



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-098
BRIERY-CLOVER 230 KV
75 MW Capacity / 125 MW Energy**

January 2021

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1 Introduction

This Feasibility Study has been prepared in accordance with the PJM Open Access Transmission Tariff, 36.2, as well as the Feasibility Study Agreement between the Interconnection Customer (IC), and PJM Interconnection, LLC (PJM), Transmission Provider (TP). The Interconnected Transmission Owner (ITO) is Dominion.

2 Preface

The intent of the feasibility study is to determine a plan, with ballpark cost and construction time estimates, to connect the subject generation to the PJM network at a location specified by the Interconnection Customer. The Interconnection Customer may request the interconnection of generation as a capacity resource or as an energy-only resource. As a requirement for interconnection, the Interconnection Customer may be responsible for the cost of constructing: (1) Direct Connections, which are new facilities and/or facilities upgrades needed to connect the generator to the PJM network, and (2) Network Upgrades, which are facility additions, or upgrades to existing facilities, that are needed to maintain the reliability of the PJM system.

In some instances a generator interconnection may not be responsible for 100% of the identified network upgrade cost because other transmission network uses, e.g. another generation interconnection, may also contribute to the need for the same network reinforcement. Cost allocation rules for network upgrades can be found in PJM Manual 14A, Attachment B. The possibility of sharing the reinforcement costs with other projects may be identified in the feasibility study, but the actual allocation will be deferred until the impact study is performed.

The Interconnection Customer seeking to interconnect a wind or solar generation facility shall maintain meteorological data facilities as well as provide that meteorological data which is required per Schedule H to the Interconnection Service Agreement and Section 8 of Manual 14D.

An Interconnection Customer with a proposed new Customer Facility that has a Maximum Facility Output equal to or greater than 100 MW shall install and maintain, at its expense, phasor measurement units (PMUs). See Section 8.5.3 of Appendix 2 to the Interconnection Service Agreement as well as section 4.3 of PJM Manual 14D for additional information.

The Feasibility Study estimates do not include the feasibility, cost, or time required to obtain property rights and permits for construction of the required facilities. The project developer is responsible for the right of way, real estate, and construction permit issues. For properties currently owned by Transmission Owners, the costs may be included in the study.

3 General

The Interconnection Customer (IC), has proposed a Solar generating facility located in Mecklenburg County, Virginia. The installed facilities will have a total capability of 125 MW with 75 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is December 01, 2024. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-098
Project Name	BRIERY-CLOVER 230 KV
State	Virginia
County	Mecklenburg
Transmission Owner	Dominion
MFO	125
MWE	125
MWC	75
Fuel	Solar
Basecase Study Year	2024

Any new service customers who can feasibly be commercially operable prior to June 1st of the basecase study year are required to request interim deliverability analysis.

4 Point of Interconnection

4.1 Primary Point of Interconnection

AG1-098 "Briery-Clover 230 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 230 kV three breaker ring bus located on the line between the Briery substation and Clover substation.

The IC is responsible for securing right-of-way, permits, and constructing the proposed attachment line from the generating facility site to the Point of Interconnection. The IC may not install any facilities on Dominion's right-of-way without first obtaining the necessary approval from Dominion Energy.

Attachment 1 shows a one-line diagram of the proposed interconnection facilities.

4.2 Secondary Point of Interconnection

The IC requested that a secondary POI be reviewed for network impacts.

The secondary point of interconnection for AG1-098 is tapping the Chase City to Lunenburg 115 kV line in the Dominion area.

This report does not provide costs for the interconnection of the secondary POI. The secondary POI was analyzed for network impacts. Network impact results are shown in the Summer Peak - Load Flow Analysis – Secondary Point of Interconnection section of this report.

5 Cost Summary

The AG1-098 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$ 10,400,000
Total System Network Upgrade Costs	\$ 392,292,500 ¹
Total Costs	\$ 402,692,500

This cost excludes a Federal Income Tax Gross Up charges. This tax may or may not be charged based on whether this project meets the eligibility requirements of IRS Notice 2016-36, 2016-25 I.R.B. (6/20/2016). If at

¹ This project currently causes and/or contributes to overloads of the Transmission System (see Summer Peak Load Flow Analysis section below) and therefore has potential to have cost allocation for the system reinforcements listed in the report. This will be re-evaluated in the System Impact phase. The results may vary with queue customers withdrawing from the queue and other generators deactivating over time. If a customer is the first to cause the need for a project (causes loading to exceed 100% of rating), then the customer is responsible. If a customer contributes to a facility that is already overloaded by a prior queue, then they may receive cost allocation.

a future date it is determined that the Federal Income Tax Gross charge is required, the Transmission Owner shall be reimbursed by the Interconnection Customer for such taxes.

Cost allocations for any System Upgrades will be provided in the System Impact Study Report.

6 Transmission Owner Scope of Work

The required Attachment Facilities, Direct Connection and Non-Direct Connection work for the interconnection of AG1-098 to the Dominion Transmission System is detailed in the following sections. The associated one-line showing the generation project attachment facilities and primary direct and non-direct connection is shown in Attachment 1.

Note that the ITO findings were made from a conceptual review of this project. A more detailed review of the connection facilities and their cost will be identified in a future study phase. Further note that the cost estimate data contained in this document should be considered high level estimates since it was produced without a detailed engineering review. The applicant will be responsible for the actual cost of construction. ITO herein reserves the right to return to any issues in this document and, upon appropriate justification, request additional monies to complete any reinforcements to the transmission systems.

The total physical interconnection costs are given in the table below:

Description	Total Cost
<i>Attachment Facilities</i>	\$2,100,000
<i>230 kV Three Breaker Ring-Bus Substation</i>	\$6,500,000
<i>Re-arrange line and tie-in new substation</i>	\$1,800,000
Total Physical Interconnection Costs	\$10,400,000

AG1-098 "Briery-Clover 230 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 230 kV three breaker ring bus located on the line between the Briery substation and Clover substation.

It is estimated to take 18-30 months to complete this work upon execution of an Interconnection Construction Service Agreement (ICSA). These preliminary cost estimates are based on typical engineering costs. A more detailed engineering cost estimates are normally done when the IC provides an exact site plan location for the generation substation during the Facility Study phase.

Remote Terminal Work: During the Facilities Study, ITO's System Protection Engineering Department will review transmission line protection as well as anti-islanding required to accommodate the new generation and interconnection substation. System Protection Engineering will determine the minimal acceptable protection requirements to reliably interconnect the proposed generating facility with the transmission system. The review is based on maintaining system reliability by reviewing ITO's protection requirements with the known transmission system configuration which includes generating facilities in the area. This review may determine that transmission line protection and communication upgrades are required at remote substations.

7 Schedule

The estimated schedule for the Attachment Facilities, Direct Connection and Non-Direct Connection work is identified in the “Transmission Owner Scope of Work” section of this report.

The estimated schedule for the required Network Impact Reinforcements is identified in the “System Reinforcements” section of this report.

If the customer is ultimately responsible for network upgrades, then the schedule for those upgrades will be refined in future study phases. The customer would need to wait for those upgrades to be completed prior to commercial operation unless determined deliverable by an interim deliverability study. The elapsed time to complete any network upgrades is provided in the System Reinforcements table of this report.

8 Transmission Owner Analysis

Dominion assessed the impact of the proposed AG1-098 for compliance with NERC Reliability Criteria on the Dominion Transmission System. The system was assessed using the summer 2024 AG1 case provided to Dominion by PJM.

When performing a generation analysis, Dominion’s main analysis includes load flow study results following a single contingency event for both normal and stressed system conditions. Dominion Criteria considers a transmission facility overloaded if it exceeds 94% of its emergency rating under normal and stressed system conditions. A full listing of Dominion’s Planning Criteria and interconnection requirements can be found in the Company’s Facility Connection Requirements which are publicly available at:
<http://www.dominionenergy.com>.

The results of these studies evaluate the system under a limited set of operating conditions and do not guarantee the full delivery of the capacity and associated energy of this proposed generation facility under all operating conditions. NERC Planning and Operating Reliability Criteria allow for the re-dispatch of generating units to resolve projected and actual deficiencies in real time and planning studies. Specifically, in Planning Studies, NERC Planning Event 3 and 6 Contingency Conditions (Loss of generator, transmission circuit, transformer, shunt device, or Single Pole of a DC line followed by the loss of a generator, transmission circuit, transformer, shunt device or single pole of a DC line) allow for re-dispatch of generating units to resolve potential reliability deficiencies. For Dominion Planning Criteria the re-dispatch of generating units for these contingency conditions is allowed as long as the projected loading does not exceed 100% of a facility Load Dump Rating.

8.1 Power Flow Analysis

PJM performed a power flow analysis of the transmission system using a 2024 summer peak load flow model and the results were verified by Dominion. Additionally, Dominion performed an analysis of its transmission system and no further deficiencies were identified.

9 Interconnection Customer Requirements

9.1 System Protection

The IC must design its Customer Facilities in accordance with all applicable standards, including the standards in Dominion's "Dominion Energy Electric Transmission Generator Interconnection Requirements" documented in Dominion's Facility Interconnection Requirements "Exhibit C" located at:

<https://www.dominionenergy.com/company/moving-energy/electric-transmission-access>. Preliminary Protection requirements will be provided as part of the Facilities Study. Detailed Protection Requirements will be provided once the project enters the construction phase.

9.2 Compliance Issues and Interconnection Customer Requirements

The proposed Customer Facilities must be designed in accordance with Dominion's "Dominion's Facility Interconnection Requirements" document located at: <https://www.dominionenergy.com/company/moving-energy/electric-transmission-access>. In particular, the IC is responsible for the following:

1. The purchase and installation of a fully rated protection device (circuit breaker, circuit switcher, fuse) to protect the IC's GSU transformer(s).
1. The purchase and installation of the minimum required Dominion generation interconnection relaying and control facilities as described in the System Protection section noted above. This includes over/under voltage protection, over/under frequency protection, and zero sequence voltage protection relays.
2. The purchase and installation of supervisory control and data acquisition ("SCADA") equipment to provide information in a compatible format to the Dominion Transmission System Control Center.
3. Compliance with the Dominion and PJM generator power factor and voltage control requirements.

The GSU(s) associated with the IC queue request shall meet the grounding requirements as noted in Dominion's "Dominion's Facility Interconnection Requirements" document located at: <https://www.dominionenergy.com/company/moving-energy/electric-transmission-access>.

The IC will also be required to meet all PJM, SERC, and NERC reliability criteria and operating procedures for standards compliance. For example, the IC will need to properly locate and report the over and under voltage and over and under frequency system protection elements for its units as well as the submission of the generator model and protection data required to satisfy the PJM and SERC audits. Failure to comply with these requirements may result in a disconnection of service if the violation is found to compromise the reliability of the Dominion system.

9.3 Power Factor Requirements

The IC shall design its non-synchronous Customer Facility with the ability to maintain a power factor of at least 0.95 leading (absorbing VARs) to 0.95 lagging (supplying VARs) measured at the high-side of the facility substation transformer(s) connected to the Dominion transmission system.

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

The Interconnection Customer will be required to install equipment necessary to provide Revenue Metering (KWH, KVARH) and real time data (KW, KVAR) for IC's generating Resource. See PJM Manuals M-01 and M-14D, and PJM Tariff Section 8 of Attachment O.

10.2 Meteorological Data Reporting Requirements

The solar generation facility shall provide the Transmission Provider with site-specific meteorological data including:

- Back Panel temperature (Fahrenheit) - (Required for plants with Maximum Facility Output of 3 MW or higher)
- Irradiance (Watts/meter²) - (Required for plants with Maximum Facility Output of 3 MW or higher)
- Ambient air temperature (Fahrenheit) - (Accepted, not required)
- Wind speed (meters/second) - (Accepted, not required)
- Wind direction (decimal degrees from true north) - (Accepted, not required)

10.3 Interconnected Transmission Owner Requirements

The IC will be required to comply with all Interconnected Transmission Owner's revenue metering requirements for generation interconnection customers located at the following link:

<http://www.pjm.com/planning/design-engineering/to-tech-standards/>

11 Summer Peak - Load Flow Analysis - Primary POI

The Queue Project AG1-098 was evaluated as a 125.0 MW (Capacity 75.0 MW) injection tapping the Briery to Clover 230 kV line in the Dominion area. Project AG1-098 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-098 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

11.1 Generation Deliverability

(Single or N-1 contingencies for the Capacity portion only of the interconnection)

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
163517550	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	DVP_P1-2: LN 562-C	single	3218.56005859	99.77	100.28	DC	16.4

11.2 Multiple Facility Contingency

(Double Circuit Tower Line, Fault with a Stuck Breaker, and Bus Fault contingencies for the full energy output)

None

11.3 Contribution to Previously Identified Overloads

(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
168096757	242631	05EDAN1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	118.43	118.98	DC	4.88
168096758	242631	05EDAN1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	118.43	118.98	DC	4.88
168341945	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	127.78	129.48	DC	11.29
168341946	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	123.97	125.68	DC	11.29
168341962	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	121.89	127.17	DC	30.14
168341963	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	121.93	127.2	DC	30.14
168341967	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	129.63	131.5	DC	12.39
168341968	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	125.46	127.33	DC	12.39

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPACT
168341957	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	121.95	127.22	DC	30.14
168341958	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	121.96	127.24	DC	30.14
163120781	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	101.98	103.36	DC	13.59
168643446	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P1-2: LN 2028-B	single	800.880004883	102.66	103.68	DC	8.15
168643447	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	314765 6MTEAGL E 230 966790 AG1-550 TAP 230 1	single	800.880004883	102.65	103.67	DC	8.15
163120776	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	102.09	103.47	DC	13.59
168643441	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	314765 6MTEAGL E 230 966790 AG1-550 TAP 230 1	single	800.880004883	102.79	103.81	DC	8.15
168643442	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P1-2: LN 2028-B	single	800.880004883	102.79	103.81	DC	8.15
169114098	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	166.34	171.02	DC	26.79
169114099	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	166.35	171.04	DC	26.79
169114172	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	114.48	119.94	DC	44.51
169114173	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-C	single	814.979980469	114.52	119.98	DC	44.51
169114168	314690	6BLACK WALNU	230.0	DVP	962560	AG1-105 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	123.09	128.55	DC	44.51
169114169	314690	6BLACK WALNU	230.0	DVP	962560	AG1-105 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	814.979980469	123.13	128.59	DC	44.51
169114077	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	single	559.299987793	166.68	171.47	DC	26.8
169114078	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B	single	559.299987793	166.72	171.51	DC	26.8
169114104	314697	6SEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	674.91998291	149.2	154.32	DC	34.58
169114105	314697	6SEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	674.91998291	149.23	154.35	DC	34.58
169333402	314747	6BREMO	230.0	DVP	313867	6BREMODI ST	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	131.79	133.66	DC	12.39

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS LOADIN G %	POST PROJECTIONS LOADIN G %	AC DC	MW IMPACT
169333403	314747	6BREMO	230.0	DVP	313867	6BREMOMODIST	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	127.62	129.49	DC	12.39
169333419	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	single	269.779998779	121.03	123.2	DC	5.85
169333392	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	131.66	133.36	DC	11.29
169333393	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	127.87	129.57	DC	11.29
163517422	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-D	single	718.0	152.22	157.03	DC	34.58
163517423	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-C	single	718.0	152.24	157.06	DC	34.58
163120791	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	100.28	101.67	DC	13.6
169563610	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	DVP_P1-2: LN 2028-B	single	800.880004883	101.7	102.72	DC	8.16
169563611	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	3147656MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.880004883	101.68	102.7	DC	8.16
169563494	934620	AD1-088 TAP	230.0	DVP	963270	AG1-176 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	571.520019531	123.01	128.29	DC	30.14
169563495	934620	AD1-088 TAP	230.0	DVP	963270	AG1-176 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	123.03	128.31	DC	30.14
169868096	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	135.23	136.93	DC	11.29
169868097	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	131.42	133.13	DC	11.29
169563508	962490	AG1-098 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	571.520019531	116.27	121.54	DC	30.14
169563509	962490	AG1-098 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	116.29	121.56	DC	30.14
169114148	962560	AG1-105 TAP	230.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	123.09	128.55	DC	44.51
169114149	962560	AG1-105 TAP	230.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 556-C	single	814.979980469	123.13	128.59	DC	44.51
169868137	963270	AG1-176 TAP	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	123.01	128.29	DC	30.14
169868138	963270	AG1-176 TAP	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	123.05	128.32	DC	30.14

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168643313	964840	AG1-347 TAP	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	123.01	128.29	DC	30.14
168643314	964840	AG1-347 TAP	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	123.05	128.32	DC	30.14
169868106	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	135.2	136.9	DC	11.29
169868107	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	131.41	133.11	DC	11.29

11.4 Potential Congestion due to Local Energy Deliverability

PJM also studied the delivery of the energy portion of this interconnection request. Any problems identified below are likely to result in operational restrictions to the project under study. The developer can proceed with network upgrades to eliminate the operational restriction at their discretion by submitting a Merchant Transmission Interconnection request.

Note: Only the most severely overloaded conditions are listed below. There is no guarantee of full delivery of energy for this project by fixing only the conditions listed in this section. With a Transmission Interconnection Request, a subsequent analysis will be performed which shall study all overload conditions associated with the overloaded element(s) identified.

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168096754	242631	05EDAN 1	138.0	AEP	242620	05DANVL 2	138.0	AEP	1	AEP_P1-3_#1377_05J.FERR 765_1	operation	402.0	144.92	145.83	DC	8.13
168096755	242631	05EDAN 1	138.0	AEP	242620	05DANVL 2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	operation	402.0	144.92	145.83	DC	8.13
168341943	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	152.33	155.18	DC	18.81
168341947	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	Base Case	operation	661.760009766	101.03	103.34	DC	15.26
168341960	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	148.7	157.49	DC	50.24
168341965	313867	6BREMOD IST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	150.0	153.12	DC	20.65
168341969	313867	6BREMOD IST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	Base Case	operation	661.760009766	101.27	103.8	DC	16.75
168342108	313868	6CARTERV	230.0	DVP	933500	AC2-165 TAP	230.0	DVP	1	DVP_P1-2: LN 2028-B	operation	800.880004883	113.11	114.81	DC	13.6

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168341955	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-C	operati on	571.520019531	148.76	157.54	DC	50.24
168643444	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P1-2: LN 2028-B	operati on	800.880004883	123.7	125.39	DC	13.59
168643439	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	operati on	800.880004883	123.82	125.52	DC	13.59
168643440	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P1-2: LN 2028-B	operati on	800.880004883	123.82	125.52	DC	13.59
169114096	314677	6BUCKIN G	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	operati on	571.520019531	218.82	226.62	DC	44.64
169114100	314677	6BUCKIN G	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	operati on	571.520019531	128.27	132.8	DC	25.92
169114170	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-D	operati on	814.979980469	139.51	148.61	DC	74.18
169114166	314690	6BLACK WALNU	230.0	DVP	962560	AG1-105 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operati on	814.979980469	151.61	160.72	DC	74.18
169114075	314692	6FARMVIL	230.0	DVP	314677	6BUCKIN G	230.0	DVP	1	DVP_P1-2: LN 556-C	operati on	559.299987793	221.25	229.23	DC	44.66
169114079	314692	6FARMVIL	230.0	DVP	314677	6BUCKIN G	230.0	DVP	1	Base Case	operati on	559.299987793	126.32	130.95	DC	25.93
169114102	314697	6SEGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operati on	674.91998291	195.72	204.22	DC	57.63
168342086	314747	6BREMO	230.0	DVP	313868	6CARTERV	230.0	DVP	1	DVP_P1-2: LN 2028-B	operati on	800.880004883	114.52	116.22	DC	13.6
169333400	314747	6BREMO	230.0	DVP	313867	6BREMOD IST	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operati on	661.760009766	152.16	155.28	DC	20.65
169333404	314747	6BREMO	230.0	DVP	313867	6BREMOD IST	230.0	DVP	1	Base Case	operati on	661.760009766	103.43	105.96	DC	16.75
169333418	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	operati on	269.779998779	150.74	152.37	DC	9.76
169333390	314765	6MTEAGL E	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operati on	661.760009766	151.35	154.2	DC	18.81
169333394	314765	6MTEAGL E	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	Base Case	operati on	661.760009766	102.85	105.16	DC	15.25
168643336	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 563	operati on	903.903991699	169.36	169.93	DC	11.56
163517683	314935	8HERITAG E	500.0	DVP	314940	8ROGERS RD	500.0	DVP	1	DVP_P1-2: LN 511-A	operati on	3256.15991211	99.94	101.26	DC	45.47
163517591	314936	8RAWLIN GS	500.0	DVP	942930	AE2-313 TAP	500.0	DVP	1	DVP_P1-2: LN 585-A	operati on	4070.19995117	125.22	126.44	DC	49.58
163517659	314940	8ROGERS RD	500.0	DVP	938490	AE1-068_POI	500.0	DVP	1	DVP_P1-2: LN 511-A	operati on	4070.19995117	113.09	114.16	DC	44.39
163517417	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON 230 T	230.0	CPL E	1	DVP_P1-2: LN 556-D	operati on	718.0	201.34	209.33	DC	57.63
163517427	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON 230 T	230.0	CPL E	1	Base Case	operati on	542.0	105.38	109.87	DC	24.3
169563608	933500	AC2-165 TAP	230.0	DVP	314333	6POWHAT N	230.0	DVP	1	DVP_P1-2: LN 2028-B	operati on	800.880004883	121.63	123.32	DC	13.6
169563492	934620	AD1-088 TAP	230.0	DVP	963270	AG1-176 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operati on	571.520019531	149.71	158.5	DC	50.24
163517623	938490	AE1-068_POI	500.0	DVP	941030	AE2-094 TAP	500.0	DVP	1	DVP_P1-2: LN 511-A	operati on	4070.19995117	123.64	124.62	DC	44.39
163517530	940470	AE2-031 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P1-2: LN 585-A	operati on	4070.19995117	132.65	133.86	DC	49.58
163517583	941030	AE2-094 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P1-2: LN 511-A	operati on	4070.19995117	130.05	131.03	DC	44.39
163517564	942930	AE2-313 TAP	500.0	DVP	940470	AE2-031 TAP	500.0	DVP	1	DVP_P1-2: LN 585-A	operati on	4070.19995117	129.51	130.73	DC	49.58

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
169868094	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operati on	661.760009766	161.83	164.68	DC	18.81
169868098	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	Base Case	operati on	661.760009766	106.99	109.29	DC	15.26
169114197	962490	AG1-098 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P1-2: LN 298	operati on	571.520019531	82.83	103.12	DC	116.06
169563506	962490	AG1-098 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operati on	571.520019531	140.99	149.78	DC	50.24
169114146	962560	AG1-105 TAP	230.0	DVP	314697	6SEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 556-D	operati on	814.979980469	150.22	159.32	DC	74.18
169868135	963270	AG1-176 TAP	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	operati on	571.520019531	149.82	158.61	DC	50.24
168643311	964840	AG1-347 TAP	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 556-C	operati on	571.520019531	149.82	158.61	DC	50.24
169868104	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operati on	661.760009766	159.17	162.02	DC	18.81
169868108	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	Base Case	operati on	661.760009766	105.79	108.09	DC	15.26

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
168096757,168096758	2	05EDAN 1 138.0 kV - 05DANVL2 138.0 kV Ckt 1	<u>AEP</u> n6124 (533) : PJM Network Upgrade n6124. Increasing the Danville East Danville 138 kV circuit summer rating to 572/572/572 MVA will still require us to rebuild the line. Project Type : FAC Cost : \$9,000,000 Time Estimate : The network project has an projected in-service date of 06/01/2021.	\$9,000,000
168341968,168341967	5	6BREMOMDIST 230.0 kV - 6FORK UNION 230.0 kV Ckt 1	<u>DVP</u> dom-202 (1589) : Rebuild 1.63 miles of 230 kV Line 2028 from Fork Union to Bremono Dist with 2-636 ACSR. Project Type : FAC Cost : \$2,445,000 Time Estimate : 30-36 Months	\$2,445,000
168643441,163120776,168643442	8	6POWHATN 230.0 kV - 6JUDES F 230.0 kV Ckt 1	<u>DVP</u> dom-303 (1690) : Rebuild 7.09 miles of 230 kV Line 2027 from Judes to Powhatan with 2-795 ACSR 150 C Project Type : FAC Cost : \$17,725,000 Time Estimate : 36-40 Months	\$17,725,000
169563610,169563611,163120791	18	AC2-165 TAP 230.0 kV - 6POWHATN 230.0 kV Ckt 1	<u>DVP</u> dom-389 (1776) : Rebuild 4.01 miles of 230 kV Line 2027 from Powhatan to AC2-165 Tap with 2-795 ACSR (26/7) 150 C Project Type : FAC Cost : \$10,025,000 Time Estimate : 30-36 Months	\$10,025,000
169868106,169868107	25	AG1-550 TAP 230.0 kV - 6MTEAGLE 230.0 kV Ckt 1	<u>DVP</u> dom-421 (1808) : Rebuild 6.5 miles of 230 kV Line 2028 from AG1-550 Tap to Mt Eagle with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$16,250,000 Time Estimate : 30-36 Months	\$16,250,000
169333419	15	6BREMO 230.0 kV - 3BREMO 115.0 kV Ckt 1	<u>DVP</u> b2989 (1320) : PJM Baseline Upgrade b2989. Install a second 230 -115 kV Transformer(224 MVA) approximately 1 mile north of Bremono and tie 230 kV Line #2028(Bremono Charlottesville) and 115 kV Line #91 (Bremono-Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230-115 kV transformer at Bremono substation for the interim until the new substation is complete. The baseline project has an projected in-service date of 10/31/2019. Project Type : CON Cost : \$0	\$0

ID	Idx	Facility	Upgrade Description	Cost
163120781,168 643446,168643 447	7	6JUDES F 230.0 kV - 6MDLTHAN 230.0 kV Ckt 1	<u>DVP</u> dom-302 (1689) : Rebuild 7.09 miles of 230 kV Line 2027 from Judes to Midlothian with 2-795 ACSR 150 C. Project Type : FAC Cost : \$17,725,000 Time Estimate : 36-40 Months	\$17,725,000
168341963,168 341962	4	6PRINCE EDW 230.0 kV - 6FARMVIL 230.0 kV Ckt 1	<u>DVP</u> dom-199 (1586) : Rebuild 7.2 miles of 230 kV Line 235 from Prince EDW to Farmville with 2-636 ACSR. Project Type : FAC Cost : \$10,800,000 Time Estimate : 30-36 Months	\$10,800,000
168341957,168 341958	6	6BRIERY 230.0 kV - 6PRINCE EDW 230.0 kV Ckt 1	<u>DVP</u> dom-212 (1599) : Rebuild 5.7 miles of 230 kV Line 235 from Briery to Prince EDW with 2-636 ACSR. Project Type : FAC Cost : \$8,550,000 Time Estimate : 30-36 Months	\$8,550,000
163517550	1	8CARSON 500.0 kV - 8MDLTHAN 500.0 kV Ckt 1	<u>DVP</u> n6172 (1569) : Rebuild 37.41 miles of 500 kV Line 563 from Carson to Midlothian with 3-1351.5 125C ACSR. Project Type : FAC Cost : \$115,971,000 Time Estimate : 48-60 Months	\$115,971,000
163517422,163 517423	17	AC1-221 TAP 230.0 kV - 6PERSON230 T 230.0 kV Ckt 1	<u>DVP</u> n6449 (1339) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-636 ACSR. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months dom-259 (1646) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-795 ACSR. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months	\$6,000,000
168643314,168 643313	24	AG1-347 TAP 230.0 kV - 6BRIERY 230.0 kV Ckt 1	<u>DVP</u> dom-297 (1684) : Rebuild 16.821 mi miles of 230 kV Line 235 from Briery DP to AG1-347 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$42,052,500 Time Estimate : 36-40 Months	\$42,052,500

ID	Idx	Facility	Upgrade Description	Cost
169114098,169114099	9	6BUCKING 230.0 kV - 6BREMO 230.0 kV Ckt 1	<u>DVP</u> n6219 (1370) : Rebuild 15.51 miles of 230 kV Line 298 from Buckingham to Bremono with 2-636 ACSR. Project Type : FAC Cost : \$23,265,000 Time Estimate : 30-36 Months	\$23,265,000
169114078,169114077	12	6FARMVIL 230.0 kV - 6BUCKING 230.0 kV Ckt 1	<u>DVP</u> n6245 (1372) : Rebuild 12.76 miles of 230 kV Line 298 from Buckingham to Farmville with 2-636 ACSR. Project Type : FAC Cost : \$19,140,000 Time Estimate : 30-36 Months	\$19,140,000
169333402,169333403	14	6BREMO 230.0 kV - 6BREMODIST 230.0 kV Ckt 1	<u>DVP</u> n5873 (1538) : Rebuild 0.16 miles of Line 2028 from Bremono to Bremono Dist with 2-636 ACSR. Project Type : FAC Cost : \$500,000 Time Estimate : 30-36 Months	\$500,000
169333392,169333393	16	6MTEAGLE 230.0 kV - 6CHARLVL 230.0 kV Ckt 1	<u>DVP</u> n6184 (1576) : Rebuild 6.47 miles of 230 kV Line 2028 from Mt Eagle to Charlottesville with 2-636 ACSR. Project Type : FAC Cost : \$16,175,000 Time Estimate : 30-36 Months	\$16,175,000
169114104,169114105	13	6SEEDGE HILL 230.0 kV - AC1- 221 TAP 230.0 kV Ckt 1	<u>DVP</u> No upgrade needed on Dominion system. Need coordination with CPLE. <u>CPLE</u> The external (i.e. Non-PJM) Transmission Owner, CPLE, will not evaluate this violation until the impact study phase.	\$0
169114173,169114172	10	6CLOVER 230.0 kV - 6BLACK WALNU 230.0 kV Ckt 1	<u>DVP</u> dom-342 (1729) : Rebuild 0.16 miles of 230 kV Line 2068 from Clover to Black Walnut with 2-768.2 ACS 250 C. Replace wave trap at Clover terminal. Project Type : FAC Cost : \$440,000 Time Estimate : 30-36 Months	\$440,000
169563508,169563509	21	AG1-098 TAP 230.0 kV - AD1- 088 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-391 (1778) : Rebuild 8.936 miles of 230 kV line 235 from AD1-088 Tap to AG1-098 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$22,340,000 Time Estimate : 36-40 Months	\$22,340,000

ID	Idx	Facility	Upgrade Description	Cost
169563494,169 563495	19	AD1-088 TAP 230.0 kV - AG1- 176 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-392 (1779) : Rebuild 2.729 miles of 230 kV line 235 from AD1-088 Tap to AG1-176 Tap with 2-636 ACSR 150 C. Project Type : FAC Cost : \$6,822,500 Time Estimate : 30-36 Months	\$6,822,500
168341945,168 341946	3	6FORK UNION 230.0 kV - AF2- 397 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-198 (1585) : Rebuild 5 miles of 230 kV Line 2028 from Fork Union to AF2-397 Tap with 2-636 ACSR. Project Type : FAC Cost : \$7,500,000 Time Estimate : 30-36 Months	\$7,500,000
169114168,169 114169	11	6BLACK WALNU 230.0 kV - AG1- 105 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-345 (1732) : Rebuild 3.441 miles of 230 kV Line 2068 from AG1-105 to Black Walnut with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$5,161,500 Time Estimate : 30-36 Months	\$5,161,500
169868138,169 868137	23	AG1-176 TAP 230.0 kV - AG1- 347 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-415 (1802) : Rebuild 0.17 mi miles of 230 kV Line 235 from AG1-347 Tap to AG1-176 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$255,000 Time Estimate : 30-36 Months	\$255,000
169868096,169 868097	20	AF2-397 TAP 230.0 kV - AG1- 550 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-409 (1796) : Rebuild 5.6 miles of 230 kV Line 2028 from AG1-550 Tap to AF2-397 Tap with 2-636 ACSR 150 C. Project Type : FAC Cost : \$14,000,000 Time Estimate : 36-40 Months	\$14,000,000
169114148,169 114149	22	AG1-105 TAP 230.0 kV - 6SEGE HILL 230.0 kV Ckt 1	<u>DVP</u> dom-412 (1799) : Rebuild 13.3 miles of 230 kV Line 2068 from AG1-105 to Sedge Hill with 2-768.2 ACSS 250 C. Replace Wave Trap at Sedge Hill terminal. Project Type : FAC Cost : \$20,150,000 Time Estimate : 36-40 Months	\$20,150,000
			TOTAL COST	\$392,292,500

11.6 Flow Gate Details - Primary POI

The following indices contain additional information about each facility presented in the body of the report. For each index, a description of the flowgate and its contingency was included for convenience. The intent of the indices is to provide more details on which projects/generators have contributions to the flowgate in question. All New Service Queue Requests, through the end of the Queue under study, that are contributors to a flowgate will be listed in the indices. Please note that there may be contributors that are subsequently queued after the queue under study that are not listed in the indices. Although this information is not used "as is" for cost allocation purposes, it can be used to gage the impact of other projects/generators. It should be noted the project/generator MW contributions presented in the body of the report are Full MW Impact contributions which are also noted in the indices column named "Full MW Impact", whereas the loading percentages reported in the body of the report, take into consideration the PJM Generator Deliverability Test rules such as commercial probability of each project as well as the ramping impact of "Adder" contributions. The MW Impact found and used in the analysis is shown in the indices column named "Gendeliv MW Impact".

