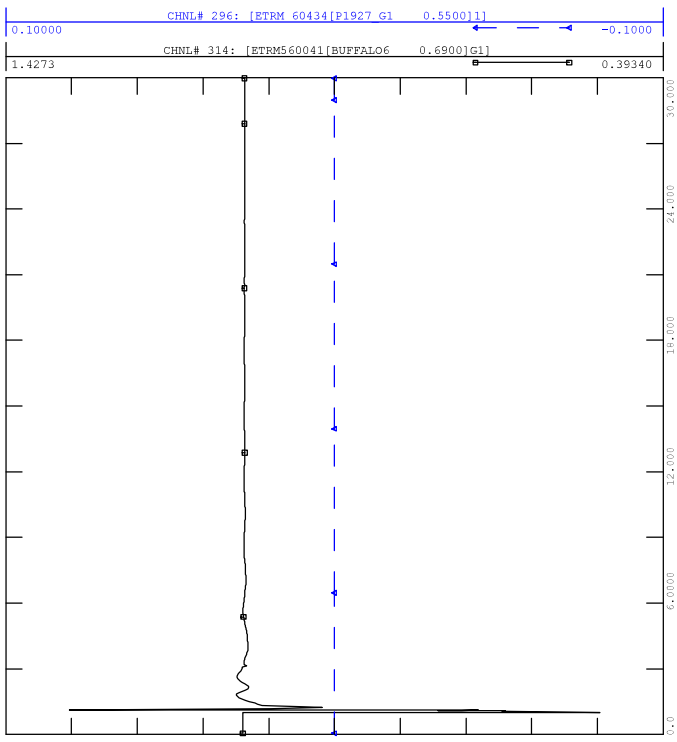
FILE: scn9_SL_A2_08_1036L_Travers.out



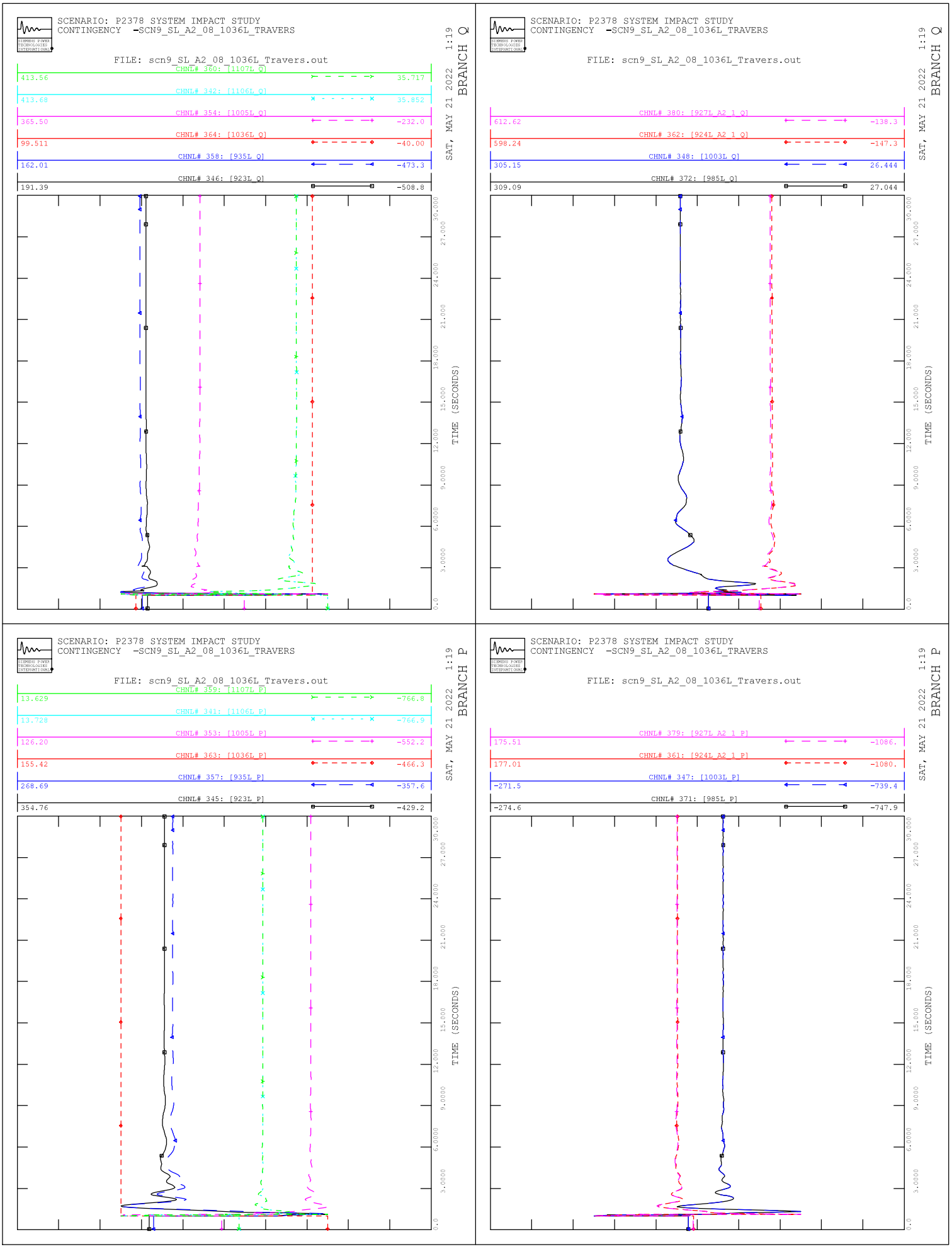
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

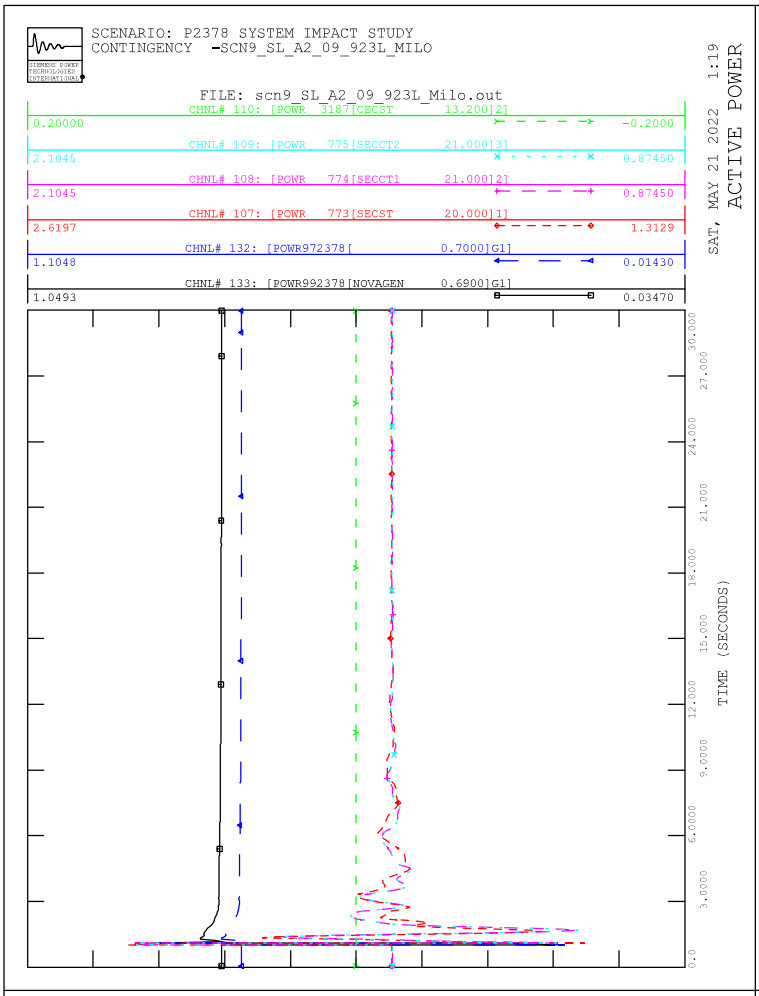
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS

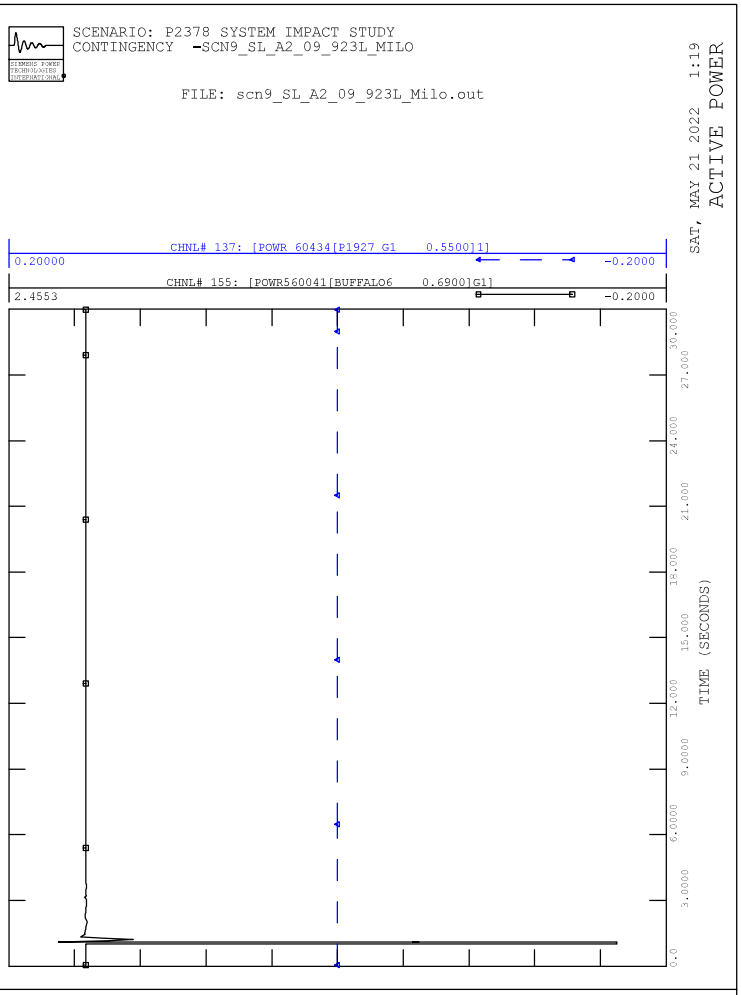
FILE: scn9_SL_A2_08_1036L_Travers.out

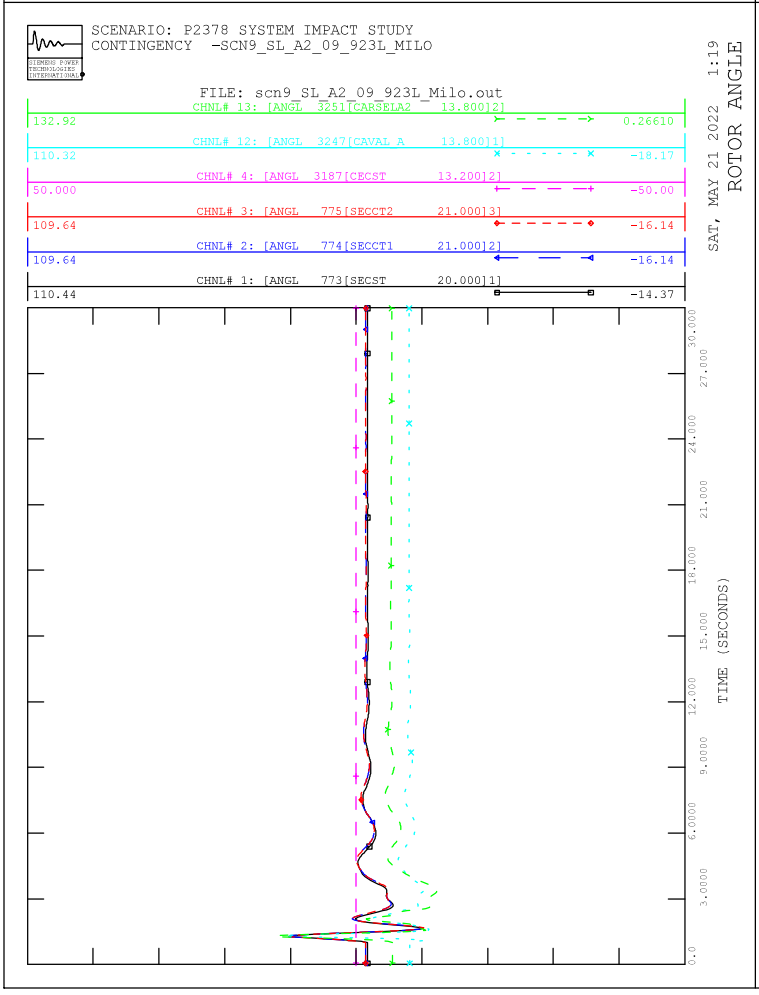


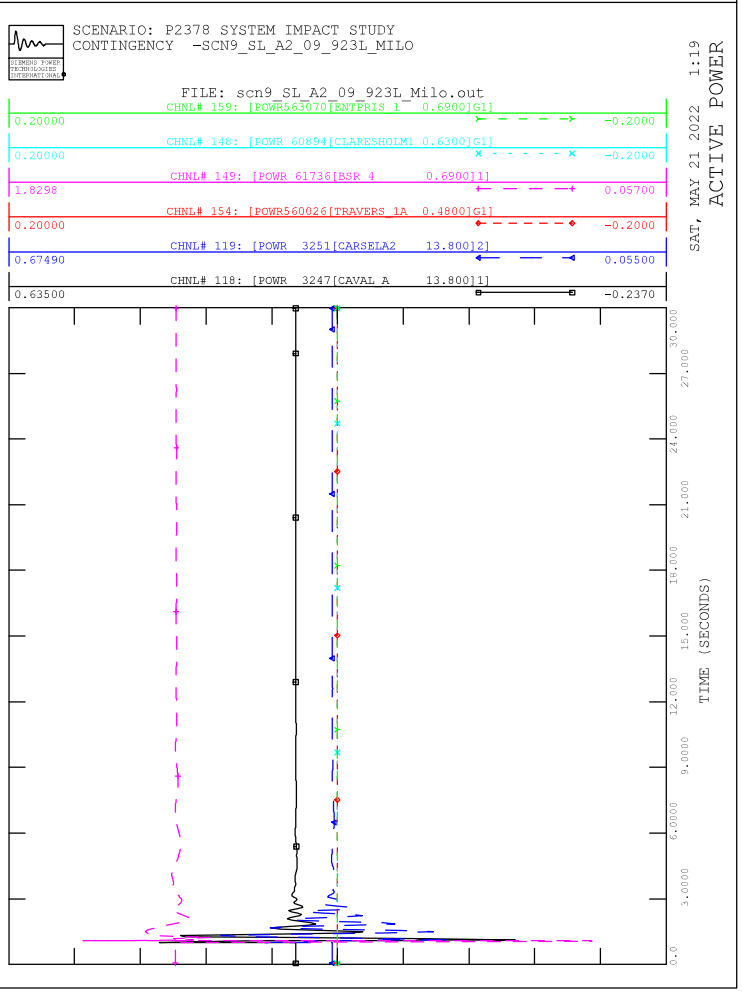
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS
FILE: scn9_SL_A2_08_1036L_Travers.out
CHNL# 360: [1107L Q]
413.56
35.717
CHNL# 342: [1106L Q]
413.68
35.852
CHNL# 354: [1005L Q]
365.50
-232.0
CHNL# 364: [1036L Q]
99.511
-40.00
CHNL# 358: [935L Q]
162.01
-473.3
CHNL# 346: [923L Q]
191.39
-508.8
BRANCH Q
SAT, MAY 21 2022 1:19
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS
FILE: scn9_SL_A2_08_1036L_Travers.out
CHNL# 380: [927L A2 1 Q]
612.62
-138.3
CHNL# 362: [924L A2 1 Q]
598.24
-147.3
CHNL# 348: [1003L Q]
305.15
26.444
CHNL# 372: [985L Q]
309.09
27.044
BRANCH Q
SAT, MAY 21 2022 1:19
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS
FILE: scn9_SL_A2_08_1036L_Travers.out
CHNL# 359: [1107L P]
13.629
-766.8
CHNL# 341: [1106L P]
13.728
-766.9
CHNL# 353: [1005L P]
126.20
-552.2
CHNL# 363: [1036L P]
155.42
-466.3
CHNL# 357: [935L P]
268.69
-357.6
CHNL# 345: [923L P]
354.76
-429.2
BRANCH P
SAT, MAY 21 2022 1:19
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_08_1036L_TRAVERS
FILE: scn9_SL_A2_08_1036L_Travers.out
CHNL# 379: [927L A2 1 P]
175.51
-1086.
CHNL# 361: [924L A2 1 P]
177.01
-1080.
CHNL# 347: [1003L P]
-271.5
-739.4
CHNL# 371: [985L P]
-274.6
-747.9
BRANCH P
SAT, MAY 21 2022 1:19
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO
FILE: scn9_SL_A2_09_923L_Milo.out
CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000
-0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.1045
0.87450
CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.1045
0.87450
CHNL# 107: [POWR 773[SECST 20.000]1]
2.6197
1.3129
CHNL# 132: [POWR972378[0.7000]G1]
1.1048
0.01430
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0493
0.03470
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO
FILE: scn9_SL_A2_09_923L_Milo.out
CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000
-0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.4553
-0.2000
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO
FILE: scn9_SL_A2_09_923L_Milo.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
132.92
0.26610
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
110.32
-18.17
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
109.64
-16.14
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
109.64
-16.14
CHNL# 1: [ANGL 773[SECST 20.000]1]
110.44
-14.37
SAT, MAY 21 2022 1:19
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO
FILE: scn9_SL_A2_09_923L_Milo.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000
-0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.8298
0.05700
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.67490
0.05500
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.63500
-0.2370
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO

FILE: scn9_SL_A2_09_923L_Milo.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3517 -0.2706
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.0044 -0.6031
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.0024 -0.4928

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO

FILE: scn9_SL_A2_09_923L_Milo.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1179 0.65390
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1179 0.65390
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1195 0.66070
CHNL# 291: [ETRM972378[0.7000]G1]
1.2064 0.41960
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2092 0.44380

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO

FILE: scn9_SL_A2_09_923L_Milo.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
3.5848 -1.950
CHNL# 161: [VARS 774[SECCT1 21.000]2]
3.5848 -1.950
CHNL# 160: [VARS 773[SECST 20.000]1]
4.4317 -2.339
CHNL# 185: [VARS972378[0.7000]G1]
0.74540 -0.5354
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.94490 -0.4070

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

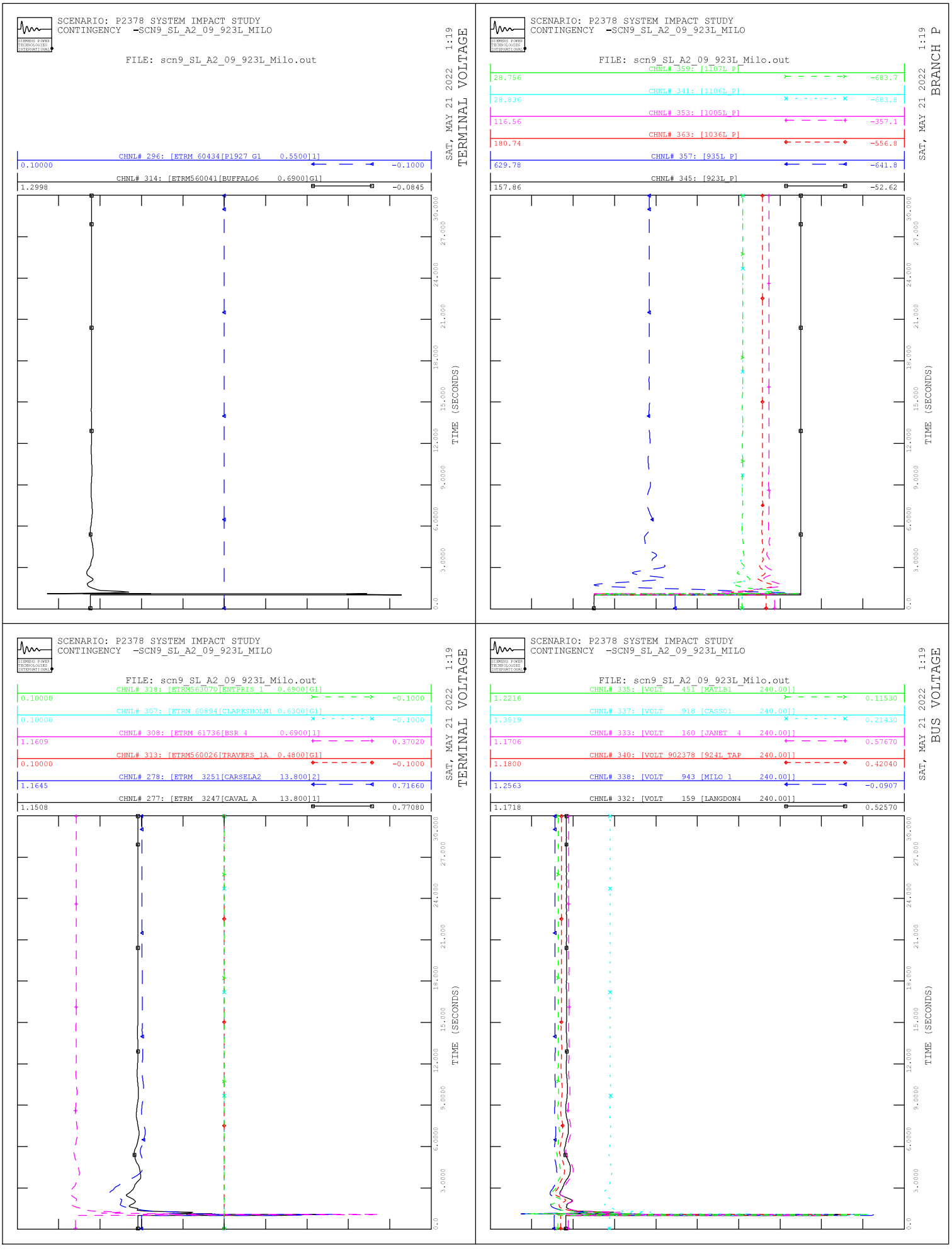
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO

FILE: scn9_SL_A2_09_923L_Milo.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
5.1000 -1.700

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO
FILE: scn9_SL_A2_09_923L_Milo.out
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000
-0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.2998
-0.0845
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO
FILE: scn9_SL_A2_09_923L_Milo.out
SAT, MAY 21 2022 1:19
BRANCH P
CHNL# 359: [1107L P]
28.756
-683.7
CHNL# 341: [1106L P]
28.836
-683.8
CHNL# 353: [1005L P]
116.56
-357.1
CHNL# 363: [1036L P]
180.74
-556.8
CHNL# 357: [935L P]
629.78
-641.8
CHNL# 345: [923L P]
157.86
-52.62
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO
FILE: scn9_SL_A2_09_923L_Milo.out
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
CHNL# 318: [ETRM563070[BNTPRIS 1 0.6900]G1]
0.10000
-0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000
-0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1609
0.37020
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000
-0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1645
0.71660
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1508
0.77080
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO
FILE: scn9_SL_A2_09_923L_Milo.out
SAT, MAY 21 2022 1:19
BUS VOLTAGE
CHNL# 335: [VOLT 457 [MATLB1 240.00]]
1.2216
0.11530
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.3919
0.21430
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1706
0.57670
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1800
0.42040
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2563
-0.0907
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1718
0.52570
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO

FILE: scn9_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:19

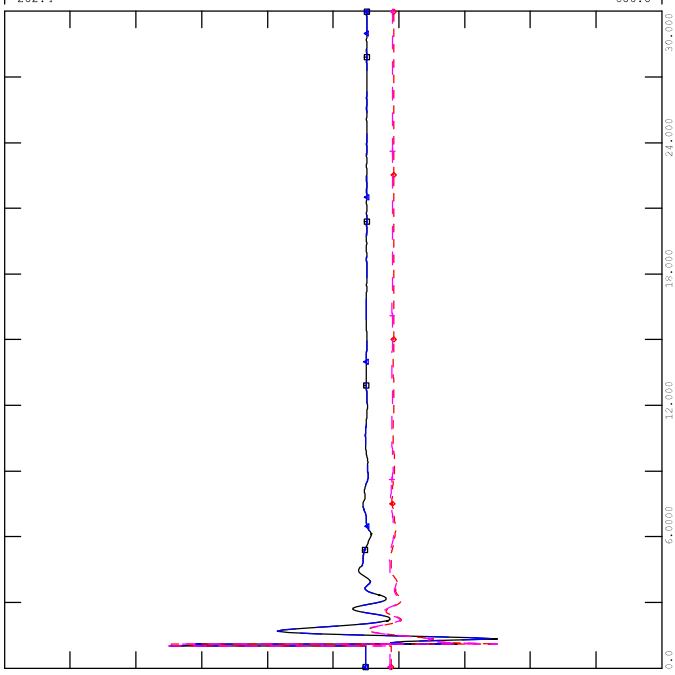
BRANCH P

CHNL# 379: [927L_A2_1_P]
446.34 -1070.

CHNL# 361: [924L_A2_1_P]
447.22 -1061.

CHNL# 347: [1003L_P]
-279.1 -673.1

CHNL# 371: [985L_P]
-282.4 -680.8



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

FILE: scn9_SL_A2_10_923L_Newell.out

SAT, MAY 21 2022 1:19

ROTOR ANGLE

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
131.42 0.89130

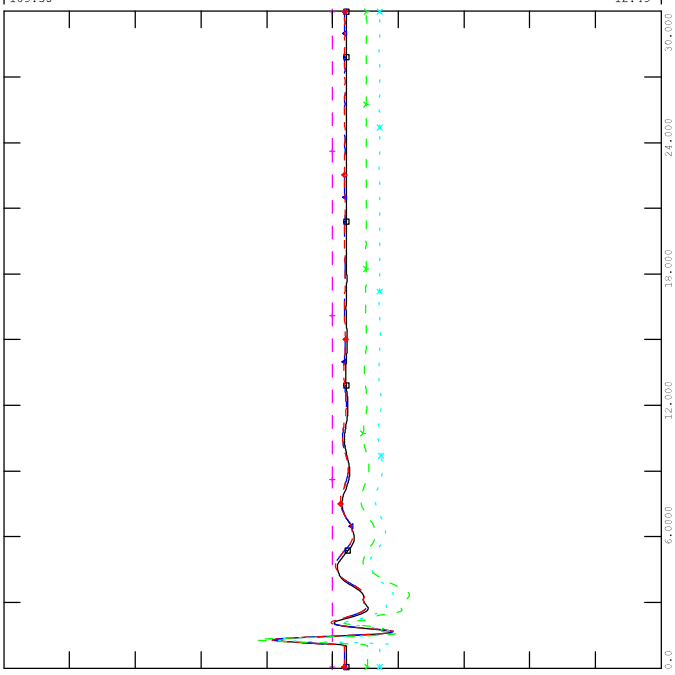
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
107.04 -17.73

CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00

CHNL# 3: [ANGL 775[SECCT2 21.000]3]
108.44 -14.07

CHNL# 2: [ANGL 774[SECCT1 21.000]2]
108.44 -14.07

CHNL# 1: [ANGL 773[SECST 20.000]1]
109.35 -12.49



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO

FILE: scn9_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:19

BRANCH Q

CHNL# 360: [1107L_Q]
312.39 32.142

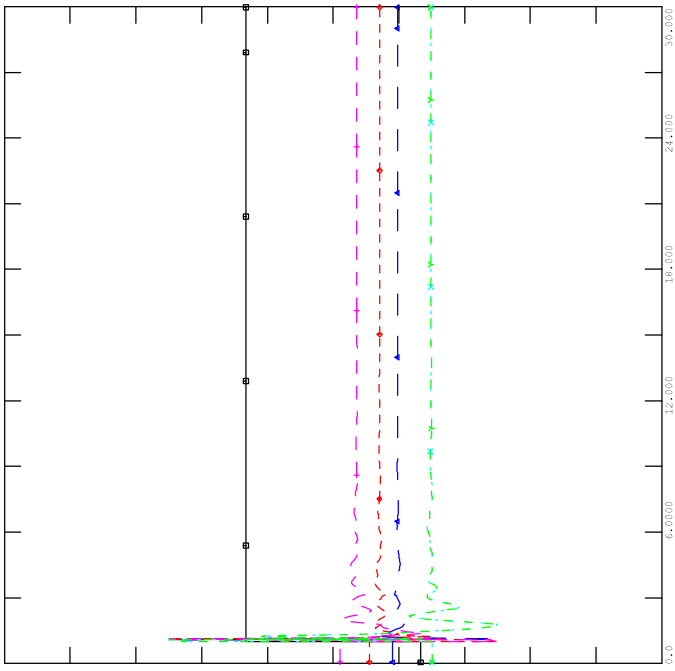
CHNL# 342: [1106L_Q]
312.47 32.279

CHNL# 354: [1005L_Q]
129.04 -49.91

CHNL# 364: [1036L_Q]
249.94 -92.90

CHNL# 358: [935L_Q]
1176.0 -867.6

CHNL# 346: [923L_Q]
40.000 -68.95



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_09_923L_MILO

FILE: scn9_SL_A2_09_923L_Milo.out

SAT, MAY 21 2022 1:19

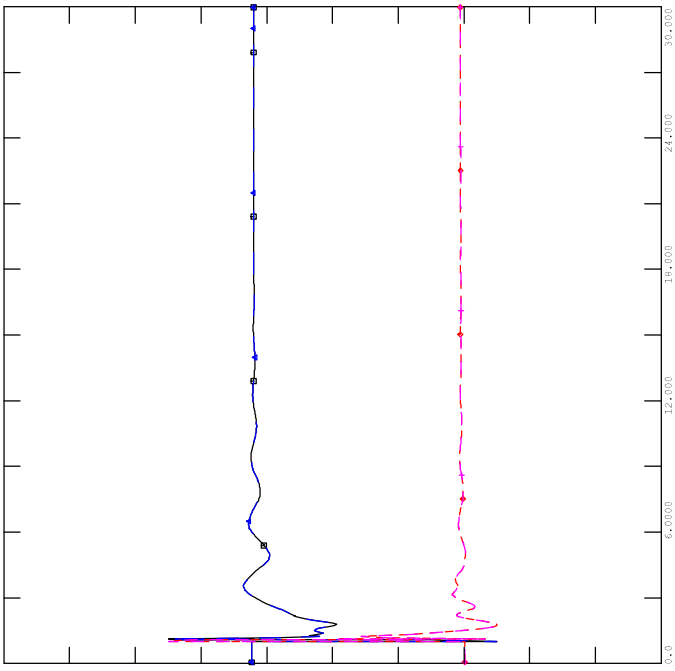
BRANCH Q

CHNL# 380: [927L_A2_1_Q]
780.71 -155.3

CHNL# 362: [924L_A2_1_Q]
768.15 -169.1

CHNL# 348: [1003L_Q]
354.33 -166.5

CHNL# 372: [985L_Q]
358.89 -168.2



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

FILE: scn9_SL_A2_10_923L_Newell.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.6458 0.47910
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.67190 0.01260
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.61630 -0.2218

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

FILE: scn9_SL_A2_10_923L_Newell.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
2.7514 -1.559
CHNL# 161: [VARS 774[SECCT1 21.000]2]
2.7514 -1.559
CHNL# 160: [VARS 773[SECST 20.000]1]
3.4053 -1.878
CHNL# 185: [VARS972378[0.7000]G1]
0.59930 -0.5354
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.79710 -0.3824

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

FILE: scn9_SL_A2_10_923L_Newell.out

CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.1300 0.73820
CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.1300 0.73820
CHNL# 107: [POWR 773[SECST 20.000]1]
2.6710 1.0768
CHNL# 132: [POWR972378[0.7000]G1]
1.1164 0.15630
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0688 0.17500

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

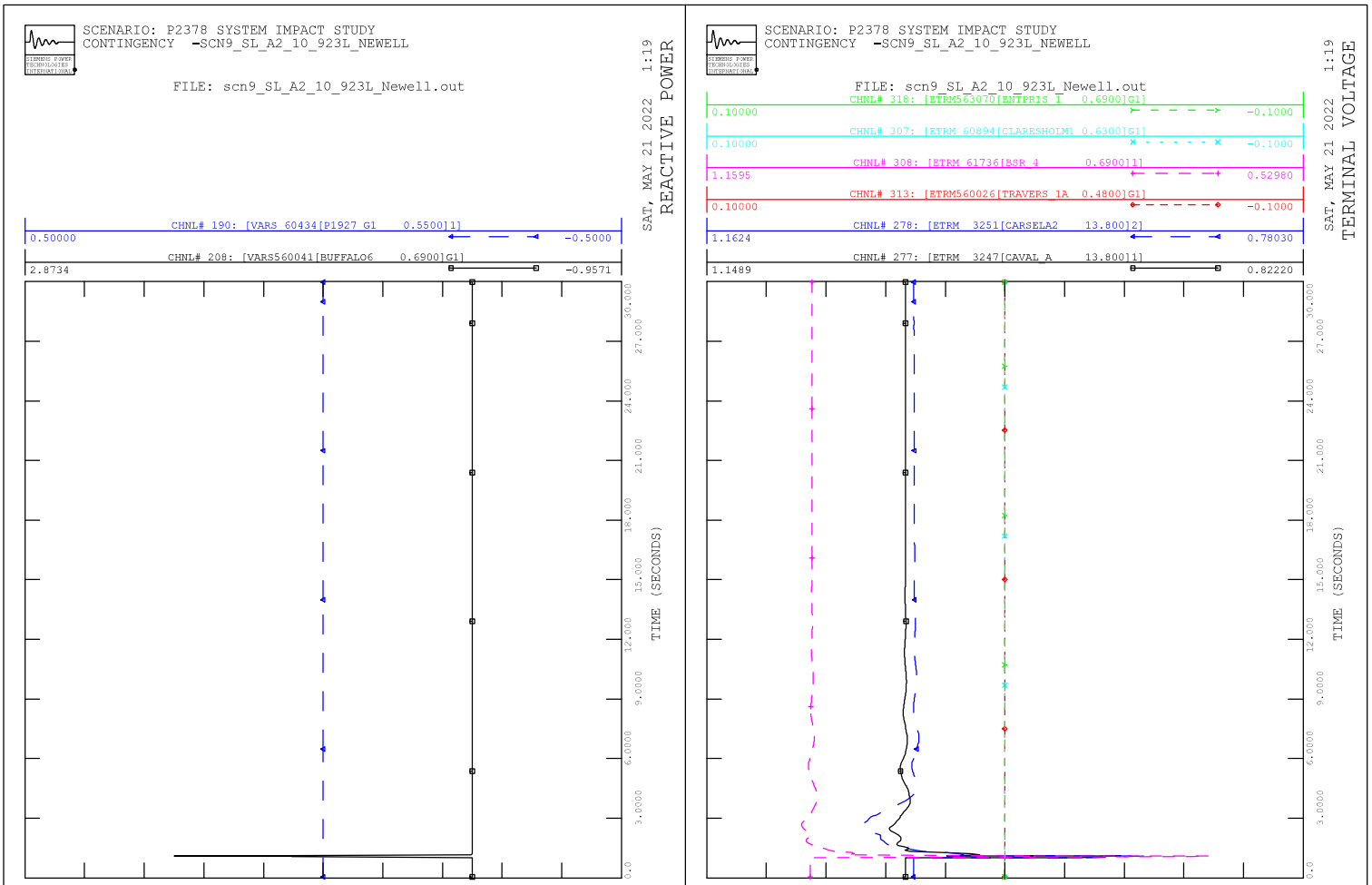
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

FILE: scn9_SL_A2_10_923L_Newell.out

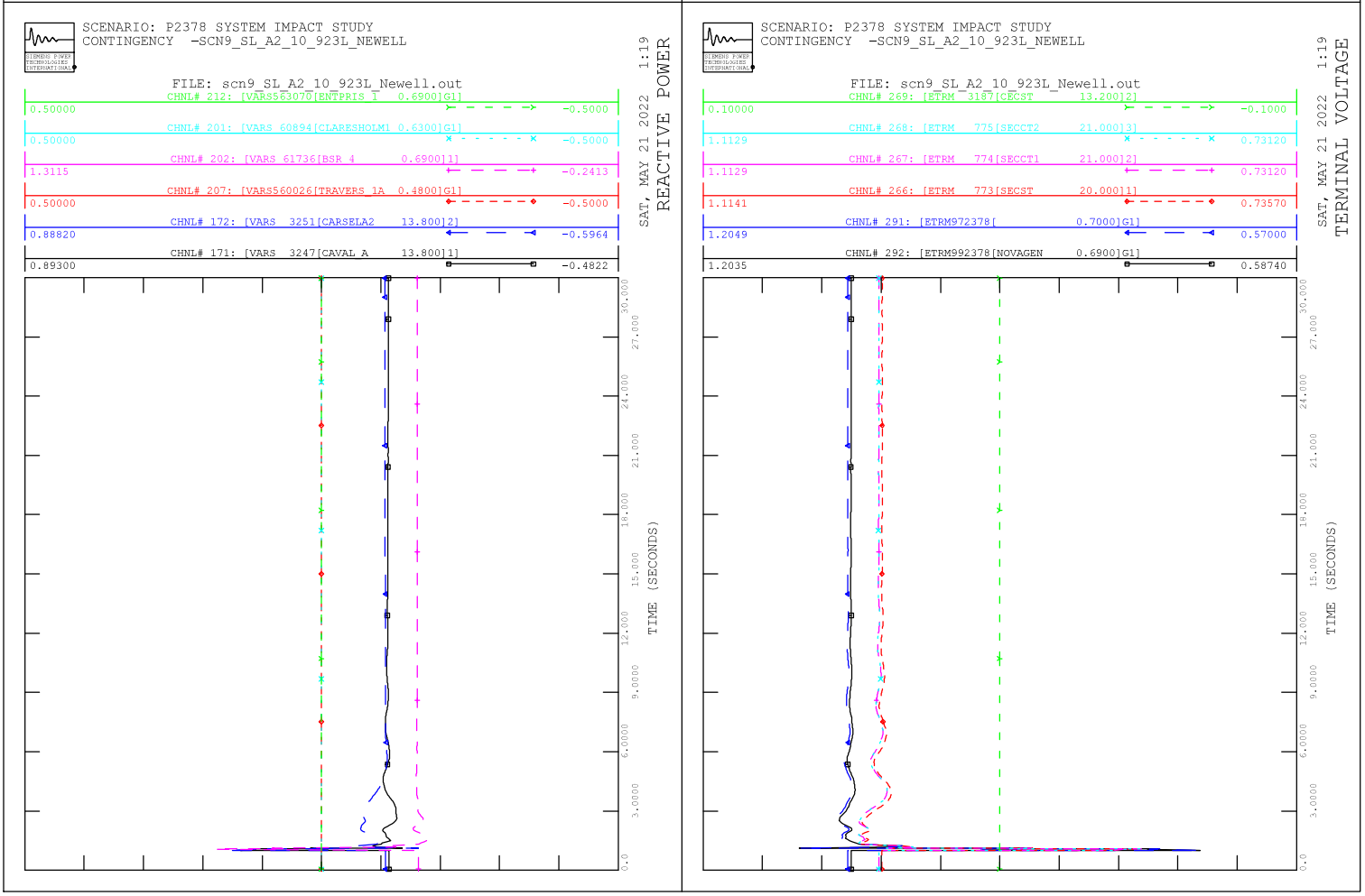
CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
3.7462 -0.0386

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL
FILE: scn9_SL_A2_10_923L_Newell.out
CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000
-0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
2.8734
-0.9571
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL
FILE: scn9_SL_A2_10_923L_Newell.out
CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000
-0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000
-0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1595
0.52980
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000
-0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1624
0.78030
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1489
0.82220
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL
FILE: scn9_SL_A2_10_923L_Newell.out
CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000
-0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000
-0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3115
-0.2413
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000
-0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
0.88820
-0.5964
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.89300
-0.4822
SAT, MAY 21 2022 1:19
REACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL
FILE: scn9_SL_A2_10_923L_Newell.out
CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000
-0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1129
0.73120
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1129
0.73120
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1141
0.73570
CHNL# 291: [ETRM972378[0.7000]G1]
1.2049
0.57000
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2035
0.58740
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

FILE: scn9_SL_A2_10_923L_Newell.out

CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.2437 0.32500
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.3833 -0.0220
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1687 0.69320
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1834 0.58180
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2777 0.22530
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1729 0.65950

SAT, MAY 21 2022 1:19
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

FILE: scn9_SL_A2_10_923L_Newell.out

CHNL# 360: [1107L Q]
313.22 47.838
CHNL# 342: [1106L Q]
313.33 47.967
CHNL# 354: [1005L Q]
161.51 -156.4
CHNL# 364: [1036L Q]
256.10 -214.0
CHNL# 358: [935L Q]
699.80 -977.7
CHNL# 346: [923L Q]
40.000 -68.95

SAT, MAY 21 2022 1:19
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

FILE: scn9_SL_A2_10_923L_Newell.out

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.3835 0.22180

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

FILE: scn9_SL_A2_10_923L_Newell.out

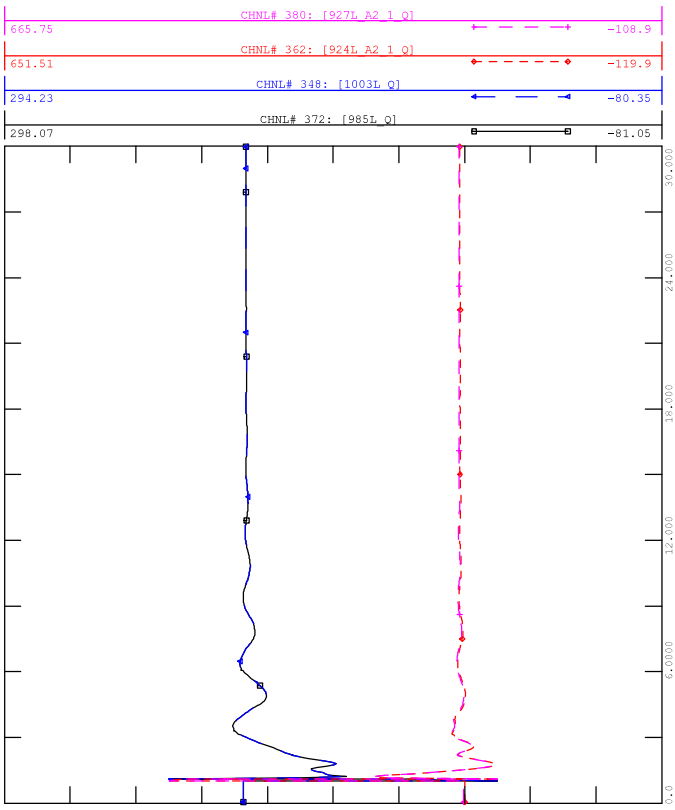
CHNL# 359: [1107L P]
-33.77 -694.4
CHNL# 341: [1106L P]
-33.70 -694.5
CHNL# 353: [1005L P]
24.051 -294.1
CHNL# 363: [1036L P]
-1.193 -425.9
CHNL# 357: [935L P]
549.54 -546.6
CHNL# 345: [923L P]
157.86 -52.62

SAT, MAY 21 2022 1:19
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

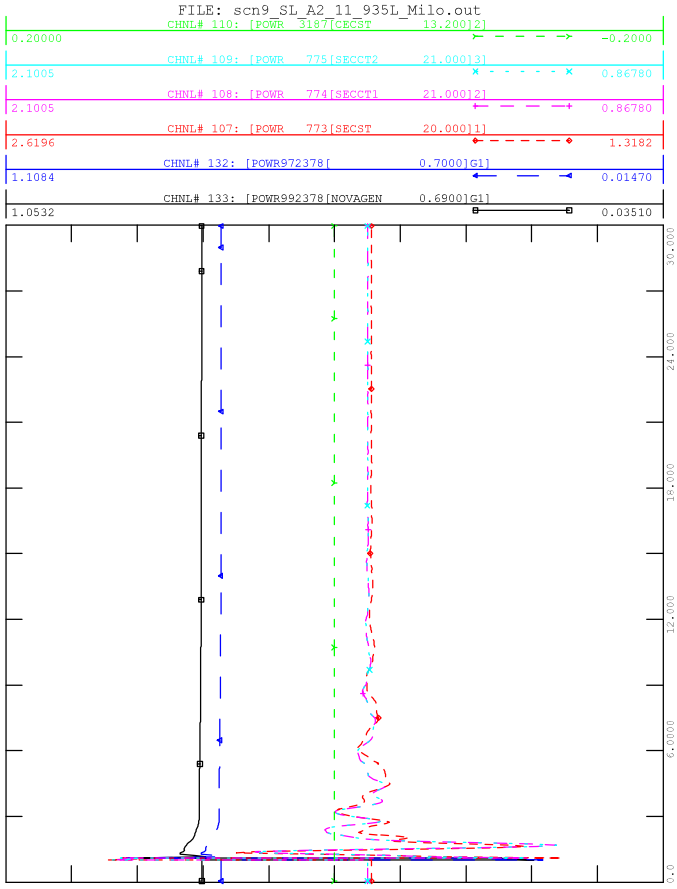
FILE: scn9_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

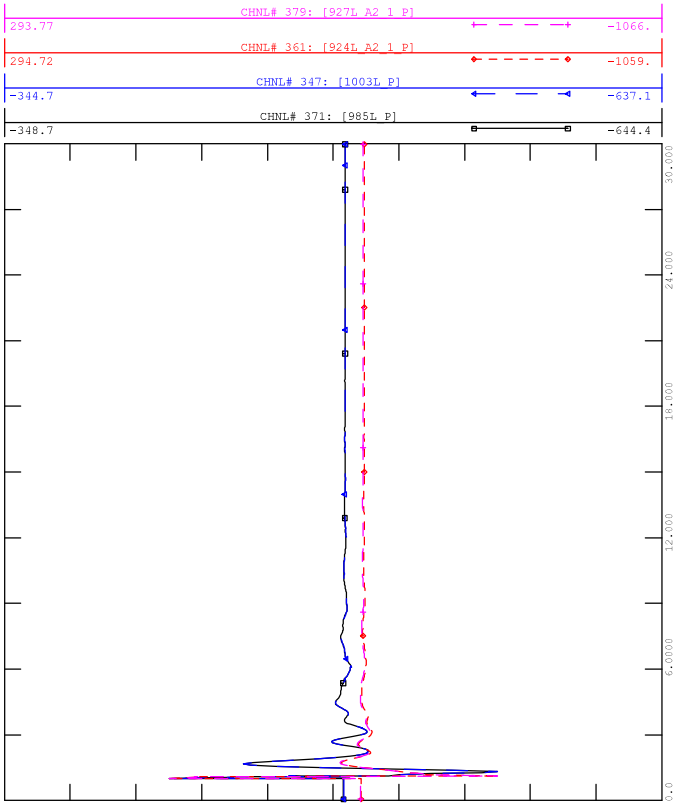
FILE: scn9_SL_A2_11_935L_Milo.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_10_923L_NEWELL