11.6.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163517550	314902	8CARSON	DVP	314914	8MDLTHAN	DVP	1	DVP_P1-2: LN 562-C	single	3218.56	99.77	100.28	DC	16.4

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	7.4502	80/20	7.4502
313719	3CHESTNUT	1.2626	80/20	1.2626
314435	6SAPONY	0.4495	80/20	0.4495
314572	3EMPORIA	0.4671	80/20	0.4671
314582	3KELFORD	0.3789	80/20	0.3789
314589	3MURPHYS	0.0889	80/20	0.0889
314623	3WITAKRS	0.2374	80/20	0.2374
314704	3LAWRENC	0.3139	80/20	0.3139
315102	1BRUNSWICKG1	13.9374	80/20	13.9374
315103	1BRUNSWICKG2	13.9374	80/20	13.9374
315104	1BRUNSWICKG3	13.9374	80/20	13.9374
315105	1BRUNSWICKS1	28.9549	80/20	28.9549
315126	1ROARAP2	1.4289	80/20	1.4289
315128	1ROARAP4	1.3636	80/20	1.3636
315131	1EDGECEMA (Deactivation : 22/04/2019)	10.4035	80/20	10.4035
315132	1EDGECEMB (Deactivation : 22/04/2019)	10.4035	80/20	10.4035
315136	1ROSEMG1	2.2273	80/20	2.2273
315137	1ROSEMS1	1.3812	80/20	1.3812
315138	1ROSEMG2	1.0439	80/20	1.0439
315139	1GASTONA	3.2103	80/20	3.2103
315141	1GASTONB	3.2103	80/20	3.2103
315153	1CLOVER1	17.3204	80/20	17.3204
315154	1CLOVER2	17.1478	80/20	17.1478
315241	1Z1-086 GT1	17.9968	80/20	17.9968
315242	1Z1-086 GT2	17.9968	80/20	17.9968
315243	1Z1-086 GT3	17.9968	80/20	17.9968
315244	1Z1-086 ST	31.2852	80/20	31.2852
315266	1PLYWOOD A	1.3239	80/20	1.3239
315292	1DOMTR78	1.3631	80/20	1.3631
315293	1DOMTR9	7.0502	80/20	7.0502
315294	1DOMTR10	8.6400	80/20	8.6400
315601	1CONETOE2SOL	1.4852	80/20	1.4852
315602	1HOLLOMAN SOL	1.4794	80/20	1.4794
315606	3AA2-053SOLA	1.5499	80/20	1.5499
315607	3AA1-063SOLA	1.4269	80/20	1.4269
315608	3AA2-088SOLA	1.0407	80/20	1.0407
316020	AB2-059 C OP	1.8667	80/20	1.8667
316087	AB2-174 C	1.2279	80/20	1.2279
316096	AB2-100 C1	1.0291	80/20	1.0291
316098	AB2-100 C2	1.0291	80/20	1.0291

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316103	AB2-015 C	7.2301	Adder	8.51
316118	AC1-105 C	6.3063	80/20	6.3063
316129	AC1-054 C	7.7853	80/20	7.7853
316140	AB2-099 C (Suspended)	0.6139	80/20	0.6139
920591	AA2-165 C	0.1695	80/20	0.1695
922922	AB1-081 C OP	1.5839	80/20	1.5839
923991	AB2-040 C O1	8.1140	80/20	8.1140
924301	AB2-077 C O1 (Suspended)	1.6835	Adder	1.98
924311	AB2-078 C O1 (Suspended)	1.6835	Adder	1.98
924321	AB2-079 C O1 (Suspended)	1.6835	Adder	1.98
925121	AB2-169 C	1.0696	80/20	1.0696
925591	AC1-034 C	7.6638	80/20	7.6638
926070	AC1-086 C	22.8820	80/20	22.8820
926201	AC1-098 C	6.7014	80/20	6.7014
926211	AC1-099 C	2.2457	80/20	2.2457
927024	AC1-189 C	9.4539	80/20	9.4539
927145	AC1-208 C	9.9177	80/20	9.9177
927251	AC1-221 C	2.6226	80/20	2.6226
927261	AC1-222 C	4.0682	80/20	4.0682
932044	AC2-012 C	7.6769	Adder	9.03
932591	AC2-079 C O1	4.2086	Adder	4.95
932631	AC2-084 C	9.5531	80/20	9.5531
932761	AC2-100 C	6.0356	80/20	6.0356
933991	AD1-023 C	13.4196	80/20	13.4196
934061	AD1-033 C	5.7795	Adder	6.8
934311	AD1-055 C	2.8246	80/20	2.8246
934331	AD1-057 C O1	11.1480	80/20	11.1480
934341	AD1-058 C	6.5745	80/20	6.5745
934521	AD1-076 C	55.1315	80/20	55.1315
934615	AD1-087 C	10.8494	80/20	10.8494
934625	AD1-088 C	13.7245	80/20	13.7245
934991	AD1-131 C	2.1556	80/20	2.1556
935171	AD1-152 C O1	11.9170	80/20	11.9170
936161	AD2-022 C O1	7.7036	Adder	9.06
936171	AD2-023 C O1	4.4937	Adder	5.29
936265	AD2-033 C	9.9470	Adder	11.7
936361	AD2-046 C O1	7.9074	Adder	9.3
936401	AD2-051 C O1	9.1810	80/20	9.1810
936485	AD2-063 C	12.0403	Adder	14.17
936661	AD2-085 C	2.6011	Adder	3.06
937221	AD2-160 C O1	4.5397	Adder	5.34
937481	AD2-202 C O1	3.1779	80/20	3.1779
938221	AE1-035 C	0.3699	80/20	0.3699
938494	AE1-068_C1	54.0509	80/20	54.0509
938497	AE1-068_C2	54.0509	80/20	54.0509
938504	AE1-069_C1	41.1928	80/20	41.1928
938507	AE1-069_C2	44.4158	80/20	44.4158
938535	AE1-072 C	13.7543	Adder	16.18
938771	AE1-103 C	3.0067	Adder	3.54
939181	AE1-148 C	7.7814	Adder	9.15

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939414	AE1-173_C1	47.8817	80/20	47.8817
939415	AE1-173_C2	41.0414	80/20	41.0414
939416	AE1-173_C3	47.8817	80/20	47.8817
940061	AE2-000BC O1	7.3945	Adder	8.7
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	130.7629	Adder	153.84
940471	AE2-031 C	58.9877	80/20	58.9877
940481	AE2-033 C	18.2370	80/20	18.2370
940491	AE2-034 C	6.0826	Adder	7.16
940541	AE2-040	3.2414	80/20	3.2414
940571	AE2-044 C	5.0196	80/20	5.0196
940641	AE2-051 C O1	32.4414	80/20	32.4414
940661	AE2-053 O1	2.8820	Adder	3.39
941031	AE2-094 C	71.1649	80/20	71.1649
941101	AE2-104 C O1	2.6399	Adder	3.11
941281	AE2-122 C O1	21.7076	Adder	25.54
941291	AE2-123 C O1	22.3087	Adder	26.25
941301	AE2-124 C O1	20.3159	Adder	23.9
941501	AE2-147 C	12.7441	Adder	14.99
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1802	80/20	0.1802
941591	AE2-156 O1	13.4819	Adder	15.86
941791	AE2-182 C	2.2298	80/20	2.2298
942131	AE2-225 C	1.6999	Adder	2.0
942171	AE2-229 C	1.2749	Adder	1.5
942341	AE2-247 C	1.1268	Adder	1.33
942401	AE2-253 C	4.7750	Adder	5.62
942451	AE2-258	1.9669	Adder	2.31
942471	AE2-260 C O1	16.2042	80/20	16.2042
942931	AE2-313 C	63.7451	80/20	63.7451
943171	AE2-346 C	1.4734	80/20	1.4734
943461	AF1-017 C	1.0195	Adder	1.2
943611	AF1-032 C	1.3883	Adder	1.63
943901	AF1-058 C	2.2518	80/20	2.2518
943911	AF1-059	17.3322	80/20	17.3322
944011	AF1-069 C	23.2522	80/20	23.2522
944141	AF1-082	3.2269	80/20	3.2269
944581	AF1-123 C O1	37.1599	Adder	43.72
944591	AF1-124 C O1	37.1599	Adder	43.72
944601	AF1-125 C O1	37.1599	Adder	43.72
944871	AF1-152 C	4.2480	Adder	5.0
945711	AF1-236 C O1	66.5896	Adder	78.34
945811	AF1-246 C O1	11.5479	80/20	11.5479
946011	AF1-266	15.2658	80/20	15.2658
946281	AF1-292 C	1.6717	80/20	1.6717
957481	AF2-042 C	82.4850	80/20	82.4850
957491	AF2-043 C	1.6999	Adder	2.0
957521	AF2-046 C	17.4361	80/20	17.4361
957531	AF2-047 C	14.4533	Adder	17.0
957631	AF2-057	2.6937	Adder	3.17
957821	AF2-076 C	4.2690	Adder	5.02
957861	AF2-080 C	8.5864	80/20	8.5864
957871	AF2-081 C	7.7655	Adder	9.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958161	AF2-110 C	1.0883	Adder	1.28
959511	AF2-242 C	7.8543	80/20	7.8543
959751	AF2-266	12.4330	80/20	12.4330
960061	AF2-297 C	9.0072	80/20	9.0072
960081	AF2-299 C	2.8175	80/20	2.8175
961091	AF2-400 C	0.3904	Adder	0.46
961671	AG1-007 C	1.3711	80/20	1.3711
961681	AG1-008 C	17.4710	80/20	17.4710
961851	AG1-027 C	7.2166	Adder	16.02
961931	AG1-036 C	1.4181	80/20	1.4181
961941	AG1-037 C	0.5262	80/20	0.5262
962331	AG1-082 C	2.1048	80/20	2.1048
962341	AG1-083 C	2.1048	80/20	2.1048
962351	AG1-084 C	1.8446	80/20	1.8446
962361	AG1-085 C	1.8446	80/20	1.8446
962441	AG1-093 C O1	16.8167	80/20	16.8167
962491	AG1-098 C O1	16.3958	80/20	16.3958
962561	AG1-105 C O1	14.3922	80/20	14.3922
962571	AG1-106 C	6.3633	80/20	6.3633
963041	AG1-153 C	9.7794	80/20	9.7794
963111	AG1-160 C	9.9480	80/20	9.9480
963271	AG1-176 C O1	16.5192	80/20	16.5192
963291	AG1-178 C O1	117.1279	80/20	117.1279
963301	AG1-179 C	6.0204	80/20	6.0204
963311	AG1-180	2.9333	80/20	2.9333
963321	AG1-181 C O1	6.7952	Adder	15.08
963351	AG1-184 O1	63.1021	80/20	63.1021
963361	AG1-185 O1	3.2877	Adder	7.3
963821	AG1-235 C O1	9.8792	Adder	21.93
964111	AG1-272 C	1.0189	Adder	2.26
964121	AG1-273 C	1.0189	Adder	2.26
964131	AG1-274 C	1.0189	Adder	2.26
964241	AG1-285 C O1	5.3837	Adder	11.95
964261	AG1-287 C	1.6888	80/20	1.6888
964471	AG1-310 C	2.3260	80/20	2.3260
964491	AG1-312 C O1	19.5597	80/20	19.5597
964501	AG1-313 C O1	4.9236	80/20	4.9236
964791	AG1-342 C	4.4826	80/20	4.4826
964801	AG1-343 C	6.0942	80/20	6.0942
964841	AG1-347 C	10.2844	80/20	10.2844
964931	AG1-357 C	35.2920	80/20	35.2920
964951	AG1-359 O1	10.9526	Adder	24.31
965001	AG1-364 C O1	2.8578	Adder	6.34
965181	AG1-383 C	1.1285	Adder	2.5
965191	AG1-384 C	1.0189	Adder	2.26
965291	AG1-394 C	2.0885	80/20	2.0885
965451	AG1-413 C O1	7.2858	80/20	7.2858
965591	AG1-427 C	5.0935	Adder	11.31
965601	AG1-428 C O1	5.0260	80/20	5.0260
965631	AG1-431	20.4325	Adder	45.36
965691	AG1-437 C O1	10.3998	80/20	10.3998
965701	AG1-438 C O1	10.3998	80/20	10.3998

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965711	AG1-439 C O1	26.6430	80/20	26.6430
965721	AG1-440 C	7.7567	80/20	7.7567
965731	AG1-441 C	7.7567	80/20	7.7567
965741	AG1-442 O1	6.0665	80/20	6.0665
965751	AG1-443 O1	6.0665	80/20	6.0665
965761	AG1-444 O1	14.2096	80/20	14.2096
965771	AG1-445	4.4816	80/20	4.4816
965781	AG1-446	4.4816	80/20	4.4816
965811	AG1-449	41.3592	80/20	41.3592
966361	AG1-505 C	28.3995	80/20	28.3995
966371	AG1-506 C	28.3995	80/20	28.3995
966491	AG1-518 O1	3.7540	Adder	8.33
966621	AG1-532 C	1.5214	80/20	1.5214
966751	AG1-546 C	17.1304	80/20	17.1304
966801	AG1-551 C	2.4522	80/20	2.4522
966811	AG1-552 C	2.2688	80/20	2.2688
966931	AG1-431A	15.3512	Adder	34.08
WEC	WEC	1.0215	Confirmed LTF	1.0215
LGEE	LGEE	2.1186	Confirmed LTF	2.1186
CPL	CPL	11.0565	Confirmed LTF	11.0565
CBM-W2	CBM-W2	46.2515	Confirmed LTF	46.2515
NY	NY	1.9643	Confirmed LTF	1.9643
TVA	TVA	8.8200	Confirmed LTF	8.8200
SIGE	SIGE	0.8047	Confirmed LTF	0.8047
CBM-S2	CBM-S2	133.1518	Confirmed LTF	133.1518
CBM-S1	CBM-S1	2.1918	Confirmed LTF	2.1918
MEC	MEC	6.2082	Confirmed LTF	6.2082
LAGN	LAGN	10.9428	Confirmed LTF	10.9428
AA2-074	AA2-074	7.3026	LTF	7.3026
CBM-W1	CBM-W1	42.3684	Confirmed LTF	42.3684

11.6.2 Index 2

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168096758	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	118.43	118.98	DC	4.88

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.2723	Adder	2.67
313527	AB2-043 C	0.2209	80/20	0.2209
313719	3CHESTNUT	0.5595	80/20	0.5595
314572	3EMPORIA	0.1370	Adder	0.16
314582	3KELFORD	0.1465	80/20	0.1465
314623	3WITAKRS	0.1084	80/20	0.1084
315126	1ROARAP2	0.5492	80/20	0.5492
315128	1ROARAP4	0.5241	80/20	0.5241
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.9062	80/20	4.9062
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.9062	80/20	4.9062
315136	1ROSEMG1	0.8438	80/20	0.8438
315137	1ROSEMS1	0.5232	80/20	0.5232
315138	1ROSEMG2	0.3955	80/20	0.3955
315153	1CLOVER1	4.8431	80/20	4.8431
315154	1CLOVER2	4.7949	80/20	4.7949
315158	1KERR 1	0.1936	80/20	0.1936
315159	1KERR 2	0.5421	80/20	0.5421
315160	1KERR 3	0.5421	80/20	0.5421
315161	1KERR 4	0.5421	80/20	0.5421
315162	1KERR 5	0.5421	80/20	0.5421
315163	1KERR 6	0.5421	80/20	0.5421
315164	1KERR 7	0.5421	80/20	0.5421
315266	1PLYWOOD A	0.5917	80/20	0.5917
315293	1DOMTR9	2.2091	Adder	2.6
315294	1DOMTR10	2.7072	Adder	3.18
315601	1CONETOE2SOL	0.6666	80/20	0.6666
315606	3AA2-053SOLA	0.5921	80/20	0.5921
316020	AB2-059 C OP	0.8793	80/20	0.8793
316118	AC1-105 C	2.8038	80/20	2.8038
316129	AC1-054 C	3.3922	80/20	3.3922
316131	AB2-060 C	0.6316	80/20	0.6316
316140	AB2-099 C (Suspended)	0.1921	Adder	0.23
920591	AA2-165 C	0.0751	80/20	0.0751
922922	AB1-081 C OP	0.7460	80/20	0.7460
923991	AB2-040 C O1	2.4748	Adder	2.91
924301	AB2-077 C O1 (Suspended)	0.8962	80/20	0.8962

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924311	AB2-078 C O1 (Suspended)	0.8962	80/20	0.8962
924321	AB2-079 C O1 (Suspended)	0.8962	80/20	0.8962
925591	AC1-034 C	3.6098	80/20	3.6098
926051	AC1-083 C O1	4.9267	80/20	4.9267
926070	AC1-086 C	7.1225	Adder	8.38
926201	AC1-098 C	2.7689	80/20	2.7689
926211	AC1-099 C	0.9279	80/20	0.9279
927024	AC1-189 C	4.1711	80/20	4.1711
927145	AC1-208 C	4.1616	80/20	4.1616
927251	AC1-221 C	1.8225	80/20	1.8225
927261	AC1-222 C	1.7942	80/20	1.7942
932631	AC2-084 C	3.9471	80/20	3.9471
932761	AC2-100 C	4.1943	80/20	4.1943
933941	AD1-017 C	0.9853	80/20	0.9853
933991	AD1-023 C	4.0525	Adder	4.77
934311	AD1-055 C	1.2458	80/20	1.2458
934331	AD1-057 C O1	4.7373	80/20	4.7373
934341	AD1-058 C	4.5688	80/20	4.5688
934615	AD1-087 C	3.0476	80/20	3.0476
934625	AD1-088 C	3.7118	Adder	4.37
934991	AD1-131 C	1.4980	80/20	1.4980
935171	AD1-152 C O1	3.3475	80/20	3.3475
936161	AD2-022 C O1	12.2316	80/20	12.2316
936171	AD2-023 C O1	7.1351	80/20	7.1351
936265	AD2-033 C	5.3407	80/20	5.3407
936361	AD2-046 C O1	4.4130	80/20	4.4130
936401	AD2-051 C O1	2.8492	Adder	3.35
936485	AD2-063 C	6.4260	80/20	6.4260
937481	AD2-202 C O1	0.8927	80/20	0.8927
939181	AE1-148 C	4.3346	80/20	4.3346
940081	AE1-250 C	16.7625	80/20	16.7625
940571	AE2-044 C	2.3643	80/20	2.3643
940661	AE2-053 O1	1.6054	80/20	1.6054
941791	AE2-182 C	0.6030	Adder	0.71
942451	AE2-258	1.0445	80/20	1.0445
943171	AE2-346 C	0.4611	Adder	0.54
943901	AF1-058 C	0.9977	80/20	0.9977
943911	AF1-059	6.8914	80/20	6.8914
944141	AF1-082	1.5199	80/20	1.5199
945811	AF1-246 C O1	2.3280	Adder	2.74
946281	AF1-292 C	0.4826	Adder	0.57
946301	AF1-294 C	1.3261	Adder	1.56
957481	AF2-042 C	16.6285	Adder	19.56
957521	AF2-046 C	5.3511	Adder	6.3
957861	AF2-080 C	3.7883	80/20	3.7883
958211	AF2-115 C	0.7800	Adder	0.92
958801	AF2-171 C	4.6894	Adder	5.52
959311	AF2-222 C	5.6338	Adder	6.63
959511	AF2-242 C	3.1500	80/20	3.1500
959751	AF2-266	3.4765	80/20	3.4765
960061	AF2-297 C	3.9907	80/20	3.9907

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960081	AF2-299 C	0.8133	Adder	0.96
961671	AG1-007 C	0.6235	80/20	0.6235
961681	AG1-008 C	2.8418	Adder	6.31
961791	AG1-021 C	0.3307	Adder	0.73
961891	AG1-030 C	2.5649	Adder	5.69
961931	AG1-036 C	0.2331	Adder	0.52
961941	AG1-037 C	0.0873	Adder	0.19
962041	AG1-048 C	2.0671	Adder	4.59
962331	AG1-082 C	0.3491	Adder	0.77
962341	AG1-083 C	0.3491	Adder	0.77
962351	AG1-084 C	0.3084	Adder	0.68
962361	AG1-085 C	0.3084	Adder	0.68
962441	AG1-093 C O1	7.4768	80/20	7.4768
962491	AG1-098 C O1	2.1986	Adder	4.88
962561	AG1-105 C O1	4.4586	80/20	4.4586
962571	AG1-106 C	1.0498	Adder	2.33
963171	AG1-166 C	0.3307	Adder	0.73
963181	AG1-167 C	0.3307	Adder	0.73
963191	AG1-168 C	0.3307	Adder	0.73
963201	AG1-169 C	0.3307	Adder	0.73
963211	AG1-170 C	0.3307	Adder	0.73
963301	AG1-179 C	1.0263	Adder	2.28
963311	AG1-180	0.5000	Adder	1.11
963321	AG1-181 C O1	6.8883	80/20	6.8883
963361	AG1-185 O1	3.3327	80/20	3.3327
963641	AG1-215 C	0.1543	Adder	0.34
964111	AG1-272 C	0.4663	Adder	1.04
964121	AG1-273 C	0.4663	Adder	1.04
964131	AG1-274 C	0.4663	Adder	1.04
964241	AG1-285 C O1	5.4135	80/20	5.4135
964261	AG1-287 C	0.7483	80/20	0.7483
964471	AG1-310 C	1.0236	80/20	1.0236
964491	AG1-312 C O1	3.2055	Adder	7.12
964501	AG1-313 C O1	0.8414	Adder	1.87
964791	AG1-342 C	2.0004	80/20	2.0004
964801	AG1-343 C	0.9747	Adder	2.16
964821	AG1-345 C	0.1324	Adder	0.29
964931	AG1-357 C	3.3550	Adder	7.45
965191	AG1-384 C	0.4663	Adder	1.04
965281	AG1-393 C	0.3307	Adder	0.73
965291	AG1-394 C	0.3332	Adder	0.74
965451	AG1-413 C O1	2.8969	80/20	2.8969
965591	AG1-427 C	5.1228	80/20	5.1228
965601	AG1-428 C O1	0.8568	Adder	1.9
965691	AG1-437 C O1	1.6775	Adder	3.72
965701	AG1-438 C O1	1.6775	Adder	3.72
965711	AG1-439 C O1	11.9580	80/20	11.9580
965721	AG1-440 C	3.5896	80/20	3.5896
965731	AG1-441 C	3.5896	80/20	3.5896
965741	AG1-442 O1	0.9785	Adder	2.17
965751	AG1-443 O1	0.9785	Adder	2.17
965761	AG1-444 O1	6.3776	80/20	6.3776

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965771	AG1-445	2.0740	80/20	2.0740
965781	AG1-446	2.0740	80/20	2.0740
966621	AG1-532 C	0.2328	Adder	0.52
966751	AG1-546 C	7.3693	80/20	7.3693
966801	AG1-551 C	1.0116	80/20	1.0116
966811	AG1-552 C	0.8720	80/20	0.8720
CPLE	CPLE	6.7370	Confirmed LTF	6.7370
G-007A	G-007A	1.0861	Confirmed LTF	1.0861
VFT	VFT	2.8767	Confirmed LTF	2.8767
CBM-W2	CBM-W2	2.6701	Confirmed LTF	2.6701
PRAIRIE	PRAIRIE	0.7439	Confirmed LTF	0.7439
TVA	TVA	1.3328	Confirmed LTF	1.3328
CBM-S2	CBM-S2	76.2955	Confirmed LTF	76.2955
CBM-S1	CBM-S1	0.2120	Confirmed LTF	0.2120
CBM-N	CBM-N	0.5172	Confirmed LTF	0.5172
GIBSON	GIBSON	0.5700	Confirmed LTF	0.5700
BLUEG	BLUEG	2.1804	Confirmed LTF	2.1804
TRIMBLE	TRIMBLE	0.7173	Confirmed LTF	0.7173
LAGN	LAGN	1.9565	Confirmed LTF	1.9565
AA2-074	AA2-074	4.4334	LTF	4.4334

11.6.3 Index 3

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168341945	313707	6FORK UNION	DVP	961060	AF2-397 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	127.78	129.48	DC	11.29

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0108	80/20	14.0108

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9386	80/20	13.9386
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8276	80/20	13.8276
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0480	80/20	10.0480
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2763	80/20	2.2763
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4836	80/20	18.4836
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9989	80/20	0.9989
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1432	80/20	6.1432
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6137	80/20	3.6137
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7380	80/20	19.7380
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9955	80/20	3.9955
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961791	AG1-021 C	2.8909	80/20	2.8909
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0682	80/20	18.0682
962441	AG1-093 C O1	8.5606	80/20	8.5606
962491	AG1-098 C O1	11.2875	80/20	11.2875
962561	AG1-105 C O1	5.6502	80/20	5.6502
962741	AG1-123 C O1	3.4622	80/20	3.4622
962751	AG1-124 C O1	3.7973	80/20	3.7973
963171	AG1-166 C	2.8909	80/20	2.8909
963181	AG1-167 C	2.8909	80/20	2.8909
963191	AG1-168 C	2.8909	80/20	2.8909
963201	AG1-169 C	2.8909	80/20	2.8909
963211	AG1-170 C	2.8909	80/20	2.8909
963271	AG1-176 C O1	18.8540	80/20	18.8540
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O1	18.3458	80/20	18.3458
963361	AG1-185 O1	8.8762	80/20	8.8762

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963641	AG1-215 C	1.3491	80/20	1.3491
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O1	20.2255	80/20	20.2255
964241	AG1-285 C O1	11.0250	80/20	11.0250
964261	AG1-287 C	0.7492	80/20	0.7492
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8194	80/20	11.8194
964931	AG1-357 C	7.8348	80/20	7.8348
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8909	80/20	2.8909
965451	AG1-413 C O1	3.9569	80/20	3.9569
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299
965601	AG1-428 C O1	2.2741	80/20	2.2741
965641	AG1-432 C O1	36.9672	80/20	36.9672
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1612	80/20	6.1612
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6967	80/20	3.6967
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPLE	CPLE	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

11.6.4 Index 4

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168341963	313802	6PRINCE EDW	DVP	314692	6FARMVIL	DVP	1	DVP_P1-2: LN 556-B	single	571.52	121.93	127.2	DC	30.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964841	AG1-347 C	27.5044	80/20	27.5044
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

11.6.5 Index 5

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168341967	313867	6BREMODIST	DVP	313707	6FORK UNION	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	129.63	131.5	DC	12.39

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1780	80/20	2.1780
313527	AB2-043 C	0.4243	80/20	0.4243
314429	3JTRSVLE	0.6669	80/20	0.6669
314572	3EMPORIA	0.1382	80/20	0.1382
314677	6BUCKING	1.0571	80/20	1.0571
314704	3LAWRENC	0.1410	80/20	0.1410
315126	1ROARAP2	0.4085	80/20	0.4085
315128	1ROARAP4	0.3898	80/20	0.3898
315153	1CLOVER1	7.5116	80/20	7.5116
315154	1CLOVER2	7.4368	80/20	7.4368
315158	1KERR 1	0.2345	80/20	0.2345
315159	1KERR 2	0.6567	80/20	0.6567
315160	1KERR 3	0.6567	80/20	0.6567
315161	1KERR 4	0.6567	80/20	0.6567
315162	1KERR 5	0.6567	80/20	0.6567
315163	1KERR 6	0.6567	80/20	0.6567
315164	1KERR 7	0.6567	80/20	0.6567
315191	1BEARGRDN G1	18.4998	80/20	18.4998
315192	1BEARGRDN G2	18.4998	80/20	18.4998
315193	1BEARGRDN S1	23.9239	80/20	23.9239
315266	1PLYWOOD A	0.6737	80/20	0.6737
316087	AB2-174 C	0.3606	80/20	0.3606
316118	AC1-105 C	3.4200	80/20	3.4200
316123	AC1-075 C	0.3763	80/20	0.3763
316129	AC1-054 C	3.4710	80/20	3.4710
316131	AB2-060 C	1.2610	80/20	1.2610
923991	AB2-040 C O1	2.3720	80/20	2.3720
924301	AB2-077 C O1 (Suspended)	1.6661	80/20	1.6661
924311	AB2-078 C O1 (Suspended)	1.6661	80/20	1.6661
924321	AB2-079 C O1 (Suspended)	1.6661	80/20	1.6661
925611	AC1-036 C	0.2822	80/20	0.2822
926023	AC1-080 C	0.1258	80/20	0.1258
927251	AC1-221 C	0.7947	80/20	0.7947
927261	AC1-222 C	1.8844	80/20	1.8844
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.0415	80/20	1.0415
932761	AC2-100 C	1.8288	80/20	1.8288

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933501	AC2-165 C	34.9923	80/20	34.9923
934311	AD1-055 C	1.3084	80/20	1.3084
934341	AD1-058 C	1.9921	80/20	1.9921
934615	AD1-087 C	4.7030	80/20	4.7030
934625	AD1-088 C	15.3924	80/20	15.3924
934991	AD1-131 C	0.6532	80/20	0.6532
935171	AD1-152 C O1	5.1658	80/20	5.1658
935221	AD1-157 C	0.4035	80/20	0.4035
936265	AD2-033 C	15.2365	80/20	15.2365
936361	AD2-046 C O1	5.8230	80/20	5.8230
936485	AD2-063 C	15.0849	80/20	15.0849
937481	AD2-202 C O1	1.3775	80/20	1.3775
938371	AE1-056 C	11.0262	80/20	11.0262
938821	AE1-108 C O1	11.0132	80/20	11.0132
939181	AE1-148 C	5.8169	80/20	5.8169
940661	AE2-053 O1	2.1544	80/20	2.1544
941791	AE2-182 C	2.5007	80/20	2.5007
942451	AE2-258	2.0064	80/20	2.0064
942461	AE2-259 C O1	20.3100	80/20	20.3100
942751	AE2-291 C	3.2791	80/20	3.2791
942761	AE2-292 C O1	4.0828	80/20	4.0828
943901	AF1-058 C	1.0548	80/20	1.0548
943911	AF1-059	10.2781	80/20	10.2781
945811	AF1-246 C O1	3.6616	80/20	3.6616
946281	AF1-292 C	0.4969	80/20	0.4969
946291	AF1-293 C O1	6.2287	80/20	6.2287
946301	AF1-294 C	6.7368	80/20	6.7368
946591	AF1-323 C	3.5356	80/20	3.5356
957481	AF2-042 C	26.1540	80/20	26.1540
958131	AF2-107 C	1.6496	80/20	1.6496
958211	AF2-115 C	3.9629	80/20	3.9629
958801	AF2-171 C	23.6781	80/20	23.6781
959311	AF2-222 C	21.6010	80/20	21.6010
959751	AF2-266	5.3920	80/20	5.3920
960061	AF2-297 C	4.2192	80/20	4.2192
960081	AF2-299 C	0.8375	80/20	0.8375
960111	AF2-302 C	1.2857	80/20	1.2857
961791	AG1-021 C	3.1703	80/20	3.1703
961801	AG1-022 C	1.2857	80/20	1.2857
961891	AG1-030 C	22.0131	80/20	22.0131
962041	AG1-048 C	19.8142	80/20	19.8142
962441	AG1-093 C O1	9.1200	80/20	9.1200
962491	AG1-098 C O1	12.3900	80/20	12.3900
962561	AG1-105 C O1	6.1674	80/20	6.1674
963171	AG1-166 C	3.1703	80/20	3.1703
963181	AG1-167 C	3.1703	80/20	3.1703
963191	AG1-168 C	3.1703	80/20	3.1703
963201	AG1-169 C	3.1703	80/20	3.1703
963211	AG1-170 C	3.1703	80/20	3.1703
963271	AG1-176 C O1	20.7171	80/20	20.7171
963301	AG1-179 C	2.9803	80/20	2.9803
963311	AG1-180	1.4521	80/20	1.4521

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O1	20.0593	80/20	20.0593
963361	AG1-185 O1	9.7052	80/20	9.7052
963641	AG1-215 C	1.4795	80/20	1.4795
964111	AG1-272 C	3.2072	80/20	3.2072
964121	AG1-273 C	3.2072	80/20	3.2072
964131	AG1-274 C	3.2072	80/20	3.2072
964231	AG1-284 C O1	2.9513	80/20	2.9513
964241	AG1-285 C O1	12.0195	80/20	12.0195
964261	AG1-287 C	0.7911	80/20	0.7911
964471	AG1-310 C	1.0720	80/20	1.0720
964791	AG1-342 C	2.7843	80/20	2.7843
964821	AG1-345 C	1.2648	80/20	1.2648
964841	AG1-347 C	12.9875	80/20	12.9875
964931	AG1-357 C	8.6556	80/20	8.6556
965191	AG1-384 C	3.2072	80/20	3.2072
965281	AG1-393 C	3.1703	80/20	3.1703
965451	AG1-413 C O1	4.3205	80/20	4.3205
965581	AG1-426	2.3994	80/20	2.3994
965591	AG1-427 C	11.4819	80/20	11.4819
965601	AG1-428 C O1	2.4880	80/20	2.4880
965641	AG1-432 C O1	40.6200	80/20	40.6200
965721	AG1-440 C	4.1121	80/20	4.1121
965731	AG1-441 C	4.1121	80/20	4.1121
965771	AG1-445	2.3759	80/20	2.3759
965781	AG1-446	2.3759	80/20	2.3759
965831	AG1-451	6.7700	80/20	6.7700
966361	AG1-505 C	4.9734	80/20	4.9734
966371	AG1-506 C	4.9734	80/20	4.9734
966621	AG1-532 C	0.4522	80/20	0.4522
966691	AG1-539 C	1.7146	80/20	1.7146
966751	AG1-546 C	7.3410	80/20	7.3410
966811	AG1-552 C	0.6485	80/20	0.6485
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	4.0620	80/20	4.0620
WEC	WEC	0.0699	Confirmed LTF	0.0699
LGEE	LGEE	0.1483	Confirmed LTF	0.1483
CPL	CPL	2.3396	Confirmed LTF	2.3396
CBM-W2	CBM-W2	5.8061	Confirmed LTF	5.8061
NY	NY	0.4076	Confirmed LTF	0.4076
TVA	TVA	1.2558	Confirmed LTF	1.2558
SIGE	SIGE	0.1120	Confirmed LTF	0.1120
CBM-S2	CBM-S2	25.9121	Confirmed LTF	25.9121
CBM-S1	CBM-S1	0.2953	Confirmed LTF	0.2953
MEC	MEC	0.5863	Confirmed LTF	0.5863
LAGN	LAGN	1.5645	Confirmed LTF	1.5645
AA2-074	AA2-074	1.5426	LTF	1.5426
CBM-W1	CBM-W1	2.5236	Confirmed LTF	2.5236

11.6.6 Index 6

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168341958	314268	6BRIERY	DVP	313802	6PRINCE EDW	DVP	1	DVP_P1-2: LN 556-B	single	571.52	121.96	127.24	DC	30.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964841	AG1-347 C	27.5044	80/20	27.5044
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

11.6.7 Index 7

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168643447	314310	6JUDES F	DVP	314322	6MDLTHAN	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.88	102.65	103.67	DC	8.15

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2807	80/20	0.2807
314333	6POWHATN	1.5975	80/20	1.5975
314429	3JTRSVLE	0.4832	80/20	0.4832
314677	6BUCKING	0.8048	80/20	0.8048
315153	1CLOVER1	4.3193	80/20	4.3193
315154	1CLOVER2	4.2763	80/20	4.2763
315158	1KERR 1	0.1408	80/20	0.1408
315159	1KERR 2	0.3943	80/20	0.3943
315160	1KERR 3	0.3943	80/20	0.3943
315161	1KERR 4	0.3943	80/20	0.3943
315162	1KERR 5	0.3943	80/20	0.3943
315163	1KERR 6	0.3943	80/20	0.3943
315164	1KERR 7	0.3943	80/20	0.3943
315191	1BEARGRDN G1	14.2573	80/20	14.2573
315192	1BEARGRDN G2	14.2573	80/20	14.2573
315193	1BEARGRDN S1	18.4374	80/20	18.4374
315266	1PLYWOOD A	0.4243	80/20	0.4243
316118	AC1-105 C	2.1828	80/20	2.1828
316131	AB2-060 C	0.8395	80/20	0.8395
924301	AB2-077 C O1 (Suspended)	1.0978	80/20	1.0978
924311	AB2-078 C O1 (Suspended)	1.0978	80/20	1.0978
924321	AB2-079 C O1 (Suspended)	1.0978	80/20	1.0978
925611	AC1-036 C	0.1989	80/20	0.1989
927261	AC1-222 C	1.2284	80/20	1.2284
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7929	80/20	0.7929
933501	AC2-165 C	39.2365	80/20	39.2365
934311	AD1-055 C	0.8529	80/20	0.8529
934615	AD1-087 C	2.7046	80/20	2.7046
934625	AD1-088 C	10.6886	80/20	10.6886
935171	AD1-152 C O1	2.9707	80/20	2.9707
935221	AD1-157 C	0.2944	80/20	0.2944
936265	AD2-033 C	10.6447	80/20	10.6447
936361	AD2-046 C O1	3.5752	80/20	3.5752
936485	AD2-063 C	10.2897	80/20	10.2897
937481	AD2-202 C O1	0.7922	80/20	0.7922
938371	AE1-056 C	8.0460	80/20	8.0460

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938561	AE1-075 C	1.3891	80/20	1.3891
938821	AE1-108 C O1	29.3641	80/20	29.3641
939181	AE1-148 C	3.5861	80/20	3.5861
940661	AE2-053 O1	1.3282	80/20	1.3282
941011	AE2-092 C	25.2714	80/20	25.2714
941791	AE2-182 C	1.7365	80/20	1.7365
942451	AE2-258	1.3272	80/20	1.3272
942461	AE2-259 C O1	15.0438	80/20	15.0438
943901	AF1-058 C	0.6629	80/20	0.6629
943911	AF1-059	5.8955	80/20	5.8955
946291	AF1-293 C O1	39.5291	80/20	39.5291
946301	AF1-294 C	4.8812	80/20	4.8812
946591	AF1-323 C	9.4218	80/20	9.4218
958131	AF2-107 C	4.3708	80/20	4.3708
958211	AF2-115 C	2.8713	80/20	2.8713
958501	AF2-144 C	7.4840	80/20	7.4840
958801	AF2-171 C	17.1486	80/20	17.1486
959311	AF2-222 C	15.2960	80/20	15.2960
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8971	80/20	6.8971
959751	AF2-266	3.1005	80/20	3.1005
960061	AF2-297 C	2.6515	80/20	2.6515
960111	AF2-302 C	3.4261	80/20	3.4261
961061	AF2-397 C	36.6436	80/20	36.6436
961791	AG1-021 C	2.2970	80/20	2.2970
961801	AG1-022 C	3.4261	80/20	3.4261
961891	AG1-030 C	15.8193	80/20	15.8193
962041	AG1-048 C	14.3565	80/20	14.3565
962441	AG1-093 C O1	5.8208	80/20	5.8208
962491	AG1-098 C O1	8.1525	80/20	8.1525
962561	AG1-105 C O1	3.5580	80/20	3.5580
962741	AG1-123 C O1	3.1784	80/20	3.1784
962751	AG1-124 C O1	3.5658	80/20	3.5658
963171	AG1-166 C	2.2970	80/20	2.2970
963181	AG1-167 C	2.2970	80/20	2.2970
963191	AG1-168 C	2.2970	80/20	2.2970
963201	AG1-169 C	2.2970	80/20	2.2970
963211	AG1-170 C	2.2970	80/20	2.2970
963271	AG1-176 C O1	14.5511	80/20	14.5511
963321	AG1-181 C O1	14.0444	80/20	14.0444
963361	AG1-185 O1	6.7951	80/20	6.7951
963641	AG1-215 C	1.0720	80/20	1.0720
964111	AG1-272 C	2.2600	80/20	2.2600
964121	AG1-273 C	2.2600	80/20	2.2600
964131	AG1-274 C	2.2600	80/20	2.2600
964231	AG1-284 C O1	16.9953	80/20	16.9953
964241	AG1-285 C O1	8.1345	80/20	8.1345
964261	AG1-287 C	0.4972	80/20	0.4972
964471	AG1-310 C	0.7101	80/20	0.7101
964791	AG1-342 C	1.7990	80/20	1.7990
964821	AG1-345 C	0.9162	80/20	0.9162
964841	AG1-347 C	9.1280	80/20	9.1280
965191	AG1-384 C	2.2600	80/20	2.2600