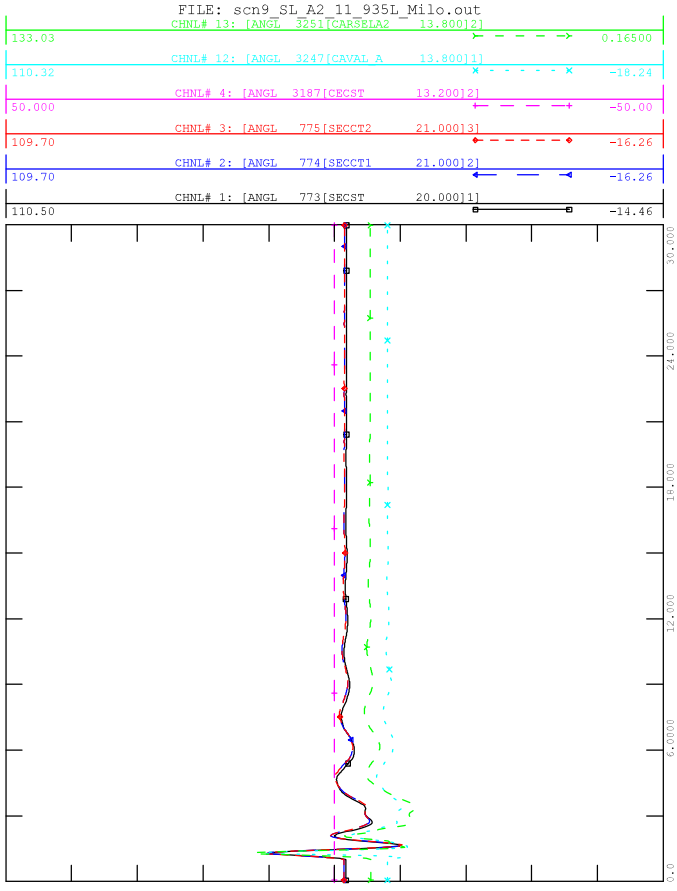
FILE: scn9_SL_A2_10_923L_Newell.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

FILE: scn9_SL_A2_11_935L_Milo.out



SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

FILE: scn9_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:19 ACTIVE POWER

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
2.4446 -0.2000

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

FILE: scn9_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:19 REACTIVE POWER

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3520 -0.2927
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.0040 -0.6083
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.0021 -0.4980

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

FILE: scn9_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:19 ACTIVE POWER

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.8532 0.05310
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.67670 0.05640
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.63490 -0.2372

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

FILE: scn9_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:19 REACTIVE POWER

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
3.5954 -1.988
CHNL# 161: [VARS 774[SECCT1 21.000]2]
3.5954 -1.988
CHNL# 160: [VARS 773[SECST 20.000]1]
4.4444 -2.385
CHNL# 185: [VARS972378[0.7000]G1]
0.74420 -0.5354
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.94310 -0.4069

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

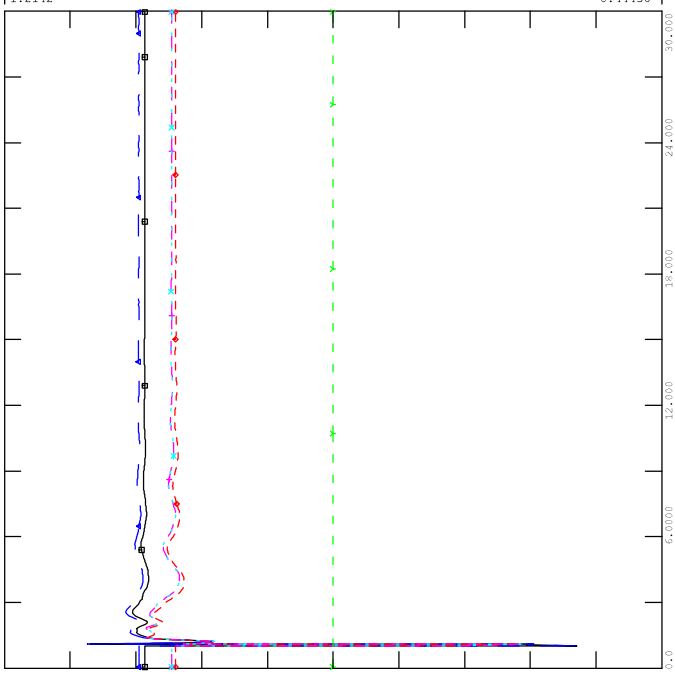
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

FILE: scn9_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1180 0.65340
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1180 0.65340
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1196 0.66030
CHNL# 291: [ETRM972378[0.7000]G1]
1.2117 0.42010
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2142 0.44430



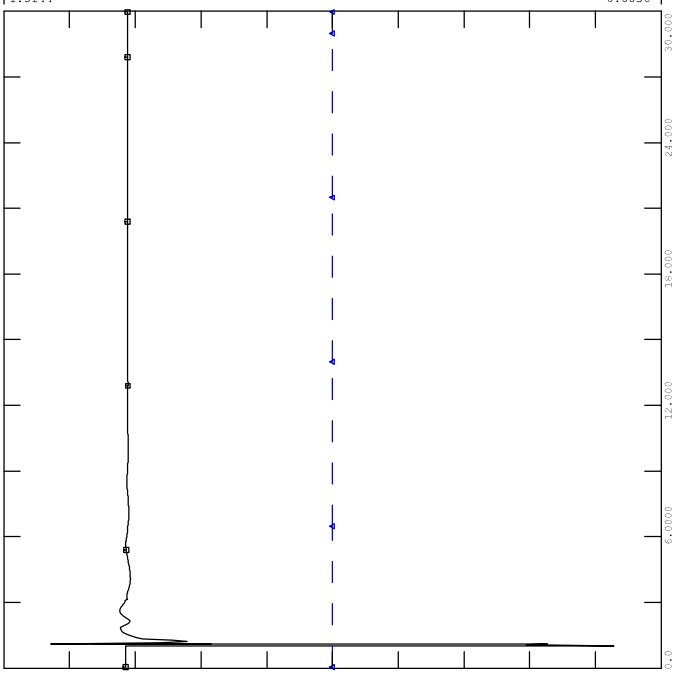
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

FILE: scn9_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:19

TERMINAL VOLTAGE

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.3144 -0.0836



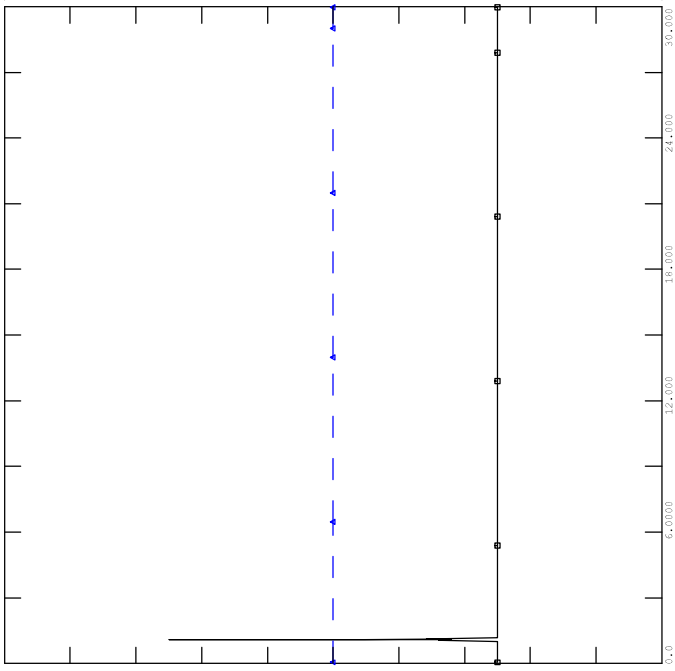
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

FILE: scn9_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:19

REACTIVE POWER

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
5.3119 -1.771



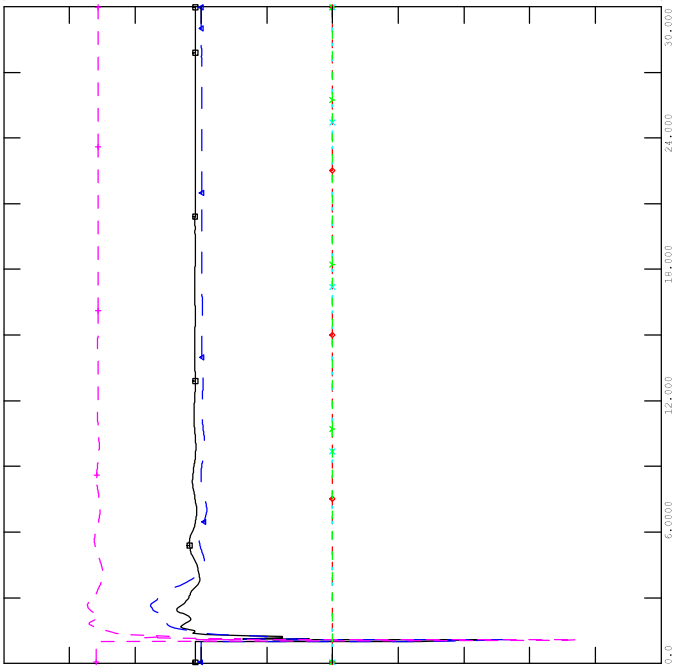
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

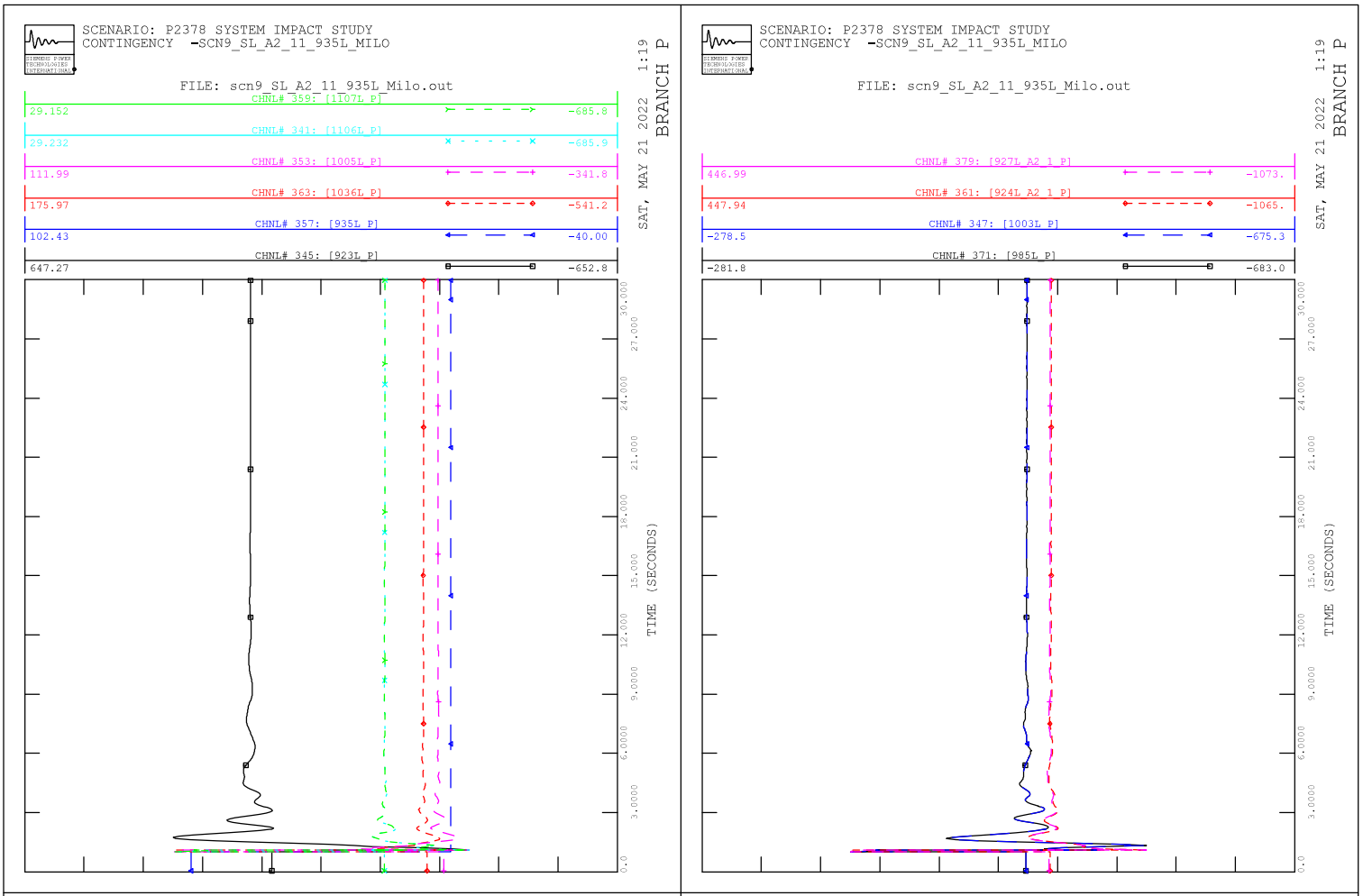
FILE: scn9_SL_A2_11_935L_Milo.out

SAT, MAY 21 2022 1:19

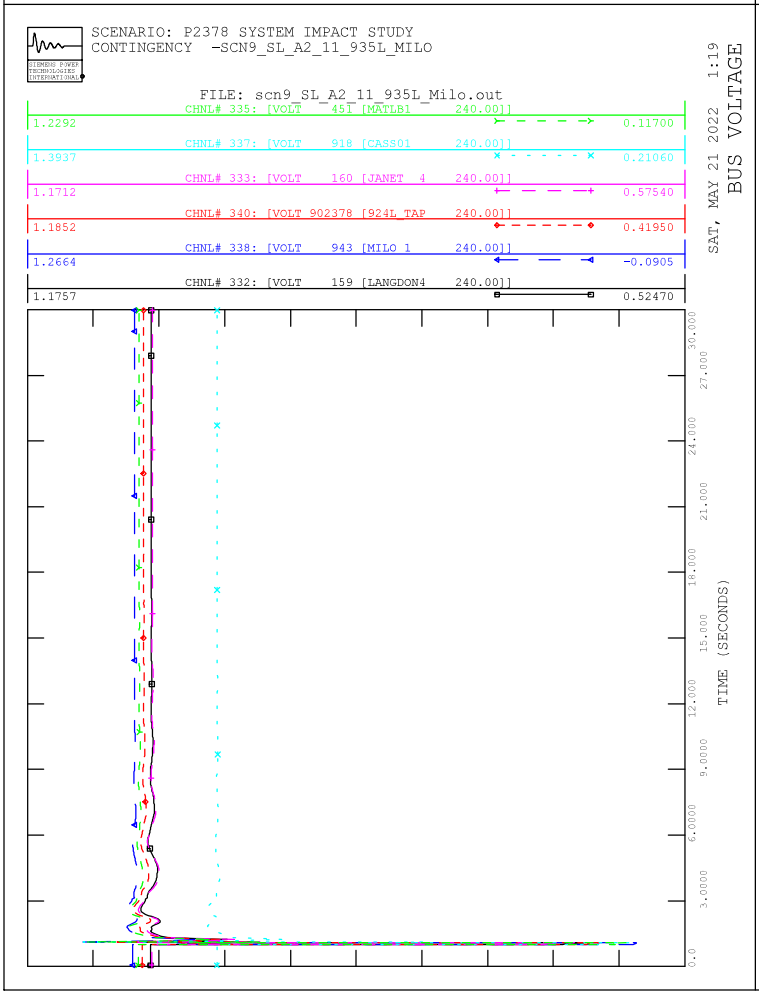
TERMINAL VOLTAGE

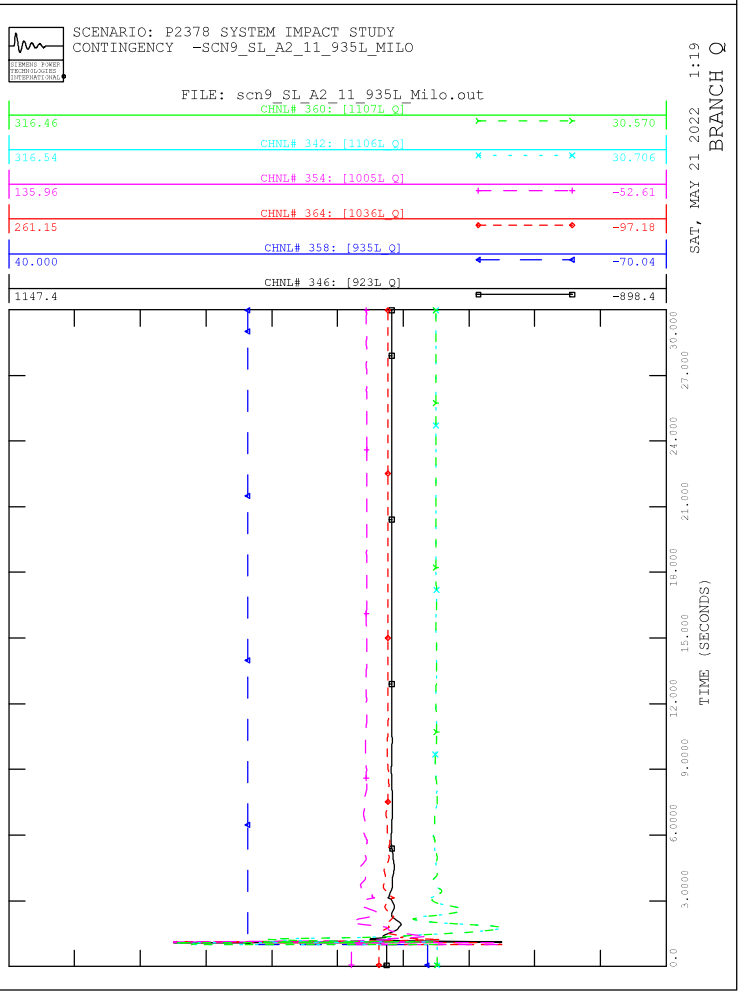
CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1607 0.37440
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1644 0.71620
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1507 0.77030




SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO
FILE: scn9_SL_A2_11_935L_Milo.out
CHNL# 359: [1107L P]
29.152
-685.8
CHNL# 341: [1106L P]
29.232
-685.9
CHNL# 353: [1005L P]
111.99
-341.8
CHNL# 363: [1036L P]
175.97
-541.2
CHNL# 357: [935L P]
102.43
-40.00
CHNL# 345: [923L P]
647.27
-652.8
SAT, MAY 21 2022 1:19
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO
FILE: scn9_SL_A2_11_935L_Milo.out
CHNL# 379: [927L_A2_1 P]
446.99
-1073.
CHNL# 361: [924L_A2_1 P]
447.94
-1065.
CHNL# 347: [1003L P]
-278.5
-675.3
CHNL# 371: [985L P]
-281.8
-683.0
SAT, MAY 21 2022 1:19
BRANCH P
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO
FILE: scn9_SL_A2_11_935L_Milo.out
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.2292
0.11700
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.3937
0.21060
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1712
0.57540
CHNL# 340: [VOLT 902378 [924L_TAP 240.00]]
1.1852
0.41950
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2664
-0.0905
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1757
0.52470
SAT, MAY 21 2022 1:19
BUS VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO
FILE: scn9_SL_A2_11_935L_Milo.out
CHNL# 360: [1107L Q]
316.46
30.570
CHNL# 342: [1106L Q]
316.54
30.706
CHNL# 354: [1005L Q]
135.96
-52.61
CHNL# 364: [1036L Q]
261.15
-97.18
CHNL# 358: [935L Q]
40.000
-70.04
CHNL# 346: [923L Q]
1147.4
-898.4
SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

FILE: scn9_SL_A2_12_935L_Cassils.out

CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
131.56 0.61590
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
107.21 -17.83
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000 -50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
108.45 -14.16
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
108.45 -14.16
CHNL# 1: [ANGL 773[SECST 20.000]1]
109.36 -12.59

SAT, MAY 21 2022 1:19
ROTOR ANGLE
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

FILE: scn9_SL_A2_12_935L_Cassils.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.6463 0.46570
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.67590 0.01300
CHNL# 118: [POWR 3247[CAVAL_A 13.800]1]
0.62100 -0.2240

SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_11_935L_MILO

FILE: scn9_SL_A2_11_935L_Milo.out

CHNL# 380: [927L A2 1 Q]
780.98 -156.3
CHNL# 362: [924L A2 1 Q]
768.43 -170.1
CHNL# 348: [1003L Q]
357.80 -167.5
CHNL# 372: [985L Q]
362.40 -169.2

SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

FILE: scn9_SL_A2_12_935L_Cassils.out

CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
2.1438 0.75210
CHNL# 108: [POWR 774[SECCT1 21.000]2]
2.1438 0.75210
CHNL# 107: [POWR 773[SECST 20.000]1]
2.6865 1.0922
CHNL# 132: [POWR972378[0.7000]G1]
1.1139 0.14610
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0661 0.16530

SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

FILE: scn9_SL_A2_12_935L_Cassils.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
2.8115 -1.566
CHNL# 161: [VARS 774[SECCT1 21.000]2]
2.8115 -1.566
CHNL# 160: [VARS 773[SECST 20.000]1]
3.4801 -1.888
CHNL# 185: [VARS972378[0.7000]G1]
0.60590 -0.5354
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
0.79880 -0.3840

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

FILE: scn9_SL_A2_12_935L_Cassils.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
3.0272 -1.008

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

FILE: scn9_SL_A2_12_935L_Cassils.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
3.7508 -0.0574

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

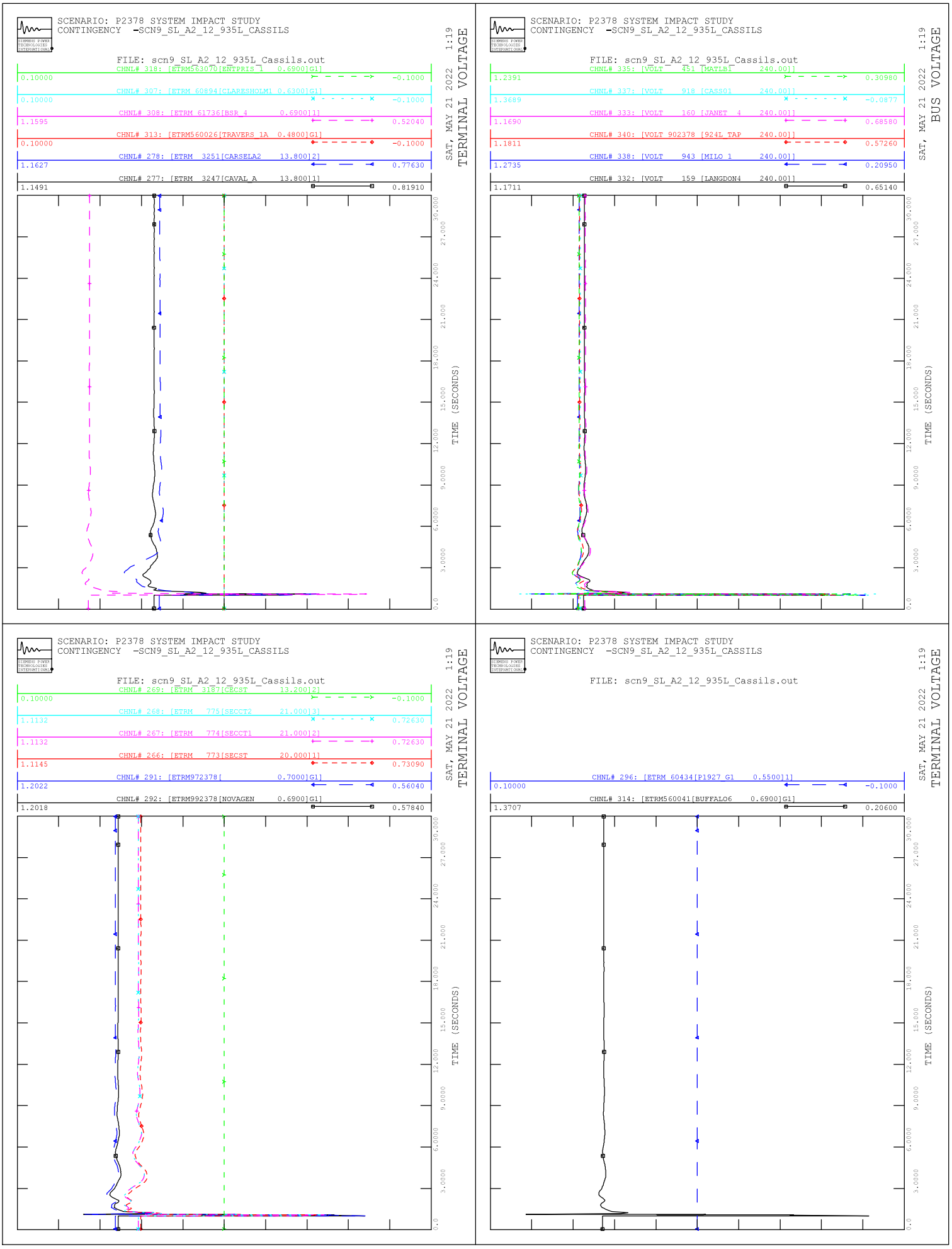
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

FILE: scn9_SL_A2_12_935L_Cassils.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3138 -0.2410
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
0.89800 -0.5940
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
0.90180 -0.4803

SAT, MAY 21 2022 1:19
REACTIVE POWER

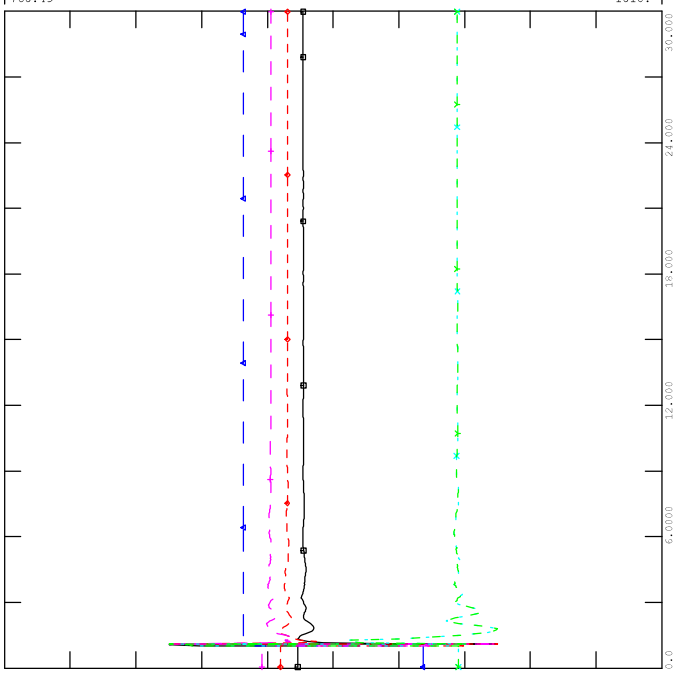
TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS
FILE: scn9_SL_A2_12_935L_Cassils.out
CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000
-0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000
-0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1595
0.52040
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000
-0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1627
0.77630
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1491
0.81910
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS
FILE: scn9_SL_A2_12_935L_Cassils.out
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.2391
0.30980
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.3689
-0.0877
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1690
0.68580
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1811
0.57260
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2735
0.20950
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1711
0.65140
SAT, MAY 21 2022 1:19
BUS VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS
FILE: scn9_SL_A2_12_935L_Cassils.out
CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000
-0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1132
0.72630
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1132
0.72630
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1145
0.73090
CHNL# 291: [ETRM972378[0.7000]G1]
1.2022
0.56040
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2018
0.57840
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS
FILE: scn9_SL_A2_12_935L_Cassils.out
CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000
-0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.3707
0.20600
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

FILE: scn9_SL_A2_12_935L_Cassils.out

CHNL# 360: [1107L Q]
312.77 48.359
CHNL# 342: [1106L Q]
312.87 48.489
CHNL# 354: [1005L Q]
159.75 -152.1
CHNL# 364: [1036L Q]
252.19 -206.9
CHNL# 358: [935L Q]
40.000 -70.04
CHNL# 346: [923L Q]
760.49 -1010.

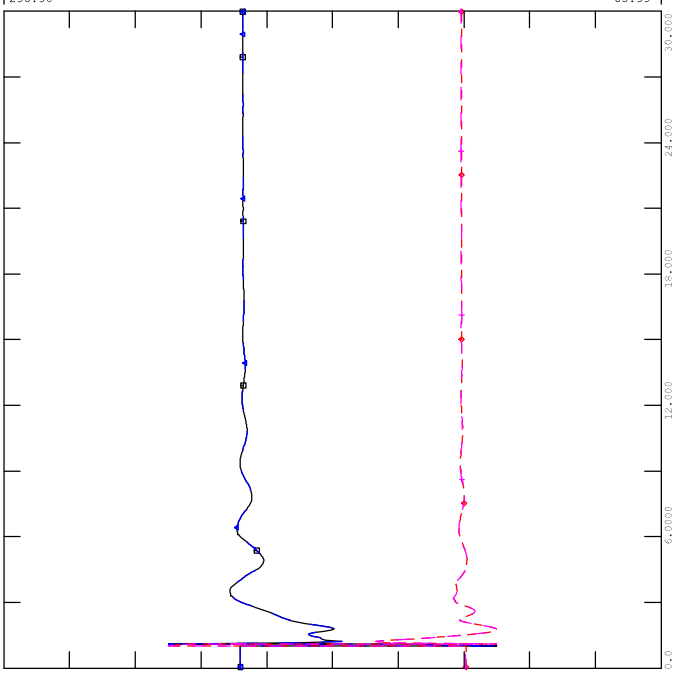


SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

FILE: scn9_SL_A2_12_935L_Cassils.out

CHNL# 380: [927L A2 1 Q]
664.52 -103.9
CHNL# 362: [924L A2 1 Q]
650.94 -116.9
CHNL# 348: [1003L Q]
295.06 -85.23
CHNL# 372: [985L Q]
298.90 -85.99

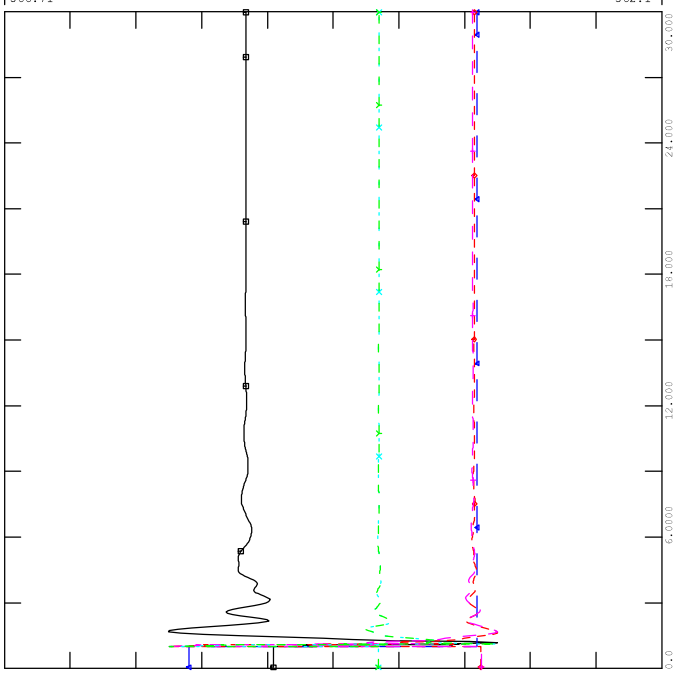


SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

FILE: scn9_SL_A2_12_935L_Cassils.out

CHNL# 359: [1107L P]
-26.44 -691.4
CHNL# 341: [1106L P]
-26.36 -691.5
CHNL# 353: [1005L P]
29.205 -299.0
CHNL# 363: [1036L P]
6.6758 -431.5
CHNL# 357: [935L P]
102.43 -40.00
CHNL# 345: [923L P]
566.71 -562.1

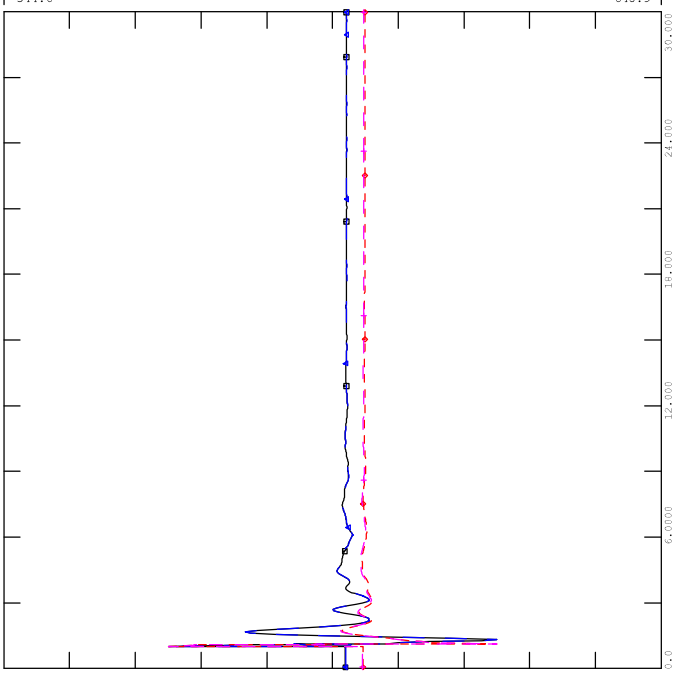


SAT, MAY 21 2022 1:19 BRANCH P

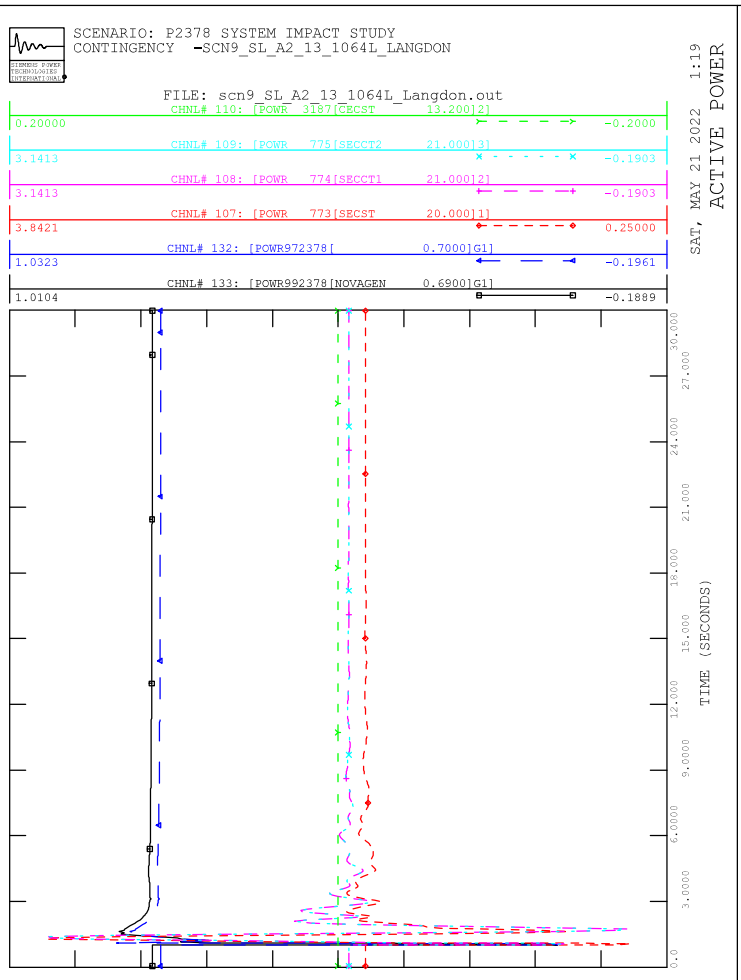
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_12_935L_CASSILS

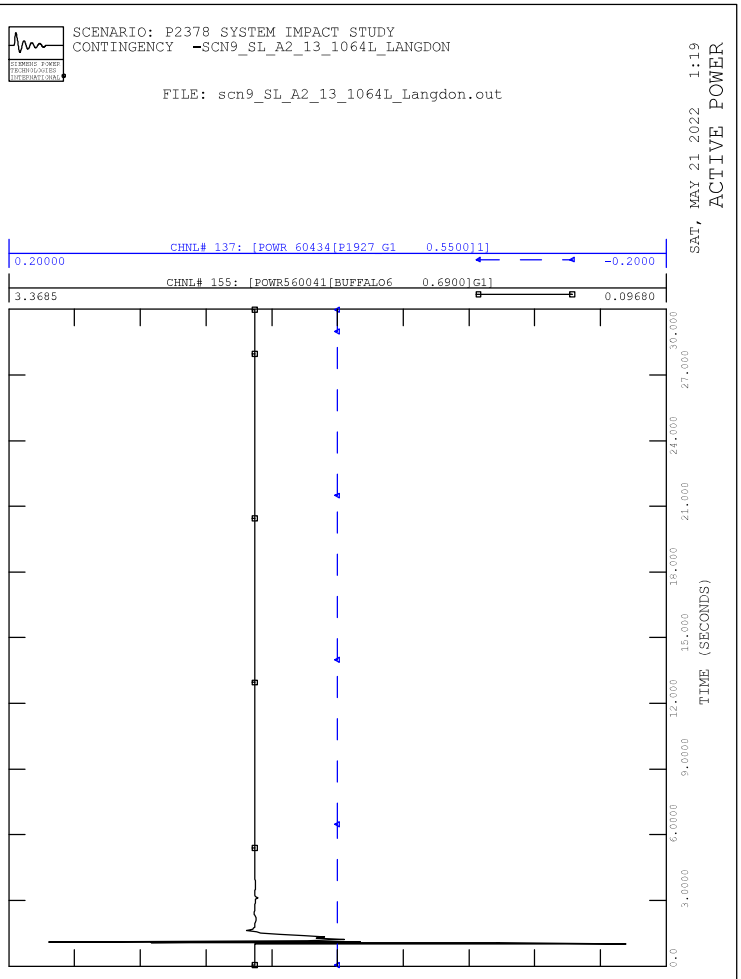
FILE: scn9_SL_A2_12_935L_Cassils.out

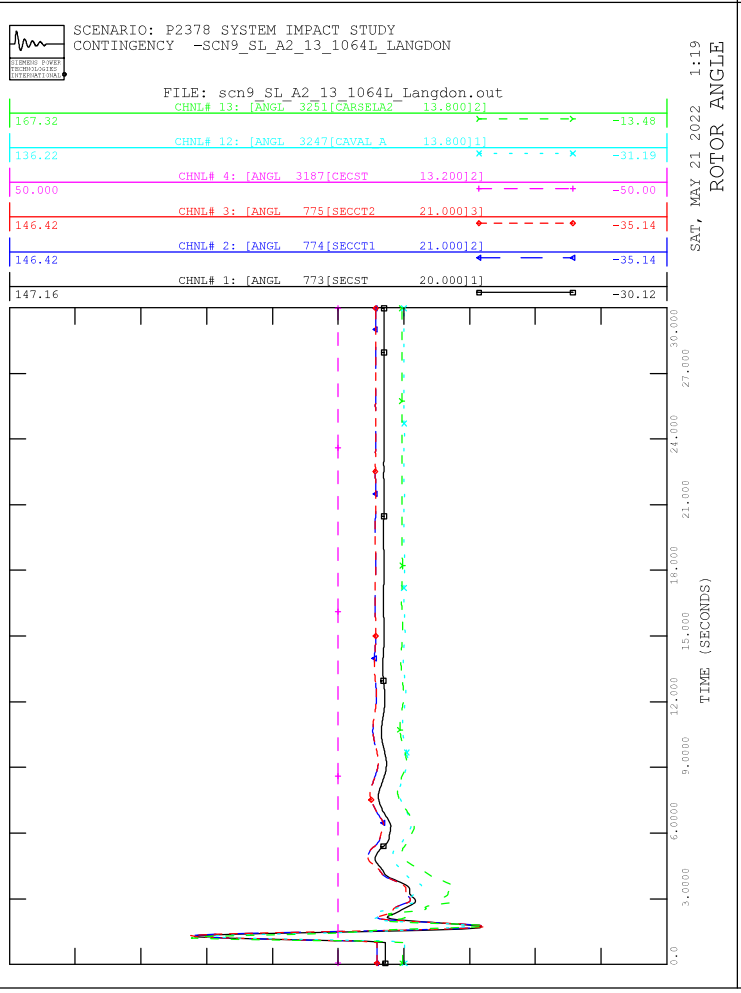
CHNL# 379: [927L A2 1 P]
305.80 -1067.
CHNL# 361: [924L A2 1 P]
306.63 -1059.
CHNL# 347: [1003L P]
-340.6 -638.6
CHNL# 371: [985L P]
-344.6 -645.9

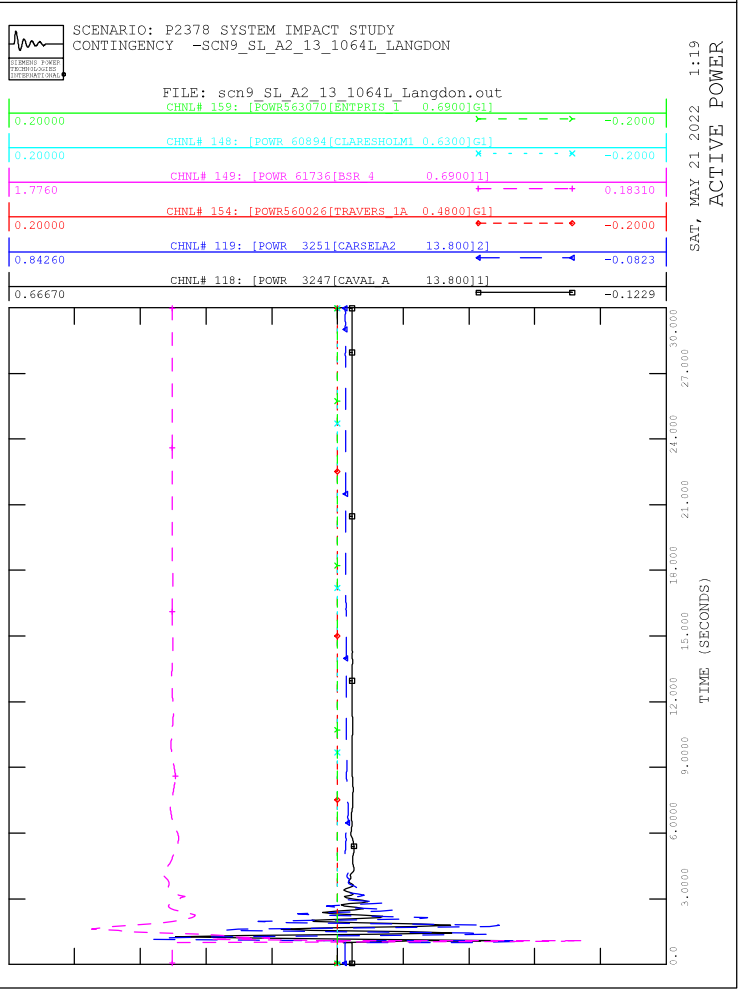


SAT, MAY 21 2022 1:19 BRANCH P


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON
FILE: scn9_SL_A2_13_1064L_Langdon.out
CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000
-0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
3.1413
-0.1903
CHNL# 108: [POWR 774[SECCT1 21.000]2]
3.1413
-0.1903
CHNL# 107: [POWR 773[SECST 20.000]1]
3.8421
0.25000
CHNL# 132: [POWR972378[0.7000]G1]
1.0323
-0.1961
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0104
-0.1889
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON
FILE: scn9_SL_A2_13_1064L_Langdon.out
CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000
-0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
3.3685
0.09680
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON
FILE: scn9_SL_A2_13_1064L_Langdon.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
167.32
-13.48
CHNL# 12: [ANGL 3247[CAVAL A 13.800]1]
136.22
-31.19
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
146.42
-35.14
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
146.42
-35.14
CHNL# 1: [ANGL 773[SECST 20.000]1]
147.16
-30.12
SAT, MAY 21 2022 1:19
ROTOR ANGLE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON
FILE: scn9_SL_A2_13_1064L_Langdon.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000
-0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.7760
0.18310
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.84260
-0.0823
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.66670
-0.1229
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON

FILE: scn9_SL_A2_13_1064L_Langdon.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3985 -0.3030
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2797 -0.6122
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3801 -0.5016

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON

FILE: scn9_SL_A2_13_1064L_Langdon.out

CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1723 0.35680
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1723 0.35680
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1730 0.37350
CHNL# 291: [ETRM972378[0.7000]G1]
1.2684 -0.0298
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2615 0.01810

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON

FILE: scn9_SL_A2_13_1064L_Langdon.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.9896 -3.331
CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.9896 -3.331
CHNL# 160: [VARS 773[SECST 20.000]1]
7.4926 -4.028
CHNL# 185: [VARS972378[0.7000]G1]
0.95660 -0.5406
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
1.1621 -0.4798