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965281	AG1-393 C	2.2970	80/20	2.2970
965451	AG1-413 C O1	2.4782	80/20	2.4782
965581	AG1-426	6.3974	80/20	6.3974
965591	AG1-427 C	7.7812	80/20	7.7812
965641	AG1-432 C O1	30.0876	80/20	30.0876
965721	AG1-440 C	2.3562	80/20	2.3562
965731	AG1-441 C	2.3562	80/20	2.3562
965771	AG1-445	1.3614	80/20	1.3614
965781	AG1-446	1.3614	80/20	1.3614
965831	AG1-451	5.0146	80/20	5.0146
966251	AG1-494 C	1.6466	80/20	1.6466
966791	AG1-550 O1	16.4427	80/20	16.4427
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0088	80/20	3.0088
WEC	WEC	0.1947	Confirmed LTF	0.1947
LGEE	LGEE	0.4166	Confirmed LTF	0.4166
CPL	CPL	1.0770	Confirmed LTF	1.0770
CBM-W2	CBM-W2	7.1949	Confirmed LTF	7.1949
NY	NY	0.3583	Confirmed LTF	0.3583
TVA	TVA	1.2922	Confirmed LTF	1.2922
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.3550	Confirmed LTF	14.3550
CBM-S1	CBM-S1	0.3325	Confirmed LTF	0.3325
MEC	MEC	1.0869	Confirmed LTF	1.0869
LAGN	LAGN	1.5715	Confirmed LTF	1.5715
CBM-W1	CBM-W1	8.1596	Confirmed LTF	8.1596

11.6.8 Index 8

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168643442	314333	6POWHATN	DVP	314310	6JUDES F	DVP	1	DVP_P1-2: LN 2028-B	single	800.88	102.79	103.81	DC	8.15

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2807	80/20	0.2807
314333	6POWHATN	1.5975	80/20	1.5975
314429	3JTRSVLE	0.4832	80/20	0.4832
314677	6BUCKING	0.8048	80/20	0.8048
315153	1CLOVER1	4.3193	80/20	4.3193
315154	1CLOVER2	4.2763	80/20	4.2763
315158	1KERR 1	0.1408	80/20	0.1408
315159	1KERR 2	0.3943	80/20	0.3943
315160	1KERR 3	0.3943	80/20	0.3943
315161	1KERR 4	0.3943	80/20	0.3943
315162	1KERR 5	0.3943	80/20	0.3943
315163	1KERR 6	0.3943	80/20	0.3943
315164	1KERR 7	0.3943	80/20	0.3943
315191	1BEARGRDN G1	14.2573	80/20	14.2573
315192	1BEARGRDN G2	14.2573	80/20	14.2573
315193	1BEARGRDN S1	18.4374	80/20	18.4374
315266	1PLYWOOD A	0.4243	80/20	0.4243
316118	AC1-105 C	2.1828	80/20	2.1828
316131	AB2-060 C	0.8395	80/20	0.8395
924301	AB2-077 C O1 (Suspended)	1.0978	80/20	1.0978
924311	AB2-078 C O1 (Suspended)	1.0978	80/20	1.0978
924321	AB2-079 C O1 (Suspended)	1.0978	80/20	1.0978
925611	AC1-036 C	0.1989	80/20	0.1989
927261	AC1-222 C	1.2284	80/20	1.2284
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7929	80/20	0.7929
933501	AC2-165 C	39.2365	80/20	39.2365
934311	AD1-055 C	0.8529	80/20	0.8529
934615	AD1-087 C	2.7046	80/20	2.7046
934625	AD1-088 C	10.6886	80/20	10.6886
935171	AD1-152 C O1	2.9707	80/20	2.9707
935221	AD1-157 C	0.2944	80/20	0.2944
936265	AD2-033 C	10.6447	80/20	10.6447
936361	AD2-046 C O1	3.5752	80/20	3.5752
936485	AD2-063 C	10.2897	80/20	10.2897
937481	AD2-202 C O1	0.7922	80/20	0.7922
938371	AE1-056 C	8.0460	80/20	8.0460
938561	AE1-075 C	1.3891	80/20	1.3891
938821	AE1-108 C O1	29.3641	80/20	29.3641

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939181	AE1-148 C	3.5861	80/20	3.5861
940661	AE2-053 O1	1.3282	80/20	1.3282
941011	AE2-092 C	25.2714	80/20	25.2714
941791	AE2-182 C	1.7365	80/20	1.7365
942451	AE2-258	1.3272	80/20	1.3272
942461	AE2-259 C O1	15.0438	80/20	15.0438
943901	AF1-058 C	0.6629	80/20	0.6629
943911	AF1-059	5.8955	80/20	5.8955
946291	AF1-293 C O1	39.5291	80/20	39.5291
946301	AF1-294 C	4.8812	80/20	4.8812
946591	AF1-323 C	9.4218	80/20	9.4218
958131	AF2-107 C	4.3708	80/20	4.3708
958211	AF2-115 C	2.8713	80/20	2.8713
958501	AF2-144 C	7.4840	80/20	7.4840
958801	AF2-171 C	17.1486	80/20	17.1486
959311	AF2-222 C	15.2960	80/20	15.2960
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8971	80/20	6.8971
959751	AF2-266	3.1005	80/20	3.1005
960061	AF2-297 C	2.6515	80/20	2.6515
960111	AF2-302 C	3.4261	80/20	3.4261
961061	AF2-397 C	36.6436	80/20	36.6436
961791	AG1-021 C	2.2970	80/20	2.2970
961801	AG1-022 C	3.4261	80/20	3.4261
961891	AG1-030 C	15.8193	80/20	15.8193
962041	AG1-048 C	14.3565	80/20	14.3565
962441	AG1-093 C O1	5.8208	80/20	5.8208
962491	AG1-098 C O1	8.1525	80/20	8.1525
962561	AG1-105 C O1	3.5580	80/20	3.5580
962741	AG1-123 C O1	3.1784	80/20	3.1784
962751	AG1-124 C O1	3.5658	80/20	3.5658
963171	AG1-166 C	2.2970	80/20	2.2970
963181	AG1-167 C	2.2970	80/20	2.2970
963191	AG1-168 C	2.2970	80/20	2.2970
963201	AG1-169 C	2.2970	80/20	2.2970
963211	AG1-170 C	2.2970	80/20	2.2970
963271	AG1-176 C O1	14.5511	80/20	14.5511
963321	AG1-181 C O1	14.0444	80/20	14.0444
963361	AG1-185 O1	6.7951	80/20	6.7951
963641	AG1-215 C	1.0720	80/20	1.0720
964111	AG1-272 C	2.2600	80/20	2.2600
964121	AG1-273 C	2.2600	80/20	2.2600
964131	AG1-274 C	2.2600	80/20	2.2600
964231	AG1-284 C O1	16.9953	80/20	16.9953
964241	AG1-285 C O1	8.1345	80/20	8.1345
964261	AG1-287 C	0.4972	80/20	0.4972
964471	AG1-310 C	0.7101	80/20	0.7101
964791	AG1-342 C	1.7990	80/20	1.7990
964821	AG1-345 C	0.9162	80/20	0.9162
964841	AG1-347 C	9.1280	80/20	9.1280
965191	AG1-384 C	2.2600	80/20	2.2600
965281	AG1-393 C	2.2970	80/20	2.2970
965451	AG1-413 C O1	2.4782	80/20	2.4782

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965581	AG1-426	6.3974	80/20	6.3974
965591	AG1-427 C	7.7812	80/20	7.7812
965641	AG1-432 C O1	30.0876	80/20	30.0876
965721	AG1-440 C	2.3562	80/20	2.3562
965731	AG1-441 C	2.3562	80/20	2.3562
965771	AG1-445	1.3614	80/20	1.3614
965781	AG1-446	1.3614	80/20	1.3614
965831	AG1-451	5.0146	80/20	5.0146
966251	AG1-494 C	1.6466	80/20	1.6466
966791	AG1-550 O1	16.4427	80/20	16.4427
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0088	80/20	3.0088
WEC	WEC	0.1947	Confirmed LTF	0.1947
LGEE	LGEE	0.4166	Confirmed LTF	0.4166
CPL	CPL	1.0770	Confirmed LTF	1.0770
CBM-W2	CBM-W2	7.1949	Confirmed LTF	7.1949
NY	NY	0.3583	Confirmed LTF	0.3583
TVA	TVA	1.2922	Confirmed LTF	1.2922
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.3550	Confirmed LTF	14.3550
CBM-S1	CBM-S1	0.3325	Confirmed LTF	0.3325
MEC	MEC	1.0869	Confirmed LTF	1.0869
LAGN	LAGN	1.5715	Confirmed LTF	1.5715
CBM-W1	CBM-W1	8.1596	Confirmed LTF	8.1596

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169114099	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P1-2: LN 556-B	single	571.52	166.35	171.04	DC	26.79

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.6684	80/20	2.6684
313527	AB2-043 C	0.6826	80/20	0.6826
313719	3CHESTNUT	0.3600	80/20	0.3600
314429	3JTRSVLE	1.0076	80/20	1.0076
314572	3EMPORIA	0.1683	80/20	0.1683
314623	3WITAKRS	0.0667	80/20	0.0667
314677	6BUCKING	1.4768	80/20	1.4768
314704	3LAWRENC	0.1998	80/20	0.1998
315126	1ROARAP2	0.5063	80/20	0.5063
315128	1ROARAP4	0.4832	80/20	0.4832
315153	1CLOVER1	20.9369	80/20	20.9369
315154	1CLOVER2	20.7283	80/20	20.7283
315156	1HALLBR1	0.4996	80/20	0.4996
315158	1KERR 1	0.3755	80/20	0.3755
315159	1KERR 2	1.0513	80/20	1.0513
315160	1KERR 3	1.0513	80/20	1.0513
315161	1KERR 4	1.0513	80/20	1.0513
315162	1KERR 5	1.0513	80/20	1.0513
315163	1KERR 6	1.0513	80/20	1.0513
315164	1KERR 7	1.0513	80/20	1.0513
315266	1PLYWOOD A	1.3866	80/20	1.3866
315606	3AA2-053SOLA	0.5091	80/20	0.5091
315607	3AA1-063SOLA	0.4357	80/20	0.4357
316087	AB2-174 C	0.4407	80/20	0.4407
316118	AC1-105 C	6.9131	80/20	6.9131
316123	AC1-075 C	0.7898	80/20	0.7898
316129	AC1-054 C	5.1900	80/20	5.1900
316131	AB2-060 C	2.0201	80/20	2.0201
920591	AA2-165 C	0.0483	80/20	0.0483
923991	AB2-040 C O1	2.9062	80/20	2.9062
924301	AB2-077 C O1 (Suspended)	2.6962	80/20	2.6962
924311	AB2-078 C O1 (Suspended)	2.6962	80/20	2.6962
924321	AB2-079 C O1 (Suspended)	2.6962	80/20	2.6962
925611	AC1-036 C	0.4351	80/20	0.4351
925661	AC1-042 C	0.8262	80/20	0.8262
926023	AC1-080 C	0.2640	80/20	0.2640
926645	AC1-145 C	0.1552	80/20	0.1552
927145	AC1-208 C	2.9573	80/20	2.9573
927251	AC1-221 C	1.6710	80/20	1.6710

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
927261	AC1-222 C	4.1067	80/20	4.1067
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.4549	80/20	1.4549
932761	AC2-100 C	3.8455	80/20	3.8455
934311	AD1-055 C	2.8513	80/20	2.8513
934341	AD1-058 C	4.1889	80/20	4.1889
934615	AD1-087 C	13.0965	80/20	13.0965
934625	AD1-088 C	29.0477	80/20	29.0477
934991	AD1-131 C	1.3734	80/20	1.3734
935171	AD1-152 C O1	14.3851	80/20	14.3851
935221	AD1-157 C	0.6064	80/20	0.6064
936161	AD2-022 C O1	4.1004	80/20	4.1004
936171	AD2-023 C O1	2.3919	80/20	2.3919
936265	AD2-033 C	23.6348	80/20	23.6348
936361	AD2-046 C O1	9.3324	80/20	9.3324
936485	AD2-063 C	23.7834	80/20	23.7834
937481	AD2-202 C O1	3.8360	80/20	3.8360
938371	AE1-056 C	16.5711	80/20	16.5711
939181	AE1-148 C	9.3242	80/20	9.3242
939941	AE1-230 C	0.3727	80/20	0.3727
940661	AE2-053 O1	3.4534	80/20	3.4534
941791	AE2-182 C	4.7192	80/20	4.7192
941801	AE2-185 C	1.8637	80/20	1.8637
941821	AE2-187 C	1.8637	80/20	1.8637
942451	AE2-258	3.2276	80/20	3.2276
942461	AE2-259 C O1	30.1788	80/20	30.1788
942671	AE2-283 C	2.0501	80/20	2.0501
942751	AE2-291 C	6.7081	80/20	6.7081
942761	AE2-292 C O1	8.3523	80/20	8.3523
943901	AF1-058 C	2.3154	80/20	2.3154
943911	AF1-059	15.5565	80/20	15.5565
945081	AF1-173	0.7222	80/20	0.7222
945811	AF1-246 C O1	12.6239	80/20	12.6239
946281	AF1-292 C	0.6035	80/20	0.6035
946301	AF1-294 C	10.1788	80/20	10.1788
957481	AF2-042 C	90.1710	80/20	90.1710
958211	AF2-115 C	5.9876	80/20	5.9876
958801	AF2-171 C	35.7867	80/20	35.7867
959311	AF2-222 C	33.1870	80/20	33.1870
959751	AF2-266	15.0290	80/20	15.0290
960061	AF2-297 C	9.2616	80/20	9.2616
960081	AF2-299 C	1.0172	80/20	1.0172
961121	AF2-403	0.4142	80/20	0.4142
961791	AG1-021 C	4.7900	80/20	4.7900
961891	AG1-030 C	33.4611	80/20	33.4611
962041	AG1-048 C	29.9378	80/20	29.9378
962441	AG1-093 C O1	18.4350	80/20	18.4350
962491	AG1-098 C O1	26.7862	80/20	26.7862
962561	AG1-105 C O1	16.8312	80/20	16.8312
963171	AG1-166 C	4.7900	80/20	4.7900
963181	AG1-167 C	4.7900	80/20	4.7900
963191	AG1-168 C	4.7900	80/20	4.7900
963201	AG1-169 C	4.7900	80/20	4.7900

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	4.7900	80/20	4.7900
963271	AG1-176 C O1	37.8534	80/20	37.8534
963301	AG1-179 C	4.3337	80/20	4.3337
963311	AG1-180	2.1115	80/20	2.1115
963321	AG1-181 C O1	31.0660	80/20	31.0660
963361	AG1-185 O1	15.0305	80/20	15.0305
963601	AG1-209 C	0.1450	80/20	0.1450
963641	AG1-215 C	2.2354	80/20	2.2354
964111	AG1-272 C	4.9447	80/20	4.9447
964121	AG1-273 C	4.9447	80/20	4.9447
964131	AG1-274 C	4.9447	80/20	4.9447
964141	AG1-275 C	0.6212	80/20	0.6212
964151	AG1-276 C	0.6212	80/20	0.6212
964241	AG1-285 C O1	19.0492	80/20	19.0492
964261	AG1-287 C	1.7365	80/20	1.7365
964471	AG1-310 C	2.3287	80/20	2.3287
964501	AG1-313 C O1	1.4714	80/20	1.4714
964791	AG1-342 C	5.2388	80/20	5.2388
964821	AG1-345 C	1.9116	80/20	1.9116
964841	AG1-347 C	23.6846	80/20	23.6846
965191	AG1-384 C	4.9447	80/20	4.9447
965281	AG1-393 C	4.7900	80/20	4.7900
965451	AG1-413 C O1	6.5394	80/20	6.5394
965591	AG1-427 C	18.1810	80/20	18.1810
965601	AG1-428 C O1	3.6179	80/20	3.6179
965641	AG1-432 C O1	60.3576	80/20	60.3576
965721	AG1-440 C	6.4480	80/20	6.4480
965731	AG1-441 C	6.4480	80/20	6.4480
965771	AG1-445	3.7255	80/20	3.7255
965781	AG1-446	3.7255	80/20	3.7255
965831	AG1-451	10.0596	80/20	10.0596
966621	AG1-532 C	0.5493	80/20	0.5493
966691	AG1-539 C	3.5075	80/20	3.5075
966751	AG1-546 C	10.8417	80/20	10.8417
966761	AG1-547 C	1.6846	80/20	1.6846
966811	AG1-552 C	0.8039	80/20	0.8039
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.0358	80/20	6.0358
WEC	WEC	0.2939	Confirmed LTF	0.2939
LGEE	LGEE	0.6051	Confirmed LTF	0.6051
CPLE	CPLE	3.6248	Confirmed LTF	3.6248
CBM-W2	CBM-W2	13.4490	Confirmed LTF	13.4490
NY	NY	0.4020	Confirmed LTF	0.4020
TVA	TVA	2.5732	Confirmed LTF	2.5732
SIGE	SIGE	0.1956	Confirmed LTF	0.1956
CBM-S2	CBM-S2	41.5512	Confirmed LTF	41.5512
CBM-S1	CBM-S1	0.6380	Confirmed LTF	0.6380
MEC	MEC	1.7940	Confirmed LTF	1.7940
LAGN	LAGN	3.1955	Confirmed LTF	3.1955
AA2-074	AA2-074	2.3936	LTF	2.3936
CBM-W1	CBM-W1	12.2254	Confirmed LTF	12.2254

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169114173	314686	6CLOVER	DVP	314690	6BLACK WALNU	DVP	1	DVP_P1-2: LN 556-C	single	814.98	114.52	119.98	DC	44.51

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6808	80/20	46.6808
315154	1CLOVER2	46.2156	80/20	46.2156
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934625	AD1-088 C	37.5628	80/20	37.5628
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
938371	AE1-056 C	5.9678	80/20	5.9678
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6406	80/20	6.6406
941791	AE2-182 C	6.1026	80/20	6.1026
942461	AE2-259 C O1	12.7938	80/20	12.7938
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1476	80/20	28.1476
946291	AF1-293 C O1	9.9685	80/20	9.9685
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0540	80/20	201.0540
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7666	80/20	11.7666
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5085	80/20	33.5085
960111	AF2-302 C	0.7429	80/20	0.7429
961061	AF2-397 C	7.7259	80/20	7.7259
961791	AG1-021 C	1.5832	80/20	1.5832

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961801	AG1-022 C	0.7429	80/20	0.7429
961891	AG1-030 C	9.9432	80/20	9.9432
962041	AG1-048 C	9.8947	80/20	9.8947
962491	AG1-098 C O1	44.5095	80/20	44.5095
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O1	45.3442	80/20	45.3442
963321	AG1-181 C O1	6.0674	80/20	6.0674
963361	AG1-185 O1	2.9356	80/20	2.9356
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O1	4.1950	80/20	4.1950
964821	AG1-345 C	0.6297	80/20	0.6297
964841	AG1-347 C	28.2369	80/20	28.2369
964931	AG1-357 C	80.4216	80/20	80.4216
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O1	25.5876	80/20	25.5876
965831	AG1-451	4.2646	80/20	4.2646
966791	AG1-550 O1	2.9092	80/20	2.9092
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.5588	80/20	2.5588
G-007A	G-007A	0.4507	Confirmed LTF	0.4507
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7005	Confirmed LTF	0.7005
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

11.6.11 Index 11

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169114169	314690	6BLACK WALNU	DVP	962560	AG1-105 TAP	DVP	1	DVP_P1-2: LN 556-C	single	814.98	123.13	128.59	DC	44.51

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6808	80/20	46.6808
315154	1CLOVER2	46.2156	80/20	46.2156
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934615	AD1-087 C	29.3393	80/20	29.3393
934625	AD1-088 C	37.5628	80/20	37.5628
935171	AD1-152 C O1	32.2262	80/20	32.2262
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
937481	AD2-202 C O1	8.5937	80/20	8.5937
938371	AE1-056 C	5.9678	80/20	5.9678
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6406	80/20	6.6406
941791	AE2-182 C	6.1026	80/20	6.1026
942461	AE2-259 C O1	12.7938	80/20	12.7938
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1476	80/20	28.1476
946291	AF1-293 C O1	9.9685	80/20	9.9685
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0540	80/20	201.0540
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7666	80/20	11.7666
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5085	80/20	33.5085

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960111	AF2-302 C	0.7429	80/20	0.7429
961061	AF2-397 C	7.7259	80/20	7.7259
961791	AG1-021 C	1.5832	80/20	1.5832
961801	AG1-022 C	0.7429	80/20	0.7429
961891	AG1-030 C	9.9432	80/20	9.9432
962041	AG1-048 C	9.8947	80/20	9.8947
962491	AG1-098 C O1	44.5095	80/20	44.5095
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O1	45.3442	80/20	45.3442
963321	AG1-181 C O1	6.0674	80/20	6.0674
963361	AG1-185 O1	2.9356	80/20	2.9356
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O1	4.1950	80/20	4.1950
964821	AG1-345 C	0.6297	80/20	0.6297
964841	AG1-347 C	28.2369	80/20	28.2369
964931	AG1-357 C	80.4216	80/20	80.4216
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O1	25.5876	80/20	25.5876
965831	AG1-451	4.2646	80/20	4.2646
966791	AG1-550 O1	2.9092	80/20	2.9092
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.5588	80/20	2.5588
G-007A	G-007A	0.4507	Confirmed LTF	0.4507
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7005	Confirmed LTF	0.7005
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

11.6.12 Index 12

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169114078	314692	6FARMVIL	DVP	314677	6BUCKING	DVP	1	DVP_P1-2: LN 556-B	single	559.3	166.72	171.51	DC	26.8

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.6741	80/20	2.6741
313527	AB2-043 C	0.6830	80/20	0.6830
313719	3CHESTNUT	0.3610	80/20	0.3610
314429	3JTRSVLE	1.0080	80/20	1.0080
314572	3EMPORIA	0.1686	80/20	0.1686
314623	3WITAKRS	0.0669	80/20	0.0669
314704	3LAWRENC	0.2000	80/20	0.2000
315126	1ROARAP2	0.5074	80/20	0.5074
315128	1ROARAP4	0.4842	80/20	0.4842
315153	1CLOVER1	20.9467	80/20	20.9467
315154	1CLOVER2	20.7379	80/20	20.7379
315156	1HALLBR1	0.5007	80/20	0.5007
315158	1KERR 1	0.3758	80/20	0.3758
315159	1KERR 2	1.0523	80/20	1.0523
315160	1KERR 3	1.0523	80/20	1.0523
315161	1KERR 4	1.0523	80/20	1.0523
315162	1KERR 5	1.0523	80/20	1.0523
315163	1KERR 6	1.0523	80/20	1.0523
315164	1KERR 7	1.0523	80/20	1.0523
315266	1PLYWOOD A	1.3876	80/20	1.3876
315606	3AA2-053SOLA	0.5104	80/20	0.5104
315607	3AA1-063SOLA	0.4369	80/20	0.4369
316087	AB2-174 C	0.4416	80/20	0.4416
316118	AC1-105 C	6.9179	80/20	6.9179
316123	AC1-075 C	0.7907	80/20	0.7907
316129	AC1-054 C	5.1963	80/20	5.1963
316131	AB2-060 C	2.0213	80/20	2.0213
920591	AA2-165 C	0.0485	80/20	0.0485
923991	AB2-040 C O1	2.9124	80/20	2.9124
924301	AB2-077 C O1 (Suspended)	2.6978	80/20	2.6978
924311	AB2-078 C O1 (Suspended)	2.6978	80/20	2.6978
924321	AB2-079 C O1 (Suspended)	2.6978	80/20	2.6978
925611	AC1-036 C	0.4353	80/20	0.4353
925661	AC1-042 C	0.8285	80/20	0.8285
926023	AC1-080 C	0.2642	80/20	0.2642
926645	AC1-145 C	0.1556	80/20	0.1556
927145	AC1-208 C	2.9650	80/20	2.9650
927251	AC1-221 C	1.6730	80/20	1.6730
927261	AC1-222 C	4.1099	80/20	4.1099

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932761	AC2-100 C	3.8502	80/20	3.8502
934311	AD1-055 C	2.8536	80/20	2.8536
934341	AD1-058 C	4.1940	80/20	4.1940
934615	AD1-087 C	13.1026	80/20	13.1026
934625	AD1-088 C	29.0577	80/20	29.0577
934991	AD1-131 C	1.3751	80/20	1.3751
935171	AD1-152 C O1	14.3918	80/20	14.3918
935221	AD1-157 C	0.6066	80/20	0.6066
936161	AD2-022 C O1	4.1088	80/20	4.1088
936171	AD2-023 C O1	2.3968	80/20	2.3968
936265	AD2-033 C	23.6457	80/20	23.6457
936361	AD2-046 C O1	9.3407	80/20	9.3407
936485	AD2-063 C	23.7960	80/20	23.7960
937481	AD2-202 C O1	3.8378	80/20	3.8378
938371	AE1-056 C	16.5765	80/20	16.5765
939181	AE1-148 C	9.3317	80/20	9.3317
939941	AE1-230 C	0.3738	80/20	0.3738
940661	AE2-053 O1	3.4562	80/20	3.4562
941791	AE2-182 C	4.7209	80/20	4.7209
941801	AE2-185 C	1.8688	80/20	1.8688
941821	AE2-187 C	1.8688	80/20	1.8688
942451	AE2-258	3.2296	80/20	3.2296
942461	AE2-259 C O1	30.1872	80/20	30.1872
942671	AE2-283 C	2.0556	80/20	2.0556
942751	AE2-291 C	6.7167	80/20	6.7167
942761	AE2-292 C O1	8.3629	80/20	8.3629
943901	AF1-058 C	2.3171	80/20	2.3171
943911	AF1-059	15.5704	80/20	15.5704
945081	AF1-173	0.7241	80/20	0.7241
945811	AF1-246 C O1	12.6298	80/20	12.6298
946281	AF1-292 C	0.6048	80/20	0.6048
946301	AF1-294 C	10.1827	80/20	10.1827
957481	AF2-042 C	90.2130	80/20	90.2130
958211	AF2-115 C	5.9898	80/20	5.9898
958801	AF2-171 C	35.7993	80/20	35.7993
959311	AF2-222 C	33.2020	80/20	33.2020
959751	AF2-266	15.0360	80/20	15.0360
960061	AF2-297 C	9.2683	80/20	9.2683
960081	AF2-299 C	1.0193	80/20	1.0193
961121	AF2-403	0.4153	80/20	0.4153
961791	AG1-021 C	4.7918	80/20	4.7918
961891	AG1-030 C	33.4746	80/20	33.4746
962041	AG1-048 C	29.9490	80/20	29.9490
962441	AG1-093 C O1	18.4478	80/20	18.4478
962491	AG1-098 C O1	26.7967	80/20	26.7967
962561	AG1-105 C O1	16.8396	80/20	16.8396
963171	AG1-166 C	4.7918	80/20	4.7918
963181	AG1-167 C	4.7918	80/20	4.7918
963191	AG1-168 C	4.7918	80/20	4.7918
963201	AG1-169 C	4.7918	80/20	4.7918
963211	AG1-170 C	4.7918	80/20	4.7918
963271	AG1-176 C O1	37.8660	80/20	37.8660

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963301	AG1-179 C	4.3384	80/20	4.3384
963311	AG1-180	2.1138	80/20	2.1138
963321	AG1-181 C O1	31.0801	80/20	31.0801
963361	AG1-185 O1	15.0374	80/20	15.0374
963601	AG1-209 C	0.1453	80/20	0.1453
963641	AG1-215 C	2.2362	80/20	2.2362
964111	AG1-272 C	4.9469	80/20	4.9469
964121	AG1-273 C	4.9469	80/20	4.9469
964131	AG1-274 C	4.9469	80/20	4.9469
964141	AG1-275 C	0.6229	80/20	0.6229
964151	AG1-276 C	0.6229	80/20	0.6229
964241	AG1-285 C O1	19.0605	80/20	19.0605
964261	AG1-287 C	1.7378	80/20	1.7378
964471	AG1-310 C	2.3305	80/20	2.3305
964501	AG1-313 C O1	1.4752	80/20	1.4752
964791	AG1-342 C	5.2424	80/20	5.2424
964821	AG1-345 C	1.9122	80/20	1.9122
964841	AG1-347 C	23.6925	80/20	23.6925
965191	AG1-384 C	4.9469	80/20	4.9469
965281	AG1-393 C	4.7918	80/20	4.7918
965451	AG1-413 C O1	6.5452	80/20	6.5452
965591	AG1-427 C	18.1909	80/20	18.1909
965601	AG1-428 C O1	3.6218	80/20	3.6218
965641	AG1-432 C O1	60.3744	80/20	60.3744
965721	AG1-440 C	6.4543	80/20	6.4543
965731	AG1-441 C	6.4543	80/20	6.4543
965771	AG1-445	3.7292	80/20	3.7292
965781	AG1-446	3.7292	80/20	3.7292
965831	AG1-451	10.0624	80/20	10.0624
966621	AG1-532 C	0.5504	80/20	0.5504
966691	AG1-539 C	3.5120	80/20	3.5120
966751	AG1-546 C	10.8553	80/20	10.8553
966761	AG1-547 C	1.6892	80/20	1.6892
966811	AG1-552 C	0.8056	80/20	0.8056
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.0374	80/20	6.0374
WEC	WEC	0.2983	Confirmed LTF	0.2983
LGEE	LGEE	0.6138	Confirmed LTF	0.6138
CPLE	CPLE	3.6343	Confirmed LTF	3.6343
CBM-W2	CBM-W2	13.5744	Confirmed LTF	13.5744
NY	NY	0.3943	Confirmed LTF	0.3943
TVA	TVA	2.5928	Confirmed LTF	2.5928
SIGE	SIGE	0.1956	Confirmed LTF	0.1956
CBM-S2	CBM-S2	41.6974	Confirmed LTF	41.6974
CBM-S1	CBM-S1	0.6433	Confirmed LTF	0.6433
MEC	MEC	1.8162	Confirmed LTF	1.8162
LAGN	LAGN	3.2200	Confirmed LTF	3.2200
AA2-074	AA2-074	2.3999	LTF	2.3999
CBM-W1	CBM-W1	12.4217	Confirmed LTF	12.4217

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169114105	314697	6SEDGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-C	single	674.92	149.23	154.35	DC	34.58

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9277	80/20	0.9277
315160	1KERR 3	0.9277	80/20	0.9277
315161	1KERR 4	0.9277	80/20	0.9277
315162	1KERR 5	0.9277	80/20	0.9277
315163	1KERR 6	0.9277	80/20	0.9277
315164	1KERR 7	0.9277	80/20	0.9277
315191	1BEARGRDN G1	3.3141	80/20	3.3141
315192	1BEARGRDN G2	3.3141	80/20	3.3141
315193	1BEARGRDN S1	4.2858	80/20	4.2858
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6956	80/20	14.6956
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	-2.4502	Adder	-2.88
927261	AC1-222 C	10.1051	80/20	10.1051
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3929	80/20	0.3929
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0162	80/20	7.0162
934341	AD1-058 C	-6.1424	Adder	-7.23

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934615	AD1-087 C	22.4303	80/20	22.4303
934625	AD1-088 C	29.6903	80/20	29.6903
935171	AD1-152 C O1	24.6374	80/20	24.6374
935221	AD1-157 C	0.3412	80/20	0.3412
936265	AD2-033 C	18.1139	80/20	18.1139
936361	AD2-046 C O1	8.4650	80/20	8.4650
936485	AD2-063 C	20.6649	80/20	20.6649
937481	AD2-202 C O1	6.5700	80/20	6.5700
938371	AE1-056 C	9.3221	80/20	9.3221
938561	AE1-075 C	0.1048	80/20	0.1048
938821	AE1-108 C O1	7.2807	80/20	7.2807
939181	AE1-148 C	8.5007	80/20	8.5007
939941	AE1-230 C	0.7209	80/20	0.7209
940661	AE2-053 O1	3.1484	80/20	3.1484
941011	AE2-092 C	6.3234	80/20	6.3234
941791	AE2-182 C	4.8236	80/20	4.8236
941801	AE2-185 C	3.6043	80/20	3.6043
941821	AE2-187 C	3.6043	80/20	3.6043
942451	AE2-258	3.2048	80/20	3.2048
942461	AE2-259 C O1	14.7132	80/20	14.7132
942671	AE2-283 C	3.9648	80/20	3.9648
942751	AE2-291 C	15.6354	80/20	15.6354
942761	AE2-292 C O1	19.4676	80/20	19.4676
943901	AF1-058 C	5.7308	80/20	5.7308
943911	AF1-059	14.4227	80/20	14.4227
945081	AF1-173	1.3967	80/20	1.3967
945811	AF1-246 C O1	21.5242	80/20	21.5242
946291	AF1-293 C O1	9.4568	80/20	9.4568
946301	AF1-294 C	6.0812	80/20	6.0812
946591	AF1-323 C	2.4073	80/20	2.4073
957481	AF2-042 C	153.7440	80/20	153.7440
958211	AF2-115 C	3.5772	80/20	3.5772
958501	AF2-144 C	0.5649	80/20	0.5649
958801	AF2-171 C	21.4497	80/20	21.4497
959311	AF2-222 C	23.4030	80/20	23.4030
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5206	80/20	0.5206
959751	AF2-266	25.6235	80/20	25.6235
960061	AF2-297 C	22.9234	80/20	22.9234
960111	AF2-302 C	0.8754	80/20	0.8754
961061	AF2-397 C	7.1206	80/20	7.1206
961121	AF2-403	0.8010	80/20	0.8010
961791	AG1-021 C	2.8618	80/20	2.8618
961801	AG1-022 C	0.8754	80/20	0.8754
961891	AG1-030 C	21.3030	80/20	21.3030
962041	AG1-048 C	17.8860	80/20	17.8860
962441	AG1-093 C O1	39.1883	80/20	39.1883
962491	AG1-098 C O1	34.5765	80/20	34.5765
962561	AG1-105 C O1	31.8432	80/20	31.8432
963171	AG1-166 C	2.8618	80/20	2.8618
963181	AG1-167 C	2.8618	80/20	2.8618
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O1	36.0621	80/20	36.0621
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O1	23.4953	80/20	23.4953
963361	AG1-185 O1	11.3677	80/20	11.3677
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O1	3.9711	80/20	3.9711
964241	AG1-285 C O1	17.1705	80/20	17.1705
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4655	80/20	22.4655
964931	AG1-357 C	61.4988	80/20	61.4988
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O1	6.0628	80/20	6.0628
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O1	3.1896	80/20	3.1896
965641	AG1-432 C O1	29.4264	80/20	29.4264
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9044	80/20	4.9044
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O1	2.6947	80/20	2.6947
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.9426	80/20	2.9426
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078
TRIMBLE	TRIMBLE	0.7618	Confirmed LTF	0.7618

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CATAWBA	CATAWBA	1.6965	Confirmed LTF	1.6965

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169333402	314747	6BREMO	DVP	313867	6BREMODIST	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	131.79	133.66	DC	12.39

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1780	80/20	2.1780
313527	AB2-043 C	0.4243	80/20	0.4243
314429	3JTRSVLE	0.6669	80/20	0.6669
314572	3EMPORIA	0.1382	80/20	0.1382
314677	6BUCKING	1.0571	80/20	1.0571
314704	3LAWRENC	0.1410	80/20	0.1410
315126	1ROARAP2	0.4085	80/20	0.4085
315128	1ROARAP4	0.3898	80/20	0.3898
315153	1CLOVER1	7.5116	80/20	7.5116
315154	1CLOVER2	7.4368	80/20	7.4368
315158	1KERR 1	0.2345	80/20	0.2345
315159	1KERR 2	0.6567	80/20	0.6567
315160	1KERR 3	0.6567	80/20	0.6567
315161	1KERR 4	0.6567	80/20	0.6567
315162	1KERR 5	0.6567	80/20	0.6567
315163	1KERR 6	0.6567	80/20	0.6567
315164	1KERR 7	0.6567	80/20	0.6567
315191	1BEARGRDN G1	18.4998	80/20	18.4998
315192	1BEARGRDN G2	18.4998	80/20	18.4998
315193	1BEARGRDN S1	23.9239	80/20	23.9239
315266	1PLYWOOD A	0.6737	80/20	0.6737
316087	AB2-174 C	0.3606	80/20	0.3606
316118	AC1-105 C	3.4200	80/20	3.4200
316123	AC1-075 C	0.3763	80/20	0.3763
316129	AC1-054 C	3.4710	80/20	3.4710
316131	AB2-060 C	1.2610	80/20	1.2610
923991	AB2-040 C O1	2.3720	80/20	2.3720
924301	AB2-077 C O1 (Suspended)	1.6661	80/20	1.6661
924311	AB2-078 C O1 (Suspended)	1.6661	80/20	1.6661
924321	AB2-079 C O1 (Suspended)	1.6661	80/20	1.6661
925611	AC1-036 C	0.2822	80/20	0.2822
926023	AC1-080 C	0.1258	80/20	0.1258
927251	AC1-221 C	0.7947	80/20	0.7947
927261	AC1-222 C	1.8844	80/20	1.8844
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.0415	80/20	1.0415
932761	AC2-100 C	1.8288	80/20	1.8288