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

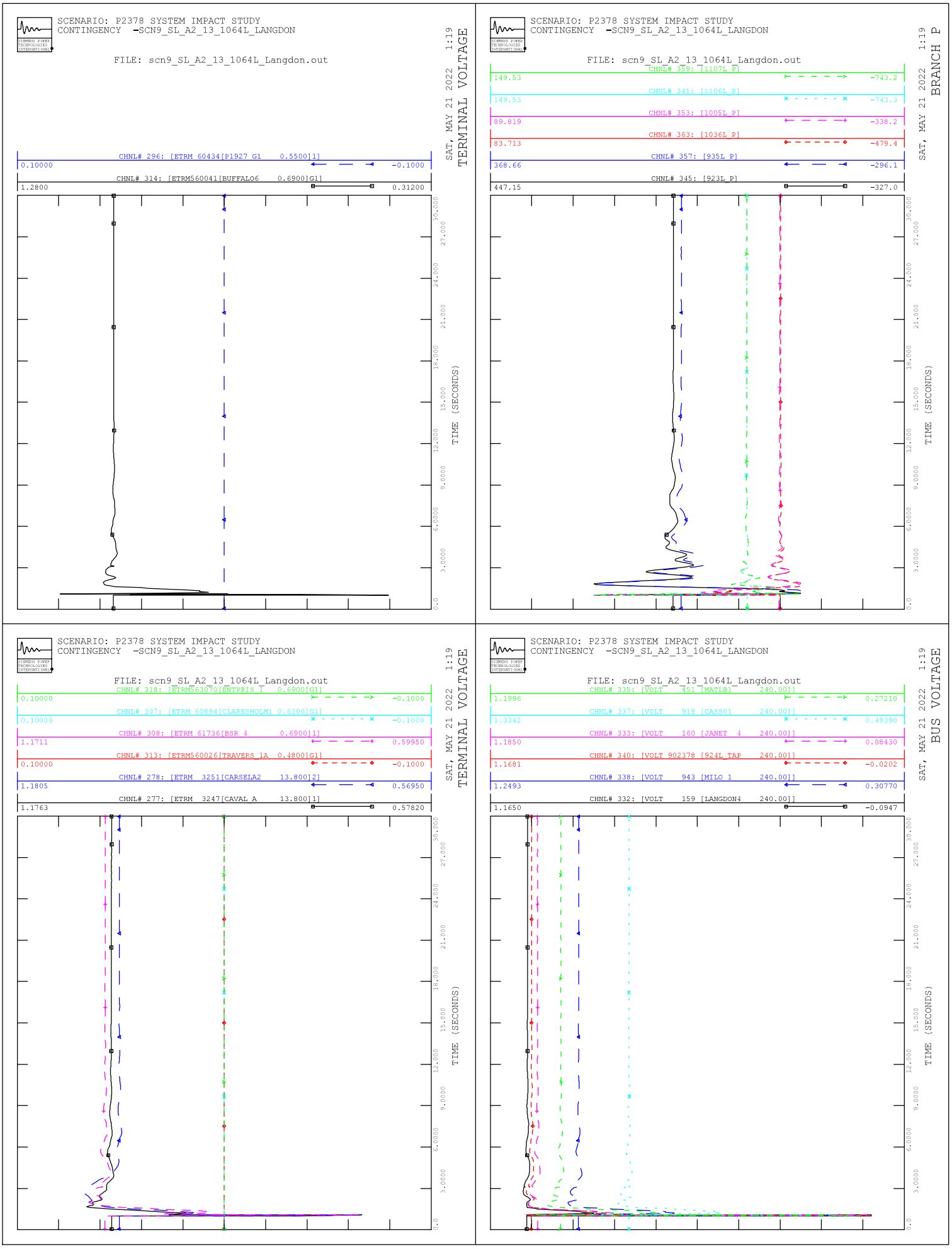
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON

FILE: scn9_SL_A2_13_1064L_Langdon.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
2.6820 -0.8931

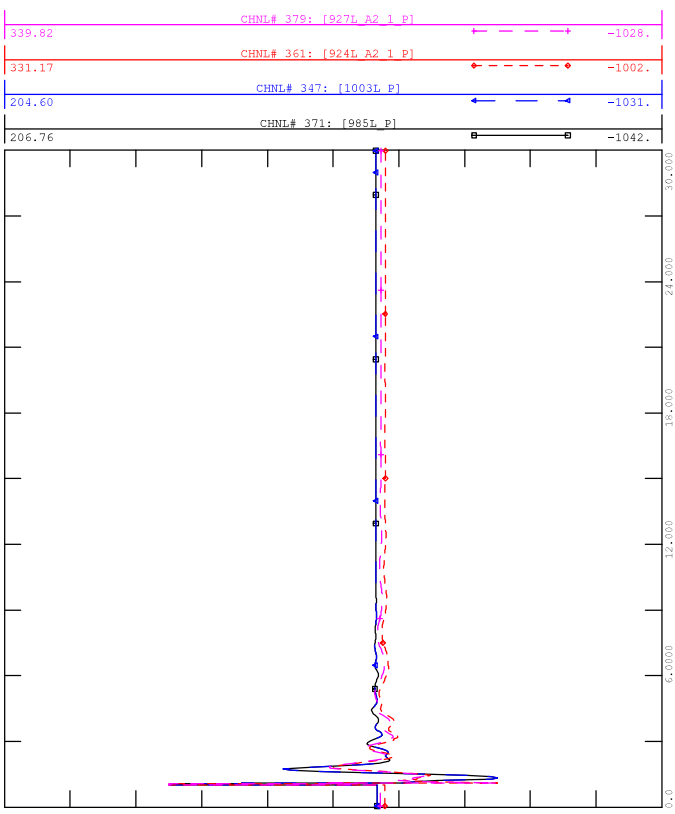
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON
FILE: scn9_SL_A2_13_1064L_Langdon.out
CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000
-0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.2800
0.31200
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON
FILE: scn9_SL_A2_13_1064L_Langdon.out
CHNL# 359: [1107L P]
149.53
-743.2
CHNL# 341: [1106L P]
149.53
-743.3
CHNL# 353: [1005L P]
89.819
-338.2
CHNL# 363: [1036L P]
83.713
-479.4
CHNL# 357: [935L P]
368.66
-296.1
CHNL# 345: [923L P]
447.15
-327.0
SAT, MAY 21 2022 1:19
BRANCH P
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON
FILE: scn9_SL_A2_13_1064L_Langdon.out
CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000
-0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000
-0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1711
0.59950
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000
-0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1805
0.56950
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1763
0.57820
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON
FILE: scn9_SL_A2_13_1064L_Langdon.out
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1996
0.27210
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.3342
0.49390
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1850
0.08430
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1681
-0.0202
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2493
0.30770
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1650
-0.0947
SAT, MAY 21 2022 1:19
BUS VOLTAGE
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON

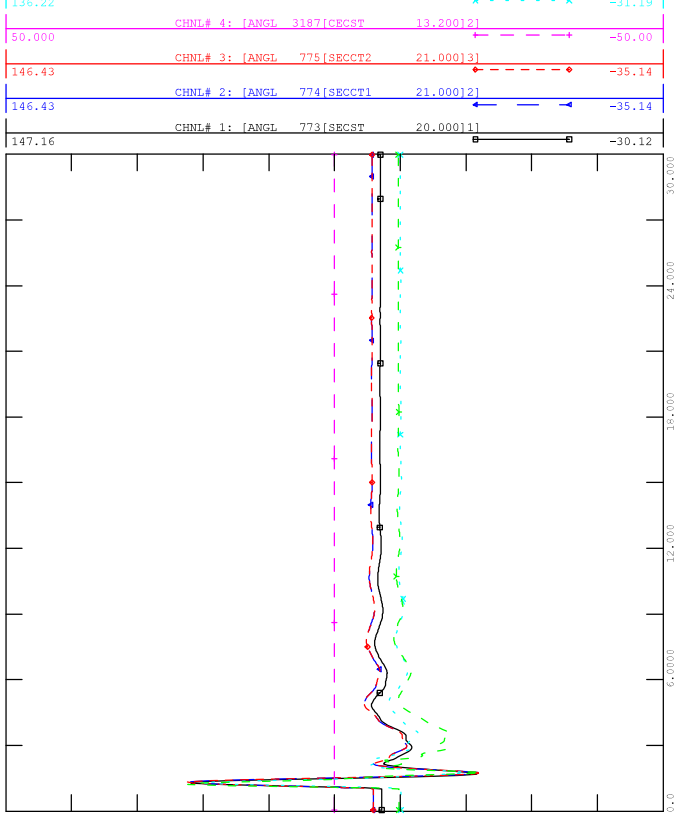
FILE: scn9_SL_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

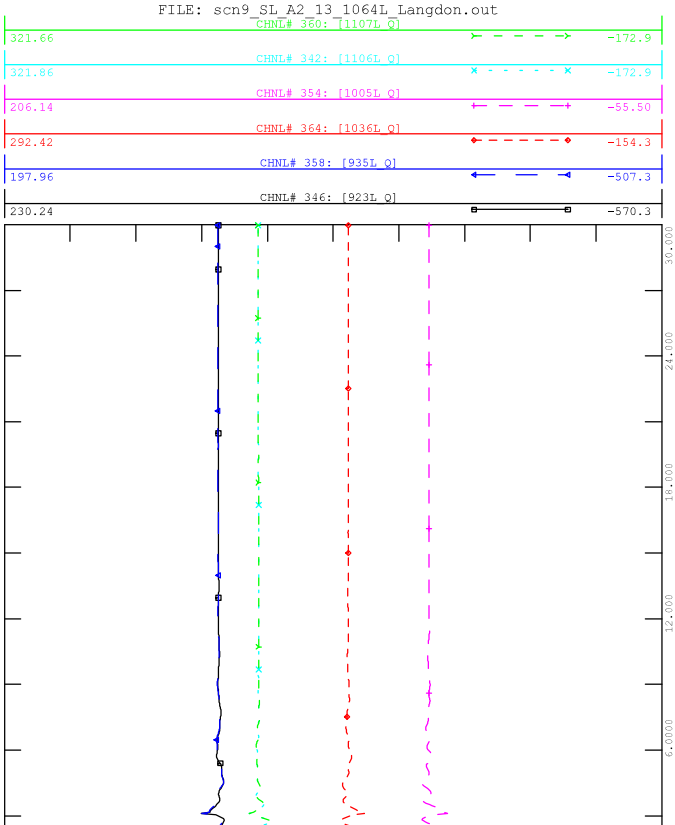
FILE: scn9_SL_A2_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON

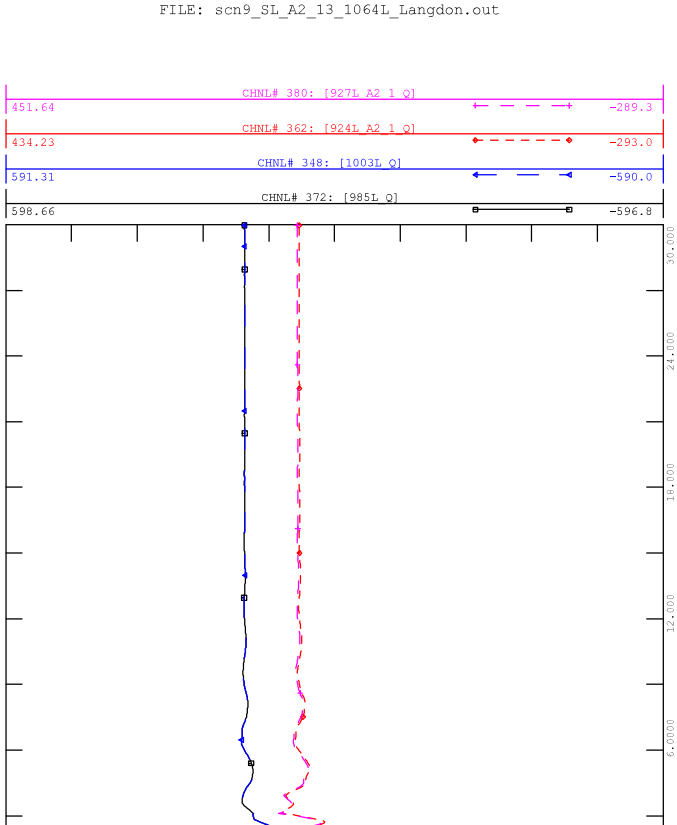
FILE: scn9_SL_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_13_1064L_LANGDON

FILE: scn9_SL_A2_13_1064L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH Q

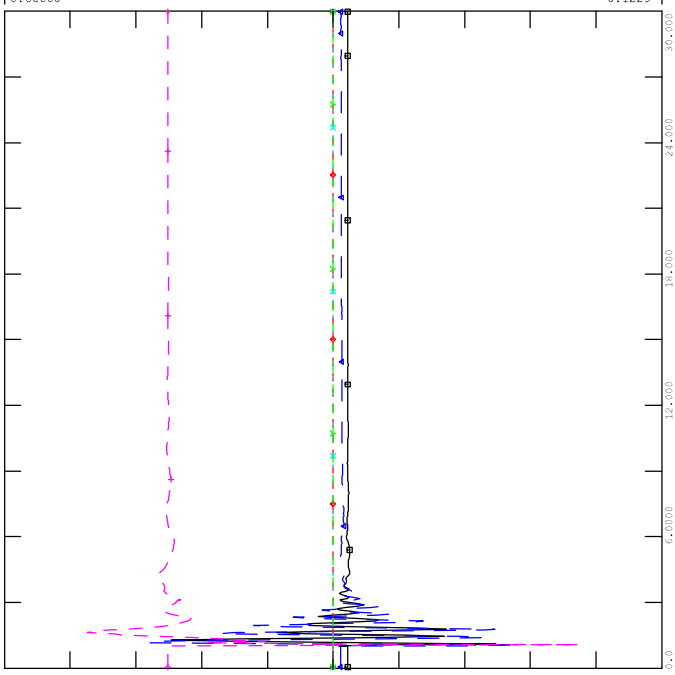
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

FILE: scn9_SL_A2_14_1065L_Langdon.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.7761 0.18310
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.84260 -0.0823
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.66660 -0.1229

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)



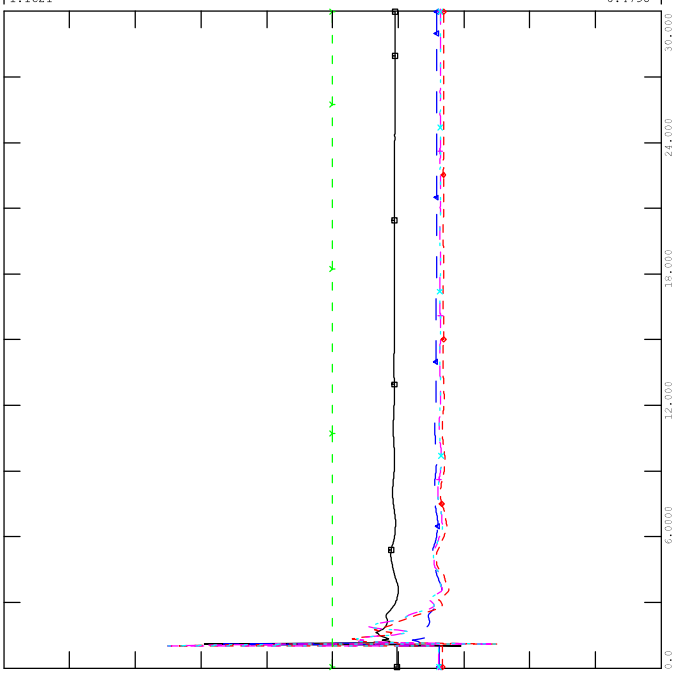
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

FILE: scn9_SL_A2_14_1065L_Langdon.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.9895 -3.331
CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.9895 -3.331
CHNL# 160: [VARS 773[SECST 20.000]1]
7.4925 -4.028
CHNL# 185: [VARS972378[0.7000]G1]
0.95660 -0.5406
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
1.1621 -0.4798

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)



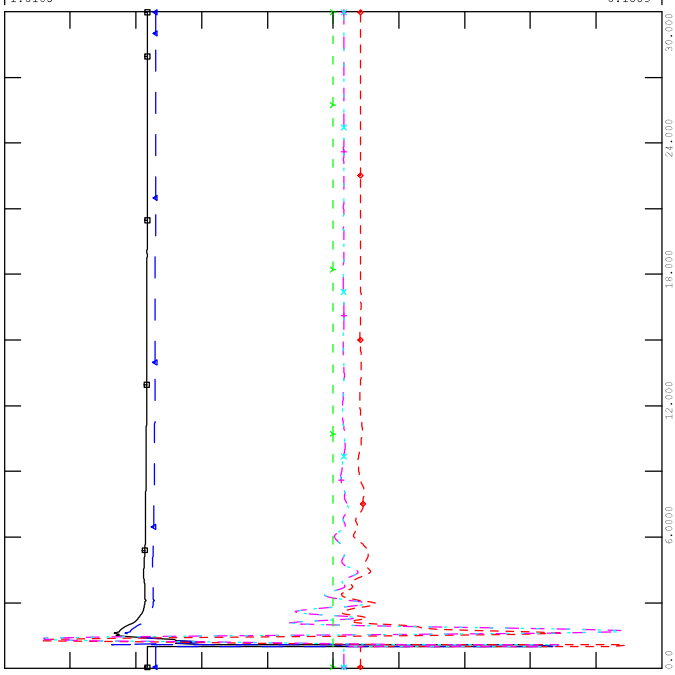
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

FILE: scn9_SL_A2_14_1065L_Langdon.out

CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000 -0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
3.1414 -0.1908
CHNL# 108: [POWR 774[SECCT1 21.000]2]
3.1414 -0.1908
CHNL# 107: [POWR 773[SECST 20.000]1]
3.8414 0.25000
CHNL# 132: [POWR972378[0.7000]G1]
1.0323 -0.1961
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0105 -0.1889

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)



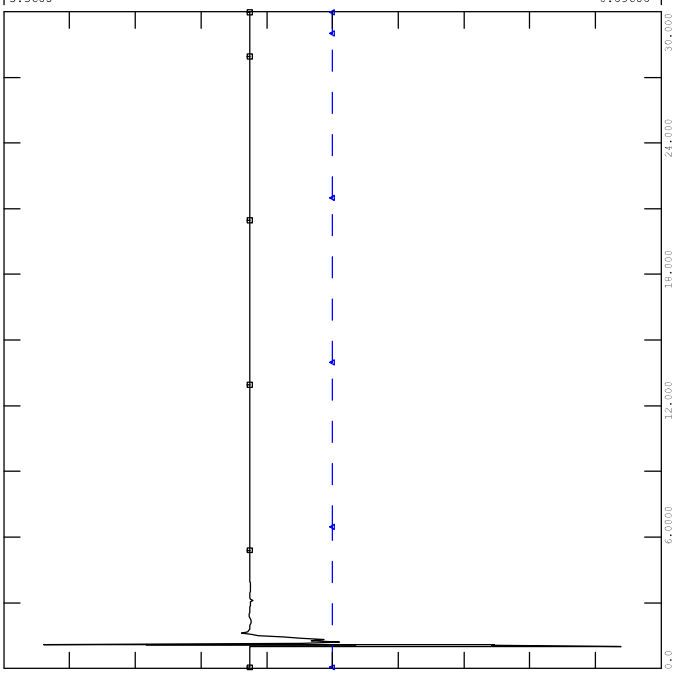
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

FILE: scn9_SL_A2_14_1065L_Langdon.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
3.3685 0.09680

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)



SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

FILE: scn9_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:19
REACTIVE POWER

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
2.6821 -0.8931

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

FILE: scn9_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1711 0.59960
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1805 0.56950
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1763 0.57820

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

FILE: scn9_SL_A2_14_1065L_Langdon.out

SAT, MAY 21 2022 1:19
REACTIVE POWER

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3985 -0.3031
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2797 -0.6122
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3801 -0.5016

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

FILE: scn9_SL_A2_14_1065L_Langdon.out

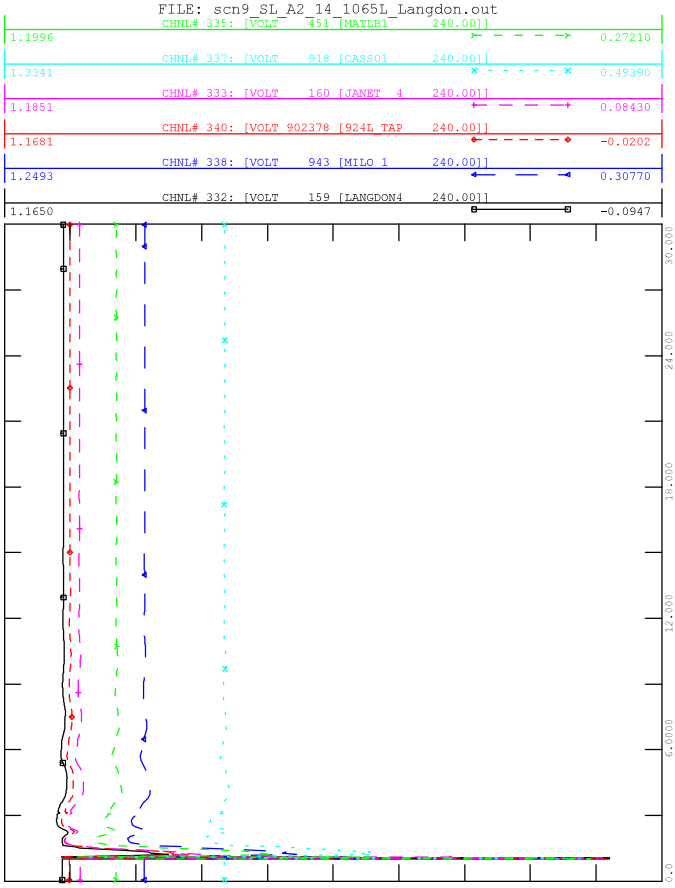
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1723 0.35680
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1723 0.35680
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1730 0.37350
CHNL# 291: [ETRM972378[0.7000]G1]
1.2684 -0.0298
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2615 0.01810

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

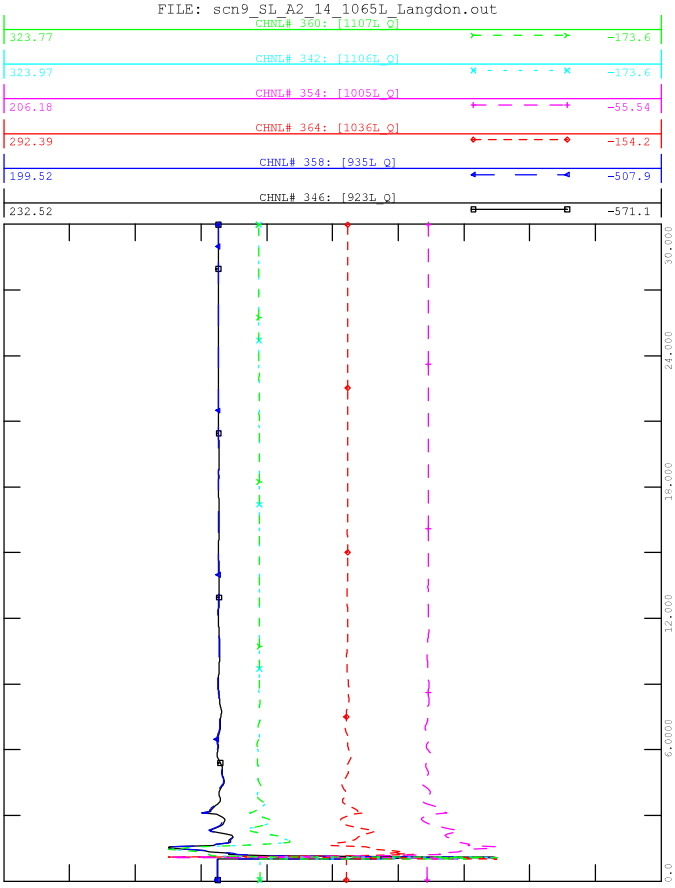
FILE: scn9_SL_A2_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
BUS VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

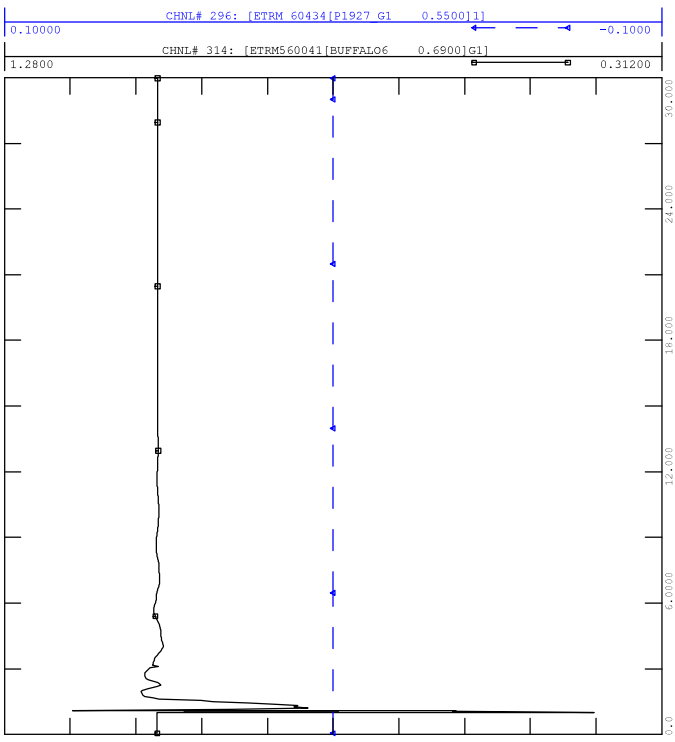
FILE: scn9_SL_A2_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

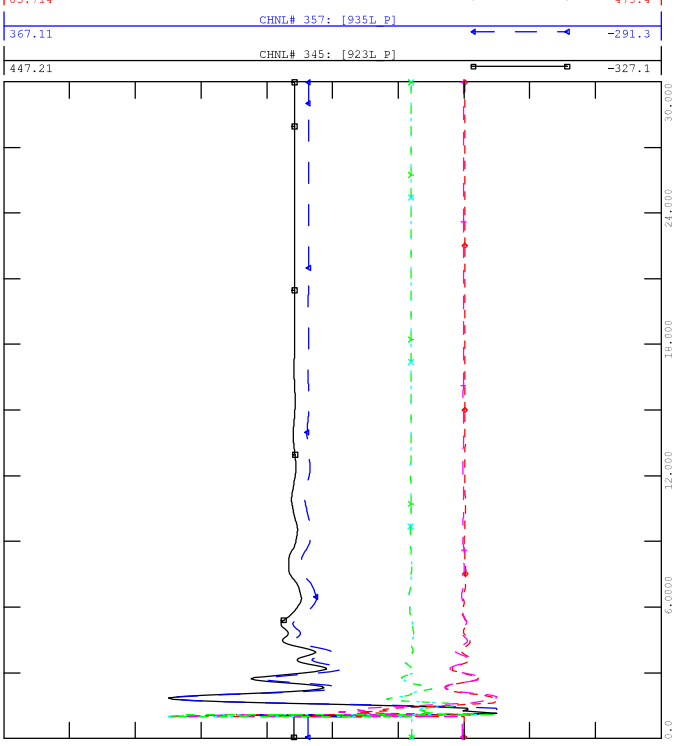
FILE: scn9_SL_A2_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

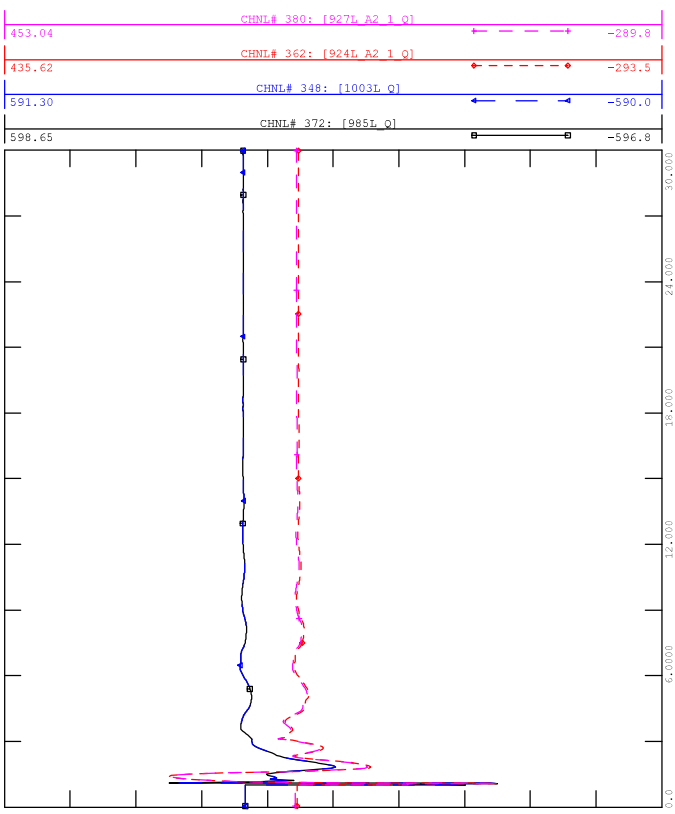
FILE: scn9_SL_A2_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

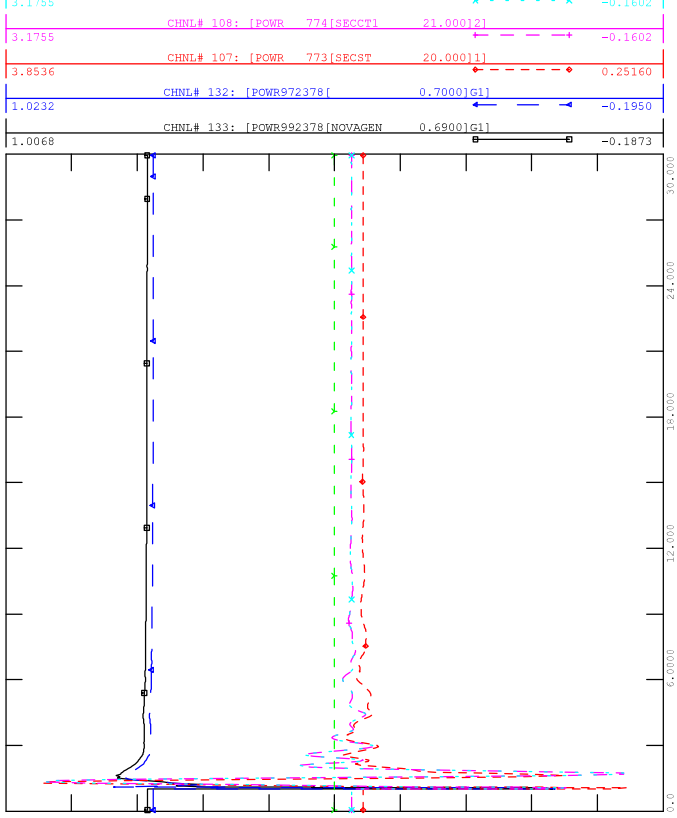
FILE: scn9_SL_A2_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

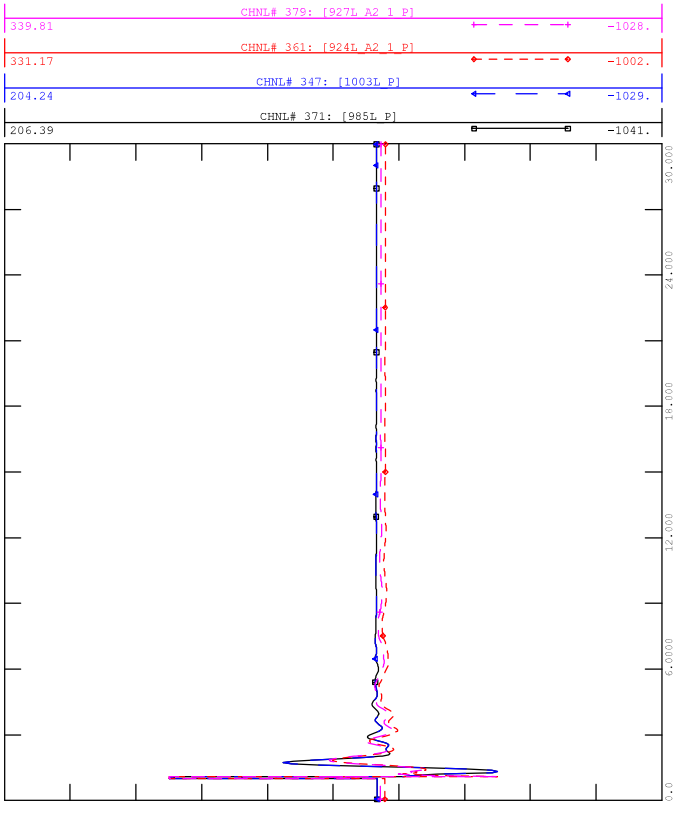
FILE: scn9_SL_A2_15_936L_Langdon.out



SAT, MAY 21 2022 1:19
ACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_14_1065L_LANGDON

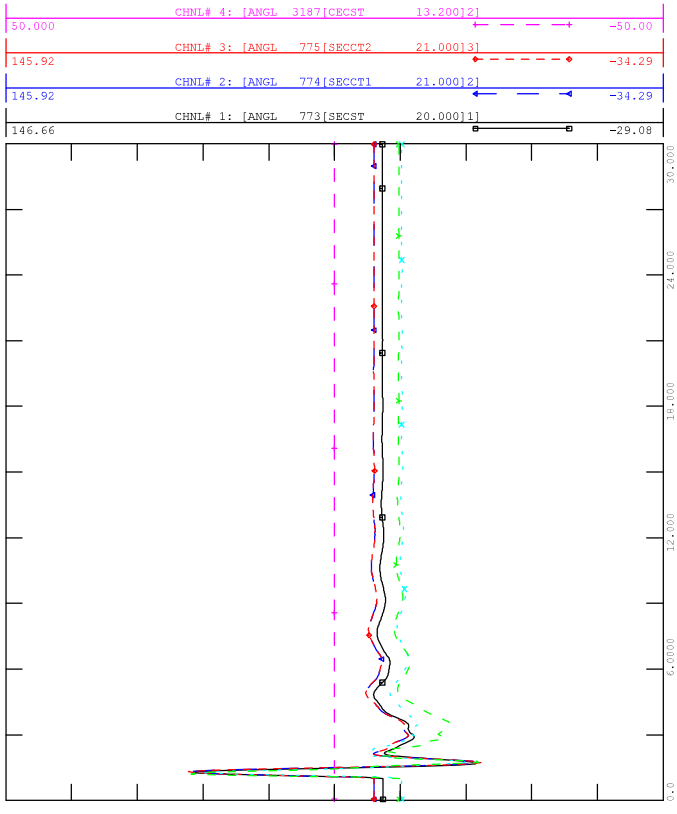
FILE: scn9_SL_A2_14_1065L_Langdon.out



SAT, MAY 21 2022 1:19
BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out



SAT, MAY 21 2022 1:19
ROTOR ANGLE

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
3.4121 0.10850

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3966 -0.3004
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2731 -0.5781
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3743 -0.4850

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000 -0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000 -0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.7709 0.19340
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000 -0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.82730 -0.0855
CHNL# 118: [POWR 3247[CAVAL A 13.800]1]
0.66580 -0.1568

SAT, MAY 21 2022 1:19
ACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.8772 -3.032
CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.8772 -3.032
CHNL# 160: [VARS 773[SECST 20.000]1]
7.3542 -3.672
CHNL# 185: [VARS972378[0.7000]G1]
1.0203 -0.5449
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
1.1943 -0.4784

SAT, MAY 21 2022 1:19
REACTIVE POWER

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000 -0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1672 0.36280
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1672 0.36280
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1676 0.37910
CHNL# 291: [ETRM972378[0.7000]G1]
1.2112 -0.0210
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2206 0.02640

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000 -0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.3197 0.31980

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:19
REACTIVE POWER

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
3.1861 -1.061

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE

CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000 -0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000 -0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1710 0.60310
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000 -0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1777 0.57290
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1725 0.58150

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

CHNL# 359: [1107L P]
132.09 -702.8

CHNL# 341: [1106L P]
132.09 -702.9

CHNL# 353: [1005L P]
92.037 -340.3

CHNL# 363: [1036L P]
82.501 -480.7

CHNL# 357: [935L P]
363.07 -282.4

CHNL# 345: [923L P]
445.50 -325.7

SAT, MAY 21 2022 1:19
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

CHNL# 379: [927L A2 1 P]
315.58 -970.1

CHNL# 361: [924L A2 1 P]
307.09 -945.6

CHNL# 347: [1003L P]
196.11 -1018.

CHNL# 371: [985L P]
198.16 -1030.

SAT, MAY 21 2022 1:19
BRANCH P

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1728 0.28160

CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.2894 0.50070

CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1776 0.09350

CHNL# 340: [VOLT 902378 [924L_TAP 240.00]]
1.1664 -0.0113

CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2108 0.31570

CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1666 -0.0859

SAT, MAY 21 2022 1:19
BUS VOLTAGE

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON

FILE: scn9_SL_A2_15_936L_Langdon.out

CHNL# 360: [1107L Q]
307.89 -138.3

CHNL# 342: [1106L Q]
308.11 -138.4

CHNL# 354: [1005L Q]
170.67 -41.18

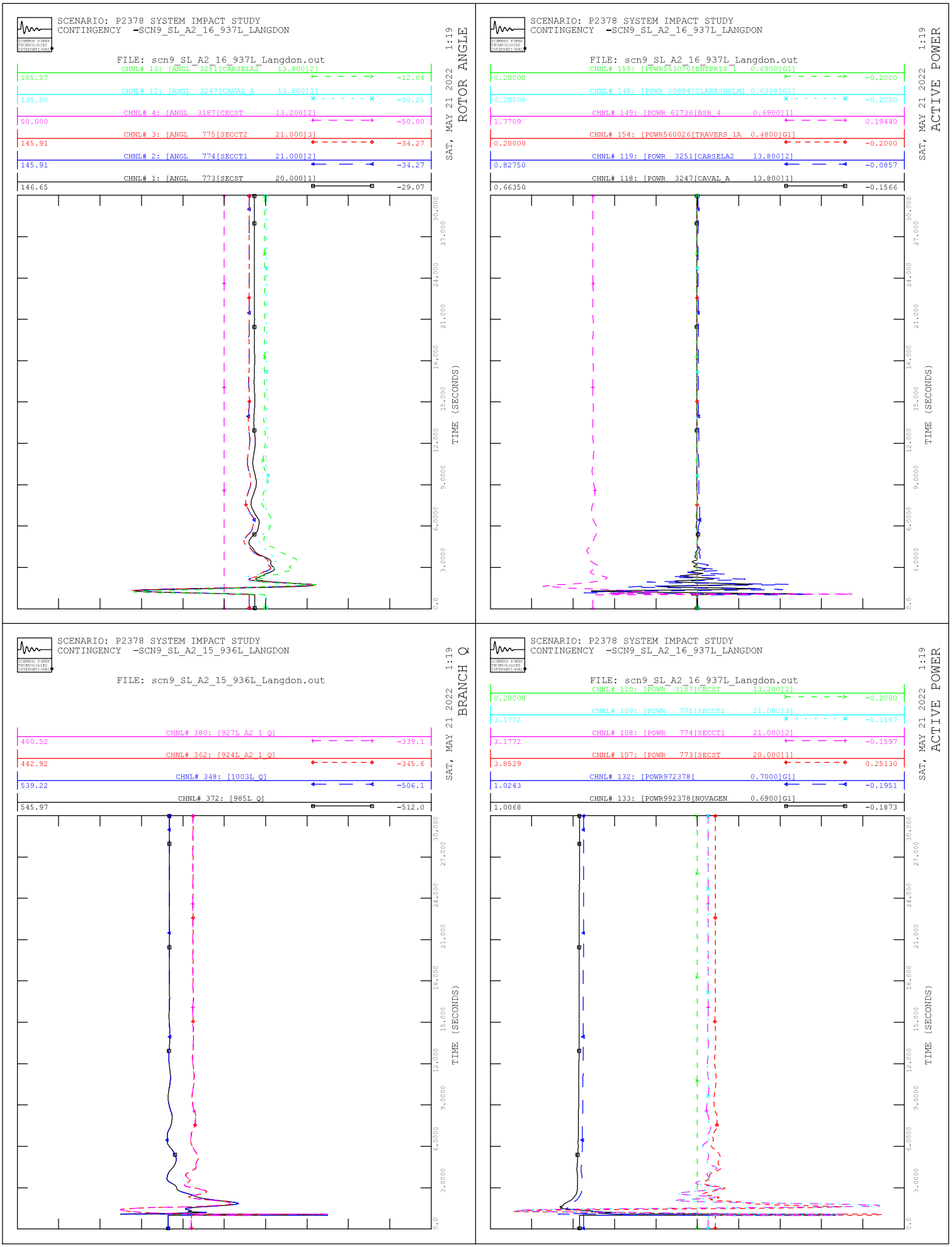
CHNL# 364: [1036L Q]
246.85 -139.7

CHNL# 358: [935L Q]
188.84 -483.3

CHNL# 346: [923L Q]
225.96 -562.2

SAT, MAY 21 2022 1:19
BRANCH Q

TIME (SECONDS)
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON
FILE: scn9_SL_A2_16_937L_Langdon.out
CHNL# 13: [ANGL 3251[CARSELA2 13.800]2]
165.57
-12.04
CHNL# 12: [ANGL 3247[CAVAL_A 13.800]1]
135.50
-30.25
CHNL# 4: [ANGL 3187[CECST 13.200]2]
50.000
-50.00
CHNL# 3: [ANGL 775[SECCT2 21.000]3]
145.91
-34.27
CHNL# 2: [ANGL 774[SECCT1 21.000]2]
145.91
-34.27
CHNL# 1: [ANGL 773[SECST 20.000]1]
146.65
-29.07
SAT, MAY 21 2022 1:19
ROTOR ANGLE
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON
FILE: scn9_SL_A2_16_937L_Langdon.out
CHNL# 159: [POWR563070[ENTPRIS 1 0.6900]G1]
0.20000
-0.2000
CHNL# 148: [POWR 60894[CLARESHOLM1 0.6300]G1]
0.20000
-0.2000
CHNL# 149: [POWR 61736[BSR 4 0.6900]1]
1.7709
0.19440
CHNL# 154: [POWR560026[TRAVERS 1A 0.4800]G1]
0.20000
-0.2000
CHNL# 119: [POWR 3251[CARSELA2 13.800]2]
0.82750
-0.0857
CHNL# 118: [POWR 3247[CAVAL_A 13.800]1]
0.66350
-0.1566
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_15_936L_LANGDON
FILE: scn9_SL_A2_15_936L_Langdon.out
CHNL# 380: [927L_A2_1_Q]
460.52
-339.1
CHNL# 362: [924L_A2_1_Q]
442.92
-345.6
CHNL# 348: [1003L_Q]
539.22
-506.1
CHNL# 372: [985L_Q]
545.97
-512.0
SAT, MAY 21 2022 1:19
BRANCH Q
TIME (SECONDS)
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON
FILE: scn9_SL_A2_16_937L_Langdon.out
CHNL# 110: [POWR 3187[CECST 13.200]2]
0.20000
-0.2000
CHNL# 109: [POWR 775[SECCT2 21.000]3]
3.1772
-0.1597
CHNL# 108: [POWR 774[SECCT1 21.000]2]
3.1772
-0.1597
CHNL# 107: [POWR 773[SECST 20.000]1]
3.8529
0.25130
CHNL# 132: [POWR972378[0.7000]G1]
1.0243
-0.1951
CHNL# 133: [POWR992378[NOVAGEN 0.6900]G1]
1.0068
-0.1873
SAT, MAY 21 2022 1:19
ACTIVE POWER
TIME (SECONDS)

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON

FILE: scn9_SL_A2_16_937L_Langdon.out

CHNL# 163: [VARS 3187[CECST 13.200]2]
0.50000 -0.5000
CHNL# 162: [VARS 775[SECCT2 21.000]3]
5.8813 -3.044
CHNL# 161: [VARS 774[SECCT1 21.000]2]
5.8813 -3.044
CHNL# 160: [VARS 773[SECST 20.000]1]
7.3592 -3.687
CHNL# 185: [VARS972378[0.7000]G1]
1.0204 -0.5450
CHNL# 186: [VARS992378[NOVAGEN 0.6900]G1]
1.1945 -0.4784

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON

FILE: scn9_SL_A2_16_937L_Langdon.out

CHNL# 190: [VARS 60434[P1927 G1 0.5500]1]
0.50000 -0.5000
CHNL# 208: [VARS560041[BUFFALO6 0.6900]G1]
3.1880 -1.062

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON

FILE: scn9_SL_A2_16_937L_Langdon.out

CHNL# 137: [POWR 60434[P1927 G1 0.5500]1]
0.20000 -0.2000
CHNL# 155: [POWR560041[BUFFALO6 0.6900]G1]
3.4141 0.10840

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
ACTIVE POWER

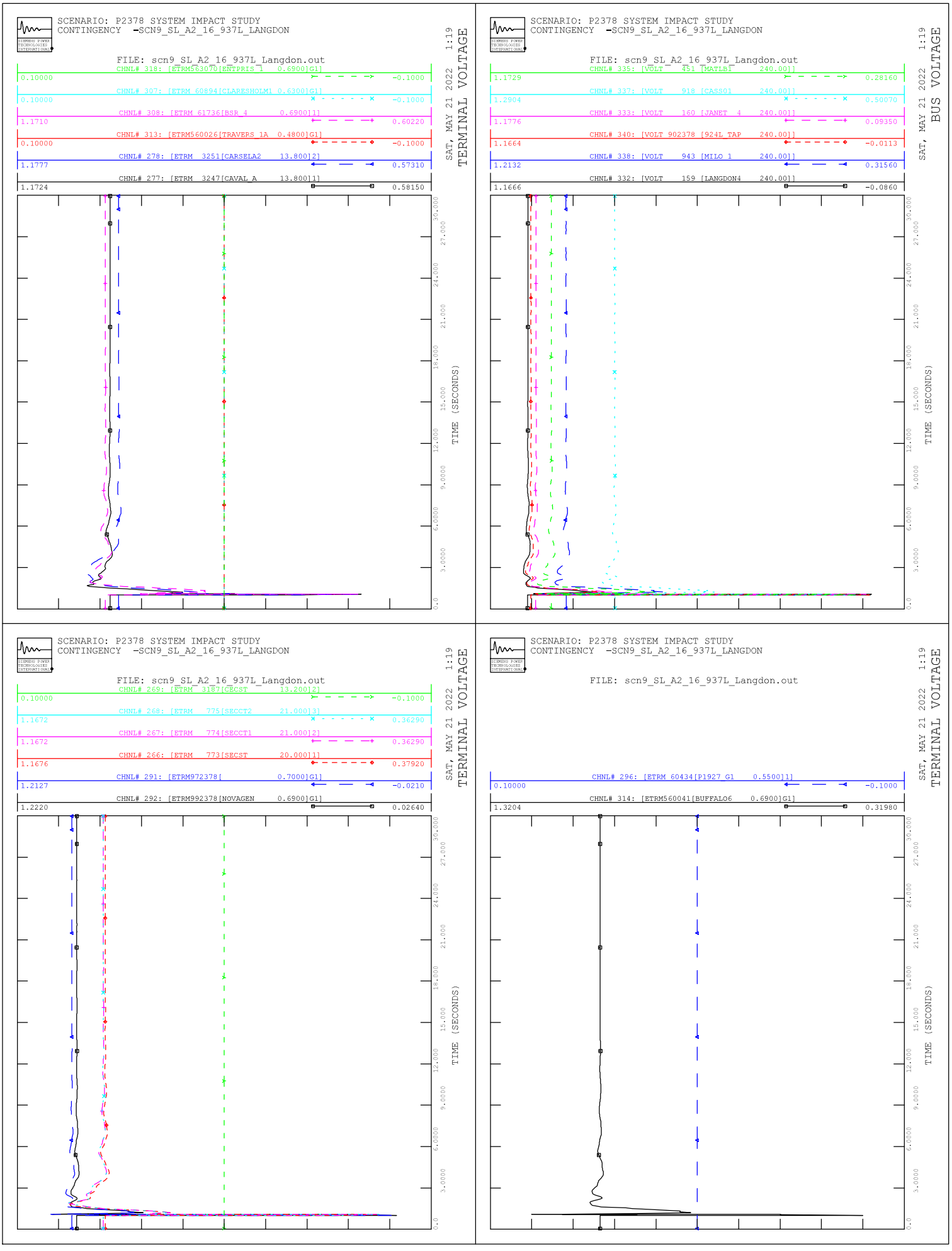
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON