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933501	AC2-165 C	34.9923	80/20	34.9923
934311	AD1-055 C	1.3084	80/20	1.3084
934341	AD1-058 C	1.9921	80/20	1.9921
934615	AD1-087 C	4.7030	80/20	4.7030
934625	AD1-088 C	15.3924	80/20	15.3924
934991	AD1-131 C	0.6532	80/20	0.6532
935171	AD1-152 C O1	5.1658	80/20	5.1658
935221	AD1-157 C	0.4035	80/20	0.4035
936265	AD2-033 C	15.2365	80/20	15.2365
936361	AD2-046 C O1	5.8230	80/20	5.8230
936485	AD2-063 C	15.0849	80/20	15.0849
937481	AD2-202 C O1	1.3775	80/20	1.3775
938371	AE1-056 C	11.0262	80/20	11.0262
938821	AE1-108 C O1	11.0132	80/20	11.0132
939181	AE1-148 C	5.8169	80/20	5.8169
940661	AE2-053 O1	2.1544	80/20	2.1544
941791	AE2-182 C	2.5007	80/20	2.5007
942451	AE2-258	2.0064	80/20	2.0064
942461	AE2-259 C O1	20.3100	80/20	20.3100
942751	AE2-291 C	3.2791	80/20	3.2791
942761	AE2-292 C O1	4.0828	80/20	4.0828
943901	AF1-058 C	1.0548	80/20	1.0548
943911	AF1-059	10.2781	80/20	10.2781
945811	AF1-246 C O1	3.6616	80/20	3.6616
946281	AF1-292 C	0.4969	80/20	0.4969
946291	AF1-293 C O1	6.2287	80/20	6.2287
946301	AF1-294 C	6.7368	80/20	6.7368
946591	AF1-323 C	3.5356	80/20	3.5356
957481	AF2-042 C	26.1540	80/20	26.1540
958131	AF2-107 C	1.6496	80/20	1.6496
958211	AF2-115 C	3.9629	80/20	3.9629
958801	AF2-171 C	23.6781	80/20	23.6781
959311	AF2-222 C	21.6010	80/20	21.6010
959751	AF2-266	5.3920	80/20	5.3920
960061	AF2-297 C	4.2192	80/20	4.2192
960081	AF2-299 C	0.8375	80/20	0.8375
960111	AF2-302 C	1.2857	80/20	1.2857
961791	AG1-021 C	3.1703	80/20	3.1703
961801	AG1-022 C	1.2857	80/20	1.2857
961891	AG1-030 C	22.0131	80/20	22.0131
962041	AG1-048 C	19.8142	80/20	19.8142
962441	AG1-093 C O1	9.1200	80/20	9.1200
962491	AG1-098 C O1	12.3900	80/20	12.3900
962561	AG1-105 C O1	6.1674	80/20	6.1674
963171	AG1-166 C	3.1703	80/20	3.1703
963181	AG1-167 C	3.1703	80/20	3.1703
963191	AG1-168 C	3.1703	80/20	3.1703
963201	AG1-169 C	3.1703	80/20	3.1703
963211	AG1-170 C	3.1703	80/20	3.1703
963271	AG1-176 C O1	20.7171	80/20	20.7171
963301	AG1-179 C	2.9803	80/20	2.9803
963311	AG1-180	1.4521	80/20	1.4521

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O1	20.0593	80/20	20.0593
963361	AG1-185 O1	9.7052	80/20	9.7052
963641	AG1-215 C	1.4795	80/20	1.4795
964111	AG1-272 C	3.2072	80/20	3.2072
964121	AG1-273 C	3.2072	80/20	3.2072
964131	AG1-274 C	3.2072	80/20	3.2072
964231	AG1-284 C O1	2.9513	80/20	2.9513
964241	AG1-285 C O1	12.0195	80/20	12.0195
964261	AG1-287 C	0.7911	80/20	0.7911
964471	AG1-310 C	1.0720	80/20	1.0720
964791	AG1-342 C	2.7843	80/20	2.7843
964821	AG1-345 C	1.2648	80/20	1.2648
964841	AG1-347 C	12.9875	80/20	12.9875
964931	AG1-357 C	8.6556	80/20	8.6556
965191	AG1-384 C	3.2072	80/20	3.2072
965281	AG1-393 C	3.1703	80/20	3.1703
965451	AG1-413 C O1	4.3205	80/20	4.3205
965581	AG1-426	2.3994	80/20	2.3994
965591	AG1-427 C	11.4819	80/20	11.4819
965601	AG1-428 C O1	2.4880	80/20	2.4880
965641	AG1-432 C O1	40.6200	80/20	40.6200
965721	AG1-440 C	4.1121	80/20	4.1121
965731	AG1-441 C	4.1121	80/20	4.1121
965771	AG1-445	2.3759	80/20	2.3759
965781	AG1-446	2.3759	80/20	2.3759
965831	AG1-451	6.7700	80/20	6.7700
966361	AG1-505 C	4.9734	80/20	4.9734
966371	AG1-506 C	4.9734	80/20	4.9734
966621	AG1-532 C	0.4522	80/20	0.4522
966691	AG1-539 C	1.7146	80/20	1.7146
966751	AG1-546 C	7.3410	80/20	7.3410
966811	AG1-552 C	0.6485	80/20	0.6485
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	4.0620	80/20	4.0620
WEC	WEC	0.0699	Confirmed LTF	0.0699
LGEE	LGEE	0.1483	Confirmed LTF	0.1483
CPL	CPL	2.3396	Confirmed LTF	2.3396
CBM-W2	CBM-W2	5.8061	Confirmed LTF	5.8061
NY	NY	0.4076	Confirmed LTF	0.4076
TVA	TVA	1.2558	Confirmed LTF	1.2558
SIGE	SIGE	0.1120	Confirmed LTF	0.1120
CBM-S2	CBM-S2	25.9121	Confirmed LTF	25.9121
CBM-S1	CBM-S1	0.2953	Confirmed LTF	0.2953
MEC	MEC	0.5863	Confirmed LTF	0.5863
LAGN	LAGN	1.5645	Confirmed LTF	1.5645
AA2-074	AA2-074	1.5426	LTF	1.5426
CBM-W1	CBM-W1	2.5236	Confirmed LTF	2.5236

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169333419	314747	6BREMO	DVP	314744	3BREMO	DVP	1	DVP_P1-2: LN 2193	single	269.78	121.03	123.2	DC	5.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.1964	80/20	0.1964
314333	6POWHATN	0.2978	80/20	0.2978
314429	3JTRSVLE	0.2939	80/20	0.2939
314677	6BUCKING	0.4512	80/20	0.4512
315153	1CLOVER1	3.8255	80/20	3.8255
315154	1CLOVER2	3.7873	80/20	3.7873
315191	1BEARGRDN G1	7.8222	80/20	7.8222
315192	1BEARGRDN G2	7.8222	80/20	7.8222
315193	1BEARGRDN S1	10.1156	80/20	10.1156
316131	AB2-060 C	0.5816	80/20	0.5816
924301	AB2-077 C O1 (Suspended)	0.7721	80/20	0.7721
924311	AB2-078 C O1 (Suspended)	0.7721	80/20	0.7721
924321	AB2-079 C O1 (Suspended)	0.7721	80/20	0.7721
925611	AC1-036 C	0.1263	80/20	0.1263
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4445	80/20	0.4445
932854	AC2-112 C	-5.0776	Adder	-5.97
933501	AC2-165 C	9.0146	80/20	9.0146
934615	AD1-087 C	2.3943	80/20	2.3943
934625	AD1-088 C	7.0229	80/20	7.0229
935171	AD1-152 C O1	2.6299	80/20	2.6299
935221	AD1-157 C	0.1771	80/20	0.1771
936265	AD2-033 C	6.8523	80/20	6.8523
936361	AD2-046 C O1	2.8074	80/20	2.8074
936485	AD2-063 C	6.8715	80/20	6.8715
937481	AD2-202 C O1	0.7013	80/20	0.7013
938371	AE1-056 C	4.8384	80/20	4.8384
938561	AE1-075 C	0.2589	80/20	0.2589
939181	AE1-148 C	2.7983	80/20	2.7983
940661	AE2-053 O1	1.0364	80/20	1.0364
941791	AE2-182 C	1.1410	80/20	1.1410
942451	AE2-258	0.9286	80/20	0.9286
942461	AE2-259 C O1	8.8338	80/20	8.8338
943911	AF1-059	5.2100	80/20	5.2100
946301	AF1-294 C	2.9685	80/20	2.9685
957911	AF2-085	1.1020	80/20	1.1020
958211	AF2-115 C	1.7462	80/20	1.7462
958501	AF2-144 C	1.3951	80/20	1.3951
958801	AF2-171 C	10.4355	80/20	10.4355

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959311	AF2-222 C	9.6430	80/20	9.6430
959531	AF2-244 C (Withdrawn : 01/06/2021)	1.2856	80/20	1.2856
959751	AF2-266	2.7460	80/20	2.7460
961791	AG1-021 C	1.3969	80/20	1.3969
961891	AG1-030 C	9.7452	80/20	9.7452
962041	AG1-048 C	8.7308	80/20	8.7308
962491	AG1-098 C O1	5.8538	80/20	5.8538
962561	AG1-105 C O1	3.1146	80/20	3.1146
963171	AG1-166 C	1.3969	80/20	1.3969
963181	AG1-167 C	1.3969	80/20	1.3969
963191	AG1-168 C	1.3969	80/20	1.3969
963201	AG1-169 C	1.3969	80/20	1.3969
963211	AG1-170 C	1.3969	80/20	1.3969
963271	AG1-176 C O1	9.3799	80/20	9.3799
963321	AG1-181 C O1	9.0112	80/20	9.0112
963361	AG1-185 O1	4.3598	80/20	4.3598
963641	AG1-215 C	0.6519	80/20	0.6519
964111	AG1-272 C	1.4356	80/20	1.4356
964121	AG1-273 C	1.4356	80/20	1.4356
964131	AG1-274 C	1.4356	80/20	1.4356
964241	AG1-285 C O1	5.4983	80/20	5.4983
964791	AG1-342 C	1.2713	80/20	1.2713
964821	AG1-345 C	0.5574	80/20	0.5574
964841	AG1-347 C	5.8772	80/20	5.8772
965191	AG1-384 C	1.4356	80/20	1.4356
965281	AG1-393 C	1.3969	80/20	1.3969
965451	AG1-413 C O1	2.1901	80/20	2.1901
965591	AG1-427 C	5.2486	80/20	5.2486
965641	AG1-432 C O1	17.6676	80/20	17.6676
965831	AG1-451	2.9446	80/20	2.9446
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	1.7668	80/20	1.7668
CPLE	CPLE	1.1821	Confirmed LTF	1.1821
NY	NY	0.0879	Confirmed LTF	0.0879
PRAIRIE	PRAIRIE	0.5734	Confirmed LTF	0.5734
CBM-S2	CBM-S2	10.8576	Confirmed LTF	10.8576
GIBSON	GIBSON	0.1900	Confirmed LTF	0.1900
BLUEG	BLUEG	0.6562	Confirmed LTF	0.6562
TRIMBLE	TRIMBLE	0.2137	Confirmed LTF	0.2137
LAGN	LAGN	0.0263	Confirmed LTF	0.0263

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169333392	314765	6MTEAGLE	DVP	314749	6CHARLVL	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	131.66	133.36	DC	11.29

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1286	80/20	0.1286
315153	1CLOVER1	6.8555	80/20	6.8555
315154	1CLOVER2	6.7871	80/20	6.7871
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6056	80/20	0.6056
315160	1KERR 3	0.6056	80/20	0.6056
315161	1KERR 4	0.6056	80/20	0.6056
315162	1KERR 5	0.6056	80/20	0.6056
315163	1KERR 6	0.6056	80/20	0.6056
315164	1KERR 7	0.6056	80/20	0.6056
315191	1BEARGRDN G1	16.8015	80/20	16.8015
315192	1BEARGRDN G2	16.8015	80/20	16.8015
315193	1BEARGRDN S1	21.7276	80/20	21.7276
315266	1PLYWOOD A	0.6337	80/20	0.6337
316118	AC1-105 C	3.2095	80/20	3.2095
316123	AC1-075 C	0.3995	80/20	0.3995
316129	AC1-054 C	3.1893	80/20	3.1893
316131	AB2-060 C	1.1579	80/20	1.1579
924301	AB2-077 C O1 (Suspended)	1.5318	80/20	1.5318
924311	AB2-078 C O1 (Suspended)	1.5318	80/20	1.5318
924321	AB2-079 C O1 (Suspended)	1.5318	80/20	1.5318
925611	AC1-036 C	0.2579	80/20	0.2579
926023	AC1-080 C	0.1335	80/20	0.1335
926451	AC1-116 C	0.5713	80/20	0.5713
927251	AC1-221 C	0.7553	80/20	0.7553
927261	AC1-222 C	1.8201	80/20	1.8201
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9462	80/20	0.9462
932761	AC2-100 C	1.7381	80/20	1.7381
933501	AC2-165 C	31.7798	80/20	31.7798
934311	AD1-055 C	1.2637	80/20	1.2637
934341	AD1-058 C	1.8933	80/20	1.8933
934615	AD1-087 C	4.2927	80/20	4.2927

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934625	AD1-088 C	14.0087	80/20	14.0087
934991	AD1-131 C	0.6208	80/20	0.6208
935171	AD1-152 C O1	4.7150	80/20	4.7150
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9363	80/20	13.9363
936361	AD2-046 C O1	5.3660	80/20	5.3660
936485	AD2-063 C	13.8249	80/20	13.8249
937481	AD2-202 C O1	1.2573	80/20	1.2573
938371	AE1-056 C	10.0469	80/20	10.0469
938821	AE1-108 C O1	34.7022	80/20	34.7022
939181	AE1-148 C	5.3595	80/20	5.3595
940661	AE2-053 O1	1.9850	80/20	1.9850
941011	AE2-092 C	28.7092	80/20	28.7092
941791	AE2-182 C	2.2759	80/20	2.2759
942451	AE2-258	1.8436	80/20	1.8436
942461	AE2-259 C O1	18.4818	80/20	18.4818
942751	AE2-291 C	3.6916	80/20	3.6916
942761	AE2-292 C O1	4.5964	80/20	4.5964
943901	AF1-058 C	0.9986	80/20	0.9986
943911	AF1-059	9.4111	80/20	9.4111
945811	AF1-246 C O1	3.3281	80/20	3.3281
946281	AF1-292 C	0.4501	80/20	0.4501
946291	AF1-293 C O1	46.3226	80/20	46.3226
946301	AF1-294 C	6.1424	80/20	6.1424
946591	AF1-323 C	11.1045	80/20	11.1045
957481	AF2-042 C	23.7720	80/20	23.7720
958131	AF2-107 C	5.0062	80/20	5.0062
958211	AF2-115 C	3.6132	80/20	3.6132
958801	AF2-171 C	21.5901	80/20	21.5901
959311	AF2-222 C	19.7350	80/20	19.7350
959751	AF2-266	4.9210	80/20	4.9210
960061	AF2-297 C	3.9946	80/20	3.9946
960081	AF2-299 C	0.7586	80/20	0.7586
960111	AF2-302 C	4.0380	80/20	4.0380
961061	AF2-397 C	49.3795	80/20	49.3795
961791	AG1-021 C	2.8906	80/20	2.8906
961801	AG1-022 C	4.0380	80/20	4.0380
961891	AG1-030 C	20.0853	80/20	20.0853
962041	AG1-048 C	18.0660	80/20	18.0660
962441	AG1-093 C O1	8.5588	80/20	8.5588
962491	AG1-098 C O1	11.2860	80/20	11.2860
962561	AG1-105 C O1	5.6484	80/20	5.6484
962741	AG1-123 C O1	3.4609	80/20	3.4609
962751	AG1-124 C O1	3.7955	80/20	3.7955
963171	AG1-166 C	2.8906	80/20	2.8906
963181	AG1-167 C	2.8906	80/20	2.8906
963191	AG1-168 C	2.8906	80/20	2.8906
963201	AG1-169 C	2.8906	80/20	2.8906
963211	AG1-170 C	2.8906	80/20	2.8906
963271	AG1-176 C O1	18.8522	80/20	18.8522
963301	AG1-179 C	2.7231	80/20	2.7231
963311	AG1-180	1.3268	80/20	1.3268

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O1	18.3438	80/20	18.3438
963361	AG1-185 O1	8.8752	80/20	8.8752
963641	AG1-215 C	1.3489	80/20	1.3489
964111	AG1-272 C	2.9313	80/20	2.9313
964121	AG1-273 C	2.9313	80/20	2.9313
964131	AG1-274 C	2.9313	80/20	2.9313
964231	AG1-284 C O1	20.2247	80/20	20.2247
964241	AG1-285 C O1	11.0228	80/20	11.0228
964261	AG1-287 C	0.7490	80/20	0.7490
964471	AG1-310 C	1.0445	80/20	1.0445
964791	AG1-342 C	2.5943	80/20	2.5943
964821	AG1-345 C	1.1533	80/20	1.1533
964841	AG1-347 C	11.8182	80/20	11.8182
964931	AG1-357 C	7.8312	80/20	7.8312
965191	AG1-384 C	2.9313	80/20	2.9313
965281	AG1-393 C	2.8906	80/20	2.8906
965451	AG1-413 C O1	3.9561	80/20	3.9561
965581	AG1-426	7.5604	80/20	7.5604
965591	AG1-427 C	10.5285	80/20	10.5285
965601	AG1-428 C O1	2.2733	80/20	2.2733
965641	AG1-432 C O1	36.9636	80/20	36.9636
965721	AG1-440 C	3.7881	80/20	3.7881
965731	AG1-441 C	3.7881	80/20	3.7881
965771	AG1-445	2.1887	80/20	2.1887
965781	AG1-446	2.1887	80/20	2.1887
965831	AG1-451	6.1606	80/20	6.1606
966251	AG1-494 C	1.8190	80/20	1.8190
966621	AG1-532 C	0.4096	80/20	0.4096
966691	AG1-539 C	1.9302	80/20	1.9302
966751	AG1-546 C	6.7407	80/20	6.7407
966791	AG1-550 O1	24.3684	80/20	24.3684
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6964	80/20	3.6964
WEC	WEC	0.1332	Confirmed LTF	0.1332
LGEE	LGEE	0.2859	Confirmed LTF	0.2859
CPL	CPL	2.2666	Confirmed LTF	2.2666
CBM-W2	CBM-W2	7.4995	Confirmed LTF	7.4995
NY	NY	0.4413	Confirmed LTF	0.4413
TVA	TVA	1.5190	Confirmed LTF	1.5190
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.1835	Confirmed LTF	26.1835
CBM-S1	CBM-S1	0.3690	Confirmed LTF	0.3690
MEC	MEC	0.9010	Confirmed LTF	0.9010
LAGN	LAGN	1.8743	Confirmed LTF	1.8743
AA2-074	AA2-074	1.4958	LTF	1.4958
CBM-W1	CBM-W1	5.2575	Confirmed LTF	5.2575

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163517423	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-C	single	718.0	152.24	157.06	DC	34.58

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9277	80/20	0.9277
315160	1KERR 3	0.9277	80/20	0.9277
315161	1KERR 4	0.9277	80/20	0.9277
315162	1KERR 5	0.9277	80/20	0.9277
315163	1KERR 6	0.9277	80/20	0.9277
315164	1KERR 7	0.9277	80/20	0.9277
315191	1BEARGRDN G1	3.3141	80/20	3.3141
315192	1BEARGRDN G2	3.3141	80/20	3.3141
315193	1BEARGRDN S1	4.2858	80/20	4.2858
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6956	80/20	14.6956
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	11.7174	80/20	11.7174
927261	AC1-222 C	10.1051	80/20	10.1051
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3929	80/20	0.3929
932761	AC2-100 C	26.9660	80/20	26.9660
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0162	80/20	7.0162

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934341	AD1-058 C	29.3737	80/20	29.3737
934615	AD1-087 C	22.4303	80/20	22.4303
934625	AD1-088 C	29.6903	80/20	29.6903
934991	AD1-131 C	9.6307	80/20	9.6307
935171	AD1-152 C O1	24.6374	80/20	24.6374
935221	AD1-157 C	0.3412	80/20	0.3412
936265	AD2-033 C	18.1139	80/20	18.1139
936361	AD2-046 C O1	8.4650	80/20	8.4650
936485	AD2-063 C	20.6649	80/20	20.6649
937481	AD2-202 C O1	6.5700	80/20	6.5700
938371	AE1-056 C	9.3221	80/20	9.3221
938561	AE1-075 C	0.1048	80/20	0.1048
938821	AE1-108 C O1	7.2807	80/20	7.2807
939181	AE1-148 C	8.5007	80/20	8.5007
939941	AE1-230 C	0.7209	80/20	0.7209
940661	AE2-053 O1	3.1484	80/20	3.1484
941011	AE2-092 C	6.3234	80/20	6.3234
941791	AE2-182 C	4.8236	80/20	4.8236
941801	AE2-185 C	3.6043	80/20	3.6043
941821	AE2-187 C	3.6043	80/20	3.6043
942451	AE2-258	3.2048	80/20	3.2048
942461	AE2-259 C O1	14.7132	80/20	14.7132
942671	AE2-283 C	3.9648	80/20	3.9648
942751	AE2-291 C	15.6354	80/20	15.6354
942761	AE2-292 C O1	19.4676	80/20	19.4676
943901	AF1-058 C	5.7308	80/20	5.7308
943911	AF1-059	14.4227	80/20	14.4227
945081	AF1-173	1.3967	80/20	1.3967
945811	AF1-246 C O1	21.5242	80/20	21.5242
946291	AF1-293 C O1	9.4568	80/20	9.4568
946301	AF1-294 C	6.0812	80/20	6.0812
946591	AF1-323 C	2.4073	80/20	2.4073
957481	AF2-042 C	153.7440	80/20	153.7440
958211	AF2-115 C	3.5772	80/20	3.5772
958501	AF2-144 C	0.5649	80/20	0.5649
958801	AF2-171 C	21.4497	80/20	21.4497
959311	AF2-222 C	23.4030	80/20	23.4030
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5206	80/20	0.5206
959751	AF2-266	25.6235	80/20	25.6235
960061	AF2-297 C	22.9234	80/20	22.9234
960111	AF2-302 C	0.8754	80/20	0.8754
961061	AF2-397 C	7.1206	80/20	7.1206
961121	AF2-403	0.8010	80/20	0.8010
961791	AG1-021 C	2.8618	80/20	2.8618
961801	AG1-022 C	0.8754	80/20	0.8754
961891	AG1-030 C	21.3030	80/20	21.3030
962041	AG1-048 C	17.8860	80/20	17.8860
962441	AG1-093 C O1	39.1883	80/20	39.1883
962491	AG1-098 C O1	34.5765	80/20	34.5765
962561	AG1-105 C O1	31.8432	80/20	31.8432
963171	AG1-166 C	2.8618	80/20	2.8618
963181	AG1-167 C	2.8618	80/20	2.8618

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O1	36.0621	80/20	36.0621
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O1	23.4953	80/20	23.4953
963361	AG1-185 O1	11.3677	80/20	11.3677
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O1	3.9711	80/20	3.9711
964241	AG1-285 C O1	17.1705	80/20	17.1705
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4655	80/20	22.4655
964931	AG1-357 C	61.4988	80/20	61.4988
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O1	6.0628	80/20	6.0628
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O1	3.1896	80/20	3.1896
965641	AG1-432 C O1	29.4264	80/20	29.4264
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9044	80/20	4.9044
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O1	2.6947	80/20	2.6947
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.9426	80/20	2.9426
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078
TRIMBLE	TRIMBLE	0.7618	Confirmed LTF	0.7618
CATAWBA	CATAWBA	1.6965	Confirmed LTF	1.6965

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169563611	933500	AC2-165 TAP	DVP	314333	6POWHATN	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.88	101.68	102.7	DC	8.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2811	80/20	0.2811
314429	3JTRSVLE	0.4835	80/20	0.4835
314677	6BUCKING	0.8051	80/20	0.8051
315153	1CLOVER1	4.3284	80/20	4.3284
315154	1CLOVER2	4.2852	80/20	4.2852
315158	1KERR 1	0.1411	80/20	0.1411
315159	1KERR 2	0.3952	80/20	0.3952
315160	1KERR 3	0.3952	80/20	0.3952
315161	1KERR 4	0.3952	80/20	0.3952
315162	1KERR 5	0.3952	80/20	0.3952
315163	1KERR 6	0.3952	80/20	0.3952
315164	1KERR 7	0.3952	80/20	0.3952
315191	1BEARGRDN G1	14.2615	80/20	14.2615
315192	1BEARGRDN G2	14.2615	80/20	14.2615
315193	1BEARGRDN S1	18.4429	80/20	18.4429
315266	1PLYWOOD A	0.4253	80/20	0.4253
316118	AC1-105 C	2.1876	80/20	2.1876
316131	AB2-060 C	0.8407	80/20	0.8407
924301	AB2-077 C O1 (Suspended)	1.0994	80/20	1.0994
924311	AB2-078 C O1 (Suspended)	1.0994	80/20	1.0994
924321	AB2-079 C O1 (Suspended)	1.0994	80/20	1.0994
925611	AC1-036 C	0.1990	80/20	0.1990
927261	AC1-222 C	1.2313	80/20	1.2313
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7932	80/20	0.7932
933501	AC2-165 C	39.2445	80/20	39.2445
934311	AD1-055 C	0.8549	80/20	0.8549
934615	AD1-087 C	2.7103	80/20	2.7103
934625	AD1-088 C	10.6986	80/20	10.6986
935171	AD1-152 C O1	2.9770	80/20	2.9770
935221	AD1-157 C	0.2946	80/20	0.2946
936265	AD2-033 C	10.6548	80/20	10.6548
936361	AD2-046 C O1	3.5828	80/20	3.5828
936485	AD2-063 C	10.3014	80/20	10.3014
937481	AD2-202 C O1	0.7939	80/20	0.7939
938371	AE1-056 C	8.0514	80/20	8.0514
938821	AE1-108 C O1	29.3769	80/20	29.3769

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939181	AE1-148 C	3.5932	80/20	3.5932
940661	AE2-053 O1	1.3308	80/20	1.3308
941011	AE2-092 C	25.2830	80/20	25.2830
941791	AE2-182 C	1.7381	80/20	1.7381
942451	AE2-258	1.3292	80/20	1.3292
942461	AE2-259 C O1	15.0522	80/20	15.0522
943901	AF1-058 C	0.6646	80/20	0.6646
943911	AF1-059	5.9093	80/20	5.9093
946291	AF1-293 C O1	39.5443	80/20	39.5443
946301	AF1-294 C	4.8845	80/20	4.8845
946591	AF1-323 C	9.4261	80/20	9.4261
958131	AF2-107 C	4.3750	80/20	4.3750
958211	AF2-115 C	2.8733	80/20	2.8733
958801	AF2-171 C	17.1603	80/20	17.1603
959311	AF2-222 C	15.3100	80/20	15.3100
959751	AF2-266	3.1070	80/20	3.1070
960061	AF2-297 C	2.6582	80/20	2.6582
960111	AF2-302 C	3.4277	80/20	3.4277
961061	AF2-397 C	36.6545	80/20	36.6545
961791	AG1-021 C	2.2986	80/20	2.2986
961801	AG1-022 C	3.4277	80/20	3.4277
961891	AG1-030 C	15.8319	80/20	15.8319
962041	AG1-048 C	14.3663	80/20	14.3663
962441	AG1-093 C O1	5.8337	80/20	5.8337
962491	AG1-098 C O1	8.1622	80/20	8.1622
962561	AG1-105 C O1	3.5664	80/20	3.5664
962741	AG1-123 C O1	3.1842	80/20	3.1842
962751	AG1-124 C O1	3.5741	80/20	3.5741
963171	AG1-166 C	2.2986	80/20	2.2986
963181	AG1-167 C	2.2986	80/20	2.2986
963191	AG1-168 C	2.2986	80/20	2.2986
963201	AG1-169 C	2.2986	80/20	2.2986
963211	AG1-170 C	2.2986	80/20	2.2986
963271	AG1-176 C O1	14.5637	80/20	14.5637
963321	AG1-181 C O1	14.0576	80/20	14.0576
963361	AG1-185 O1	6.8014	80/20	6.8014
963641	AG1-215 C	1.0727	80/20	1.0727
964111	AG1-272 C	2.2621	80/20	2.2621
964121	AG1-273 C	2.2621	80/20	2.2621
964131	AG1-274 C	2.2621	80/20	2.2621
964231	AG1-284 C O1	17.0012	80/20	17.0012
964241	AG1-285 C O1	8.1450	80/20	8.1450
964261	AG1-287 C	0.4984	80/20	0.4984
964471	AG1-310 C	0.7118	80/20	0.7118
964791	AG1-342 C	1.8023	80/20	1.8023
964821	AG1-345 C	0.9169	80/20	0.9169
964841	AG1-347 C	9.1358	80/20	9.1358
965191	AG1-384 C	2.2621	80/20	2.2621
965281	AG1-393 C	2.2986	80/20	2.2986
965451	AG1-413 C O1	2.4841	80/20	2.4841
965581	AG1-426	6.4002	80/20	6.4002
965591	AG1-427 C	7.7911	80/20	7.7911

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965641	AG1-432 C O1	30.1044	80/20	30.1044
965721	AG1-440 C	2.3620	80/20	2.3620
965731	AG1-441 C	2.3620	80/20	2.3620
965771	AG1-445	1.3647	80/20	1.3647
965781	AG1-446	1.3647	80/20	1.3647
965831	AG1-451	5.0174	80/20	5.0174
966251	AG1-494 C	1.6494	80/20	1.6494
966791	AG1-550 O1	16.4475	80/20	16.4475
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0104	80/20	3.0104
WEC	WEC	0.1988	Confirmed LTF	0.1988
LGEE	LGEE	0.4247	Confirmed LTF	0.4247
CPL	CPL	1.0859	Confirmed LTF	1.0859
CBM-W2	CBM-W2	7.3114	Confirmed LTF	7.3114
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.3104	Confirmed LTF	1.3104
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.4907	Confirmed LTF	14.4907
CBM-S1	CBM-S1	0.3374	Confirmed LTF	0.3374
MEC	MEC	1.1075	Confirmed LTF	1.1075
LAGN	LAGN	1.5942	Confirmed LTF	1.5942
CBM-W1	CBM-W1	8.3419	Confirmed LTF	8.3419

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169563495	934620	AD1-088 TAP	DVP	963270	AG1-176 TAP	DVP	1	DVP_P1-2: LN 556-C	single	571.52	123.03	128.31	DC	30.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964931	AG1-357 C	39.0228	80/20	39.0228
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIG	SIG	0.1586	Confirmed LTF	0.1586

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169868096	961060	AF2-397 TAP	DVP	966790	AG1-550 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	135.23	136.93	DC	11.29

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0108	80/20	14.0108

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9386	80/20	13.9386
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8276	80/20	13.8276
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0480	80/20	10.0480
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2763	80/20	2.2763
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4836	80/20	18.4836
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9989	80/20	0.9989
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1432	80/20	6.1432
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6137	80/20	3.6137
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7380	80/20	19.7380
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9955	80/20	3.9955
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961061	AF2-397 C	49.3810	80/20	49.3810
961791	AG1-021 C	2.8909	80/20	2.8909
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0682	80/20	18.0682
962441	AG1-093 C O1	8.5606	80/20	8.5606
962491	AG1-098 C O1	11.2875	80/20	11.2875
962561	AG1-105 C O1	5.6502	80/20	5.6502
962741	AG1-123 C O1	3.4622	80/20	3.4622
962751	AG1-124 C O1	3.7973	80/20	3.7973
963171	AG1-166 C	2.8909	80/20	2.8909
963181	AG1-167 C	2.8909	80/20	2.8909
963191	AG1-168 C	2.8909	80/20	2.8909
963201	AG1-169 C	2.8909	80/20	2.8909
963211	AG1-170 C	2.8909	80/20	2.8909
963271	AG1-176 C O1	18.8540	80/20	18.8540
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O1	18.3458	80/20	18.3458

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O1	8.8762	80/20	8.8762
963641	AG1-215 C	1.3491	80/20	1.3491
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O1	20.2255	80/20	20.2255
964241	AG1-285 C O1	11.0250	80/20	11.0250
964261	AG1-287 C	0.7492	80/20	0.7492
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8194	80/20	11.8194
964931	AG1-357 C	7.8348	80/20	7.8348
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8909	80/20	2.8909
965451	AG1-413 C O1	3.9569	80/20	3.9569
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299
965601	AG1-428 C O1	2.2741	80/20	2.2741
965641	AG1-432 C O1	36.9672	80/20	36.9672
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1612	80/20	6.1612
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6967	80/20	3.6967
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPLE	CPLE	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169563509	962490	AG1-098 TAP	DVP	934620	AD1-088 TAP	DVP	1	DVP_P1-2: LN 556-C	single	571.52	116.29	121.56	DC	30.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964931	AG1-357 C	39.0228	80/20	39.0228
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169114149	962560	AG1-105 TAP	DVP	314697	6SEGE HILL	DVP	1	DVP_P1-2: LN 556-C	single	814.98	123.13	128.59	DC	44.51

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6808	80/20	46.6808
315154	1CLOVER2	46.2156	80/20	46.2156
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934615	AD1-087 C	29.3393	80/20	29.3393
934625	AD1-088 C	37.5628	80/20	37.5628
935171	AD1-152 C O1	32.2262	80/20	32.2262
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
937481	AD2-202 C O1	8.5937	80/20	8.5937
938371	AE1-056 C	5.9678	80/20	5.9678
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6406	80/20	6.6406
941791	AE2-182 C	6.1026	80/20	6.1026
942461	AE2-259 C O1	12.7938	80/20	12.7938
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1476	80/20	28.1476
946291	AF1-293 C O1	9.9685	80/20	9.9685
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0540	80/20	201.0540
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7666	80/20	11.7666
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5085	80/20	33.5085

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960111	AF2-302 C	0.7429	80/20	0.7429
961061	AF2-397 C	7.7259	80/20	7.7259
961791	AG1-021 C	1.5832	80/20	1.5832
961801	AG1-022 C	0.7429	80/20	0.7429
961891	AG1-030 C	9.9432	80/20	9.9432
962041	AG1-048 C	9.8947	80/20	9.8947
962491	AG1-098 C O1	44.5095	80/20	44.5095
962561	AG1-105 C O1	41.8428	80/20	41.8428
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O1	45.3442	80/20	45.3442
963321	AG1-181 C O1	6.0674	80/20	6.0674
963361	AG1-185 O1	2.9356	80/20	2.9356
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O1	4.1950	80/20	4.1950
964821	AG1-345 C	0.6297	80/20	0.6297
964841	AG1-347 C	28.2369	80/20	28.2369
964931	AG1-357 C	80.4216	80/20	80.4216
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O1	25.5876	80/20	25.5876
965831	AG1-451	4.2646	80/20	4.2646
966791	AG1-550 O1	2.9092	80/20	2.9092
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.5588	80/20	2.5588
G-007A	G-007A	0.4507	Confirmed LTF	0.4507
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7005	Confirmed LTF	0.7005
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

11.6.23 Index 23

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169868138	963270	AG1-176 TAP	DVP	964840	AG1-347 TAP	DVP	1	DVP_P1-2: LN 556-B	single	571.52	123.05	128.32	DC	30.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

11.6.24 Index 24

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168643314	964840	AG1-347 TAP	DVP	314268	6BRIERY	DVP	1	DVP_P1-2: LN 556-B	single	571.52	123.05	128.32	DC	30.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964841	AG1-347 C	27.5044	80/20	27.5044
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

11.6.25 Index 25

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169868106	966790	AG1-550 TAP	DVP	314765	6MTEAGLE	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	135.2	136.9	DC	11.29

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0108	80/20	14.0108

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9386	80/20	13.9386
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8276	80/20	13.8276
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0480	80/20	10.0480
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2763	80/20	2.2763
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4836	80/20	18.4836
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9989	80/20	0.9989
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1432	80/20	6.1432
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6137	80/20	3.6137
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7380	80/20	19.7380
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9955	80/20	3.9955
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961061	AF2-397 C	49.3810	80/20	49.3810
961791	AG1-021 C	2.8909	80/20	2.8909
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0682	80/20	18.0682
962441	AG1-093 C O1	8.5606	80/20	8.5606
962491	AG1-098 C O1	11.2875	80/20	11.2875
962561	AG1-105 C O1	5.6502	80/20	5.6502
962741	AG1-123 C O1	3.4622	80/20	3.4622
962751	AG1-124 C O1	3.7973	80/20	3.7973
963171	AG1-166 C	2.8909	80/20	2.8909
963181	AG1-167 C	2.8909	80/20	2.8909
963191	AG1-168 C	2.8909	80/20	2.8909
963201	AG1-169 C	2.8909	80/20	2.8909
963211	AG1-170 C	2.8909	80/20	2.8909
963271	AG1-176 C O1	18.8540	80/20	18.8540
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O1	18.3458	80/20	18.3458

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O1	8.8762	80/20	8.8762
963641	AG1-215 C	1.3491	80/20	1.3491
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O1	20.2255	80/20	20.2255
964241	AG1-285 C O1	11.0250	80/20	11.0250
964261	AG1-287 C	0.7492	80/20	0.7492
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8194	80/20	11.8194
964931	AG1-357 C	7.8348	80/20	7.8348
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8909	80/20	2.8909
965451	AG1-413 C O1	3.9569	80/20	3.9569
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299
965601	AG1-428 C O1	2.2741	80/20	2.2741
965641	AG1-432 C O1	36.9672	80/20	36.9672
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1612	80/20	6.1612
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966791	AG1-550 O1	24.3694	80/20	24.3694
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6967	80/20	3.6967
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPL	CPL	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

11.7 Queue Dependencies

The Queue Projects below are listed in one or more indices for the overloads identified in your report. These projects contribute to the loading of the overloaded facilities identified in your report. The percent overload of a facility and cost allocation you may have towards a particular reinforcement could vary depending on the action of these earlier projects. The status of each project at the time of the analysis is presented in the table. This list may change as earlier projects withdraw or modify their requests.

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA2-053	Carolina-Jackson 115kV	In Service
AA2-074	CPLP-PJM	Confirmed
AA2-088	Boykins-Handsome 115kV	In Service
AA2-165	Hornertown-Whitakers 115kV	In Service
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-015	Franklin 115kV	Engineering and Procurement
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-059	Benson-Dunbar 115kV	Partially in Service - Under Construction
AB2-060	Chase City-Lunenburg 115kV	In Service
AB2-077	Buggs Island-Chase City 115kV	Suspended
AB2-078	Buggs Island-Chase City 115kV	Suspended
AB2-079	Buggs Island-Chase City 115kV	Suspended
AB2-099	Ahoskie 34.5kV	Suspended
AB2-100	Clubhouse-Lakeview 230kV	Partially in Service - Under Construction
AB2-169	Pantago-Five Points 115kV	Partially in Service - Under Construction
AB2-174	Emporia-Trego 115kV	In Service
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-042	Altavista-Mt. Airy 69kV	Engineering and Procurement
AC1-054	Kerr Dam-Eatons Ferry 115 kV	Engineering and Procurement
AC1-075	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-080	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-083	Smith Mountain-Bearskin 138kV	Active
AC1-086	Thelma 230kV	Active
AC1-098	Dawson-South Justice 115kV	Engineering and Procurement
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-116	Mount Eagle 34.5kV	Engineering and Procurement
AC1-131	PJM-CPLP	Confirmed
AC1-145	Gretna DP 69 kV	Engineering and Procurement
AC1-189	Chinquapin-Everetts 230kV	Active
AC1-208	Cox-Whitakers 115kV	Engineering and Procurement
AC1-221	Halifax-Person 230kV	Engineering and Procurement
AC1-222	Crystal Hill-Halifax 115kV	Engineering and Procurement
AC2-012	Grassfield-Great Bridge 115kV	Active
AC2-071	Buckingham 35kV	Withdrawn

Queue Number	Project Name	Status
AC2-079	Ivor-Oak Ridge 115kV	Engineering and Procurement
AC2-084	Dawson-South Justice 115kV	Active
AC2-100	Halifax-Person 230kV	Engineering and Procurement
AC2-112	Stuarts Draft-Waynesboro 115kV	Engineering and Procurement
AC2-165	Bremo-Powhatan 230kV	Engineering and Procurement
AD1-017	Smith Mountain-Bearskin 138 kV	Active
AD1-023	Cashie-Trowbridge 230 kV	Active
AD1-033	Fentress-Landstown 230 kV	Engineering and Procurement
AD1-055	Crystal Hill-Halifax 115 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-058	Halifax-Person 230 kV	Engineering and Procurement
AD1-076	Trowbridge 230 kV	Active
AD1-087	Clover-Sedge Hill 230 kV	Active
AD1-088	Briery-Clover 230 kV	Active
AD1-131	Sedge Hill-Person 230 kV	Engineering and Procurement
AD1-152	Clover-Sedge Hill 230 kV	Active
AD1-157	South Creek 34.5 kV	Engineering and Procurement
AD2-022	East Danville-Roxborough 230 kV	Active
AD2-023	E. Danville-Roxborough 230 kV	Active
AD2-033	Chase City-Lunenburg 115 kV	Active
AD2-046	Boynton DP-Kerr Dam 115 kV	Active
AD2-051	Earleys – Northampton 230kV	Active
AD2-063	Central-Chase City 115kV	Active
AD2-085	Myrtle-Windsor DP 115kV	Active
AD2-160	Hickory-Moyock 230kV	Active
AD2-202	Clover-Sedge Hill 230kV	Active
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-056	Red House-South Creek 115 kV	Active
AE1-068	Carson-Rogers Rd 500 kV	Active
AE1-069	Carson-Rogers Road 500 kV	Active
AE1-072	Shawboro-Sligo 230 kV	Active
AE1-075	Powhatan 34.5 kV	Engineering and Procurement
AE1-103	Holland-Union Camp 115 kV	Active
AE1-108	Bremo-Scottsville 138 kV	Active
AE1-148	Kerr Dam-Ridge Rd 115 kV	Active
AE1-173	Carson-Suffolk 500 kV	Active
AE1-230	Shockoe 69 kV	Active
AE1-250	Smith Mountain-E. Danville 138 kV	Active
AE2-000B	N/A	N/A
AE2-007	Chesapeake 230 kV	Withdrawn
AE2-031	Carson-Rawlings 500 kV	Active
AE2-033	Clubhouse-Sappony 230 kV	Active
AE2-034	Mackeys 230 kV	Active
AE2-040	Sapony 34.5 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-051	Carson-Septa 500 kV	Active
AE2-053	Kerr Dam-Ridge Road 115 kV	Active
AE2-092	Kidds Store-Sherwood 115 kV	Active
AE2-094	Carson-Rogers Road 500 kV	Active
AE2-104	Suffolk 115 kV	Active
AE2-122	Birdneck-Landstown 230 kV	Active
AE2-123	Birdneck-Landstown 230 kV	Active

Queue Number	Project Name	Status
AE2-124	Landstown 230 kV	Active
AE2-147	Swamp 230 kV	Active
AE2-151	Earleys 34.5kV	Withdrawn
AE2-156	Yadkin 115 kV	Active
AE2-182	Briery-Clover 230 kV	Active
AE2-185	Gladys DP-Stonemill Switching Station 69 kV	Active
AE2-187	Shockoe DP-Chatham 69 kV	Active
AE2-225	Suffolk 34 kV	Engineering and Procurement
AE2-229	Suffolk 34 kV	Engineering and Procurement
AE2-247	Myrtle-Windsor 115 kV	Active
AE2-253	Hickory-Moyock 230 kV	Active
AE2-258	Chase City 115 kV	Active
AE2-259	Curdsville-Willis Mtn 115 kV	Active
AE2-260	Clubhouse 230 kV	Active
AE2-283	Gladys-Stone Mill 69 kV	Active
AE2-291	Grit DP-Perth 115 kV	Active
AE2-292	Grit DP-Perth 115 kV	Active
AE2-313	Carson-Rawlings 500 kV	Active
AE2-346	Ahoskie 34.5 kV	Active
AF1-017	Myrtle-Windsor 115 kV	Active
AF1-032	Suffolk 34.5 kV	Engineering and Procurement
AF1-058	Welco 34.5 kV	Engineering and Procurement
AF1-059	Brodnax-South Hill 115 kV	Active
AF1-069	Carson-Rogers Rd 500 kV	Active
AF1-082	Heartsease-Mayo Dunbar DP	Active
AF1-123	Fentress 500 kV	Active
AF1-124	Fentress 500 kV	Active
AF1-125	Fentress 500 kV	Active
AF1-152	Swamp 230 kV	Active
AF1-173	Gretna DP-Shockoe DP 69 kV	Active
AF1-236	Mackeys 230 kV	Active
AF1-246	Clover-Rawlings 500 kV	Active
AF1-266	Clubhouse-Sapony 230 kV	Active
AF1-292	Fields 34.5kV	Active
AF1-293	Kidds Store-Fort Union 115 kV	Active
AF1-294	Jetersville-Ponton 115 kV	Active
AF1-323	Scottsville-Colleen 138 kV	Active
AF2-042	Clover-Rawlings 500 kV	Active
AF2-043	Suffolk 34.5 kV	Engineering and Procurement
AF2-046	Tunis-Mapleton 115 kV	Active
AF2-047	Creswell-Riders Creek 115 kV	Active
AF2-057	Grassfield 34.5 kV	Active
AF2-076	Suffolk-Nucor Steel 230 kV	Active
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-081	Moyock 230 kV	Active
AF2-085	Midlothian 34.5 kV	Engineering and Procurement
AF2-107	Clifford 138 kV	Active
AF2-110	Suffolk 115 kV	Active
AF2-115	Jetersville-Ponton 115 kV	Active
AF2-144	Powhatan 34.5 kV	Active
AF2-171	Madisonville 115 kV	Active
AF2-222	Madisonville DP-Twitty's Creek 115 kV	Active

Queue Number	Project Name	Status
AF2-242	Wharton 115 kV	Active
AF2-244	Powhatan 34.5 kV	Withdrawn
AF2-266	Clover 230 kV	Active
AF2-297	Sedge Hill 115 kV	Active
AF2-299	Fields 34.5 kV	Active
AF2-302	Scottsville-Colleen 138 kV	Active
AF2-397	Fork Union-Mt. Eagle 230 kV	Active
AF2-400	Franklin 13.2 kV	Engineering and Procurement
AF2-403	Shockoe DP-Chatham 69 kV	
AG1-007	Tar River 12.5 kV	Active
AG1-008	Tunis-Mapleton 115 kV	Active
AG1-021	Jetersville-Ponton 115 kV	Active
AG1-022	Scottsville-Colleen 138 kV	Active
AG1-027	Suffolk-Holland 115 kV	Active
AG1-030	Victoria DP-Martin DP 115 kV	Active
AG1-036	Tunis 34.5 kV	Active
AG1-037	Ahoskie 34.5 kV	Active
AG1-048	Jetersville-Ponton 115 kV	Active
AG1-082	Ahoskie 34.5 kV	Active
AG1-083	Ahoskie 34.5 kV	Active
AG1-084	Earlys 34.5 kV	Active
AG1-085	Earlys 34.5	Active
AG1-093	Halifax-Chase City 115 kV	Active
AG1-098	Briery-Clover 230 kV	Active
AG1-105	Clover-Sedge Hill 230 kV	Active
AG1-106	Thelma 230 kV	Active
AG1-123	Amherst-Riverville 138 kV	Active
AG1-124	Gladstone 138 kV	Active
AG1-153	Heritage 500 kV	Active
AG1-160	Rogers Road 500 kV	Active
AG1-166	Lone Pine 115 kV	Active
AG1-167	Lone Pine 115 kV	Active
AG1-168	Lone Pine 115 kV	Active
AG1-169	Lone Pine 115 kV	Active
AG1-170	Lone Pine 115 kV	Active
AG1-176	Briery-Clover 230 kV	Active
AG1-178	Carson-Septa 500 kV	Active
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 kV	Active
AG1-184	Carson-Septa 500 kV	Active
AG1-185	Pamplin-Chase City 115 kV	Active
AG1-209	Gretna 12.5 kV	Active
AG1-215	Fort Pickett 13.2 kV	Active
AG1-235	Fentress-Sligo 230 kV	Active
AG1-272	Twitty's Creek 115 kV	Active
AG1-273	Twitty's Creek 115 kV	Active
AG1-274	Twitty's Creek 115 kV	Active
AG1-275	Gladys DP-Stone Mill 69 kV	Active
AG1-276	Gladys DP-Stone Mill 69 kV	Active
AG1-284	Bremo-Cunningham DP 115 kV	Active
AG1-285	Chase City-Central 115 kV	Active

Queue Number	Project Name	Status
AG1-286	Johnson Mountain 138 kV	Active
AG1-287	South Boston 12.5 kV	Active
AG1-310	Crystal Hill-Perth 115 kV	Active
AG1-312	Earleys-Cashie 230 kV	Active
AG1-313	Jackson DP-Occoneechee 115 kV	Active
AG1-342	Dryburg 115 kV	Active
AG1-343	Boykins-Murphy 115 kV	Active
AG1-345	Crewe 12.5 kV	Active
AG1-347	Briery DP-Clover 230 kV	Active
AG1-357	Clover-Rawlins 500 kV	Active
AG1-359	Fentress 230 kV	Active
AG1-364	Deep Creek 115 kV	Active
AG1-383	Hickory 34.5 kV	Active
AG1-384	Twitty's Creek 115 kV	Active
AG1-393	Fort Pickett DP 34.5 kV	Active
AG1-394	Boykins 34.5 kV	Active
AG1-413	South Hill-Bordnax 115 kV	Active
AG1-426	Bremo-Scottsville 138 kV	Active
AG1-427	Chase City-Drakes Branch 115 kV	Active
AG1-428	Danieltown 69 kV	Active
AG1-431	Mackeys 230 kV	Active
AG1-431A	Mackeys 230 kV	Active
AG1-432	Curdsville DP-Willis Mt. 115 kV	Active
AG1-437	Cashie-Earleys 230 kV	Active
AG1-438	Cashie-Earleys 230 kV	Active
AG1-439	Chinquapin 230 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 kV	Active
AG1-442	Cashie-Earleys 230 kV	Active
AG1-443	Cashie-Earleys 230 kV	Active
AG1-444	Chinquapin 230 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-449	Rawlings-Carson 500 kV	Active
AG1-451	Curdsville DP-Willis Mt. 115 kV	Active
AG1-494	Boxwood-Riverville 138 kV	Active
AG1-505	Rawlings-Clover 500 kV	Active
AG1-506	Rawlings-Clover 500 kV	Active
AG1-518	Suffolk 230 kV	Active
AG1-532	Fields 34.5 kV	Active
AG1-539	Grit DP-Perth 115 kV	Active
AG1-546	Ebony-Elams Road 115 kV	Active
AG1-547	Mount Airy-Chatham 69 kV	Active
AG1-550	Mount Eagle-Fork Union 230 kV	Active
AG1-551	Parme 12.5 kV	Active
AG1-552	Carolina 13.2 kV	Active
AG1-557	Curdsville DP 115 kV	Withdrawn
Z1-086	Heritage-Carson	In Service

11.8 Contingency Descriptions - Primary POI

Contingency Name	Contingency Definition
DVP_P1-2: LN 556-D	CONTINGENCY 'DVP_P1-2: LN 556-D' OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-055 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P1-2: LN 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 562-C	CONTINGENCY 'DVP_P1-2: LN 562-C' OPEN BRANCH FROM BUS 963290 TO BUS 314923 CKT 1 /* AG1-178 TAP 500.00 - 8SEPTA 500.00 END
AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1' OPEN BRANCH FROM BUS 242520 TO BUS 242514 CKT 1 END
DVP_P1-2: LN 556-B	CONTINGENCY 'DVP_P1-2: LN 556-B' OPEN BRANCH FROM BUS 945810 TO BUS 964930 CKT 1 /* AF1-246 TAP 500.00 - AG1-357 TAP 500.00 END
DVP_P1-2: LN 556-C	CONTINGENCY 'DVP_P1-2: LN 556-C' OPEN BRANCH FROM BUS 964930 TO BUS 966360 CKT 1 /* AG1-357 TAP 500.00 - AG1-055 TAP 500.00 END
DVP_P1-2: LN 2193	CONTINGENCY 'DVP_P1-2: LN 2193' OPEN BRANCH FROM BUS 313707 TO BUS 313867 CKT 1 /* 6FORK UNION 230.00 - 6BREMODIST 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BUS 313867 /* ISLAND: 6BREMODIST 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2028-B	CONTINGENCY 'DVP_P1-2: LN 2028-B' OPEN BRANCH FROM BUS 966790 TO BUS 314765 CKT 1 /* AF2-397 TAP 230.00 - 6MTEAGLE 230.00 OPEN BRANCH FROM BUS 314749 TO BUS 314765 CKT 1 /* 6CHARLVL 230.00 - 6MTEAGLE 230.00 OPEN BUS 314765 /* ISLAND: 6MTEAGLE 230.00 OPEN BUS 926451 /* ISLAND: AC1-116 C 230.00 OPEN BUS 926452 /* ISLAND: AC1-116 E 230.00 END
DVP_P1-2: LN 298	CONTINGENCY 'DVP_P1-2: LN 298' OPEN BRANCH FROM BUS 314677 TO BUS 314692 CKT 1 /* 6BUCKING 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 OPEN BUS 314677 /* ISLAND: 6BUCKING 230.00 OPEN BUS 924032 /* ISLAND: AB2-045 E 230.00 OPEN BUS 932511 /* ISLAND: AC2-071 C 230.00 OPEN BUS 932512 /* ISLAND: AC2-071 E 230.00 END
AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1' OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 END
DVP_P1-2: LN 2027	CONTINGENCY 'DVP_P1-2: LN 2027' OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 933500 CKT 1 /* 6CARTERV 230.00 - AC2-165 TAP 230.00 OPEN BRANCH FROM BUS 314310 TO BUS 314322 CKT 1 /* 6JUDES F 230.00 - 6MDLTHAN 230.00 OPEN BRANCH FROM BUS 314310 TO BUS 314333 CKT 1 /* 6JUDES F 230.00 - 6POWHATN 230.00 OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 /* 6POWHATN 230.00 - AC2-165 TAP 230.00 OPEN BUS 313868 /* ISLAND: 6CARTERV 230.00 OPEN BUS 314310 /* ISLAND: 6JUDES F 230.00 OPEN BUS 314333 /* ISLAND: 6POWHATN 230.00 OPEN BUS 923862 /* ISLAND: AB2-026 E 230.00 OPEN BUS 938561 /* ISLAND: AE1-075 C 230.00 OPEN BUS 938562 /* ISLAND: AE1-075 E 230.00 OPEN BUS 933500 /* ISLAND: AC2-165 TAP 230.00 OPEN BUS 933501 /* ISLAND: AC2-165 C 230.00 OPEN BUS 933502 /* ISLAND: AC2-165 E 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 511-A	CONTINGENCY 'DVP_P1-2: LN 511-A' OPEN BRANCH FROM BUS 314902 TO BUS 940470 CKT 1 /* 8CARSON 500.00 - AE2-031 TAP 500.00 END
DVP_P1-2: LN 585-A	CONTINGENCY 'DVP_P1-2: LN 585-A' OPEN BRANCH FROM BUS 314902 TO BUS 941030 CKT 1 /* 8CARSON 500.00 - AE2-094 TAP 500.00 END
Base Case	
DVP_P7-1: LN 5-2028-C	CONTINGENCY 'DVP_P7-1: LN 5-2028-C' /*. OPEN BRANCH FROM BUS 314744 TO BUS 314754 CKT 1 /* 3BREMO 115.00 - 3CUNNING 115.00 OPEN BUS 314754 /* ISLAND: 3CUNNING 115.00 OPEN BRANCH FROM BUS 966790 TO BUS 314765 CKT 1 /* AG1-550 TAP 230.00 - 6MTEAGLE 230.00 OPEN BRANCH FROM BUS 314749 TO BUS 314765 CKT 1 /* 6CHARLVL 230.00 - 6MTEAGLE 230.00 OPEN BUS 314765 /* ISLAND: 6MTEAGLE 230.00 OPEN BUS 926451 /* ISLAND: AC1-116 C 230.00 OPEN BUS 926452 /* ISLAND: AC1-116 E 230.00 END
AEP_P1-3_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P1-3_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	CONTINGENCY '314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1' OPEN BRANCH FROM BUS 314765 TO BUS 966790 CKT 1 END
314333 6POWHATN 230 933500 AC2-165 TAP 230 1	CONTINGENCY '314333 6POWHATN 230 933500 AC2-165 TAP 230 1' OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 END

12 Short Circuit Analysis - Primary POI

The following Breakers are overdutied

Bus Number	Bus Name	BREAKER	Type	Capacity (Amps)	Duty Percentage Post Queue	Duty Percentage Pre Queue

12.1 System Reinforcements - Short Circuit

13 Summer Peak - Load Flow Analysis - Secondary POI

The Queue Project AG1-098 was evaluated as a 125.0 MW (Capacity 75.0 MW) injection tapping the Chase City to Lunenburg 115 kV line in the Dominion area. Project AG1-098 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-098 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

13.1 Generation Deliverability

(Single or N-1 contingencies for the Capacity portion only of the interconnection)

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE T LOADIN G %	POST PROJE T LOADIN G %	AC D C	MW IMPAC T
168341904	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY2	115.0	DVP	1	Base Case	single	247.22000121	79.03	103.93	DC	61.56
168928784	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	single	678.679992676	99.18	100.46	DC	9.25
169114251	314702	3KERR	115.0	DVP	314673	3PALMERSPRNG	115.0	DVP	1	DVP_P1-2: LN 45	single	138.179992676	97.85	103.34	DC	7.59
174797209	961890	AG1-030 TAP	115.0	DVP	314706	3MARTIN TAP	115.0	DVP	1	DVP_P1-2: LN 1045	single	269.779998779	75.14	102.94	DC	74.98

13.2 Multiple Facility Contingency

(Double Circuit Tower Line, Fault with a Stuck Breaker, and Bus Fault contingencies for the full energy output)

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE T LOADIN G %	POST PROJE T LOADIN G %	AC D C	MW IMPAC T
163987724	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY2	115.0	DVP	1	DVP_P2-2: BREMOB4	bus	349.0	97.7	127.11	DC	102.65
166894394	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY2	115.0	DVP	1	DVP_P7-1: LN 158-1007-A	tower	349.0	86.68	122.48	DC	124.96
174379342	314267	3CHASCTY2	115.0	DVP	314669	3BARNES J	115.0	DVP	1	DVP_P4-2: 15832	breaker	406.0	91.37	100.48	DC	37.09
173308552	314902	8CARSON	500.0	DVP	963290	AG1-178 TAP	500.0	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	99.86	100.23	DC	12.92
174174205	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	DVP_P4-2: 2028T2054	breaker	980.0	99.89	101.23	DC	13.07
172828671	962490	AG1-098 TAP	115.0	DVP	313898	3BUTCHER CRK	115.0	DVP	1	DVP_P2-2: BREMOB1	bus	349.0	84.24	114.61	DC	105.98
172828672	962490	AG1-098 TAP	115.0	DVP	313898	3BUTCHER CRK	115.0	DVP	1	DVP_P2-2: BREMOB4	bus	349.0	76.31	105.73	DC	102.68
173308552	963290	AG1-178 TAP	500.0	DVP	939410	AE1-173_POI	500.0	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	99.92	100.3	DC	12.92

13.3 Contribution to Previously Identified Overloads

(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168096757	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	118.42	119.77	DC	5.45
168096759	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	single	275.0	108.16	109.79	DC	4.55
168341945	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	127.71	129.33	DC	10.68
168342084	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	375.05999 7559	110.39	112.26	DC	7.01
173795327	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P4-2: 23872	break er	459.0	132.5	133.64	DC	11.69
168341885	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	DVP_P1-2: LN 1045	single	203.97999 5728	146.42	183.17	DC	74.97
163120725	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P7-1: LN 181-2027	towe r	809.0	121.72	124.12	DC	19.4
168341967	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	129.58	131.34	DC	11.64
173798974	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P4-2: 202712	break er	809.0	121.68	124.07	DC	19.4
163987723	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY2	115.0	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	104.22	134.58	DC	105.9 4
166894393	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY2	115.0	DVP	1	DVP_P7-1: LN 158-235	towe r	349.0	150.56	186.37	DC	124.9 5
173795244	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY2	115.0	DVP	1	DVP_P4-2: 1T158	break er	349.0	160.91	196.71	DC	124.9 5
168643473	314266	6NORTHAMP TON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	single	571.52001 9531	100.65	101.76	DC	6.34
174174182	314266	6NORTHAMP TON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P4-2: 23872	break er	699.0	109.34	110.02	DC	10.59
173795263	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P4-2: 562T563	break er	684.0	185.45	186.04	DC	8.9
174174147	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P4-2: 24972-4	break er	830.0	121.31	121.98	DC	12.42
173795264	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P4-2: 562T563	break er	684.0	182.32	182.92	DC	8.9
174174034	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P4-2: 24972-4	break er	541.0	164.8	165.62	DC	9.85
174379331	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P4-2: 562T563	break er	541.0	164.77	165.33	DC	6.63
174174192	314310	6JUDES F	230.0	DVP	314322	6MDLTHAN	230.0	DVP	1	DVP_P4-2: 2028T2054	break er	980.0	101.32	102.66	DC	13.05
174174033	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P4-2: 24972-4	break er	541.0	164.82	165.64	DC	9.85
174379329	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P4-2: 562T563	break er	541.0	164.81	165.36	DC	6.63
173799077	314333	6POWHATN	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P4-2: 2028T2054	break er	980.0	101.43	102.76	DC	13.05
168643302	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.67999 2676	139.24	140.76	DC	10.31
168643304	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	single	678.67999 2676	120.42	121.78	DC	9.24
168928738	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 68-A	single	239.88800 0488	108.76	111.55	DC	6.67
174174032	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P4-2: L5T68	break er	288.60000 6104	143.5	145.24	DC	11.12

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168928 842	3145 61	6CAROLNA	230 .0	DVP	3145 99	6ROA VAL	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	548.02001 9531	103.62	104.78	DC	6.34
173979 049	3145 61	6CAROLNA	230 .0	DVP	3145 99	6ROA VAL	230 .0	DVP	1	DVP_P4-2: 23872	break er	671.0	112.82	113.53	DC	10.59
168928 683	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	DVP_P1-2: LN 2201	single	182.64199 8291	168.73	173.81	DC	9.28
168928 685	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	Base Case	single	176.81401 062	107.49	112.75	DC	9.3
163120 421	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	128.46	129.38	DC	16.89
163120 422	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	AEP_P2- 2_#1377_051. FERR 765_1	bus	830.0	125.38	126.24	DC	15.78
163120 680	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P7-1: LN 2058-2181	towe r	830.0	133.75	134.63	DC	16.06
163120 681	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P7-1: LN 25-2034-A	towe r	830.0	122.08	122.94	DC	15.82
168928 783	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P7-1: LN 2012-B	single	678.67999 2676	110.91	112.38	DC	10.32
173795 374	3145 63	6CLUBHSE	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	DVP_P4-2: 23872	break er	459.0	114.96	116.11	DC	11.74
173979 003	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P4-2: 201262	break er	830.0	127.02	127.97	DC	17.37
168643 437	3145 99	6ROA VAL	230 .0	DVP	3142 66	6NORTHAMP TON	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	548.02001 9531	103.56	104.72	DC	6.34
173979 050	3145 99	6ROA VAL	230 .0	DVP	3142 66	6NORTHAMP TON	230 .0	DVP	1	DVP_P4-2: 23872	break er	671.0	112.77	113.48	DC	10.59
173978 925	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DVP	1	DVP_P4-2: 556T591	break er	699.0	181.41	185.83	DC	30.91
174998 450	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DVP	1	DVP_P1-2: LN 556-B-A	single	571.52001 9531	167.24	170.48	DC	18.52
169114 056	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	2	DVP_P1-2: LN 235-A	single	182.64199 8291	181.33	190.96	DC	17.59
169114 059	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	2	Base Case	single	176.81401 062	103.61	109.95	DC	11.2
173978 913	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	2	DVP_P4-6: CHASE C T342	break er	208.69999 6948	295.3	328.46	DC	69.2
173978 914	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	1	DVP_P4-6: CHASE C T342	break er	221.39999 3896	224.19	249.37	DC	55.74
174998 419	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	1	DVP_P1-2: LN 298-B	single	198.05799 8657	109.61	117.16	DC	14.94
173978 924	3146 92	6FARMVIL	230 .0	DVP	9668 60	AG1-557 TAP	230 .0	DVP	1	DVP_P4-2: 556T591	break er	684.0	184.46	188.98	DC	30.93
174998 435	3146 92	6FARMVIL	230 .0	DVP	9668 60	AG1-557 TAP	230 .0	DVP	1	DVP_P1-2: LN 556-B-A	single	559.29998 7793	167.61	170.92	DC	18.53
174379 404	3146 94	3GRIT	115 .0	DVP	3147 12	3OTTER R	115 .0	DVP	1	DVP_P4-2: 511T556	break er	350.0	110.1	111.34	DC	9.62
174379 405	3146 94	3GRIT	115 .0	DVP	3147 12	3OTTER R	115 .0	DVP	1	DVP_P4-2: 556T591	break er	350.0	110.1	111.34	DC	9.62
175803 089	3146 94	3GRIT	115 .0	DVP	3147 12	3OTTER R	115 .0	DVP	1	DVP_P1-2: LN 556-B-C	single	285.76000 9766	101.85	103.87	DC	5.77
175803 090	3146 94	3GRIT	115 .0	DVP	3147 12	3OTTER R	115 .0	DVP	1	DVP_P1-2: LN 556-B-A	single	285.76000 9766	101.88	103.9	DC	5.77
175199 824	3146 97	6SEDGE HILL	230 .0	DVP	9272 50	AC1-221 TAP	230 .0	DVP	1	DVP_P1-2: LN 556-B-C	single	674.91998 291	150.96	153.5	DC	17.14
175803 013	3146 97	6SEDGE HILL	230 .0	DVP	9272 50	AC1-221 TAP	230 .0	DVP	1	DVP_P1-2: LN 556-B-A	single	674.91998 291	151.08	153.62	DC	17.14
168341 880	3147 01	3LONEPN	115 .0	DVP	3137 55	3FLAT CREEK	115 .0	DVP	1	DVP_P1-2: LN 1045	single	203.97999 5728	146.42	183.17	DC	74.97
163517 255	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P4-6: CAROLIN T122	break er	199.0	146.47	158.02	DC	23.31
163517 256	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P4-2: 13002	break er	199.0	125.56	135.8	DC	20.35
163518 130	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P7-1: LN 22-90	towe r	199.0	143.83	155.21	DC	23.04

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
169114 094	3147 07	3MORAN	115 .0	DVP	3146 91	3FARMVIL	115 .0	DVP	1	DVP_P1-2: LN 1045	single	203.97999 5728	143.04	179.79	DC	74.97
174379 412	3147 12	3OTTER R	115 .0	DVP	3146 66	3ALTVSTA	115 .0	DVP	1	DVP_P4-2: 556T591	break er	342.0	106.92	108.19	DC	9.62
174379 413	3147 12	3OTTER R	115 .0	DVP	3146 66	3ALTVSTA	115 .0	DVP	1	DVP_P4-2: 511T556	break er	342.0	106.92	108.19	DC	9.62
175803 079	3147 12	3OTTER R	115 .0	DVP	3146 66	3ALTVSTA	115 .0	DVP	1	DVP_P1-2: LN 556-B-C	single	269.77999 8779	100.54	102.68	DC	5.77
175803 080	3147 12	3OTTER R	115 .0	DVP	3146 66	3ALTVSTA	115 .0	DVP	1	DVP_P1-2: LN 556-B-A	single	269.77999 8779	100.58	102.72	DC	5.77
169114 064	3147 26	3WILLIS	115 .0	DVP	3146 91	3FARMVIL	115 .0	DVP	1	Base Case	single	186.11999 5117	102.63	106.29	DC	6.81
163120 710	3147 47	6BREMO	230 .0	DVP	3138 67	6BREMODIST	230 .0	DVP	1	DVP_P7-1: LN 181-2027	towe r	809.0	123.49	125.89	DC	19.4
169333 402	3147 47	6BREMO	230 .0	DVP	3138 67	6BREMODIST	230 .0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	131.74	133.5	DC	11.64
169333 419	3147 47	6BREMO	230 .0	DVP	3147 44	3BREMO	115 .0	DVP	1	DVP_P1-2: LN 2193	single	269.77999 8779	121.03	123.01	DC	5.34
173978 970	3147 47	6BREMO	230 .0	DVP	3138 67	6BREMODIST	230 .0	DVP	1	DVP_P4-2: 202712	break er	809.0	123.44	125.84	DC	19.4
169333 392	3147 65	6MTEAGLE	230 .0	DVP	3147 49	6CHARLV	230 .0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	131.59	133.21	DC	10.68
173308 610	9272 50	AC1-221 TAP	230 .0	DVP	3040 70	6PERSON230 T	230 .0	CPL E	1	DVP_P1-2: LN 556-B-C	single	718.0	153.88	156.26	DC	17.14
173308 611	9272 50	AC1-221 TAP	230 .0	DVP	3040 70	6PERSON230 T	230 .0	CPL E	1	DVP_P1-2: LN 556-B-B	single	718.0	153.97	156.36	DC	17.14
168928 834	9364 00	AD2-051 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	571.52001 9531	108.17	109.28	DC	6.34
168928 835	9364 00	AD2-051 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	571.52001 9531	108.15	109.26	DC	6.34
173979 042	9364 00	AD2-051 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DVP	1	DVP_P4-2: 23872	break er	699.0	116.72	117.4	DC	10.59
163120 660	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DVP	1	DVP_P7-1: LN 2058-2181	towe r	830.0	157.44	158.31	DC	16.06
169563 472	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DVP	1	DVP_P1-2: LN 2012-B	single	678.67999 2676	137.26	138.72	DC	10.32
169563 474	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DVP	1	Base Case	single	678.67999 2676	117.23	118.59	DC	9.25
174379 396	9427 50	AE2-291 TAP	115 .0	DVP	3146 94	3GRIT	115 .0	DVP	1	DVP_P4-2: 556T591	break er	350.0	110.99	112.23	DC	9.62
174379 397	9427 50	AE2-291 TAP	115 .0	DVP	3146 94	3GRIT	115 .0	DVP	1	DVP_P4-2: 511T556	break er	350.0	110.99	112.23	DC	9.62
175803 084	9427 50	AE2-291 TAP	115 .0	DVP	3146 94	3GRIT	115 .0	DVP	1	DVP_P1-2: LN 556-B-C	single	285.76000 9766	102.9	104.92	DC	5.77
175803 085	9427 50	AE2-291 TAP	115 .0	DVP	3146 94	3GRIT	115 .0	DVP	1	DVP_P1-2: LN 556-B-A	single	285.76000 9766	102.93	104.95	DC	5.77
174998 495	9610 60	AF2-397 TAP	230 .0	DVP	3147 65	6MTEAGLE	230 .0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	135.11	136.73	DC	10.68
172829 069	9624 90	AG1-098 TAP	115 .0	DVP	3138 98	3BUTCHER CRK	115 .0	DVP	1	DVP_P7-1: LN 158-235	towe r	349.0	127.54	163.36	DC	124.9 9
173795 249	9624 90	AG1-098 TAP	115 .0	DVP	3138 98	3BUTCHER CRK	115 .0	DVP	1	DVP_P4-2: 1T158	break er	349.0	137.89	173.7	DC	124.9 9
173978 923	9668 60	AG1-557 TAP	230 .0	DVP	3146 77	6BUCKING	230 .0	DVP	1	DVP_P4-2: 511T556	break er	684.0	184.44	188.96	DC	30.93

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
174998443	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	559.299987793	167.61	170.92	DC	18.53

13.4 Potential Congestion due to Local Energy Deliverability

PJM also studied the delivery of the energy portion of this interconnection request. Any problems identified below are likely to result in operational restrictions to the project under study. The developer can proceed with network upgrades to eliminate the operational restriction at their discretion by submitting a Merchant Transmission Interconnection request.

Note: Only the most severely overloaded conditions are listed below. There is no guarantee of full delivery of energy for this project by fixing only the conditions listed in this section. With a Transmission Interconnection Request, a subsequent analysis will be performed which shall study all overload conditions associated with the overloaded element(s) identified.