FILE: scn9_SL_A2_16_937L_Langdon.out

CHNL# 212: [VARS563070[ENTPRIS 1 0.6900]G1]
0.50000 -0.5000
CHNL# 201: [VARS 60894[CLARESHOLM1 0.6300]G1]
0.50000 -0.5000
CHNL# 202: [VARS 61736[BSR 4 0.6900]1]
1.3959 -0.3004
CHNL# 207: [VARS560026[TRAVERS 1A 0.4800]G1]
0.50000 -0.5000
CHNL# 172: [VARS 3251[CARSELA2 13.800]2]
1.2732 -0.5796
CHNL# 171: [VARS 3247[CAVAL A 13.800]1]
1.3744 -0.4864

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19
REACTIVE POWER


SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON
FILE: scn9_SL_A2_16_937L_Langdon.out
CHNL# 318: [ETRM563070[ENTPRIS 1 0.6900]G1]
0.10000
-0.1000
CHNL# 307: [ETRM 60894[CLARESHOLM1 0.6300]G1]
0.10000
-0.1000
CHNL# 308: [ETRM 61736[BSR 4 0.6900]1]
1.1710
0.60220
CHNL# 313: [ETRM560026[TRAVERS 1A 0.4800]G1]
0.10000
-0.1000
CHNL# 278: [ETRM 3251[CARSELA2 13.800]2]
1.1777
0.57310
CHNL# 277: [ETRM 3247[CAVAL A 13.800]1]
1.1724
0.58150
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON
FILE: scn9_SL_A2_16_937L_Langdon.out
CHNL# 335: [VOLT 451 [MATLB1 240.00]]
1.1729
0.28160
CHNL# 337: [VOLT 918 [CASS01 240.00]]
1.2904
0.50070
CHNL# 333: [VOLT 160 [JANET 4 240.00]]
1.1776
0.09350
CHNL# 340: [VOLT 902378 [924L TAP 240.00]]
1.1664
-0.0113
CHNL# 338: [VOLT 943 [MILO 1 240.00]]
1.2132
0.31560
CHNL# 332: [VOLT 159 [LANGDON4 240.00]]
1.1666
-0.0860
SAT, MAY 21 2022 1:19
BUS VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON
FILE: scn9_SL_A2_16_937L_Langdon.out
CHNL# 269: [ETRM 3187[CECST 13.200]2]
0.10000
-0.1000
CHNL# 268: [ETRM 775[SECCT2 21.000]3]
1.1672
0.36290
CHNL# 267: [ETRM 774[SECCT1 21.000]2]
1.1672
0.36290
CHNL# 266: [ETRM 773[SECST 20.000]1]
1.1676
0.37920
CHNL# 291: [ETRM972378[0.7000]G1]
1.2127
-0.0210
CHNL# 292: [ETRM992378[NOVAGEN 0.6900]G1]
1.2220
0.02640
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000
SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON
FILE: scn9_SL_A2_16_937L_Langdon.out
CHNL# 296: [ETRM 60434[P1927 G1 0.5500]1]
0.10000
-0.1000
CHNL# 314: [ETRM560041[BUFFALO6 0.6900]G1]
1.3204
0.31980
SAT, MAY 21 2022 1:19
TERMINAL VOLTAGE
TIME (SECONDS)
0.0
3.0000
6.0000
9.0000
12.000
15.000
18.000
21.000
24.000
27.000
30.000

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON

FILE: scn9_SL_A2_16_937L_Langdon.out

CHNL# 360: [1107L Q]
306.83 -137.9
CHNL# 342: [1106L Q]
307.05 -138.0
CHNL# 354: [1005L Q]
171.40 -41.42
CHNL# 364: [1036L Q]
249.57 -140.6
CHNL# 358: [935L Q]
189.47 -485.2
CHNL# 346: [923L Q]
226.68 -564.5

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON

FILE: scn9_SL_A2_16_937L_Langdon.out

CHNL# 380: [927L A2 1 Q]
461.64 -341.0
CHNL# 362: [924L A2 1 Q]
443.86 -347.3
CHNL# 348: [1003L Q]
540.60 -506.5
CHNL# 372: [985L Q]
547.37 -512.4

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19 BRANCH Q

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON

FILE: scn9_SL_A2_16_937L_Langdon.out

CHNL# 359: [1107L P]
132.34 -703.5
CHNL# 341: [1106L P]
132.34 -703.6
CHNL# 353: [1005L P]
92.020 -340.3
CHNL# 363: [1036L P]
82.501 -480.6
CHNL# 357: [935L P]
362.58 -281.0
CHNL# 345: [923L P]
445.41 -325.6

0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19 BRANCH P

SCENARIO: P2378 SYSTEM IMPACT STUDY
CONTINGENCY -SCN9_SL_A2_16_937L_LANGDON

FILE: scn9_SL_A2_16_937L_Langdon.out

CHNL# 379: [927L A2 1 P]
315.98 -971.1
CHNL# 361: [924L A2 1 P]
307.49 -946.6
CHNL# 347: [1003L P]
196.14 -1018.
CHNL# 371: [985L P]
198.20 -1030.

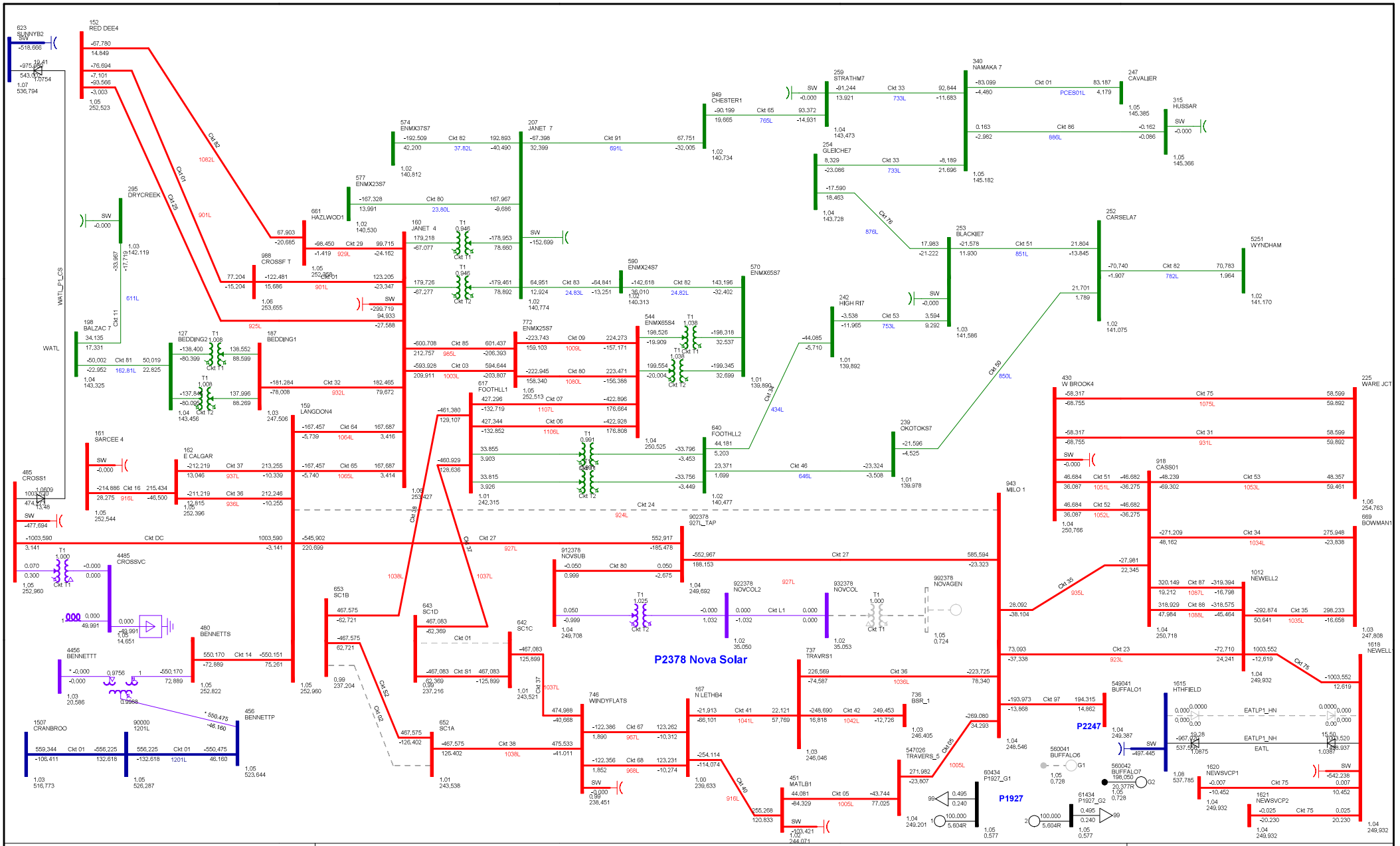
0.0 3.0000 6.0000 9.0000 12.000 15.000 18.000 21.000 24.000 27.000 30.000
TIME (SECONDS)

SAT, MAY 21 2022 1:19 BRANCH P

Attachment A5
Dynamic Data and Assumptions

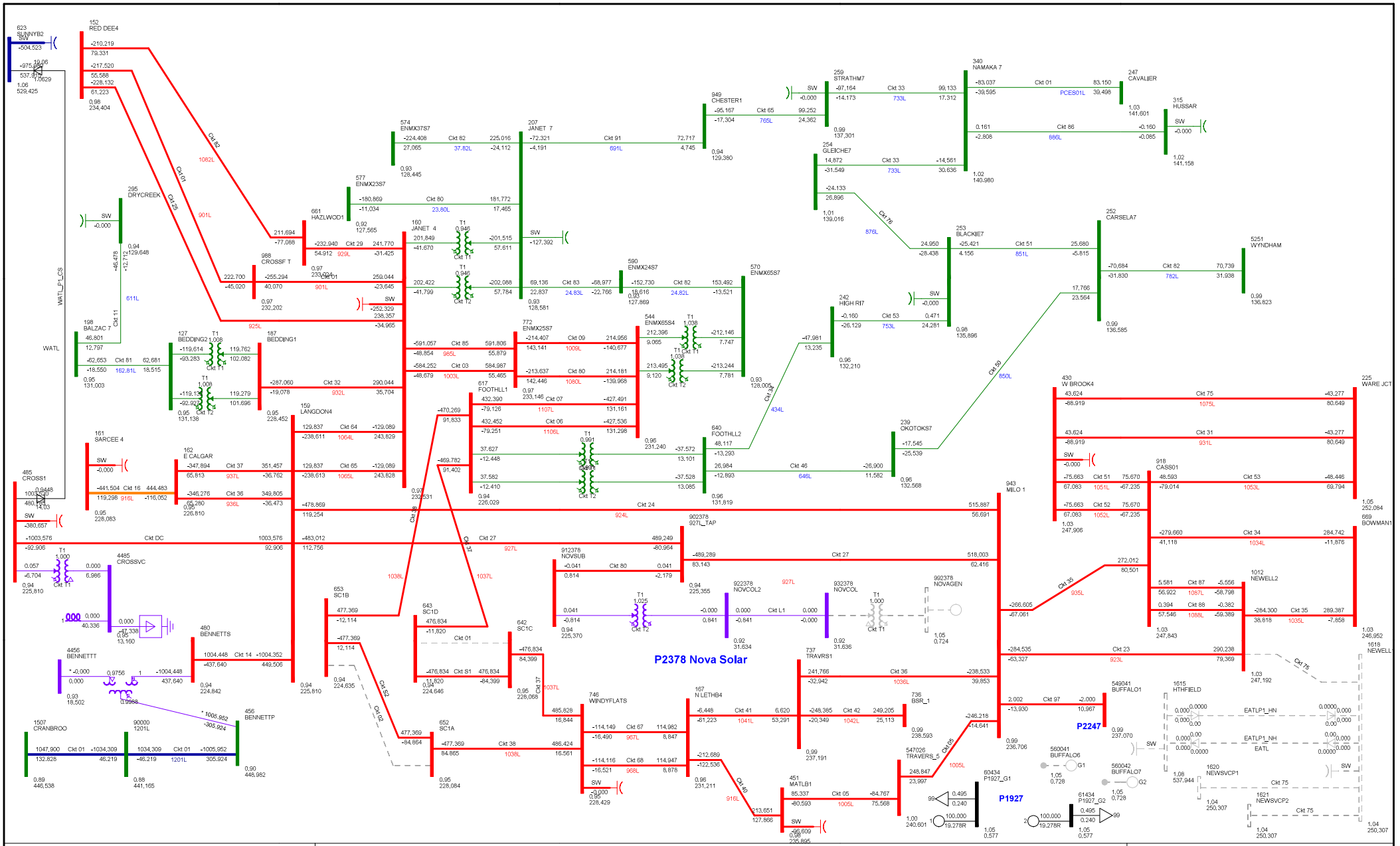
```
/ ***** P2378: 150 MW solar generation
569070 'USRMDL' G1 'REGCAU1' 101 1 1 14 3 4
0
0.02 10.0 0.9 0.5 1.1 1.1 0.90 0.00 -1.0 0.01 0 99 -99 1/

569070 'USRMDL' G1 'REECAU1' 102 0 6 45 6 9
0 0 1 0 0                                       0
0.90 1.1 0.01 -0.10 0.10 1 1.0 -1.0 1.00        0 0 0
0.01 0.60 -0.60 1.10 0.9 0.3 5.0 0.5 0.0        0
0.01 99 -99 1 0 1.0 0.01
0.00 0.01 0.49 0.01 0.5 1 1.2 1
0.00 0.01 0.49 0.01 0.5 1 1.2 1/

569070 'USRMDL' G1 'REPCAU1' 107 0 7 27 7 9
0 0 0 0 0 0 1
0.05 0.5 3 0 0.05 0.9 0 0 0 0.05 -0.05 0 0 0.6 -0.6
0.5 0.25 0.25 -0.0006 0.0006 999 -999 1 0 0.5 20 20/
```

Attachment A6
Post-Mitigation Power Flow Diagrams



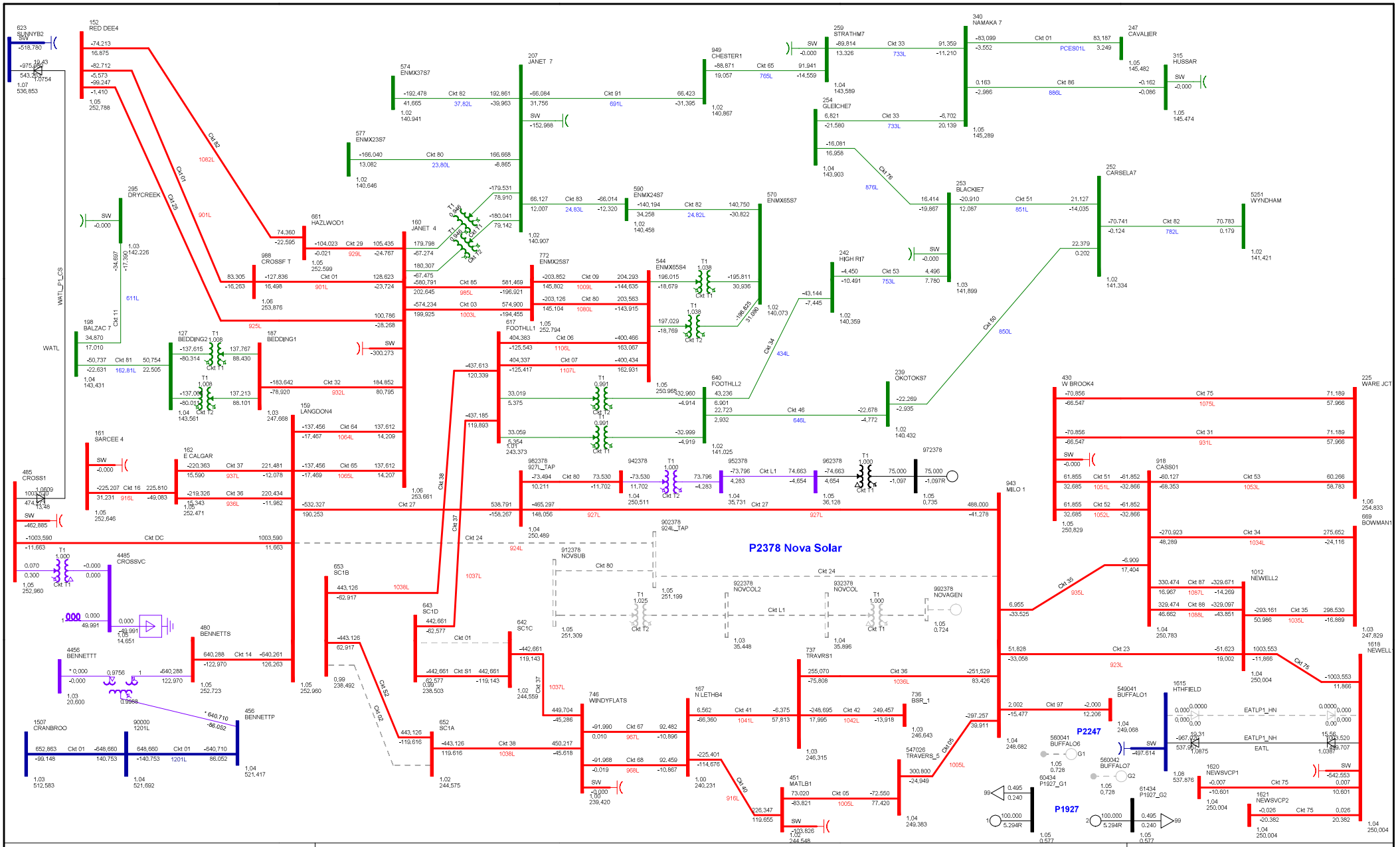
P2378 Nova Solar Project Connection

FIGURE A6.1-1 N-1: 924L (LANGDON 102S TO MILO 356S) WITH RAS
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



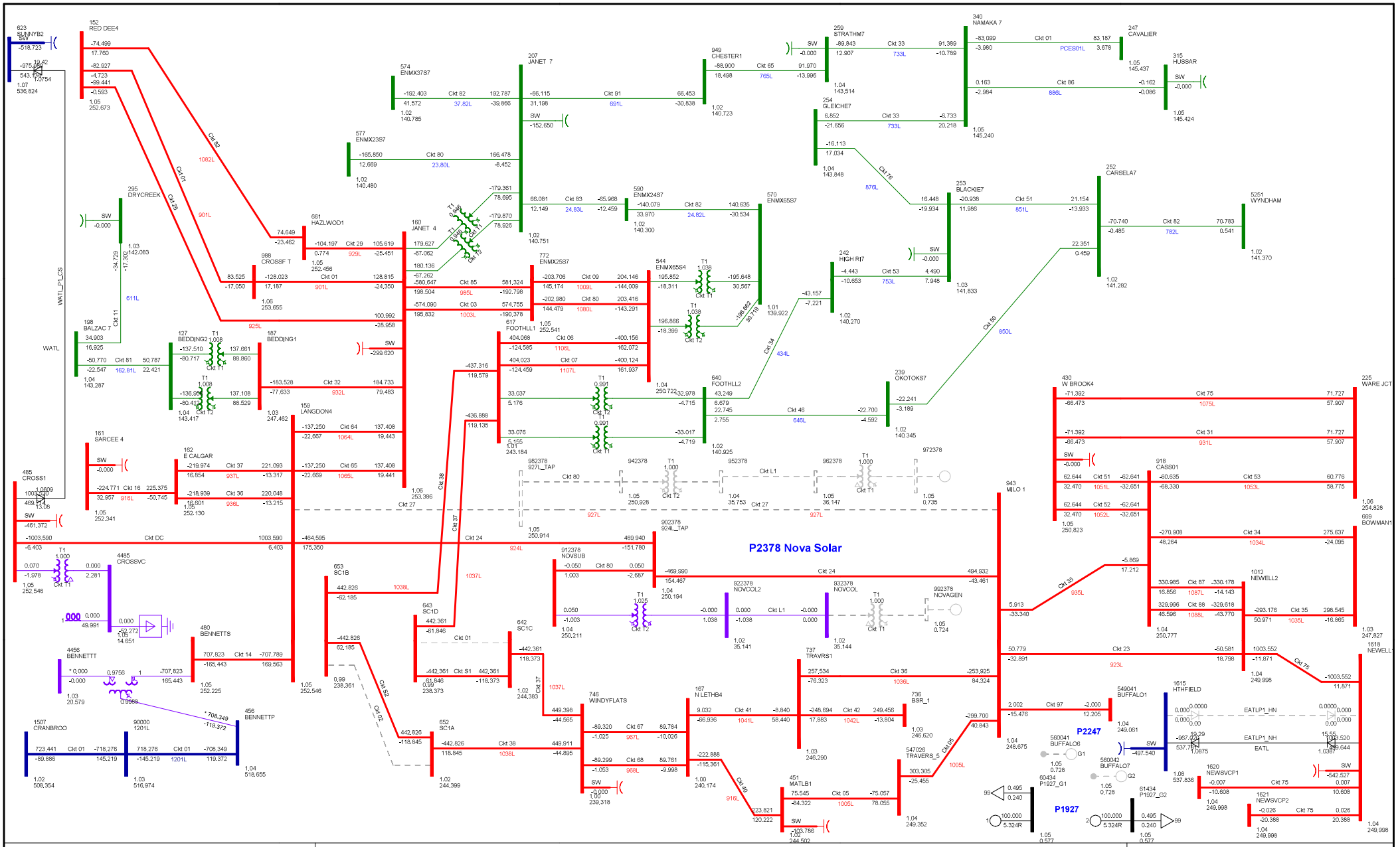
P2378 Nova Solar Project Connection

FIGURE A6.1-2 N-1: EATL(WITH RAS)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A1
PRINTED ON SATURDAY 21. MAY 2022