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168096756	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	operation	275.0	128.13	129.37	DC	7.58
175199914	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIIOC H 500 1	operation	402.0	144.91	145.93	DC	9.09
168341943	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	151.56	154.25	DC	17.8
168341947	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	Base Case	operation	661.760009766	100.39	102.55	DC	14.29
168342082	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	314435 6SAPON Y 230 940480 AE2-033 TAP 230 1	operation	375.059997559	162.07	163.47	DC	11.69
168342083	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	375.059997559	162.07	163.47	DC	11.69
168341882	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	DVP_P1-2: LN 1045	operation	203.979995728	257.61	318.87	DC	124.95
168341884	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	Base Case	operation	203.979995728	133.92	144.88	DC	22.36
175199957	313825	3PLYWOOD	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 33-A	operation	141.0	97.21	103.22	DC	18.74

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168341965	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operati on	661.760009766	148.8	151.73	DC	19.4
168341969	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	Base Case	operati on	661.760009766	101.28	103.63	DC	15.55
175390681	313868	6CARTERV	230.0	DVP	933500	AC2-165 TAP	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operati on	800.880004883	113.1	114.73	DC	13.07
168341901	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY2	115.0	DVP	1	Base Case	operati on	247.220001221	136.76	178.26	DC	102.6
168643471	314266	6NORTHAMP TON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	operati on	571.520019531	133.19	134.02	DC	10.57
168643601	314267	3CHASCTY2	115.0	DVP	314681	3CHASCTY	115.0	DVP	Z1	DVP_P1-2: LN 158	operati on	449.320007324	92.83	109.12	DC	73.21
168643346	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	operati on	559.299987793	177.56	178.19	DC	7.76
168643356	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	operati on	559.299987793	173.75	174.38	DC	7.76
175199946	314310	6JUDES F	230.0	DVP	314322	6MDLTHAN	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operati on	800.880004883	123.69	125.32	DC	13.05
175199943	314333	6POWHATN	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operati on	800.880004883	123.82	125.45	DC	13.05
168643299	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	operati on	678.679992676	190.08	191.23	DC	17.18
168643301	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operati on	678.679992676	168.01	169.04	DC	15.41
168928735	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 68-A	operati on	239.888000488	156.7	158.79	DC	11.12
168928737	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	Base Case	operati on	226.539993286	113.95	115.98	DC	10.2
168928840	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	DVP_P1-2: LN 238-A	operati on	548.020019531	137.55	138.42	DC	10.57
168928681	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2201	operati on	182.641998291	216.32	224.8	DC	15.47
168928682	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operati on	176.81401062	151.62	160.39	DC	15.49
168342160	314563	6CLUBHSE	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	3144356SAPON Y 230 940480 AE2-033 TAP 230 1	operati on	375.059997559	140.63	142.04	DC	11.73
168928780	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2012-B	operati on	678.679992676	153.12	154.27	DC	17.19
168928781	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	operati on	678.679992676	148.34	149.36	DC	15.41
168928875	314583	6LAKEVEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	3144356SAPON Y 230 940480 AE2-033 TAP 230 1	operati on	441.799987793	118.18	119.14	DC	9.38

ID	FRO M BUS#	FROM BUS	kV	FRO M BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC/ DC	MW IMPA CT
1686434 35	3145 99	6ROA VAL	230. 0	DVP	3142 66	6NORTHAMP TON	230. 0	DVP	1	DVP_P1- 2: LN 238-A	operati on	548.020019 531	137.49	138.36	DC	10.57
1691141 00	3146 77	6BUCKING	230. 0	DVP	3147 47	6BREMO	230. 0	DVP	1	Base Case	operati on	571.520019 531	127.32	131.57	DC	24.31
1749984 49	3146 77	6BUCKING	230. 0	DVP	3147 47	6BREMO	230. 0	DVP	1	DVP_P1- 2: LN 556-B-A	operati on	571.520019 531	219.98	225.37	DC	30.87
1747972 79	3146 87	3CREWE	115. 0	DVP	3147 01	3LONEPN	115. 0	DVP	1	DVP_P1- 2: LN 1045	operati on	370.359985 352	91.45	125.19	DC	124.9 6
1691140 54	3146 91	3FARMVIL	115. 0	DVP	3146 92	6FARMVIL	230. 0	DVP	2	DVP_P1- 2: LN 235-A	operati on	182.641998 291	289.41	305.44	DC	29.32
1691140 57	3146 91	3FARMVIL	115. 0	DVP	3146 92	6FARMVIL	230. 0	DVP	2	Base Case	operati on	176.814010 62	177.29	187.85	DC	18.67
1691140 68	3146 91	3FARMVIL	115. 0	DVP	3146 92	6FARMVIL	230. 0	DVP	1	Base Case	operati on	193.734008 789	130.3	138.07	DC	15.04
1749984 18	3146 91	3FARMVIL	115. 0	DVP	3146 92	6FARMVIL	230. 0	DVP	1	DVP_P1- 2: LN 298-B	operati on	198.057998 657	203.68	216.24	DC	24.9
1749984 34	3146 92	6FARMVIL	230. 0	DVP	9668 60	AG1-557 TAP	230. 0	DVP	1	DVP_P1- 2: LN 556-B-A	operati on	559.299987 793	226.31	231.83	DC	30.88
1749984 36	3146 92	6FARMVIL	230. 0	DVP	9668 60	AG1-557 TAP	230. 0	DVP	1	Base Case	operati on	559.299987 793	126.29	130.63	DC	24.33
1758030 87	3146 94	3GRIT	115. 0	DVP	3147 12	3OTTER R	115. 0	DVP	1	DVP_P1- 2: LN 556-B-C	operati on	285.760009 766	134.02	135.54	DC	9.61
1691141 25	3146 96	3SEEDGE HILL	115. 0	DVP	3146 97	6SEEDGE HILL	230. 0	DVP	1	DVP_P1- 2: LN 31- A	operati on	226.727996 826	127.43	135.55	DC	18.47
1691141 40	3146 96	3SEEDGE HILL	115. 0	DVP	3146 97	6SEEDGE HILL	230. 0	DVP	2	DVP_P1- 3: 6SEEDGE HILL- TX#1	operati on	256.055999 756	136.75	146.77	DC	25.72
1751998 23	3146 97	6SEEDGE HILL	230. 0	DVP	9272 50	AC1-221 TAP	230. 0	DVP	1	DVP_P1- 2: LN 556-B-C	operati on	674.919982 91	198.01	202.23	DC	28.57
1683418 77	3147 01	3LONEPN	115. 0	DVP	3137 55	3FLAT CREEK	115. 0	DVP	1	DVP_P1- 2: LN 1045	operati on	203.979995 728	257.61	318.87	DC	124.9 5
1683418 79	3147 01	3LONEPN	115. 0	DVP	3137 55	3FLAT CREEK	115. 0	DVP	1	Base Case	operati on	203.979995 728	133.92	144.88	DC	22.36
1635174 63	3147 02	3KERR	115. 0	DVP	3041 02	3GW KING TAP	115. 0	CPL E	1	DVP_P1- 2: LN 90	operati on	199.0	116.55	126.09	DC	19.09
1635174 64	3147 02	3KERR	115. 0	DVP	3041 02	3GW KING TAP	115. 0	CPL E	1	Base Case	operati on	191.0	111.38	120.12	DC	16.82
1691142 48	3147 02	3KERR	115. 0	DVP	3146 73	3PALMERSPR NG	115. 0	DVP	1	DVP_P1- 2: LN 45	operati on	138.179992 676	116.83	126.0	DC	12.65
1747972 41	3147 06	3MARTIN TAP	115. 0	DVP	3146 87	3CREWE	115. 0	DVP	1	DVP_P1- 2: LN 1045	operati on	326.179992 676	103.99	142.31	DC	124.9 6
1691140 91	3147 07	3MORAN	115. 0	DVP	3146 91	3FARMVIL	115. 0	DVP	1	DVP_P1- 2: LN 1045	operati on	203.979995 728	254.22	315.48	DC	124.9 5
1691140 93	3147 07	3MORAN	115. 0	DVP	3146 91	3FARMVIL	115. 0	DVP	1	Base Case	operati on	203.979995 728	130.49	141.45	DC	22.36
1758030 77	3147 12	3OTTER R	115. 0	DVP	3146 66	3ALT VSTA	115. 0	DVP	1	DVP_P1- 2: LN 556-B-C	operati on	269.779998 779	134.62	136.23	DC	9.61
1747972 56	3147 23	3VICTRIA	115. 0	DVP	3147 25	3VICT DP	115. 0	DVP	1	DVP_P1- 2: LN 1045	operati on	269.779998 779	71.89	118.21	DC	124.9 6

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADING %	POST PROJE CT LOADING %	AC/DC	MW IMPACT
174797260	314725	3VICT DP	115.0	DVP	961890	AG1-030 TAP	115.0	DVP	1	DVP_P1-2: LN 1045	operation	269.779998779	70.63	116.95	DC	124.96
169114062	314726	3WILLIS	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	operation	186.119995117	162.54	165.29	DC	11.35
169333400	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	150.96	153.89	DC	19.4
169333404	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	Base Case	operation	661.760009766	103.44	105.79	DC	15.55
169333418	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	operation	269.779998779	146.66	148.14	DC	8.9
175390669	314747	6BREMO	230.0	DVP	313868	6CARTERV	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operation	800.880004883	114.51	116.14	DC	13.07
169333390	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	152.78	155.47	DC	17.8
169333394	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	Base Case	operation	661.760009766	102.85	105.01	DC	14.29
163517427	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	Base Case	operation	542.0	106.02	109.14	DC	16.91
173308605	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-B-C	operation	718.0	203.49	207.45	DC	28.57
175199954	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operation	800.880004883	121.61	123.25	DC	13.07
174797253	936260	AD2-033 TAP	115.0	DVP	314427	3LUNENBURG	115.0	DVP	1	DVP_P1-2: LN 1045	operation	269.779998779	77.97	124.29	DC	124.96
168928832	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	571.520019531	142.19	143.03	DC	10.57
169563469	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	190.6	191.74	DC	17.19
169563471	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operation	678.679992676	170.88	171.9	DC	15.41
175803082	942750	AE2-291 TAP	115.0	DVP	314694	3GRIT	115.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	285.760009766	135.07	136.59	DC	9.61
174998494	961060	AF2-397 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	160.39	163.08	DC	17.8
174998496	961060	AF2-397 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	Base Case	operation	661.760009766	106.3	108.46	DC	14.29
169114321	961890	AG1-030 TAP	115.0	DVP	314706	3MARTIN TAP	115.0	DVP	1	DVP_P1-2: LN 1045	operation	269.779998779	126.22	172.54	DC	124.96
174797211	962490	AG1-098 TAP	115.0	DVP	313898	3BUTCHER CRK	115.0	DVP	1	Base Case	operation	247.220001221	106.57	148.08	DC	102.63
174998442	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	559.299987793	222.43	227.94	DC	30.88

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADING %	POST PROJE CT LOADING %	AC DC	MW IMPACT
174998444	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	operation	559.299987793	126.29	130.63	DC	24.33

13.5 Flow Gate Details - Secondary POI

The following indices contain additional information about each facility presented in the body of the report. For each index, a description of the flowgate and its contingency was included for convenience. The intent of the indices is to provide more details on which projects/generators have contributions to the flowgate in question. All New Service Queue Requests, through the end of the Queue under study, that are contributors to a flowgate will be listed in the indices. Please note that there may be contributors that are subsequently queued after the queue under study that are not listed in the indices. Although this information is not used "as is" for cost allocation purposes, it can be used to gage the impact of other projects/generators. It should be noted the project/generator MW contributions presented in the body of the report are Full MW Impact contributions which are also noted in the indices column named "Full MW Impact", whereas the loading percentages reported in the body of the report, take into consideration the PJM Generator Deliverability Test rules such as commercial probability of each project as well as the ramping impact of "Adder" contributions. The MW Impact found and used in the analysis is shown in the indices column named "Gendeliv MW Impact".

13.5.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173795244	313898	3BUTCHER CRK	DVP	314267	3CHASCTY2	DVP	1	DVP_P4-2: 1T158	breaker	349.0	160.91	196.71	DC	124.95

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	3.9985	50/50	3.9985
314429	3JTRSVLE	2.5234	50/50	2.5234
316131	AB2-060 C	8.5795	50/50	8.5795
924162	AB2-060 E OP	25.5905	50/50	25.5905
936265	AD2-033 C	77.9711	50/50	77.9711
936266	AD2-033 E	51.9808	50/50	51.9808
946301	AF1-294 C	25.4906	50/50	25.4906
946302	AF1-294 E	16.9937	50/50	16.9937
958211	AF2-115 C	14.9945	50/50	14.9945
958212	AF2-115 E	9.9963	50/50	9.9963
961791	AG1-021 C	11.9956	50/50	11.9956
961792	AG1-021 E	7.9970	50/50	7.9970
961891	AG1-030 C	89.9667	50/50	89.9667
961892	AG1-030 E	59.9778	50/50	59.9778
962041	AG1-048 C	74.9722	50/50	74.9722
962042	AG1-048 E	49.9815	50/50	49.9815
962491	AG1-098 C O2	74.9722	50/50	74.9722
962492	AG1-098 E O2	49.9815	50/50	49.9815
963171	AG1-166 C	11.9956	50/50	11.9956
963172	AG1-166 E	7.9970	50/50	7.9970
963181	AG1-167 C	11.9956	50/50	11.9956
963182	AG1-167 E	7.9970	50/50	7.9970
963191	AG1-168 C	11.9956	50/50	11.9956
963192	AG1-168 E	7.9970	50/50	7.9970
963201	AG1-169 C	11.9956	50/50	11.9956
963202	AG1-169 E	7.9970	50/50	7.9970
963211	AG1-170 C	11.9956	50/50	11.9956
963212	AG1-170 E	7.9970	50/50	7.9970
964821	AG1-345 C	4.7982	50/50	4.7982
964822	AG1-345 E	3.1988	50/50	3.1988
964931	AG1-357 C O2	119.9556	50/50	119.9556
964932	AG1-357 E O2	79.9704	50/50	79.9704
CALDERWOOD	CALDERWOOD	0.0184	Confirmed LTF	0.0184
NY	NY	0.0205	Confirmed LTF	0.0205
PRAIRIE	PRAIRIE	0.0956	Confirmed LTF	0.0956
O-066	O-066	0.2490	Confirmed LTF	0.2490
CHEOAH	CHEOAH	0.0185	Confirmed LTF	0.0185
COTTONWOOD	COTTONWOOD	0.0777	Confirmed LTF	0.0777
G-007	G-007	0.0388	Confirmed LTF	0.0388
HAMLET	HAMLET	0.0214	Confirmed LTF	0.0214
GIBSON	GIBSON	0.0202	Confirmed LTF	0.0202
BLUEG	BLUEG	0.0642	Confirmed LTF	0.0642

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
TRIMBLE	TRIMBLE	0.0206	Confirmed LTF	0.0206
CATAWBA	CATAWBA	0.0129	Confirmed LTF	0.0129

13.5.2 Index 2

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163120680	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	133.75	134.63	DC	16.06

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	14.5739	50/50	14.5739
313719	3CHESTNUT	1.3547	50/50	1.3547
314541	3WATKINS	0.3968	Adder	0.47
314572	3EMPORIA	1.0296	50/50	1.0296
314582	3KELFORD	0.3886	50/50	0.3886
314589	3MURPHYS	0.0859	50/50	0.0859
314594	6PLYMOTH	0.0480	Adder	0.06
314623	3WITAKRS	0.2420	50/50	0.2420
314704	3LAWRENC	0.5984	50/50	0.5984
315126	1ROARAP2	2.1390	50/50	2.1390
315128	1ROARAP4	2.0412	50/50	2.0412
315131	1EDGECEMA (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315132	1EDGECEMB (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315136	1ROSEMG1	4.0488	50/50	4.0488
315137	1ROSEMS1	2.5107	50/50	2.5107
315138	1ROSEMG2	1.8975	50/50	1.8975
315139	1GASTONA	6.0660	50/50	6.0660
315141	1GASTONB	6.0660	50/50	6.0660
315293	1DOMTR9	4.0274	Adder	4.74
315294	1DOMTR10	4.9355	Adder	5.81
315601	1CONETOESOL	1.5563	50/50	1.5563
315602	1HOLLOMANSOL	1.3084	50/50	1.3084
315606	3AA2-053SOLA	2.1783	50/50	2.1783
315607	3AA1-063SOLA	1.8411	50/50	1.8411
315608	3AA2-088SOLA	0.9619	50/50	0.9619
316020	AB2-059 C OP	1.8615	50/50	1.8615
316087	AB2-174 C	2.5142	50/50	2.5142
316088	AB2-174 E	14.4183	50/50	14.4183
316096	AB2-100 C1	2.8368	50/50	2.8368
316097	AB2-100 E1	8.8562	50/50	8.8562
316098	AB2-100 C2	2.8368	50/50	2.8368
316099	AB2-100 E2	8.8562	50/50	8.8562
316103	AB2-015 C	4.5989	Adder	5.41
316104	AB2-015 E	3.7711	Adder	4.44
316129	AC1-054 C	8.9401	50/50	8.9401
316140	AB2-099 C (Suspended)	0.5970	50/50	0.5970
316141	AB2-099 E (Suspended)	0.2558	50/50	0.2558
900672	V4-068 E	0.2984	50/50	0.2984
917332	Z2-043 E	1.1590	50/50	1.1590

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
917342	Z2-044 E	0.6574	50/50	0.6574
917512	Z2-088 E OP1	9.2316	50/50	9.2316
918492	AA1-063AE OP	5.5022	50/50	5.5022
918512	AA1-065 E OP	3.7133	50/50	3.7133
918532	AA1-067 E	0.5438	Adder	0.64
919692	AA2-053 E OP	5.6689	50/50	5.6689
919702	AA2-057 E OP	4.0531	50/50	4.0531
920042	AA2-088 E OP	9.9473	50/50	9.9473
920591	AA2-165 C	0.1819	50/50	0.1819
920592	AA2-165 E	0.5571	50/50	0.5571
922922	AB1-081 C OP	1.5794	50/50	1.5794
922923	AB1-081 E OP	4.2905	50/50	4.2905
923262	AB1-132 C OP (Suspended)	29.3605	50/50	29.3605
923263	AB1-132 E OP (Suspended)	12.5831	50/50	12.5831
923573	AB1-173 E OP	2.2727	50/50	2.2727
923991	AB2-040 C O1	15.8726	50/50	15.8726
923992	AB2-040 E O1	12.9866	50/50	12.9866
924022	AB2-043 E O1	1.9315	Adder	2.27
924152	AB2-059 E OP	6.0782	50/50	6.0782
924162	AB2-060 E OP	2.8784	Adder	3.39
924301	AB2-077 C O1 (Suspended)	1.3530	Adder	1.59
924302	AB2-077 E O1 (Suspended)	0.9020	Adder	1.06
924311	AB2-078 C O1 (Suspended)	1.3530	Adder	1.59
924312	AB2-078 E O1 (Suspended)	0.9020	Adder	1.06
924321	AB2-079 C O1 (Suspended)	1.3530	Adder	1.59
924322	AB2-079 E O1 (Suspended)	0.9020	Adder	1.06
925122	AB2-169 E	3.7190	Adder	4.38
925591	AC1-034 C	7.6424	50/50	7.6424
925592	AC1-034 E	5.7653	50/50	5.7653
925612	AC1-036 E	0.4578	Adder	0.54
925785	AC1-054 E	4.1185	50/50	4.1185
926070	AC1-086 C	43.2369	50/50	43.2369
926071	AC1-086 E	19.6785	50/50	19.6785
926201	AC1-098 C	7.4602	50/50	7.4602
926202	AC1-098 E	4.4444	50/50	4.4444
926211	AC1-099 C	2.5000	50/50	2.5000
926212	AC1-099 E	1.4682	50/50	1.4682
927024	AC1-189 C	9.1752	50/50	9.1752
927025	AC1-189 E	4.5704	50/50	4.5704
927145	AC1-208 C	11.7742	50/50	11.7742
927146	AC1-208 E	5.2070	50/50	5.2070
932631	AC2-084 C	10.6348	50/50	10.6348
932632	AC2-084 E	5.2380	50/50	5.2380
933991	AD1-023 C	7.9663	Adder	9.37
933992	AD1-023 E	4.3369	Adder	5.1

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934331	AD1-057 C O1	17.3418	50/50	17.3418
934332	AD1-057 E O1	9.2508	50/50	9.2508
934521	AD1-076 C	29.5902	Adder	34.81
934522	AD1-076 E	15.0673	Adder	17.73
936265	AD2-033 C	7.3116	Adder	8.6
936266	AD2-033 E	4.8744	Adder	5.73
936361	AD2-046 C O1	6.7224	Adder	7.91
936362	AD2-046 E O1	3.0913	Adder	3.64
936401	AD2-051 C O1	8.3819	50/50	8.3819
936402	AD2-051 E O1	3.5991	50/50	3.5991
936485	AD2-063 C	9.4057	Adder	11.07
936486	AD2-063 E	6.2705	Adder	7.38
938221	AE1-035 C	0.3271	50/50	0.3271
938222	AE1-035 E	1.0212	50/50	1.0212
939181	AE1-148 C	6.6055	Adder	7.77
939182	AE1-148 E	4.4036	Adder	5.18
940542	AE2-040 BAT	3.9010	50/50	3.9010
940571	AE2-044 C	5.0056	50/50	5.0056
940572	AE2-044 E	2.1452	50/50	2.1452
940661	AE2-053 O1	2.4465	Adder	2.88
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1756	50/50	0.1756
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5992	50/50	0.5992
942451	AE2-258	1.6115	Adder	1.9
942471	AE2-260 C O1	46.3236	50/50	46.3236
942472	AE2-260 E O1	65.7044	50/50	65.7044
943171	AE2-346 C	1.4327	50/50	1.4327
943172	AE2-346 E	0.6140	50/50	0.6140
943911	AF1-059	26.5588	50/50	26.5588
944141	AF1-082	3.2179	50/50	3.2179
946012	AF1-266 BAT	20.6141	50/50	20.6141
946281	AF1-292 C	3.8472	50/50	3.8472
946282	AF1-292 E	2.5936	50/50	2.5936
957521	AF2-046 C	16.8612	50/50	16.8612
957522	AF2-046 E	8.4813	50/50	8.4813
957861	AF2-080 C	8.3333	50/50	8.3333
957862	AF2-080 E	3.6941	50/50	3.6941
959311	AF2-222 C	8.5799	Adder	10.09
959312	AF2-222 E	5.7485	Adder	6.76
959511	AF2-242 C	5.0088	Adder	5.89
959512	AF2-242 E	3.8958	Adder	4.58
960081	AF2-299 C	6.4841	50/50	6.4841
960082	AF2-299 E	4.3227	50/50	4.3227
961091	AF2-400 C	0.2483	Adder	0.29
961092	AF2-400 E	0.4075	Adder	0.48
961671	AG1-007 C	1.5192	50/50	1.5192
961672	AG1-007 E	0.8484	50/50	0.8484
961681	AG1-008 C	16.8950	50/50	16.8950
961682	AG1-008 E	8.4475	50/50	8.4475
961931	AG1-036 C	1.3755	50/50	1.3755
961932	AG1-036 E	0.9170	50/50	0.9170
961941	AG1-037 C	0.5117	50/50	0.5117

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961942	AG1-037 E	0.3411	50/50	0.3411
962331	AG1-082 C	2.0467	50/50	2.0467
962332	AG1-082 E	1.3645	50/50	1.3645
962341	AG1-083 C	2.0467	50/50	2.0467
962342	AG1-083 E	1.3645	50/50	1.3645
962351	AG1-084 C	1.7977	50/50	1.7977
962352	AG1-084 E	1.1985	50/50	1.1985
962361	AG1-085 C	1.7977	50/50	1.7977
962362	AG1-085 E	1.1985	50/50	1.1985
962491	AG1-098 C O2	4.3424	Adder	9.64
962492	AG1-098 E O2	2.8949	Adder	6.43
962571	AG1-106 C	12.0238	50/50	12.0238
962572	AG1-106 E	5.4527	50/50	5.4527
963301	AG1-179 C	10.7581	50/50	10.7581
963311	AG1-180	5.2416	50/50	5.2416
963321	AG1-181 C O2	4.8852	Adder	10.84
963361	AG1-185 O2	2.3636	Adder	5.25
964111	AG1-272 C	0.7266	Adder	1.61
964112	AG1-272 E	0.2158	Adder	0.48
964121	AG1-273 C	0.7266	Adder	1.61
964122	AG1-273 E	0.2158	Adder	0.48
964131	AG1-274 C	0.7266	Adder	1.61
964132	AG1-274 E	0.2158	Adder	0.48
964491	AG1-312 C O1	16.8134	50/50	16.8134
964492	AG1-312 E O1	4.2034	50/50	4.2034
964501	AG1-313 C O2	6.3298	50/50	6.3298
964502	AG1-313 E O2	4.2199	50/50	4.2199
964801	AG1-343 C	5.8664	50/50	5.8664
964802	AG1-343 E	4.6093	50/50	4.6093
964931	AG1-357 C O2	6.6667	Adder	14.8
964932	AG1-357 E O2	4.4445	Adder	9.87
965191	AG1-384 C	0.7266	Adder	1.61
965192	AG1-384 E	0.2158	Adder	0.48
965291	AG1-394 C	2.0088	50/50	2.0088
965292	AG1-394 E	1.3392	50/50	1.3392
965451	AG1-413 C O2	10.6898	50/50	10.6898
965452	AG1-413 E O2	7.1265	50/50	7.1265
965591	AG1-427 C	4.0275	Adder	8.94
965592	AG1-427 E	2.6907	Adder	5.97
965601	AG1-428 C O2	8.9810	50/50	8.9810
965602	AG1-428 E O2	5.9767	50/50	5.9767
965691	AG1-437 C O1	3.5190	Adder	7.81
965692	AG1-437 E O1	2.3460	Adder	5.21
965701	AG1-438 C O1	3.5190	Adder	7.81
965702	AG1-438 E O1	2.3460	Adder	5.21
965711	AG1-439 C O1	27.9180	50/50	27.9180
965712	AG1-439 E O1	18.6120	50/50	18.6120
965721	AG1-440 C	7.4813	50/50	7.4813
965722	AG1-440 E	4.9875	50/50	4.9875
965731	AG1-441 C	7.4813	50/50	7.4813
965732	AG1-441 E	4.9875	50/50	4.9875
965741	AG1-442 O1	2.0528	Adder	4.56

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965751	AG1-443 O1	2.0528	Adder	4.56
965761	AG1-444 O1	14.8896	50/50	14.8896
965771	AG1-445	4.3225	50/50	4.3225
965781	AG1-446	4.3225	50/50	4.3225
966621	AG1-532 C	3.5014	50/50	3.5014
966622	AG1-532 E	2.3343	50/50	2.3343
966751	AG1-546 C	20.3177	50/50	20.3177
966752	AG1-546 E	10.9018	50/50	10.9018
966801	AG1-551 C	0.8593	Adder	1.91
966802	AG1-551 E	0.3683	Adder	0.82
966811	AG1-552 C	3.3962	50/50	3.3962
966812	AG1-552 E	1.4555	50/50	1.4555
WEC	WEC	0.2003	Confirmed LTF	0.2003
LGEE	LGEE	0.4128	Confirmed LTF	0.4128
CPL	CPL	2.4679	Confirmed LTF	2.4679
CBM-W2	CBM-W2	8.9152	Confirmed LTF	8.9152
NY	NY	0.3069	Confirmed LTF	0.3069
TVA	TVA	1.6884	Confirmed LTF	1.6884
O-066	O-066	4.3005	Confirmed LTF	4.3005
SIGE	SIGE	0.1410	Confirmed LTF	0.1410
CBM-S2	CBM-S2	26.7473	Confirmed LTF	26.7473
CBM-S1	CBM-S1	0.4203	Confirmed LTF	0.4203
G-007	G-007	0.6762	Confirmed LTF	0.6762
MEC	MEC	1.2076	Confirmed LTF	1.2076
LAGN	LAGN	2.1000	Confirmed LTF	2.1000
AA2-074	AA2-074	1.6299	LTF	1.6299
CBM-W1	CBM-W1	8.3699	Confirmed LTF	8.3699

13.5.3 Index 3

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169114251	314702	3KERR	DVP	314673	3PALMERSPRNG	DVP	1	DVP_P1-2: LN 45	single	138.18	97.85	103.34	DC	7.59

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3145	80/20	0.3145
314429	3JTRSVLE	0.1632	80/20	0.1632
315158	1KERR 1	0.4757	80/20	0.4757
315159	1KERR 2	1.3319	80/20	1.3319
315160	1KERR 3	1.3319	80/20	1.3319
315161	1KERR 4	1.3319	80/20	1.3319
315162	1KERR 5	1.3319	80/20	1.3319
315163	1KERR 6	1.3319	80/20	1.3319
315164	1KERR 7	1.3319	80/20	1.3319
315266	1PLYWOOD A	0.4101	80/20	0.4101
316129	AC1-054 C	3.5524	80/20	3.5524
316131	AB2-060 C	0.8921	80/20	0.8921
924301	AB2-077 C O1 (Suspended)	1.2964	80/20	1.2964
924311	AB2-078 C O1 (Suspended)	1.2964	80/20	1.2964
924321	AB2-079 C O1 (Suspended)	1.2964	80/20	1.2964
925611	AC1-036 C	0.1133	80/20	0.1133
935221	AD1-157 C	0.0823	80/20	0.0823
936265	AD2-033 C	6.8422	80/20	6.8422
936361	AD2-046 C O1	10.1468	80/20	10.1468
936485	AD2-063 C	8.7300	80/20	8.7300
938371	AE1-056 C	2.2488	80/20	2.2488
939181	AE1-148 C	9.8258	80/20	9.8258
940661	AE2-053 O1	3.6392	80/20	3.6392
942451	AE2-258	1.4873	80/20	1.4873
943911	AF1-059	5.1118	80/20	5.1118
946301	AF1-294 C	1.6486	80/20	1.6486
958211	AF2-115 C	0.9698	80/20	0.9698
958801	AF2-171 C	5.8518	80/20	5.8518
959311	AF2-222 C	8.0790	80/20	8.0790
961791	AG1-021 C	0.7758	80/20	0.7758
961891	AG1-030 C	6.4098	80/20	6.4098
962041	AG1-048 C	4.8487	80/20	4.8487
962491	AG1-098 C O2	7.5878	80/20	7.5878
962561	AG1-105 C O2	4.2456	80/20	4.2456
963171	AG1-166 C	0.7758	80/20	0.7758
963181	AG1-167 C	0.7758	80/20	0.7758
963191	AG1-168 C	0.7758	80/20	0.7758
963201	AG1-169 C	0.7758	80/20	0.7758
963211	AG1-170 C	0.7758	80/20	0.7758

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O2	8.6381	80/20	8.6381
963361	AG1-185 O2	4.1794	80/20	4.1794
963641	AG1-215 C	0.3620	80/20	0.3620
964111	AG1-272 C	1.2873	80/20	1.2873
964121	AG1-273 C	1.2873	80/20	1.2873
964131	AG1-274 C	1.2873	80/20	1.2873
964791	AG1-342 C	1.6188	80/20	1.6188
964821	AG1-345 C	0.3114	80/20	0.3114
964931	AG1-357 C O2	11.6796	80/20	11.6796
965191	AG1-384 C	1.2873	80/20	1.2873
965281	AG1-393 C	0.7758	80/20	0.7758
965451	AG1-413 C O2	2.3406	80/20	2.3406
965591	AG1-427 C	7.0425	80/20	7.0425
966751	AG1-546 C	6.2252	80/20	6.2252
WEC	WEC	0.0047	Confirmed LTF	0.0047
LGEE	LGEE	0.0126	Confirmed LTF	0.0126
CALDERWOOD	CALDERWOOD	0.0035	Confirmed LTF	0.0035
CBM-W2	CBM-W2	0.0269	Confirmed LTF	0.0269
NY	NY	0.0171	Confirmed LTF	0.0171
SIGE	SIGE	0.0056	Confirmed LTF	0.0056
CHEOAH	CHEOAH	0.0045	Confirmed LTF	0.0045
CBM-S1	CBM-S1	0.0004	Confirmed LTF	0.0004
COTTONWOOD	COTTONWOOD	0.0126	Confirmed LTF	0.0126
HAMLET	HAMLET	0.0733	Confirmed LTF	0.0733
MEC	MEC	0.0175	Confirmed LTF	0.0175
CATAWBA	CATAWBA	0.0175	Confirmed LTF	0.0175
CBM-W1	CBM-W1	0.2103	Confirmed LTF	0.2103

13.5.4 Index 4

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174797209	961890	AG1-030 TAP	DVP	314706	3MARTIN TAP	DVP	1	DVP_P1-2: LN 1045	single	269.78	75.14	102.94	DC	74.98

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	8.5802	80/20	8.5802
936265	AD2-033 C	77.9774	80/20	77.9774
961891	AG1-030 C	89.9739	80/20	89.9739
962491	AG1-098 C O2	74.9783	80/20	74.9783
964931	AG1-357 C O2	119.9652	80/20	119.9652
CALDERWOOD	CALDERWOOD	0.0144	Confirmed LTF	0.0144
NY	NY	0.0160	Confirmed LTF	0.0160
PRAIRIE	PRAIRIE	0.0749	Confirmed LTF	0.0749
CHEOAH	CHEOAH	0.0145	Confirmed LTF	0.0145
COTTONWOOD	COTTONWOOD	0.0609	Confirmed LTF	0.0609
HAMLET	HAMLET	0.0167	Confirmed LTF	0.0167
GIBSON	GIBSON	0.0158	Confirmed LTF	0.0158
BLUEG	BLUEG	0.0503	Confirmed LTF	0.0503
TRIMBLE	TRIMBLE	0.0161	Confirmed LTF	0.0161
CATAWBA	CATAWBA	0.0101	Confirmed LTF	0.0101

13.5.5 Index 5

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174379342	314267	3CHASCTY2	DVP	314669	3BARNJ	DVP	1	DVP_P4-2: 15832	breaker	406.0	91.37	100.48	DC	37.09

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.8838	50/50	0.8838
313853	3PONTONDP	1.1869	50/50	1.1869
314429	3JTRSVLE	0.7490	50/50	0.7490
314713	3PAMPLIN	2.8846	50/50	2.8846
315161	1KERR 4	1.0715	50/50	1.0715
315162	1KERR 5	1.0715	50/50	1.0715
315163	1KERR 6	1.0715	50/50	1.0715
315164	1KERR 7	1.0715	50/50	1.0715
316129	AC1-054 C	4.3650	Adder	5.14
316131	AB2-060 C	2.5466	50/50	2.5466
924022	AB2-043 E O1	5.0090	50/50	5.0090
924162	AB2-060 E OP	7.5958	50/50	7.5958
924301	AB2-077 C O1 (Suspended)	3.3564	50/50	3.3564
924302	AB2-077 E O1 (Suspended)	2.2376	50/50	2.2376
924311	AB2-078 C O1 (Suspended)	3.3564	50/50	3.3564
924312	AB2-078 E O1 (Suspended)	2.2376	50/50	2.2376
924321	AB2-079 C O1 (Suspended)	3.3564	50/50	3.3564
924322	AB2-079 E O1 (Suspended)	2.2376	50/50	2.2376
925611	AC1-036 C	0.4022	50/50	0.4022
925612	AC1-036 E	1.5265	50/50	1.5265
925785	AC1-054 E	2.0108	Adder	2.37
927261	AC1-222 C	-1.7051	Adder	-2.01
934311	AD1-055 C	-1.1839	Adder	-1.39
935221	AD1-157 C	0.4209	50/50	0.4209
935222	AD1-157 E	1.7784	50/50	1.7784
936265	AD2-033 C	23.1434	50/50	23.1434
936266	AD2-033 E	15.4289	50/50	15.4289
936361	AD2-046 C O1	10.0848	50/50	10.0848
936362	AD2-046 E O1	4.6376	50/50	4.6376
936485	AD2-063 C	26.6760	50/50	26.6760
936486	AD2-063 E	17.7840	50/50	17.7840
938371	AE1-056 C	11.5003	50/50	11.5003
938372	AE1-056 E	6.2837	50/50	6.2837
939181	AE1-148 C	10.1849	50/50	10.1849
939182	AE1-148 E	6.7900	50/50	6.7900
940661	AE2-053 O1	3.7722	50/50	3.7722
942451	AE2-258	4.1791	50/50	4.1791

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942461	AE2-259 C O1	17.7840	50/50	17.7840
942462	AE2-259 E O1	11.8560	50/50	11.8560
943901	AF1-058 C	-0.9624	Adder	-1.13
943911	AF1-059	19.5295	50/50	19.5295
946301	AF1-294 C	7.5664	50/50	7.5664
946302	AF1-294 E	5.0442	50/50	5.0442
958211	AF2-115 C	4.4508	50/50	4.4508
958212	AF2-115 E	2.9672	50/50	2.9672
958801	AF2-171 C	26.6760	50/50	26.6760
958802	AF2-171 E	17.7840	50/50	17.7840
959311	AF2-222 C	29.6400	50/50	29.6400
959312	AF2-222 E	19.8588	50/50	19.8588
961791	AG1-021 C	3.5606	50/50	3.5606
961792	AG1-021 E	2.3738	50/50	2.3738
961891	AG1-030 C	26.7048	50/50	26.7048
961892	AG1-030 E	17.8032	50/50	17.8032
962041	AG1-048 C	22.2540	50/50	22.2540
962042	AG1-048 E	14.8360	50/50	14.8360
962491	AG1-098 C O2	22.2533	50/50	22.2533
962492	AG1-098 E O2	14.8355	50/50	14.8355
963171	AG1-166 C	3.5606	50/50	3.5606
963172	AG1-166 E	2.3738	50/50	2.3738
963181	AG1-167 C	3.5606	50/50	3.5606
963182	AG1-167 E	2.3738	50/50	2.3738
963191	AG1-168 C	3.5606	50/50	3.5606
963192	AG1-168 E	2.3738	50/50	2.3738
963201	AG1-169 C	3.5606	50/50	3.5606
963202	AG1-169 E	2.3738	50/50	2.3738
963211	AG1-170 C	3.5606	50/50	3.5606
963212	AG1-170 E	2.3738	50/50	2.3738
963301	AG1-179 C	2.3977	Adder	5.32
963311	AG1-180	1.1682	Adder	2.59
963321	AG1-181 C O2	29.9631	50/50	29.9631
963361	AG1-185 O2	14.4969	50/50	14.4969
963641	AG1-215 C	1.6616	50/50	1.6616
963642	AG1-215 E	2.4924	50/50	2.4924
964111	AG1-272 C	4.5705	50/50	4.5705
964112	AG1-272 E	1.3575	50/50	1.3575
964121	AG1-273 C	4.5705	50/50	4.5705
964122	AG1-273 E	1.3575	50/50	1.3575
964131	AG1-274 C	4.5705	50/50	4.5705
964132	AG1-274 E	1.3575	50/50	1.3575
964793	AG1-342 BAT	3.1234	50/50	3.1234
964821	AG1-345 C	1.4243	50/50	1.4243
964822	AG1-345 E	0.9495	50/50	0.9495
964931	AG1-357 C O2	35.6052	50/50	35.6052
964932	AG1-357 E O2	23.7368	50/50	23.7368
965191	AG1-384 C	4.5705	50/50	4.5705
965192	AG1-384 E	1.3575	50/50	1.3575
965281	AG1-393 C	3.5606	50/50	3.5606
965282	AG1-393 E	2.3738	50/50	2.3738
965451	AG1-413 C O2	8.5635	50/50	8.5635

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965452	AG1-413 E O2	5.7090	50/50	5.7090
965591	AG1-427 C	21.0740	50/50	21.0740
965592	AG1-427 E	14.0790	50/50	14.0790
965601	AG1-428 C O2	2.0016	Adder	4.44
965602	AG1-428 E O2	1.3321	Adder	2.96
965641	AG1-432 C O2	35.5680	50/50	35.5680
965642	AG1-432 E O2	23.7120	50/50	23.7120
965721	AG1-440 C	2.9348	Adder	6.51
965722	AG1-440 E	1.9566	Adder	4.34
965731	AG1-441 C	2.9348	Adder	6.51
965732	AG1-441 E	1.9566	Adder	4.34
965771	AG1-445	1.6957	Adder	3.76
965781	AG1-446	1.6957	Adder	3.76
965831	AG1-451	5.9280	50/50	5.9280
966751	AG1-546 C	4.8055	Adder	10.67
966752	AG1-546 E	2.5785	Adder	5.72
CPL	CPL	0.1099	Confirmed LTF	0.1099
CALDERWOOD	CALDERWOOD	0.0457	Confirmed LTF	0.0457
NY	NY	0.0094	Confirmed LTF	0.0094
PRAIRIE	PRAIRIE	0.2893	Confirmed LTF	0.2893
O-066	O-066	0.0471	Confirmed LTF	0.0471
CBM-S2	CBM-S2	0.2192	Confirmed LTF	0.2192
CHEOAH	CHEOAH	0.0445	Confirmed LTF	0.0445
COTTONWOOD	COTTONWOOD	0.1932	Confirmed LTF	0.1932
G-007	G-007	0.0063	Confirmed LTF	0.0063
GIBSON	GIBSON	0.0672	Confirmed LTF	0.0672
BLUEG	BLUEG	0.2205	Confirmed LTF	0.2205
TRIMBLE	TRIMBLE	0.0707	Confirmed LTF	0.0707
CATAWBA	CATAWBA	0.0088	Confirmed LTF	0.0088

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173308552	314902	8CARSON	DVP	963290	AG1-178 TAP	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	99.86	100.23	DC	12.92

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3092	50/50	0.3092
314189	6PAPERMILL	-3.7784	Adder	-4.45
314435	6SAPONY	0.2570	50/50	0.2570
314539	3UNCAMP	-3.8616	Adder	-4.54
315102	1BRUNSWICKG1	13.2307	50/50	13.2307
315103	1BRUNSWICKG2	13.2307	50/50	13.2307
315104	1BRUNSWICKG3	13.2307	50/50	13.2307
315105	1BRUNSWICKS1	27.4866	50/50	27.4866
315153	1CLOVER1	15.9761	50/50	15.9761
315154	1CLOVER2	15.8169	50/50	15.8169
315241	1Z1-086 GT1	17.1480	50/50	17.1480
315242	1Z1-086 GT2	17.1480	50/50	17.1480
315243	1Z1-086 GT3	17.1480	50/50	17.1480
315244	1Z1-086 ST	29.8096	50/50	29.8096
315266	1PLYWOOD A	1.0198	50/50	1.0198
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-30.4840	Adder	-35.86
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-30.4840	Adder	-35.86
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-52.8103	Adder	-62.13
316118	AC1-105 C	4.8942	50/50	4.8942
316123	AC1-075 C	0.6875	50/50	0.6875
316131	AB2-060 C	0.8891	50/50	0.8891
316132	AB2-190 C	-11.2564	Adder	-13.24
923852	AB2-025 E	0.7319	50/50	0.7319
924022	AB2-043 E O1	1.7524	50/50	1.7524
924162	AB2-060 E OP	2.6519	50/50	2.6519
924301	AB2-077 C O1 (Suspended)	1.2522	50/50	1.2522
924302	AB2-077 E O1 (Suspended)	0.8348	50/50	0.8348
924311	AB2-078 C O1 (Suspended)	1.2522	50/50	1.2522
924312	AB2-078 E O1 (Suspended)	0.8348	50/50	0.8348
924321	AB2-079 C O1 (Suspended)	1.2522	50/50	1.2522
924322	AB2-079 E O1 (Suspended)	0.8348	50/50	0.8348
925863	AC1-065 C	-4.3013	Adder	-5.06
925997	AC1-075 E	2.4688	50/50	2.4688

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926023	AC1-080 C	0.2298	50/50	0.2298
926024	AC1-080 E	0.8191	50/50	0.8191
926274	AC1-105 E	2.4045	50/50	2.4045
926754	AC1-161 C	-33.7452	Adder	-39.7
927251	AC1-221 C	2.0468	50/50	2.0468
927252	AC1-221 E	2.0468	50/50	2.0468
927261	AC1-222 C	3.2852	50/50	3.2852
927262	AC1-222 E	3.1274	50/50	3.1274
932761	AC2-100 C	4.7104	50/50	4.7104
932762	AC2-100 E	2.2991	50/50	2.2991
934061	AD1-033 C	-9.0899	Adder	-10.69
934141	AD1-041 C	-3.1674	Adder	-3.73
934311	AD1-055 C	2.2810	50/50	2.2810
934312	AD1-055 E	0.5882	50/50	0.5882
934341	AD1-058 C	5.1310	50/50	5.1310
934342	AD1-058 E	1.3038	50/50	1.3038
934615	AD1-087 C	10.0012	50/50	10.0012
934616	AD1-087 E	4.2797	50/50	4.2797
934625	AD1-088 C	12.8927	50/50	12.8927
934626	AD1-088 E	3.3767	50/50	3.3767
934991	AD1-131 C	1.6823	50/50	1.6823
934992	AD1-131 E	1.1215	50/50	1.1215
935171	AD1-152 C O1	10.9853	50/50	10.9853
935172	AD1-152 E O1	7.3235	50/50	7.3235
936161	AD2-022 C O1	6.7644	50/50	6.7644
936162	AD2-022 E O1	4.0586	50/50	4.0586
936171	AD2-023 C O1	3.9459	50/50	3.9459
936172	AD2-023 E O1	2.1421	50/50	2.1421
936265	AD2-033 C	7.9856	50/50	7.9856
936266	AD2-033 E	5.3238	50/50	5.3238
936485	AD2-063 C	9.2745	50/50	9.2745
936486	AD2-063 E	6.1830	50/50	6.1830
937481	AD2-202 C O1	2.9294	50/50	2.9294
937482	AD2-202 E O1	1.6478	50/50	1.6478
938494	AE1-068_C1	51.6375	50/50	51.6375
938497	AE1-068_C2	51.6375	50/50	51.6375
938498	AE1-068_E1	28.5450	50/50	28.5450
938499	AE1-068_E2	28.5450	50/50	28.5450
938504	AE1-069_C1	39.3536	50/50	39.3536
938507	AE1-069_C2	42.4326	50/50	42.4326
938508	AE1-069_E1	22.3870	50/50	22.3870
938509	AE1-069_E2	24.1189	50/50	24.1189
939431	AE1-175 C	-1.8138	Adder	-2.13
940231	AE2-005 C	-0.7820	Adder	-0.92
940471	AE2-031 C	56.5831	50/50	56.5831
940472	AE2-031 E	37.7220	50/50	37.7220
940481	AE2-033 C	10.0303	50/50	10.0303
940482	AE2-033 E	6.7620	50/50	6.7620
940541	AE2-040	1.8534	50/50	1.8534
940552	AE2-041 BAT	4.9116	50/50	4.9116
940891	AE2-078 C	-2.0107	Adder	-2.37
940901	AE2-079 C	-2.0107	Adder	-2.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941031	AE2-094 C	68.3097	50/50	68.3097
941032	AE2-094 E	30.5943	50/50	30.5943
941791	AE2-182 C	2.0946	50/50	2.0946
941792	AE2-182 E	0.9751	50/50	0.9751
942131	AE2-225 C	-2.4492	Adder	-2.88
942171	AE2-229 C	-1.8369	Adder	-2.16
942451	AE2-258	1.4620	50/50	1.4620
942552	AE2-270 BAT	18.7320	50/50	18.7320
942931	AE2-313 C	61.1245	50/50	61.1245
942932	AE2-313 E	40.7497	50/50	40.7497
943472	AF1-018 BAT	4.9116	50/50	4.9116
943611	AF1-032 C	-2.0002	Adder	-2.35
943621	AF1-033 C	-2.0107	Adder	-2.37
943901	AF1-058 C	1.8214	50/50	1.8214
943902	AF1-058 E	1.2142	50/50	1.2142
944011	AF1-069 C	22.3193	50/50	22.3193
944012	AF1-069 E	8.6706	50/50	8.6706
945363	AF1-201 BAT	3.3658	50/50	3.3658
945811	AF1-246 C O1	10.7961	50/50	10.7961
945812	AF1-246 E O1	14.9089	50/50	14.9089
946011	AF1-266	8.3962	50/50	8.3962
957481	AF2-042 C	77.1150	50/50	77.1150
957482	AF2-042 E	51.4100	50/50	51.4100
957491	AF2-043 C	-2.4492	Adder	-2.88
957632	AF2-057 BAT	5.0526	50/50	5.0526
959751	AF2-266	11.4680	50/50	11.4680
960061	AF2-297 C	7.2854	50/50	7.2854
960062	AF2-297 E	4.8570	50/50	4.8570
961091	AF2-400 C	-0.2729	Adder	-0.32
961612	AG1-000B BAT	9.7725	50/50	9.7725
961691	AG1-009 BAT	7.8180	50/50	7.8180
961712	AG1-011 BAT	20.8480	50/50	20.8480
961853	AG1-028 BAT	21.3900	50/50	21.3900
962132	AG1-057 BAT	2.4558	50/50	2.4558
962271	AG1-075 C O2	10.5036	50/50	10.5036
962272	AG1-075 E O2	6.4014	50/50	6.4014
962441	AG1-093 C O2	18.6521	50/50	18.6521
962442	AG1-093 E O2	5.6767	50/50	5.6767
962491	AG1-098 C O2	7.7535	50/50	7.7535
962492	AG1-098 E O2	5.1690	50/50	5.1690
962561	AG1-105 C O2	7.6428	50/50	7.6428
962562	AG1-105 E O2	5.0952	50/50	5.0952
963041	AG1-153 C	9.2835	50/50	9.2835
963042	AG1-153 E	13.9253	50/50	13.9253
963111	AG1-160 C	9.4788	50/50	9.4788
963112	AG1-160 E	14.2182	50/50	14.2182
963271	AG1-176 C O2	11.6825	50/50	11.6825
963272	AG1-176 E O2	7.7884	50/50	7.7884
963321	AG1-181 C O2	10.3304	50/50	10.3304
963613	AG1-210 BAT	1.0459	50/50	1.0459
964241	AG1-285 C O2	19.7310	50/50	19.7310
964242	AG1-285 E O2	13.1540	50/50	13.1540

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964261	AG1-287 C	1.3660	50/50	1.3660
964262	AG1-287 E	0.9107	50/50	0.9107
964471	AG1-310 C	1.8769	50/50	1.8769
964472	AG1-310 E	0.9245	50/50	0.9245
964791	AG1-342 C	3.3221	50/50	3.3221
964792	AG1-342 E	2.6102	50/50	2.6102
964841	AG1-347 C	9.6981	50/50	9.6981
964842	AG1-347 E	7.6199	50/50	7.6199
964931	AG1-357 C O2	12.3720	50/50	12.3720
964932	AG1-357 E O2	8.2480	50/50	8.2480
964952	AG1-359 BAT	38.2185	50/50	38.2185
965003	AG1-364 BAT	25.1120	50/50	25.1120
965183	AG1-383 BAT	2.1602	50/50	2.1602
965591	AG1-427 C	7.3382	50/50	7.3382
965592	AG1-427 E	4.9025	50/50	4.9025
965811	AG1-449	39.6732	50/50	39.6732
966361	AG1-505 C	26.9838	50/50	26.9838
966362	AG1-505 E	17.9892	50/50	17.9892
966371	AG1-506 C	26.9838	50/50	26.9838
966372	AG1-506 E	17.9892	50/50	17.9892
966492	AG1-518 BAT	11.9055	50/50	11.9055
966663	AG1-536 BAT	8.3655	50/50	8.3655
966932	AG1-431A BAT	28.2400	50/50	28.2400
WEC	WEC	0.8467	Confirmed LTF	0.8467
LGEE	LGEE	1.7379	Confirmed LTF	1.7379
CPL	CPL	7.7211	Confirmed LTF	7.7211
CBM-W2	CBM-W2	36.0461	Confirmed LTF	36.0461
NY	NY	0.9473	Confirmed LTF	0.9473
TVA	TVA	6.7368	Confirmed LTF	6.7368
O-066	O-066	13.6081	Confirmed LTF	13.6081
SIGE	SIGE	0.5209	Confirmed LTF	0.5209
CBM-S2	CBM-S2	96.6535	Confirmed LTF	96.6535
CBM-S1	CBM-S1	1.6872	Confirmed LTF	1.6872
G-007	G-007	2.1420	Confirmed LTF	2.1420
MEC	MEC	5.0053	Confirmed LTF	5.0053
LAGN	LAGN	8.3720	Confirmed LTF	8.3720
AA2-074	AA2-074	5.1021	LTF	5.1021
CBM-W1	CBM-W1	35.6248	Confirmed LTF	35.6248

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174174205	933500	AC2-165 TAP	DVP	314333	6POWHATN	DVP	1	DVP_P4-2: 2028T2054	breaker	980.0	99.89	101.23	DC	13.07

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.7662	50/50	0.7662
314429	3JTRSVLE	0.4836	50/50	0.4836
314677	6BUCKING	0.8052	50/50	0.8052
314713	3PAMPLIN	2.0195	50/50	2.0195
315191	1BEARGRDN G1	14.2651	50/50	14.2651
315192	1BEARGRDN G2	14.2651	50/50	14.2651
315193	1BEARGRDN S1	18.4475	50/50	18.4475
924022	AB2-043 E O1	1.3540	Adder	1.59
924032	AB2-045 E	2.3818	50/50	2.3818
924162	AB2-060 E OP	2.1312	Adder	2.51
924301	AB2-077 C O1 (Suspended)	0.9344	Adder	1.1
924302	AB2-077 E O1 (Suspended)	0.6229	Adder	0.73
924311	AB2-078 C O1 (Suspended)	0.9344	Adder	1.1
924312	AB2-078 E O1 (Suspended)	0.6229	Adder	0.73
924321	AB2-079 C O1 (Suspended)	0.9344	Adder	1.1
924322	AB2-079 E O1 (Suspended)	0.6229	Adder	0.73
925611	AC1-036 C	0.1990	50/50	0.1990
925612	AC1-036 E	0.7555	50/50	0.7555
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7933	50/50	0.7933
932512	AC2-071 E (Withdrawn : 01/22/2021)	2.5331	50/50	2.5331
933501	AC2-165 C	39.2348	50/50	39.2348
933502	AC2-165 E	29.5294	50/50	29.5294
934625	AD1-088 C	10.6936	50/50	10.6936
934626	AD1-088 E	2.8007	50/50	2.8007
935221	AD1-157 C	0.2946	50/50	0.2946
935222	AD1-157 E	1.2451	50/50	1.2451
936265	AD2-033 C	10.6548	50/50	10.6548
936266	AD2-033 E	7.1032	50/50	7.1032
936485	AD2-063 C	10.3014	50/50	10.3014
936486	AD2-063 E	6.8676	50/50	6.8676
938371	AE1-056 C	8.0514	50/50	8.0514
938372	AE1-056 E	4.3992	50/50	4.3992
938821	AE1-108 C O1	29.4265	50/50	29.4265
938822	AE1-108 E O1	13.2067	50/50	13.2067

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941011	AE2-092 C	25.3948	50/50	25.3948
941012	AE2-092 E	16.9298	50/50	16.9298
941791	AE2-182 C	1.7373	50/50	1.7373
941792	AE2-182 E	0.8088	50/50	0.8088
942451	AE2-258	1.1297	Adder	1.33
942461	AE2-259 C O1	15.0528	50/50	15.0528
942462	AE2-259 E O1	10.0352	50/50	10.0352
946291	AF1-293 C O1	39.6354	50/50	39.6354
946292	AF1-293 E O1	7.1300	50/50	7.1300
946301	AF1-294 C	4.8848	50/50	4.8848
946302	AF1-294 E	3.2565	50/50	3.2565
946591	AF1-323 C	9.4456	50/50	9.4456
946592	AF1-323 E	6.2971	50/50	6.2971
957912	AF2-085 BAT	1.8662	Merchant Transmission	1.8662
958131	AF2-107 C	4.3996	50/50	4.3996
958132	AF2-107 E	2.4109	50/50	2.4109
958211	AF2-115 C	2.8734	50/50	2.8734
958212	AF2-115 E	1.9156	50/50	1.9156
958503	AF2-144 BAT	2.6636	50/50	2.6636
958801	AF2-171 C	17.1612	50/50	17.1612
958802	AF2-171 E	11.4408	50/50	11.4408
959311	AF2-222 C	15.3100	50/50	15.3100
959312	AF2-222 E	10.2577	50/50	10.2577
960111	AF2-302 C	3.4348	50/50	3.4348
960112	AF2-302 E	2.2898	50/50	2.2898
961061	AF2-397 C	36.6655	50/50	36.6655
961062	AF2-397 E	24.4436	50/50	24.4436
961791	AG1-021 C	2.2987	50/50	2.2987
961792	AG1-021 E	1.5325	50/50	1.5325
961801	AG1-022 C	3.4348	50/50	3.4348
961802	AG1-022 E	2.2898	50/50	2.2898
961891	AG1-030 C	15.8319	50/50	15.8319
961892	AG1-030 E	10.5546	50/50	10.5546
962041	AG1-048 C	14.3670	50/50	14.3670
962042	AG1-048 E	9.5780	50/50	9.5780
962491	AG1-098 C O2	7.8412	50/50	7.8412
962492	AG1-098 E O2	5.2275	50/50	5.2275
963171	AG1-166 C	2.2987	50/50	2.2987
963172	AG1-166 E	1.5325	50/50	1.5325
963181	AG1-167 C	2.2987	50/50	2.2987
963182	AG1-167 E	1.5325	50/50	1.5325
963191	AG1-168 C	2.2987	50/50	2.2987
963192	AG1-168 E	1.5325	50/50	1.5325
963201	AG1-169 C	2.2987	50/50	2.2987
963202	AG1-169 E	1.5325	50/50	1.5325
963211	AG1-170 C	2.2987	50/50	2.2987
963212	AG1-170 E	1.5325	50/50	1.5325
963271	AG1-176 C O2	21.5540	50/50	21.5540
963272	AG1-176 E O2	14.3693	50/50	14.3693
963321	AG1-181 C O2	14.3538	50/50	14.3538
963361	AG1-185 O2	6.9447	50/50	6.9447
963641	AG1-215 C	1.0727	50/50	1.0727

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963642	AG1-215 E	1.6091	50/50	1.6091
964111	AG1-272 C	2.2621	50/50	2.2621
964112	AG1-272 E	0.6719	50/50	0.6719
964121	AG1-273 C	2.2621	50/50	2.2621
964122	AG1-273 E	0.6719	50/50	0.6719
964131	AG1-274 C	2.2621	50/50	2.2621
964132	AG1-274 E	0.6719	50/50	0.6719
964231	AG1-284 C O2	17.0667	50/50	17.0667
964232	AG1-284 E O2	11.3778	50/50	11.3778
964821	AG1-345 C	0.9169	50/50	0.9169
964822	AG1-345 E	0.6113	50/50	0.6113
964841	AG1-347 C	9.1314	50/50	9.1314
964842	AG1-347 E	7.1746	50/50	7.1746
964931	AG1-357 C O2	13.6428	50/50	13.6428
964932	AG1-357 E O2	9.0952	50/50	9.0952
965191	AG1-384 C	2.2621	50/50	2.2621
965192	AG1-384 E	0.6719	50/50	0.6719
965281	AG1-393 C	2.2987	50/50	2.2987
965282	AG1-393 E	1.5325	50/50	1.5325
965581	AG1-426	6.4110	50/50	6.4110
965591	AG1-427 C	7.7904	50/50	7.7904
965592	AG1-427 E	5.2046	50/50	5.2046
965641	AG1-432 C O2	30.1056	50/50	30.1056
965642	AG1-432 E O2	20.0704	50/50	20.0704
965831	AG1-451	5.0176	50/50	5.0176
966251	AG1-494 C	0.7504	Adder	1.67
966252	AG1-494 E	1.1257	Adder	2.5
966791	AG1-550 O2	14.2222	50/50	14.2222
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1938	50/50	4.1938
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	2.7958	50/50	2.7958
WEC	WEC	0.2117	Confirmed LTF	0.2117
LGEE	LGEE	0.4524	Confirmed LTF	0.4524
CPL	CPL	1.0968	Confirmed LTF	1.0968
CBM-W2	CBM-W2	7.6877	Confirmed LTF	7.6877
NY	NY	0.3639	Confirmed LTF	0.3639
TVA	TVA	1.3692	Confirmed LTF	1.3692
O-066	O-066	5.2023	Confirmed LTF	5.2023
SIGE	SIGE	0.1580	Confirmed LTF	0.1580
CBM-S2	CBM-S2	14.8039	Confirmed LTF	14.8039
CBM-S1	CBM-S1	0.3538	Confirmed LTF	0.3538
G-007	G-007	0.8190	Confirmed LTF	0.8190
MEC	MEC	1.1727	Confirmed LTF	1.1727
LAGN	LAGN	1.6660	Confirmed LTF	1.6660
CBM-W1	CBM-W1	8.9027	Confirmed LTF	8.9027

13.5.8 Index 8

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173795249	962490	AG1-098 TAP	DVP	313898	3BUTCHER CRK	DVP	1	DVP_P4-2: 1T158	breaker	349.0	137.89	173.7	DC	124.99

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	3.9997	50/50	3.9997
314429	3JTRSVLE	2.5241	50/50	2.5241
936265	AD2-033 C	77.9938	50/50	77.9938
936266	AD2-033 E	51.9958	50/50	51.9958
946301	AF1-294 C	25.4980	50/50	25.4980
946302	AF1-294 E	16.9986	50/50	16.9986
958211	AF2-115 C	14.9988	50/50	14.9988
958212	AF2-115 E	9.9992	50/50	9.9992
961791	AG1-021 C	11.9990	50/50	11.9990
961792	AG1-021 E	7.9994	50/50	7.9994
961891	AG1-030 C	89.9928	50/50	89.9928
961892	AG1-030 E	59.9952	50/50	59.9952
962041	AG1-048 C	74.9940	50/50	74.9940
962042	AG1-048 E	49.9960	50/50	49.9960
962491	AG1-098 C O2	74.9940	50/50	74.9940
962492	AG1-098 E O2	49.9960	50/50	49.9960
963171	AG1-166 C	11.9990	50/50	11.9990
963172	AG1-166 E	7.9994	50/50	7.9994
963181	AG1-167 C	11.9990	50/50	11.9990
963182	AG1-167 E	7.9994	50/50	7.9994
963191	AG1-168 C	11.9990	50/50	11.9990
963192	AG1-168 E	7.9994	50/50	7.9994
963201	AG1-169 C	11.9990	50/50	11.9990
963202	AG1-169 E	7.9994	50/50	7.9994
963211	AG1-170 C	11.9990	50/50	11.9990
963212	AG1-170 E	7.9994	50/50	7.9994
964821	AG1-345 C	4.7996	50/50	4.7996
964822	AG1-345 E	3.1997	50/50	3.1997
964931	AG1-357 C O2	119.9904	50/50	119.9904
964932	AG1-357 E O2	79.9936	50/50	79.9936
CALDERWOOD	CALDERWOOD	0.0040	Confirmed LTF	0.0040
NY	NY	0.0044	Confirmed LTF	0.0044
PRAIRIE	PRAIRIE	0.0207	Confirmed LTF	0.0207
O-066	O-066	0.0538	Confirmed LTF	0.0538
CHEOAH	CHEOAH	0.0040	Confirmed LTF	0.0040
COTTONWOOD	COTTONWOOD	0.0168	Confirmed LTF	0.0168
G-007	G-007	0.0084	Confirmed LTF	0.0084
HAMLET	HAMLET	0.0046	Confirmed LTF	0.0046
GIBSON	GIBSON	0.0044	Confirmed LTF	0.0044
BLUEG	BLUEG	0.0139	Confirmed LTF	0.0139
TRIMBLE	TRIMBLE	0.0045	Confirmed LTF	0.0045

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CATAWBA	CATAWBA	0.0028	Confirmed LTF	0.0028

13.5.9 Index 9

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173308522	963290	AG1-178 TAP	DVP	939410	AE1-173_POI	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	99.92	100.3	DC	12.92

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3092	50/50	0.3092
314189	6PAPERMILL	-3.7784	Adder	-4.45
314435	6SAPONY	0.2570	50/50	0.2570
314539	3UNCAMP	-3.8616	Adder	-4.54
315102	1BRUNSWICKG1	13.2307	50/50	13.2307
315103	1BRUNSWICKG2	13.2307	50/50	13.2307
315104	1BRUNSWICKG3	13.2307	50/50	13.2307
315105	1BRUNSWICKS1	27.4866	50/50	27.4866
315153	1CLOVER1	15.9761	50/50	15.9761
315154	1CLOVER2	15.8169	50/50	15.8169
315241	1Z1-086 GT1	17.1480	50/50	17.1480
315242	1Z1-086 GT2	17.1480	50/50	17.1480
315243	1Z1-086 GT3	17.1480	50/50	17.1480
315244	1Z1-086 ST	29.8096	50/50	29.8096
315266	1PLYWOOD A	1.0198	50/50	1.0198
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-30.4840	Adder	-35.86
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-30.4840	Adder	-35.86
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-52.8103	Adder	-62.13
316118	AC1-105 C	4.8942	50/50	4.8942
316123	AC1-075 C	0.6875	50/50	0.6875
316131	AB2-060 C	0.8891	50/50	0.8891
316132	AB2-190 C	-11.2564	Adder	-13.24
923852	AB2-025 E	0.7319	50/50	0.7319
924022	AB2-043 E O1	1.7524	50/50	1.7524
924162	AB2-060 E OP	2.6519	50/50	2.6519
924301	AB2-077 C O1 (Suspended)	1.2522	50/50	1.2522
924302	AB2-077 E O1 (Suspended)	0.8348	50/50	0.8348
924311	AB2-078 C O1 (Suspended)	1.2522	50/50	1.2522
924312	AB2-078 E O1 (Suspended)	0.8348	50/50	0.8348
924321	AB2-079 C O1 (Suspended)	1.2522	50/50	1.2522
924322	AB2-079 E O1 (Suspended)	0.8348	50/50	0.8348
925863	AC1-065 C	-4.3013	Adder	-5.06
925997	AC1-075 E	2.4688	50/50	2.4688

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926023	AC1-080 C	0.2298	50/50	0.2298
926024	AC1-080 E	0.8191	50/50	0.8191
926274	AC1-105 E	2.4045	50/50	2.4045
926754	AC1-161 C	-33.7452	Adder	-39.7
927251	AC1-221 C	2.0468	50/50	2.0468
927252	AC1-221 E	2.0468	50/50	2.0468
927261	AC1-222 C	3.2852	50/50	3.2852
927262	AC1-222 E	3.1274	50/50	3.1274
932761	AC2-100 C	4.7104	50/50	4.7104
932762	AC2-100 E	2.2991	50/50	2.2991
934061	AD1-033 C	-9.0899	Adder	-10.69
934141	AD1-041 C	-3.1674	Adder	-3.73
934311	AD1-055 C	2.2810	50/50	2.2810
934312	AD1-055 E	0.5882	50/50	0.5882
934341	AD1-058 C	5.1310	50/50	5.1310
934342	AD1-058 E	1.3038	50/50	1.3038
934615	AD1-087 C	10.0012	50/50	10.0012
934616	AD1-087 E	4.2797	50/50	4.2797
934625	AD1-088 C	12.8927	50/50	12.8927
934626	AD1-088 E	3.3767	50/50	3.3767
934991	AD1-131 C	1.6823	50/50	1.6823
934992	AD1-131 E	1.1215	50/50	1.1215
935171	AD1-152 C O1	10.9853	50/50	10.9853
935172	AD1-152 E O1	7.3235	50/50	7.3235
936161	AD2-022 C O1	6.7644	50/50	6.7644
936162	AD2-022 E O1	4.0586	50/50	4.0586
936171	AD2-023 C O1	3.9459	50/50	3.9459
936172	AD2-023 E O1	2.1421	50/50	2.1421
936265	AD2-033 C	7.9856	50/50	7.9856
936266	AD2-033 E	5.3238	50/50	5.3238
936485	AD2-063 C	9.2745	50/50	9.2745
936486	AD2-063 E	6.1830	50/50	6.1830
937481	AD2-202 C O1	2.9294	50/50	2.9294
937482	AD2-202 E O1	1.6478	50/50	1.6478
938494	AE1-068_C1	51.6375	50/50	51.6375
938497	AE1-068_C2	51.6375	50/50	51.6375
938498	AE1-068_E1	28.5450	50/50	28.5450
938499	AE1-068_E2	28.5450	50/50	28.5450
938504	AE1-069_C1	39.3536	50/50	39.3536
938507	AE1-069_C2	42.4326	50/50	42.4326
938508	AE1-069_E1	22.3870	50/50	22.3870
938509	AE1-069_E2	24.1189	50/50	24.1189
939431	AE1-175 C	-1.8138	Adder	-2.13
940231	AE2-005 C	-0.7820	Adder	-0.92
940471	AE2-031 C	56.5831	50/50	56.5831
940472	AE2-031 E	37.7220	50/50	37.7220
940481	AE2-033 C	10.0303	50/50	10.0303
940482	AE2-033 E	6.7620	50/50	6.7620
940541	AE2-040	1.8534	50/50	1.8534
940552	AE2-041 BAT	4.9116	50/50	4.9116
940891	AE2-078 C	-2.0107	Adder	-2.37
940901	AE2-079 C	-2.0107	Adder	-2.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941031	AE2-094 C	68.3097	50/50	68.3097
941032	AE2-094 E	30.5943	50/50	30.5943
941791	AE2-182 C	2.0946	50/50	2.0946
941792	AE2-182 E	0.9751	50/50	0.9751
942131	AE2-225 C	-2.4492	Adder	-2.88
942171	AE2-229 C	-1.8369	Adder	-2.16
942451	AE2-258	1.4620	50/50	1.4620
942552	AE2-270 BAT	18.7320	50/50	18.7320
942931	AE2-313 C	61.1245	50/50	61.1245
942932	AE2-313 E	40.7497	50/50	40.7497
943472	AF1-018 BAT	4.9116	50/50	4.9116
943611	AF1-032 C	-2.0002	Adder	-2.35
943621	AF1-033 C	-2.0107	Adder	-2.37
943901	AF1-058 C	1.8214	50/50	1.8214
943902	AF1-058 E	1.2142	50/50	1.2142
944011	AF1-069 C	22.3193	50/50	22.3193
944012	AF1-069 E	8.6706	50/50	8.6706
945363	AF1-201 BAT	3.3658	50/50	3.3658
945811	AF1-246 C O1	10.7961	50/50	10.7961
945812	AF1-246 E O1	14.9089	50/50	14.9089
946011	AF1-266	8.3962	50/50	8.3962
957481	AF2-042 C	77.1150	50/50	77.1150
957482	AF2-042 E	51.4100	50/50	51.4100
957491	AF2-043 C	-2.4492	Adder	-2.88
957632	AF2-057 BAT	5.0526	50/50	5.0526
959751	AF2-266	11.4680	50/50	11.4680
960061	AF2-297 C	7.2854	50/50	7.2854
960062	AF2-297 E	4.8570	50/50	4.8570
961091	AF2-400 C	-0.2729	Adder	-0.32
961612	AG1-000B BAT	9.7725	50/50	9.7725
961691	AG1-009 BAT	7.8180	50/50	7.8180
961712	AG1-011 BAT	20.8480	50/50	20.8480
961853	AG1-028 BAT	21.3900	50/50	21.3900
962132	AG1-057 BAT	2.4558	50/50	2.4558
962271	AG1-075 C O2	10.5036	50/50	10.5036
962272	AG1-075 E O2	6.4014	50/50	6.4014
962441	AG1-093 C O2	18.6521	50/50	18.6521
962442	AG1-093 E O2	5.6767	50/50	5.6767
962491	AG1-098 C O2	7.7535	50/50	7.7535
962492	AG1-098 E O2	5.1690	50/50	5.1690
962561	AG1-105 C O2	7.6428	50/50	7.6428
962562	AG1-105 E O2	5.0952	50/50	5.0952
963041	AG1-153 C	9.2835	50/50	9.2835
963042	AG1-153 E	13.9253	50/50	13.9253
963111	AG1-160 C	9.4788	50/50	9.4788
963112	AG1-160 E	14.2182	50/50	14.2182
963271	AG1-176 C O2	11.6825	50/50	11.6825
963272	AG1-176 E O2	7.7884	50/50	7.7884
963291	AG1-178 C O2	131.5909	50/50	131.5909
963321	AG1-181 C O2	10.3304	50/50	10.3304
963351	AG1-184 O2	70.8940	50/50	70.8940
963613	AG1-210 BAT	1.0459	50/50	1.0459

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964241	AG1-285 C O2	19.7310	50/50	19.7310
964242	AG1-285 E O2	13.1540	50/50	13.1540
964261	AG1-287 C	1.3660	50/50	1.3660
964262	AG1-287 E	0.9107	50/50	0.9107
964471	AG1-310 C	1.8769	50/50	1.8769
964472	AG1-310 E	0.9245	50/50	0.9245
964791	AG1-342 C	3.3221	50/50	3.3221
964792	AG1-342 E	2.6102	50/50	2.6102
964841	AG1-347 C	9.6981	50/50	9.6981
964842	AG1-347 E	7.6199	50/50	7.6199
964931	AG1-357 C O2	12.3720	50/50	12.3720
964932	AG1-357 E O2	8.2480	50/50	8.2480
964952	AG1-359 BAT	38.2185	50/50	38.2185
965003	AG1-364 BAT	25.1120	50/50	25.1120
965183	AG1-383 BAT	2.1602	50/50	2.1602
965591	AG1-427 C	7.3382	50/50	7.3382
965592	AG1-427 E	4.9025	50/50	4.9025
965811	AG1-449	39.6732	50/50	39.6732
966361	AG1-505 C	26.9838	50/50	26.9838
966362	AG1-505 E	17.9892	50/50	17.9892
966371	AG1-506 C	26.9838	50/50	26.9838
966372	AG1-506 E	17.9892	50/50	17.9892
966492	AG1-518 BAT	11.9055	50/50	11.9055
966663	AG1-536 BAT	8.3655	50/50	8.3655
966932	AG1-431A BAT	28.2400	50/50	28.2400
WEC	WEC	0.8467	Confirmed LTF	0.8467
LGEE	LGEE	1.7379	Confirmed LTF	1.7379
CPL	CPL	7.7211	Confirmed LTF	7.7211
CBM-W2	CBM-W2	36.0461	Confirmed LTF	36.0461
NY	NY	0.9473	Confirmed LTF	0.9473
TVA	TVA	6.7368	Confirmed LTF	6.7368
O-066	O-066	13.6081	Confirmed LTF	13.6081
SIGE	SIGE	0.5209	Confirmed LTF	0.5209
CBM-S2	CBM-S2	96.6535	Confirmed LTF	96.6535
CBM-S1	CBM-S1	1.6872	Confirmed LTF	1.6872
G-007	G-007	2.1420	Confirmed LTF	2.1420
MEC	MEC	5.0053	Confirmed LTF	5.0053
LAGN	LAGN	8.3720	Confirmed LTF	8.3720
AA2-074	AA2-074	5.1021	LTF	5.1021
CBM-W1	CBM-W1	35.6248	Confirmed LTF	35.6248