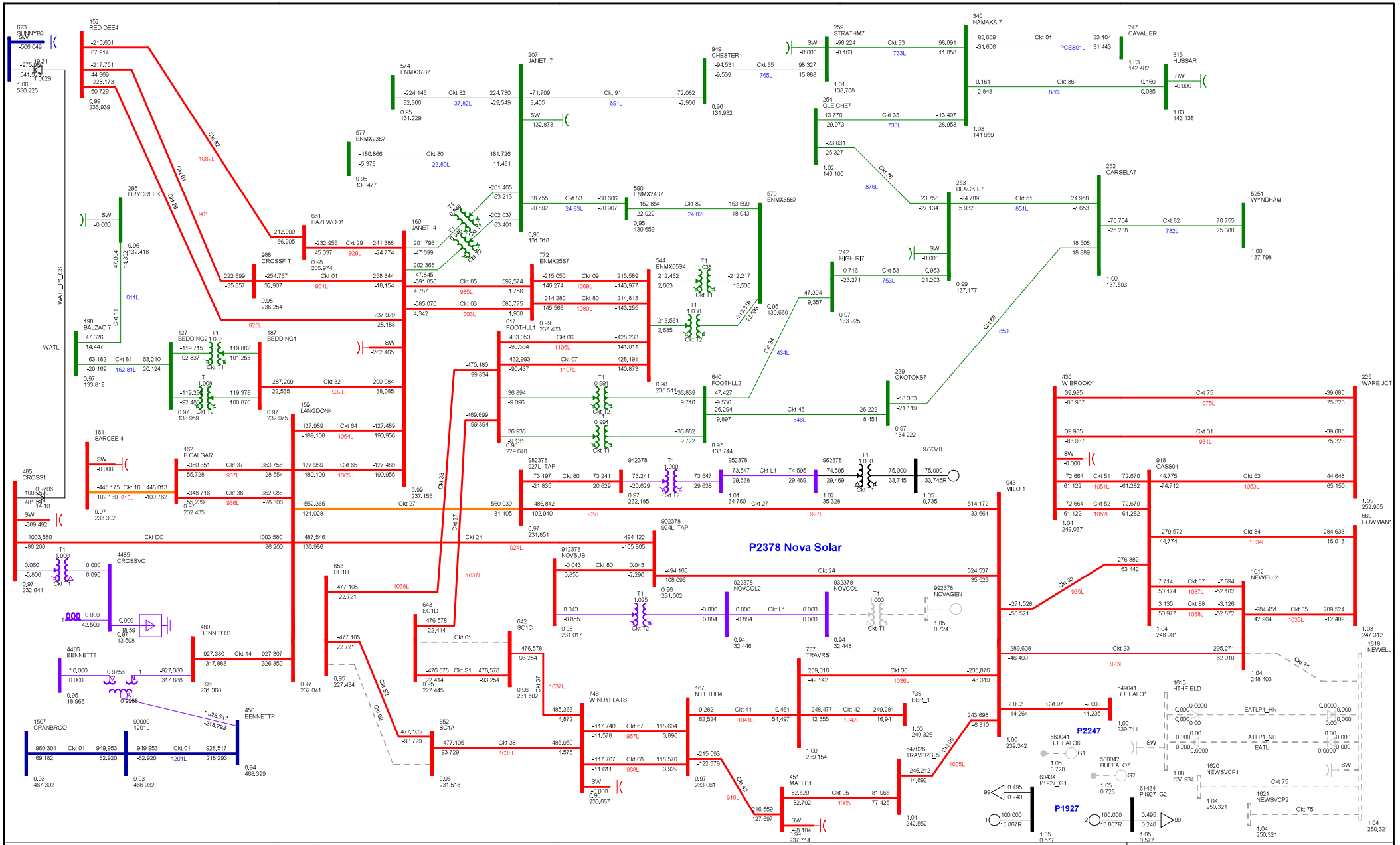
P2378 Nova Solar Project Connection

FIGURE A6.2-1 N-1: 924L (LANGDON 102S TO MILO 356S) WITH RAS
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

FIGURE A6.2-2 N-1: 927L (LANGDON 102S TO MILO 356S) WITH RAS
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022



P2378 Nova Solar Project Connection

FIGURE A6.2-3 N-1: EATL(WITH RAS)
2023 SUMMER PEAK (POST-CONNECTION) - SENSITIVITY - A2
PRINTED ON SATURDAY 21. MAY 2022

Attachment A7
Constraint Effective Factors Table

Main Case - A1																	
Case	Contingency	Monitored Branch	Power Plants														
			P2378	Cavalier	Carseland	Shepard	High River	Calgary En	Tilley	Balzac	Enmax34	Stavely	Cutting Lak	Claresholn	Blackspring	Brooks	Travers
2023 SP	1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)	-0.0237	0.1157	0.2663	0.4259	0.0000	-0.0106	0.0619	0.0237	0.0578	0.1032	0.0635	0.1050	0.0886	0.0618	0.0894
	985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)	-0.0234	0.1144	0.2632	0.4210	0.0000	-0.0104	0.0612	0.0234	0.0571	0.1020	0.0628	0.1038	0.0876	0.0611	0.0884
	1036L (Milo 356S to Travers 554S)	1005L (Milo 356S to P2009 Tap)	-0.0187	0.0326	0.0611	0.0167	0.0000	0.0113	-0.0443	0.0112	0.0106	0.1102	-0.0472	0.1218	0.0278	-0.0490	0.5998
	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	-0.0348	-0.0251	-0.0265	-0.0242	0.0000	-0.0210	0.1300	-0.0213	-0.0217	0.0183	0.1363	0.0091	-0.0501	0.1335	-0.0508
	EATL	927L (Langdon 102s to P2378 Tap)	0.0000	-0.0473	-0.0219	-0.0546	0.0000	-0.0474	0.1715	-0.0428	-0.0386	0.1166	0.1781	0.1099	0.1674	0.1758	0.1711
2023 SL	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	-0.0343	-0.0249	-0.0264	-0.0241	0.0000	-0.0208	0.1305	-0.0214	-0.0221	0.0284	0.1348	0.0189	-0.0478	0.1335	-0.0518
	EATL	927L (Langdon 102s to P2378 Tap)	0.0000	-0.0944	-0.0793	-0.0934	0.0000	-0.0739	0.0949	-0.0729	-0.0748	0.0574	0.0981	0.0508	0.0698	0.0961	0.0994
	EATL	916L (East Calgary 5S to Sarcee 42S)	0.0000	0.2360	0.2607	0.2476	0.0000	0.1808	0.2908	0.1711	0.1028	0.2949	0.2911	0.2974	0.3125	0.2922	0.3004
	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	0.2825	0.2078	0.2252	0.2269	0.0000	0.1675	0.2274	0.1580	0.0856	0.2370	0.2282	0.2384	0.2491	0.2287	0.2454
	1005L (Milo 356S to Picture Butte 120S)	1036L (Travers 554S to Milo 356S)	-0.0219	0.0307	0.0584	0.0153	0.0000	0.0105	-0.0442	0.0107	0.0102	0.1089	-0.0465	0.1220	0.5926	-0.0473	0.0238

Main Case - A2																	
Case	Contingency	Monitored Branch	Power Plants														
			P2378	Cavalier	Carseland	Shepard	High River	Calgary En	Tilley	Balzac	Enmax34	Stavely	Cutting Lak	Claresholn	Blackspring	Brooks	Travers
2023 SP	1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)	-0.0177	0.1159	0.2665	0.4260	0.0000	-0.0106	0.0621	0.0236	0.0575	0.1037	0.0638	0.1055	0.0892	0.0621	0.0899
	985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)	-0.0175	0.1146	0.2635	0.4211	0.0000	-0.0105	0.0614	0.0233	0.0568	0.1025	0.0631	0.1043	0.0882	0.0614	0.0889
	1036L (Milo 356S to Travers 554S)	1005L (Milo 356S to P2009 Tap)	-0.0183	0.0327	0.0612	0.0167	0.0000	0.0113	-0.0441	0.0112	0.0105	0.1103	-0.0471	0.1220	0.0279	-0.0489	0.6001
	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	-0.0348	-0.0251	-0.0265	-0.0242	0.0000	-0.0210	0.1300	-0.0213	-0.0217	0.0183	0.1364	0.0091	-0.0500	0.1335	-0.0507
	EATL	924L (P2378 Tap to Langdon 102s)	0.0000	-0.0453	-0.0199	-0.0530	0.0000	-0.0462	0.1740	-0.0418	-0.0379	0.1199	0.1804	0.1133	0.1705	0.1783	0.1740
2023 SL	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	-0.0345	-0.0249	-0.0264	-0.0241	0.0000	-0.0208	0.1305	-0.0214	-0.0221	0.0285	0.1348	0.0189	-0.0477	0.1335	-0.0518
	EATL	916L (East Calgary 5S to Sarcee 42S)	0.0000	0.2218	0.2439	0.2370	0.0000	0.1734	0.2674	0.1639	0.0944	0.2714	0.2679	0.2732	0.2854	0.2687	0.2776
	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	0.2823	0.2082	0.2256	0.2273	0.0000	0.1679	0.2278	0.1585	0.0859	0.2373	0.2286	0.2388	0.2494	0.2291	0.2458
	1005L (Milo 356S to Picture Butte 120S)	1036L (Travers 554S to Milo 356S)	-0.0204	0.0309	0.0586	0.0153	0.0000	0.0105	-0.0439	0.0107	0.0102	0.1091	-0.0462	0.1223	0.5930	-0.0471	0.0241

Sensitivity Case - A1																			
Case	Contingency	Monitored Branch	Power Plants																
			P2378	Cavalier	Carseland	Shepard	High River	Calgary Energy	Tilley	Balzac	Enmax34	Stavely	Cutting Lak	Claresholm	Blackspring	Brooks	Travers (P2009	P1927	P2247
2023 SP	924L (Langdon 102S to Milo 356S)	927L (Langdon 102s to P2378 Tap)	0.8077	-0.0446	-0.0074	-0.0567	0.0000	-0.0490	0.2920	-0.0431	-0.0380	0.2074	0.3024	0.1977	0.2762	0.2987	0.2803	0.3030	0.3498
	924L (Langdon 102S to Milo 356S)	927L (Milo 356s to P2378 Tap)	-0.1850	-0.0299	0.0063	-0.0495	0.0000	-0.0467	0.3082	-0.0470	-0.0482	0.2176	0.3196	0.2074	0.2820	0.3139	0.2872	0.3157	0.3587
	1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)	-0.0324	0.1101	0.2602	0.4192	0.0000	-0.0128	0.0486	0.0225	0.0569	0.0915	0.0500	0.0933	0.0756	0.0484	0.0759	0.0401	0.0399
	985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)	-0.0320	0.1088	0.2572	0.4144	0.0000	-0.0126	0.0481	0.0222	0.0562	0.0904	0.0494	0.0923	0.0747	0.0479	0.0750	0.0397	0.0395
	1107L (Enmax 65 to Foothills 237S)	927L (Langdon 102s to P2378 Tap)	0.8049	-0.0300	-0.0044	-0.0387	0.0000	-0.0338	0.1996	-0.0300	-0.0270	0.1398	0.2067	0.1329	0.1885	0.2043	0.1916	0.2071	0.2409
	1107L (Enmax 65 to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	-0.0023	0.6726	0.1770	0.0010	0.0000	-0.0028	0.0030	-0.0032	-0.0014	0.0052	0.0031	0.0051	0.0043	0.0029	0.0043	0.0023	0.0022
	1106L (Enmax 65 to Foothills 237S)	927L (Langdon 102s to P2378 Tap)	0.8049	-0.0300	-0.0044	-0.0387	0.0000	-0.0338	0.1996	-0.0300	-0.0270	0.1398	0.2067	0.1329	0.1885	0.2043	0.1916	0.2071	0.2409
	1106L (Enmax 65 to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	-0.0023	0.6726	0.1770	0.0010	0.0000	-0.0028	0.0030	-0.0032	-0.0014	0.0052	0.0031	0.0051	0.0043	0.0029	0.0043	0.0023	0.0022
	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	-0.0357	-0.0256	-0.0270	-0.0245	0.0000	-0.0212	0.1273	-0.0213	-0.0216	0.0183	0.1336	0.0093	-0.0512	0.1307	-0.0518	0.1398	-0.0650
	927L (Langdon 102s to Milo 356s)	924L (Milo 356s to Langdon 102s)	-0.0153	-0.0279	-0.0023	-0.0377	0.0000	-0.0335	0.2023	-0.0306	-0.0285	0.1441	0.2094	0.1373	0.1932	0.2072	0.1961	0.2103	0.2447
	1037L (Foothills 237S to Windy Flats 138S)	927L (Langdon 102s to P2378 Tap)	0.8049	-0.0300	-0.0044	-0.0387	0.0000	-0.0338	0.1996	-0.0300	-0.0270	0.1398	0.2067	0.1329	0.1885	0.2043	0.1916	0.2071	0.2409
	1038L (Foothills 237S to Windy Flats 138S)	927L (Langdon 102s to P2378 Tap)	0.8049	-0.0300	-0.0044	-0.0387	0.0000	-0.0338	0.1996	-0.0300	-0.0270	0.1398	0.2067	0.1329	0.1885	0.2043	0.1916	0.2071	0.2409
	EATL	924L (Milo 356s to Langdon 102s)	-0.0595	-0.0619	-0.0384	-0.0662	0.0000	-0.0556	0.1431	-0.0486	-0.0414	0.0934	0.1493	0.0875	0.1392	0.1467	0.1421	0.1496	0.1878
	EATL	927L (Langdon 102s to P2378 Tap)	0.7587	-0.0663	-0.0434	-0.0691	0.0000	-0.0575	0.1327	-0.0496	-0.0413	0.0820	0.1389	0.0759	0.1267	0.1359	0.1298	0.1381	0.1759
	EATL	916L (East Calgary 5S to Sarcee 42S)	0.2881	0.2127	0.2286	0.2303	0.0000	0.1715	0.2461	0.1609	0.0918	0.2545	0.2464	0.2555	0.2580	0.2472	0.2579	0.2479	0.2601
	EATL	927L (Milo 356s to P2378 Tap)	-0.1964	-0.0279	-0.0029	-0.0410	0.0000	-0.0382	0.1895	-0.0376	-0.0376	0.1365	0.1965	0.1303	0.1814	0.1922	0.1854	0.1928	0.2346
	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	0.2795	0.2099	0.2242	0.2285	0.0000	0.1714	0.2295	0.1610	0.0889	0.2413	0.2298	0.2426	0.2458	0.2306	0.2457	0.2312	0.2480
2023 SL	924L (Langdon 102S to Milo 356S)	927L (Langdon 102s to P2378 Tap)	0.7869	-0.0475	-0.0122	-0.0612	0.0000	-0.0515	0.2952	-0.0516	-0.0545	0.2291	0.3002	0.2214	0.2651	0.2986	0.2867	0.3043	0.3415
	1109L (Enmax 65 to Enmax 25)	1080L (Enmax 65 to Enmax 25)	-0.0068	0.1305	0.2734	-0.0673	0.0000	-0.0099	0.0778	0.0124	0.0373	0.1326	0.0777	0.1378	0.1131	0.0776	0.1111	0.0698	0.0725
	1080L (Enmax 65 to Enmax 25)	1109L (Enmax 65 to Enmax 25)	-0.0068	0.1310	0.2745	-0.0676	0.0000	-0.0100	0.0781	0.0125	0.0374	0.1331	0.0781	0.1384	0.1135	0.0779	0.1116	0.0701	0.0728
	WATL (WATL HVDC Link)	901L (Janet 74S to 901AL JCT)	0.1865	0.1843	0.1899	0.1976	0.0000	0.1470	0.1565	0.1230	0.1534	0.1716	0.1571	0.1732	0.1771	0.1575	0.1748	0.1570	0.1727
	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	0.3070	0.2385	0.2553	0.2573	0.0000	0.1969	0.2600	0.1876	0.1148	0.2678	0.2607	0.2690	0.2773	0.2611	0.2754	0.2617	0.2789

Sensitivity Case - A2																			
Case	Contingency	Monitored Branch	Power Plants																
			P2378	Cavalier	Carseland	Shepard	High River	gary Energy Cer	Tilley	Balzac	Enmax34	Stavely	Cutting Lak	Claresholm	cksprings Ri	Brooks	vers (P2009/P2	P1927	P2247
2023 SP	1003L (Janet 74S to Enmax 25)	985L (Janet 74S to Enmax 25)	-0.0254	0.1104	0.2606	0.4193	0.0000	-0.0128	0.0492	0.0223	0.0565	0.0922	0.0506	0.0941	0.0764	0.0490	0.0767	0.0408	0.0407
	985L (Janet 74S to Enmax 25)	1003L (Janet 74S to Enmax 25)	-0.0251	0.1091	0.2576	0.4145	0.0000	-0.0126	0.0487	0.0220	0.0559	0.0912	0.0500	0.0931	0.0756	0.0485	0.0758	0.0404	0.0403
	1107L (Enmax 65 to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	-0.0013	0.6726	0.1770	0.0010	0.0000	-0.0028	0.0031	-0.0033	-0.0015	0.0053	0.0032	0.0053	0.0044	0.0030	0.0044	0.0024	0.0023
	1106L (Enmax 65 to Foothills 237S)	691L (Janet 74S to Chestermere 419S)	-0.0013	0.6726	0.1770	0.0010	0.0000	-0.0028	0.0031	-0.0033	-0.0015	0.0053	0.0032	0.0053	0.0044	0.0030	0.0044	0.0024	0.0023
	1088L (Cassils 324S to Newell 2075S)	1087L (Cassils 324S to Newwell 2075S)	-0.0356	-0.0256	-0.0270	-0.0245	0.0000	-0.0212	0.1274	-0.0214	-0.0217	0.0184	0.1336	0.0093	-0.0512	0.1307	-0.0518	0.1399	-0.0649
	924L (Langdon 102s to Milo 356s)	927L (Langdon 102s to P2378 Tap)	0.0000	-0.0450	-0.0077	-0.0570	0.0000	-0.0494	0.2919	-0.0436	-0.0385	0.2071	0.3023	0.1974	0.2763	0.2987	0.2804	0.3030	0.3501
	924L (Langdon 102s to Milo 356s)	927L (Milo 356s to P2378 Tap)	0.0000	-0.0299	0.0063	-0.0496	0.0000	-0.0468	0.3080	-0.0471	-0.0483	0.2169	0.3194	0.2067	0.2813	0.3137	0.2865	0.3154	0.3583
	927L (Langdon 102s to Milo 356s)	924L (P2378 Tap to Langdon 102s)	0.8133	-0.0445	-0.0075	-0.0566	0.0000	-0.0491	0.2904	-0.0434	-0.0386	0.2060	0.3008	0.1963	0.2747	0.2972	0.2788	0.3014	0.3480
	927L (Langdon 102s to Milo 356s)	924L (P2378 Tap to Milo 356s)	-0.1821	-0.0301	0.0060	-0.0496	0.0000	-0.0468	0.3070	-0.0469	-0.0481	0.2163	0.3184	0.2061	0.2805	0.3126	0.2858	0.3144	0.3572
	1037L (Foothills 237S to Windy Flats 138S)	924L (P2378 Tap to Langdon 102s)	0.8154	-0.0289	-0.0035	-0.0380	0.0000	-0.0335	0.1997	-0.0301	-0.0275	0.1404	0.2068	0.1335	0.1888	0.2044	0.1918	0.2072	0.2408
	1038L (Foothills 237S to Windy Flats 138S)	924L (P2378 Tap to Langdon 102s)	0.8154	-0.0289	-0.0035	-0.0380	0.0000	-0.0335	0.1997	-0.0301	-0.0275	0.1404	0.2068	0.1335	0.1888	0.2044	0.1918	0.2072	0.2408
	EATL	924L (P2378 Tap to Langdon 102s)	0.7787	-0.0629	-0.0400	-0.0666	0.0000	-0.0556	0.1367	-0.0484	-0.0408	0.0866	0.1429	0.0806	0.1313	0.1400	0.1343	0.1423	0.1801
	EATL	927L (Langdon 102s to P2378 Tap)	-0.0557	-0.0643	-0.0412	-0.0677	0.0000	-0.0565	0.1365	-0.0490	-0.0412	0.0862	0.1428	0.0802	0.1312	0.1399	0.1342	0.1423	0.1802
	EATL	916L (East Calgary 5S to Sarcee 42S)	0.2876	0.2127	0.2286	0.2303	0.0000	0.1715	0.2458	0.1610	0.0919	0.2542	0.2462	0.2553	0.2577	0.2470	0.2576	0.2477	0.2599
	EATL	924L (P2378 Tap to Milo 356s)	-0.1936	-0.0274	-0.0026	-0.0405	0.0000	-0.0377	0.1886	-0.0372	-0.0373	0.1358	0.1956	0.1296	0.1804	0.1913	0.1842	0.1918	0.2334
	EATL	927L (Milo 356s to P2378 Tap)	-0.0082	-0.0273	-0.0024	-0.0405	0.0000	-0.0378	0.1895	-0.0373	-0.0374	0.1365	0.1965	0.1303	0.1812	0.1922	0.1851	0.1927	0.2344
	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	0.2805	0.2102	0.2245	0.2287	0.0000	0.1717	0.2298	0.1612	0.0890	0.2416	0.2301	0.2428	0.2461	0.2309	0.2460	0.2314	0.2482
2023SL	1109L (Enmax 65 to Enmax 25)	1080L (Enmax 65 to Enmax 25)	-0.0056	0.1308	0.2749	-0.0676	0.0000	-0.0097	0.0783	0.0130	0.0382	0.1336	0.0782	0.1389	0.1138	0.0781	0.1121	0.0702	0.0730
	1080L (Enmax 65 to Enmax 25)	1109L (Enmax 65 to Enmax 25)	-0.0056	0.1313	0.2760	-0.0679	0.0000	-0.0097	0.0786	0.0131	0.0383	0.1342	0.0785	0.1394	0.1142	0.0784	0.1125	0.0705	0.0733
	924L (Langdon 102s to Milo 356s)	927L (Langdon 102s to P2378 Tap)	0.0000	-0.0552	-0.0210	-0.0656	0.0000	-0.0535	0.2849	-0.0533	-0.0561	0.2179	0.2898	0.2100	0.2537	0.2882	0.2755	0.2940	0.3313
	927L (Langdon 102s to Milo 356s)	924L (P2378 Tap to Langdon 102s)	0.7962	-0.0530	-0.0189	-0.0639	0.0000	-0.0526	0.2847	-0.0524	-0.0552	0.2182	0.2897	0.2103	0.2531	0.2880	0.2754	0.2937	0.3303
	WATL (WATL HVDC Link)	916L (East Calgary 5S to Sarcee 42S)	0.3085	0.2367	0.2542	0.2551	0.0000	0.1942	0.2595	0.1849	0.1130	0.2678	0.2602	0.2691	0.2784	0.2607	0.2757	0.2613	0.2796