13.5.10 Index 10

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168096757	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	118.42	119.77	DC	5.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.2723	Adder	2.67
313527	AB2-043 C	0.2209	80/20	0.2209
313719	3CHESTNUT	0.5595	80/20	0.5595
314572	3EMPORIA	0.1370	Adder	0.16
314582	3KELFORD	0.1465	80/20	0.1465
314623	3WITAKRS	0.1084	80/20	0.1084
315126	1ROARAP2	0.5492	80/20	0.5492
315128	1ROARAP4	0.5241	80/20	0.5241
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.9062	80/20	4.9062
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.9062	80/20	4.9062
315136	1ROSEMG1	0.8438	80/20	0.8438
315137	1ROSEMS1	0.5232	80/20	0.5232
315138	1ROSEMG2	0.3955	80/20	0.3955
315153	1CLOVER1	4.8431	80/20	4.8431
315154	1CLOVER2	4.7949	80/20	4.7949
315158	1KERR 1	0.1936	80/20	0.1936
315159	1KERR 2	0.5421	80/20	0.5421
315160	1KERR 3	0.5421	80/20	0.5421
315161	1KERR 4	0.5421	80/20	0.5421
315162	1KERR 5	0.5421	80/20	0.5421
315163	1KERR 6	0.5421	80/20	0.5421
315164	1KERR 7	0.5421	80/20	0.5421
315266	1PLYWOOD A	0.5917	80/20	0.5917
315293	1DOMTR9	2.2091	Adder	2.6
315294	1DOMTR10	2.7072	Adder	3.18
315601	1CONETOE2SOL	0.6666	80/20	0.6666
315606	3AA2-053SOLA	0.5921	80/20	0.5921
316020	AB2-059 C OP	0.8793	80/20	0.8793
316118	AC1-105 C	2.8038	80/20	2.8038
316129	AC1-054 C	3.3922	80/20	3.3922
316131	AB2-060 C	0.6316	80/20	0.6316
316140	AB2-099 C (Suspended)	0.1921	Adder	0.23
920591	AA2-165 C	0.0751	80/20	0.0751
922922	AB1-081 C OP	0.7460	80/20	0.7460
923991	AB2-040 C O1	2.4748	Adder	2.91
924301	AB2-077 C O1 (Suspended)	0.8962	80/20	0.8962

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924311	AB2-078 C O1 (Suspended)	0.8962	80/20	0.8962
924321	AB2-079 C O1 (Suspended)	0.8962	80/20	0.8962
925591	AC1-034 C	3.6098	80/20	3.6098
926051	AC1-083 C O1	4.9267	80/20	4.9267
926070	AC1-086 C	7.1225	Adder	8.38
926201	AC1-098 C	2.7689	80/20	2.7689
926211	AC1-099 C	0.9279	80/20	0.9279
927024	AC1-189 C	4.1711	80/20	4.1711
927145	AC1-208 C	4.1616	80/20	4.1616
927251	AC1-221 C	1.8225	80/20	1.8225
927261	AC1-222 C	1.7942	80/20	1.7942
932631	AC2-084 C	3.9471	80/20	3.9471
932761	AC2-100 C	4.1943	80/20	4.1943
933941	AD1-017 C	0.9853	80/20	0.9853
933991	AD1-023 C	4.0525	Adder	4.77
934311	AD1-055 C	1.2458	80/20	1.2458
934331	AD1-057 C O1	4.7373	80/20	4.7373
934341	AD1-058 C	4.5688	80/20	4.5688
934615	AD1-087 C	3.0476	80/20	3.0476
934625	AD1-088 C	3.7118	Adder	4.37
934991	AD1-131 C	1.4980	80/20	1.4980
935171	AD1-152 C O1	3.3475	80/20	3.3475
936161	AD2-022 C O1	12.2316	80/20	12.2316
936171	AD2-023 C O1	7.1351	80/20	7.1351
936265	AD2-033 C	5.3407	80/20	5.3407
936361	AD2-046 C O1	4.4130	80/20	4.4130
936401	AD2-051 C O1	2.8492	Adder	3.35
936485	AD2-063 C	6.4260	80/20	6.4260
937481	AD2-202 C O1	0.8927	80/20	0.8927
939181	AE1-148 C	4.3346	80/20	4.3346
940081	AE1-250 C	16.7625	80/20	16.7625
940571	AE2-044 C	2.3643	80/20	2.3643
940661	AE2-053 O1	1.6054	80/20	1.6054
941791	AE2-182 C	0.6030	Adder	0.71
942451	AE2-258	1.0445	80/20	1.0445
943171	AE2-346 C	0.4611	Adder	0.54
943901	AF1-058 C	0.9977	80/20	0.9977
943911	AF1-059	6.8914	80/20	6.8914
944141	AF1-082	1.5199	80/20	1.5199
945811	AF1-246 C O1	2.3280	Adder	2.74
946281	AF1-292 C	0.4826	Adder	0.57
946301	AF1-294 C	1.3261	Adder	1.56
957481	AF2-042 C	16.6285	Adder	19.56
957521	AF2-046 C	5.3511	Adder	6.3
957861	AF2-080 C	3.7883	80/20	3.7883
958211	AF2-115 C	0.7800	Adder	0.92
958801	AF2-171 C	4.6894	Adder	5.52
959311	AF2-222 C	5.6338	Adder	6.63
959511	AF2-242 C	3.1500	80/20	3.1500
959751	AF2-266	3.4765	80/20	3.4765
960061	AF2-297 C	3.9907	80/20	3.9907

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960081	AF2-299 C	0.8133	Adder	0.96
961671	AG1-007 C	0.6235	80/20	0.6235
961681	AG1-008 C	2.8418	Adder	6.31
961791	AG1-021 C	0.3307	Adder	0.73
961891	AG1-030 C	2.5649	Adder	5.69
961931	AG1-036 C	0.2331	Adder	0.52
961941	AG1-037 C	0.0873	Adder	0.19
962041	AG1-048 C	2.0671	Adder	4.59
962331	AG1-082 C	0.3491	Adder	0.77
962341	AG1-083 C	0.3491	Adder	0.77
962351	AG1-084 C	0.3084	Adder	0.68
962361	AG1-085 C	0.3084	Adder	0.68
962441	AG1-093 C O2	7.4345	80/20	7.4345
962491	AG1-098 C O2	5.4540	80/20	5.4540
962561	AG1-105 C O2	4.7124	80/20	4.7124
962571	AG1-106 C	1.0498	Adder	2.33
963171	AG1-166 C	0.3307	Adder	0.73
963181	AG1-167 C	0.3307	Adder	0.73
963191	AG1-168 C	0.3307	Adder	0.73
963201	AG1-169 C	0.3307	Adder	0.73
963211	AG1-170 C	0.3307	Adder	0.73
963301	AG1-179 C	1.0263	Adder	2.28
963311	AG1-180	0.5000	Adder	1.11
963321	AG1-181 C O2	6.8488	80/20	6.8488
963361	AG1-185 O2	3.3137	80/20	3.3137
963641	AG1-215 C	0.1543	Adder	0.34
964111	AG1-272 C	0.4663	Adder	1.04
964121	AG1-273 C	0.4663	Adder	1.04
964131	AG1-274 C	0.4663	Adder	1.04
964241	AG1-285 C O2	2.1715	Adder	4.82
964261	AG1-287 C	0.7483	80/20	0.7483
964471	AG1-310 C	1.0236	80/20	1.0236
964491	AG1-312 C O1	3.2055	Adder	7.12
964501	AG1-313 C O2	0.8400	Adder	1.86
964791	AG1-342 C	2.0004	80/20	2.0004
964801	AG1-343 C	0.9747	Adder	2.16
964821	AG1-345 C	0.1324	Adder	0.29
964931	AG1-357 C O2	8.5812	80/20	8.5812
965191	AG1-384 C	0.4663	Adder	1.04
965281	AG1-393 C	0.3307	Adder	0.73
965291	AG1-394 C	0.3332	Adder	0.74
965451	AG1-413 C O2	2.9136	80/20	2.9136
965591	AG1-427 C	5.1228	80/20	5.1228
965601	AG1-428 C O2	0.8568	Adder	1.9
965691	AG1-437 C O1	1.6775	Adder	3.72
965701	AG1-438 C O1	1.6775	Adder	3.72
965711	AG1-439 C O1	11.9580	80/20	11.9580
965721	AG1-440 C	3.5896	80/20	3.5896
965731	AG1-441 C	3.5896	80/20	3.5896
965741	AG1-442 O1	0.9785	Adder	2.17
965751	AG1-443 O1	0.9785	Adder	2.17
965761	AG1-444 O1	6.3776	80/20	6.3776

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965771	AG1-445	2.0740	80/20	2.0740
965781	AG1-446	2.0740	80/20	2.0740
966621	AG1-532 C	0.2328	Adder	0.52
966751	AG1-546 C	7.3693	80/20	7.3693
966801	AG1-551 C	1.0116	80/20	1.0116
966811	AG1-552 C	0.8720	80/20	0.8720
CPL	CPL	6.7370	Confirmed LTF	6.7370
G-007A	G-007A	1.0861	Confirmed LTF	1.0861
VFT	VFT	2.8767	Confirmed LTF	2.8767
CBM-W2	CBM-W2	2.6701	Confirmed LTF	2.6701
PRAIRIE	PRAIRIE	0.7439	Confirmed LTF	0.7439
TVA	TVA	1.3328	Confirmed LTF	1.3328
CBM-S2	CBM-S2	76.2955	Confirmed LTF	76.2955
CBM-S1	CBM-S1	0.2120	Confirmed LTF	0.2120
CBM-N	CBM-N	0.5172	Confirmed LTF	0.5172
GIBSON	GIBSON	0.5700	Confirmed LTF	0.5700
BLUEG	BLUEG	2.1804	Confirmed LTF	2.1804
TRIMBLE	TRIMBLE	0.7173	Confirmed LTF	0.7173
LAGN	LAGN	1.9565	Confirmed LTF	1.9565
AA2-074	AA2-074	4.4334	LTF	4.4334

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168341945	313707	6FORK UNION	DVP	961060	AF2-397 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	127.71	129.33	DC	10.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0115	80/20	14.0115

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9378	80/20	13.9378
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8267	80/20	13.8267
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0476	80/20	10.0476
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2764	80/20	2.2764
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4830	80/20	18.4830
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9990	80/20	0.9990
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1429	80/20	6.1429
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6135	80/20	3.6135
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7370	80/20	19.7370
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9960	80/20	3.9960
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961791	AG1-021 C	2.8908	80/20	2.8908
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0675	80/20	18.0675
962441	AG1-093 C O2	8.1291	80/20	8.1291
962491	AG1-098 C O2	10.6807	80/20	10.6807
962561	AG1-105 C O2	6.4428	80/20	6.4428
962741	AG1-123 C O2	3.0883	80/20	3.0883
962751	AG1-124 C O2	4.3368	80/20	4.3368
963171	AG1-166 C	2.8908	80/20	2.8908
963181	AG1-167 C	2.8908	80/20	2.8908
963191	AG1-168 C	2.8908	80/20	2.8908
963201	AG1-169 C	2.8908	80/20	2.8908
963211	AG1-170 C	2.8908	80/20	2.8908
963271	AG1-176 C O2	26.6508	80/20	26.6508
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O2	18.6814	80/20	18.6814
963361	AG1-185 O2	9.0386	80/20	9.0386

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963641	AG1-215 C	1.3490	80/20	1.3490
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O2	20.2377	80/20	20.2377
964241	AG1-285 C O2	5.6317	80/20	5.6317
964261	AG1-287 C	0.7493	80/20	0.7493
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8188	80/20	11.8188
964931	AG1-357 C O2	18.3312	80/20	18.3312
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8908	80/20	2.8908
965451	AG1-413 C O2	4.0845	80/20	4.0845
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299
965601	AG1-428 C O2	2.2741	80/20	2.2741
965641	AG1-432 C O2	36.9660	80/20	36.9660
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1610	80/20	6.1610
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966791	AG1-550 O2	16.8647	80/20	16.8647
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	5.0279	80/20	5.0279
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPLE	CPLE	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173795327	313725	6DRY BREAD	DVP	314583	6LAKEVEW	DVP	1	DVP_P4-2: 23872	breaker	459.0	132.5	133.64	DC	11.69

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	12.0493	50/50	12.0493
314572	3EMPORIA	1.0948	50/50	1.0948
314704	3LAWRENC	0.6548	50/50	0.6548
316087	AB2-174 C	2.3146	50/50	2.3146
316088	AB2-174 E	13.2734	50/50	13.2734
316096	AB2-100 C1	4.0770	50/50	4.0770
316097	AB2-100 E1	12.7278	50/50	12.7278
316098	AB2-100 C2	4.0770	50/50	4.0770
316099	AB2-100 E2	12.7278	50/50	12.7278
923573	AB1-173 E OP	1.8790	50/50	1.8790
923991	AB2-040 C O1	13.1230	50/50	13.1230
923992	AB2-040 E O1	10.7370	50/50	10.7370
924022	AB2-043 E O1	1.4026	Adder	1.65
924162	AB2-060 E OP	2.0914	Adder	2.46
924301	AB2-077 C O1 (Suspended)	0.9603	Adder	1.13
924302	AB2-077 E O1 (Suspended)	0.6402	Adder	0.75
924311	AB2-078 C O1 (Suspended)	0.9603	Adder	1.13
924312	AB2-078 E O1 (Suspended)	0.6402	Adder	0.75
924321	AB2-079 C O1 (Suspended)	0.9603	Adder	1.13
924322	AB2-079 E O1 (Suspended)	0.6402	Adder	0.75
936485	AD2-063 C	6.8666	Adder	8.08
936486	AD2-063 E	4.5778	Adder	5.39
940481	AE2-033 C	67.1816	50/50	67.1816
940482	AE2-033 E	45.2910	50/50	45.2910
942451	AE2-258	1.1702	Adder	1.38
942471	AE2-260 C O1	62.4261	50/50	62.4261
942472	AE2-260 E O1	88.5439	50/50	88.5439
943911	AF1-059	27.2651	50/50	27.2651
946011	AF1-266	56.2363	50/50	56.2363
946281	AF1-292 C	4.3934	50/50	4.3934
946282	AF1-292 E	2.9618	50/50	2.9618
960081	AF2-299 C	7.4046	50/50	7.4046
960082	AF2-299 E	4.9364	50/50	4.9364
962271	AG1-075 C O2	70.3520	50/50	70.3520
962272	AG1-075 E O2	42.8755	50/50	42.8755
962491	AG1-098 C O2	3.1601	Adder	7.01
962492	AG1-098 E O2	2.1068	Adder	4.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963301	AG1-179 C	11.5737	50/50	11.5737
963311	AG1-180	5.6390	50/50	5.6390
964931	AG1-357 C O2	4.8638	Adder	10.8
964932	AG1-357 E O2	3.2425	Adder	7.2
965451	AG1-413 C O2	10.8303	50/50	10.8303
965452	AG1-413 E O2	7.2202	50/50	7.2202
965591	AG1-427 C	2.9359	Adder	6.52
965592	AG1-427 E	1.9614	Adder	4.35
965601	AG1-428 C O2	9.6619	50/50	9.6619
965602	AG1-428 E O2	6.4298	50/50	6.4298
966621	AG1-532 C	3.9985	50/50	3.9985
966622	AG1-532 E	2.6657	50/50	2.6657
CALDERWOOD	CALDERWOOD	0.0621	Confirmed LTF	0.0621
NY	NY	0.0160	Confirmed LTF	0.0160
PRAIRIE	PRAIRIE	0.1963	Confirmed LTF	0.1963
O-066	O-066	0.1952	Confirmed LTF	0.1952
CHEOAH	CHEOAH	0.0641	Confirmed LTF	0.0641
COTTONWOOD	COTTONWOOD	0.2352	Confirmed LTF	0.2352
G-007	G-007	0.0304	Confirmed LTF	0.0304
HAMLET	HAMLET	0.1912	Confirmed LTF	0.1912
GIBSON	GIBSON	0.0311	Confirmed LTF	0.0311
BLUEG	BLUEG	0.0920	Confirmed LTF	0.0920
TRIMBLE	TRIMBLE	0.0289	Confirmed LTF	0.0289
CATAWBA	CATAWBA	0.0745	Confirmed LTF	0.0745

13.5.13 Index 13

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168341885	313755	3FLAT CREEK	DVP	314707	3MORAN	DVP	1	DVP_P1-2: LN 1045	single	203.98	146.42	183.17	DC	74.97

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314429	3JTRSVLE	2.5234	80/20	2.5234
316131	AB2-060 C	8.5795	80/20	8.5795
936265	AD2-033 C	77.9711	80/20	77.9711
946301	AF1-294 C	25.4906	80/20	25.4906
958211	AF2-115 C	14.9945	80/20	14.9945
961791	AG1-021 C	11.9956	80/20	11.9956
961891	AG1-030 C	89.9667	80/20	89.9667
962041	AG1-048 C	74.9722	80/20	74.9722
962491	AG1-098 C O2	74.9722	80/20	74.9722
963171	AG1-166 C	11.9956	80/20	11.9956
963181	AG1-167 C	11.9956	80/20	11.9956
963191	AG1-168 C	11.9956	80/20	11.9956
963201	AG1-169 C	11.9956	80/20	11.9956
963211	AG1-170 C	11.9956	80/20	11.9956
963641	AG1-215 C	5.5979	80/20	5.5979
964821	AG1-345 C	4.7982	80/20	4.7982
964931	AG1-357 C O2	119.9556	80/20	119.9556
965281	AG1-393 C	11.9956	80/20	11.9956
CALDERWOOD	CALDERWOOD	0.0184	Confirmed LTF	0.0184
NY	NY	0.0205	Confirmed LTF	0.0205
PRAIRIE	PRAIRIE	0.0956	Confirmed LTF	0.0956
CHEOAH	CHEOAH	0.0185	Confirmed LTF	0.0185
COTTONWOOD	COTTONWOOD	0.0777	Confirmed LTF	0.0777
HAMLET	HAMLET	0.0214	Confirmed LTF	0.0214
GIBSON	GIBSON	0.0202	Confirmed LTF	0.0202
BLUEG	BLUEG	0.0642	Confirmed LTF	0.0642
TRIMBLE	TRIMBLE	0.0206	Confirmed LTF	0.0206
CATAWBA	CATAWBA	0.0129	Confirmed LTF	0.0129

13.5.14 Index 14

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168341967	313867	6BREMODIST	DVP	313707	6FORK UNION	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	129.58	131.34	DC	11.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1784	80/20	2.1784
313527	AB2-043 C	0.4243	80/20	0.4243
314429	3JTRSVLE	0.6669	80/20	0.6669
314572	3EMPORIA	0.1382	80/20	0.1382
314677	6BUCKING	1.0571	80/20	1.0571
314704	3LAWRENC	0.1410	80/20	0.1410
315126	1ROARAP2	0.4085	80/20	0.4085
315128	1ROARAP4	0.3898	80/20	0.3898
315153	1CLOVER1	7.5116	80/20	7.5116
315154	1CLOVER2	7.4368	80/20	7.4368
315158	1KERR 1	0.2345	80/20	0.2345
315159	1KERR 2	0.6567	80/20	0.6567
315160	1KERR 3	0.6567	80/20	0.6567
315161	1KERR 4	0.6567	80/20	0.6567
315162	1KERR 5	0.6567	80/20	0.6567
315163	1KERR 6	0.6567	80/20	0.6567
315164	1KERR 7	0.6567	80/20	0.6567
315191	1BEARGRDN G1	18.4998	80/20	18.4998
315192	1BEARGRDN G2	18.4998	80/20	18.4998
315193	1BEARGRDN S1	23.9239	80/20	23.9239
315266	1PLYWOOD A	0.6737	80/20	0.6737
316087	AB2-174 C	0.3606	80/20	0.3606
316118	AC1-105 C	3.4200	80/20	3.4200
316123	AC1-075 C	0.3763	80/20	0.3763
316129	AC1-054 C	3.4710	80/20	3.4710
316131	AB2-060 C	1.2609	80/20	1.2609
923991	AB2-040 C O1	2.3725	80/20	2.3725
924301	AB2-077 C O1 (Suspended)	1.6661	80/20	1.6661
924311	AB2-078 C O1 (Suspended)	1.6661	80/20	1.6661
924321	AB2-079 C O1 (Suspended)	1.6661	80/20	1.6661
925611	AC1-036 C	0.2822	80/20	0.2822
926023	AC1-080 C	0.1258	80/20	0.1258
927251	AC1-221 C	0.7947	80/20	0.7947
927261	AC1-222 C	1.8844	80/20	1.8844
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.0414	80/20	1.0414
932761	AC2-100 C	1.8288	80/20	1.8288

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933501	AC2-165 C	34.9923	80/20	34.9923
934311	AD1-055 C	1.3084	80/20	1.3084
934341	AD1-058 C	1.9921	80/20	1.9921
934615	AD1-087 C	4.7030	80/20	4.7030
934625	AD1-088 C	15.3924	80/20	15.3924
934991	AD1-131 C	0.6532	80/20	0.6532
935171	AD1-152 C O1	5.1658	80/20	5.1658
935221	AD1-157 C	0.4035	80/20	0.4035
936265	AD2-033 C	15.2365	80/20	15.2365
936361	AD2-046 C O1	5.8230	80/20	5.8230
936485	AD2-063 C	15.0849	80/20	15.0849
937481	AD2-202 C O1	1.3775	80/20	1.3775
938371	AE1-056 C	11.0258	80/20	11.0258
938821	AE1-108 C O1	11.0123	80/20	11.0123
939181	AE1-148 C	5.8169	80/20	5.8169
940661	AE2-053 O1	2.1544	80/20	2.1544
941791	AE2-182 C	2.5007	80/20	2.5007
942451	AE2-258	2.0064	80/20	2.0064
942461	AE2-259 C O1	20.3100	80/20	20.3100
942751	AE2-291 C	3.2791	80/20	3.2791
942761	AE2-292 C O1	4.0828	80/20	4.0828
943901	AF1-058 C	1.0548	80/20	1.0548
943911	AF1-059	10.2781	80/20	10.2781
945811	AF1-246 C O1	3.6616	80/20	3.6616
946281	AF1-292 C	0.4969	80/20	0.4969
946291	AF1-293 C O1	6.2287	80/20	6.2287
946301	AF1-294 C	6.7366	80/20	6.7366
946591	AF1-323 C	3.5356	80/20	3.5356
957481	AF2-042 C	26.1540	80/20	26.1540
958131	AF2-107 C	1.6496	80/20	1.6496
958211	AF2-115 C	3.9627	80/20	3.9627
958801	AF2-171 C	23.6772	80/20	23.6772
959311	AF2-222 C	21.6010	80/20	21.6010
959751	AF2-266	5.3920	80/20	5.3920
960061	AF2-297 C	4.2192	80/20	4.2192
960081	AF2-299 C	0.8375	80/20	0.8375
960111	AF2-302 C	1.2857	80/20	1.2857
961791	AG1-021 C	3.1702	80/20	3.1702
961801	AG1-022 C	1.2857	80/20	1.2857
961891	AG1-030 C	22.0122	80/20	22.0122
962041	AG1-048 C	19.8135	80/20	19.8135
962441	AG1-093 C O2	8.8246	80/20	8.8246
962491	AG1-098 C O2	11.6385	80/20	11.6385
962561	AG1-105 C O2	6.9312	80/20	6.9312
963171	AG1-166 C	3.1702	80/20	3.1702
963181	AG1-167 C	3.1702	80/20	3.1702
963191	AG1-168 C	3.1702	80/20	3.1702
963201	AG1-169 C	3.1702	80/20	3.1702
963211	AG1-170 C	3.1702	80/20	3.1702
963271	AG1-176 C O2	29.3068	80/20	29.3068
963301	AG1-179 C	2.9803	80/20	2.9803
963311	AG1-180	1.4521	80/20	1.4521

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O2	20.4293	80/20	20.4293
963361	AG1-185 O2	9.8842	80/20	9.8842
963641	AG1-215 C	1.4794	80/20	1.4794
964111	AG1-272 C	3.2072	80/20	3.2072
964121	AG1-273 C	3.2072	80/20	3.2072
964131	AG1-274 C	3.2072	80/20	3.2072
964231	AG1-284 C O2	6.3853	80/20	6.3853
964241	AG1-285 C O2	6.2010	80/20	6.2010
964261	AG1-287 C	0.7911	80/20	0.7911
964471	AG1-310 C	1.0721	80/20	1.0721
964791	AG1-342 C	2.7841	80/20	2.7841
964821	AG1-345 C	1.2648	80/20	1.2648
964841	AG1-347 C	12.9864	80/20	12.9864
964931	AG1-357 C O2	19.9968	80/20	19.9968
965191	AG1-384 C	3.2072	80/20	3.2072
965281	AG1-393 C	3.1702	80/20	3.1702
965451	AG1-413 C O2	4.4581	80/20	4.4581
965581	AG1-426	2.3992	80/20	2.3992
965591	AG1-427 C	11.4819	80/20	11.4819
965601	AG1-428 C O2	2.4880	80/20	2.4880
965641	AG1-432 C O2	40.6200	80/20	40.6200
965721	AG1-440 C	4.1121	80/20	4.1121
965731	AG1-441 C	4.1121	80/20	4.1121
965771	AG1-445	2.3759	80/20	2.3759
965781	AG1-446	2.3759	80/20	2.3759
965831	AG1-451	6.7700	80/20	6.7700
966361	AG1-505 C	4.9734	80/20	4.9734
966371	AG1-506 C	4.9734	80/20	4.9734
966621	AG1-532 C	0.4522	80/20	0.4522
966691	AG1-539 C	1.7146	80/20	1.7146
966751	AG1-546 C	7.3410	80/20	7.3410
966791	AG1-550 O2	5.3211	80/20	5.3211
966811	AG1-552 C	0.6485	80/20	0.6485
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	5.5327	80/20	5.5327
WEC	WEC	0.0699	Confirmed LTF	0.0699
LGEE	LGEE	0.1483	Confirmed LTF	0.1483
CPLE	CPLE	2.3396	Confirmed LTF	2.3396
CBM-W2	CBM-W2	5.8061	Confirmed LTF	5.8061
NY	NY	0.4076	Confirmed LTF	0.4076
TVA	TVA	1.2558	Confirmed LTF	1.2558
SIGE	SIGE	0.1120	Confirmed LTF	0.1120
CBM-S2	CBM-S2	25.9121	Confirmed LTF	25.9121
CBM-S1	CBM-S1	0.2953	Confirmed LTF	0.2953
MEC	MEC	0.5863	Confirmed LTF	0.5863
LAGN	LAGN	1.5645	Confirmed LTF	1.5645
AA2-074	AA2-074	1.5426	LTF	1.5426
CBM-W1	CBM-W1	2.5236	Confirmed LTF	2.5236

13.5.15 Index 15

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174174182	314266	6NORTHAMPTON	DVP	936400	AD2-051 TAP	DVP	1	DVP_P4-2: 23872	breaker	699.0	109.34	110.02	DC	10.59

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3530	50/50	9.3530
314572	3EMPORIA	0.6243	50/50	0.6243
314704	3LAWRENC	0.3601	50/50	0.3601
315126	1ROARAP2	1.5793	50/50	1.5793
315128	1ROARAP4	1.5071	50/50	1.5071
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315136	1ROSEMG1	3.8541	50/50	3.8541
315137	1ROSEMS1	2.3899	50/50	2.3899
315138	1ROSEMG2	1.8063	50/50	1.8063
315139	1GASTONA	6.0597	50/50	6.0597
315141	1GASTONB	6.0597	50/50	6.0597
315162	1KERR 5	0.6746	50/50	0.6746
315163	1KERR 6	0.6746	50/50	0.6746
315164	1KERR 7	0.6746	50/50	0.6746
315293	1DOMTR9	-3.2315	Adder	-3.8
315294	1DOMTR10	-3.9602	Adder	-4.66
315606	3AA2-053SOLA	1.2798	50/50	1.2798
315607	3AA1-063SOLA	1.1585	50/50	1.1585
316087	AB2-174 C	1.5782	50/50	1.5782
316088	AB2-174 E	9.0505	50/50	9.0505
316096	AB2-100 C1	1.6883	50/50	1.6883
316097	AB2-100 E1	5.2708	50/50	5.2708
316098	AB2-100 C2	1.6883	50/50	1.6883
316099	AB2-100 E2	5.2708	50/50	5.2708
316129	AC1-054 C	6.4467	50/50	6.4467
917342	Z2-044 E	0.2916	Adder	0.34
918492	AA1-063AE OP	3.4622	50/50	3.4622
919692	AA2-053 E OP	3.3307	50/50	3.3307
919702	AA2-057 E OP	1.7318	Adder	2.04
920592	AA2-165 E	0.2380	Adder	0.28
922923	AB1-081 E OP	1.9462	Adder	2.29
923262	AB1-132 C OP (Suspended)	29.3303	50/50	29.3303
923263	AB1-132 E OP (Suspended)	12.5701	50/50	12.5701
923573	AB1-173 E OP	1.4585	50/50	1.4585
923991	AB2-040 C O1	10.1864	50/50	10.1864
923992	AB2-040 E O1	8.3344	50/50	8.3344
924022	AB2-043 E O1	1.2716	Adder	1.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924152	AB2-059 E OP	2.7571	Adder	3.24
924162	AB2-060 E OP	1.8959	Adder	2.23
924301	AB2-077 C O1 (Suspended)	0.8937	Adder	1.05
924302	AB2-077 E O1 (Suspended)	0.5958	Adder	0.7
924311	AB2-078 C O1 (Suspended)	0.8937	Adder	1.05
924312	AB2-078 E O1 (Suspended)	0.5958	Adder	0.7
924321	AB2-079 C O1 (Suspended)	0.8937	Adder	1.05
924322	AB2-079 E O1 (Suspended)	0.5958	Adder	0.7
925591	AC1-034 C	3.4666	Adder	4.08
925592	AC1-034 E	2.6152	Adder	3.08
925612	AC1-036 E	0.3036	Adder	0.36
925785	AC1-054 E	2.9698	50/50	2.9698
926070	AC1-086 C	43.1923	50/50	43.1923
926071	AC1-086 E	19.6583	50/50	19.6583
927145	AC1-208 C	6.0602	50/50	6.0602
927146	AC1-208 E	2.6801	50/50	2.6801
934331	AD1-057 C O1	12.8853	50/50	12.8853
934332	AD1-057 E O1	6.8735	50/50	6.8735
936265	AD2-033 C	4.8406	Adder	5.69
936266	AD2-033 E	3.2270	Adder	3.8
936361	AD2-046 C O1	4.6394	Adder	5.46
936362	AD2-046 E O1	2.1334	Adder	2.51
936485	AD2-063 C	6.2072	Adder	7.3
936486	AD2-063 E	4.1381	Adder	4.87
939181	AE1-148 C	4.5510	Adder	5.35
939182	AE1-148 E	3.0340	Adder	3.57
940481	AE2-033 C	28.0982	50/50	28.0982
940482	AE2-033 E	18.9426	50/50	18.9426
940571	AE2-044 C	2.2705	Adder	2.67
940572	AE2-044 E	0.9731	Adder	1.14
940661	AE2-053 O1	1.6856	Adder	1.98
942451	AE2-258	1.0609	Adder	1.25
942471	AE2-260 C O1	26.1100	50/50	26.1100
942472	AE2-260 E O1	37.0340	50/50	37.0340
943911	AF1-059	16.2609	50/50	16.2609
944141	AF1-082	1.4596	Adder	1.72
946011	AF1-266	23.5204	50/50	23.5204
946281	AF1-292 C	2.2873	50/50	2.2873
946282	AF1-292 E	1.5420	50/50	1.5420
959311	AF2-222 C	5.6959	Adder	6.7
959312	AF2-222 E	3.8162	Adder	4.49
960081	AF2-299 C	3.8550	50/50	3.8550
960082	AF2-299 E	2.5700	50/50	2.5700
962271	AG1-075 C O2	29.4242	50/50	29.4242
962272	AG1-075 E O2	17.9323	50/50	17.9323
962491	AG1-098 C O2	2.8625	Adder	6.35
962492	AG1-098 E O2	1.9083	Adder	4.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962571	AG1-106 C	12.0114	50/50	12.0114
962572	AG1-106 E	5.4471	50/50	5.4471
963301	AG1-179 C	6.5051	50/50	6.5051
963311	AG1-180	3.1695	50/50	3.1695
963321	AG1-181 C O2	3.2371	Adder	7.19
963361	AG1-185 O2	1.5662	Adder	3.48
964111	AG1-272 C	0.4818	Adder	1.07
964112	AG1-272 E	0.1431	Adder	0.32
964121	AG1-273 C	0.4818	Adder	1.07
964122	AG1-273 E	0.1431	Adder	0.32
964131	AG1-274 C	0.4818	Adder	1.07
964132	AG1-274 E	0.1431	Adder	0.32
964493	AG1-312 BAT	11.1153	50/50	11.1153
964501	AG1-313 C O2	1.0258	Adder	2.28
964502	AG1-313 E O2	0.6839	Adder	1.52
964931	AG1-357 C O2	4.3994	Adder	9.77
964932	AG1-357 E O2	2.9329	Adder	6.51
965191	AG1-384 C	0.4818	Adder	1.07
965192	AG1-384 E	0.1431	Adder	0.32
965451	AG1-413 C O2	6.5669	50/50	6.5669
965452	AG1-413 E O2	4.3779	50/50	4.3779
965591	AG1-427 C	2.6560	Adder	5.9
965592	AG1-427 E	1.7744	Adder	3.94
965601	AG1-428 C O2	5.4306	50/50	5.4306
965602	AG1-428 E O2	3.6140	50/50	3.6140
965721	AG1-440 C	5.2898	50/50	5.2898
965722	AG1-440 E	3.5265	50/50	3.5265
965731	AG1-441 C	5.2898	50/50	5.2898
965732	AG1-441 E	3.5265	50/50	3.5265
965742	AG1-442 BAT	4.6785	50/50	4.6785
965752	AG1-443 BAT	4.6785	50/50	4.6785
965771	AG1-445	3.0563	50/50	3.0563
965781	AG1-446	3.0563	50/50	3.0563
966621	AG1-532 C	2.0817	50/50	2.0817
966622	AG1-532 E	1.3878	50/50	1.3878
966751	AG1-546 C	14.6996	50/50	14.6996
966752	AG1-546 E	7.8874	50/50	7.8874
966811	AG1-552 C	2.5075	50/50	2.5075
966812	AG1-552 E	1.0747	50/50	1.0747
966932	AG1-431A BAT	9.7064	Merchant Transmission	9.7064
WEC	WEC	0.1213	Confirmed LTF	0.1213
LGEE	LGEE	0.2507	Confirmed LTF	0.2507
CPL	CPL	1.2510	Confirmed LTF	1.2510
CBM-W2	CBM-W2	5.1789	Confirmed LTF	5.1789
NY	NY	0.1648	Confirmed LTF	0.1648
TVA	TVA	0.9716	Confirmed LTF	0.9716
O-066	O-066	2.3353	Confirmed LTF	2.3353
SIGE	SIGE	0.0810	Confirmed LTF	0.0810
CBM-S2	CBM-S2	14.5220	Confirmed LTF	14.5220
CBM-S1	CBM-S1	0.2432	Confirmed LTF	0.2432
G-007	G-007	0.3675	Confirmed LTF	0.3675
MEC	MEC	0.7182	Confirmed LTF	0.7182

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	1.2040	Confirmed LTF	1.2040
CBM-W1	CBM-W1	5.0893	Confirmed LTF	5.0893

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173795263	314282	6CARSON	DVP	314285	6CHRL249	DVP	1	DVP_P4-2: 562T563	breaker	684.0	185.45	186.04	DC	8.9

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.7486	50/50	4.7486
314331	6POE	0.8146	Adder	0.96
314435	6SAPONY	0.4521	50/50	0.4521
314572	3EMPORIA	0.3240	50/50	0.3240
314704	3LAWRENC	0.2021	50/50	0.2021
315073	1STONECA	-2.4134	Adder	-2.84
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.8982	Adder	4.59
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.8982	Adder	4.59
315136	1ROSEMG1	1.3048	50/50	1.3048
315137	1ROSEMS1	0.8091	50/50	0.8091
315138	1ROSEMG2	0.6115	50/50	0.6115
315139	1GASTONA	1.9432	50/50	1.9432
315141	1GASTONB	1.9432	50/50	1.9432
315241	1Z1-086 GT1	5.4571	50/50	5.4571
315242	1Z1-086 GT2	5.4571	50/50	5.4571
315243	1Z1-086 GT3	5.4571	50/50	5.4571
315244	1Z1-086 ST	9.4865	50/50	9.4865
316087	AB2-174 C	0.8080	50/50	0.8080
316088	AB2-174 E	4.6337	50/50	4.6337
316096	AB2-100 C1	0.8297	50/50	0.8297
316097	AB2-100 E1	2.5902	50/50	2.5902
316098	AB2-100 C2	0.8297	50/50	0.8297
316099	AB2-100 E2	2.5902	50/50	2.5902
316118	AC1-105 C	1.9774	Adder	2.33
316129	AC1-054 C	3.2170	Adder	3.78
316140	AB2-099 C (Suspended)	0.2094	Adder	0.25
316141	AB2-099 E (Suspended)	0.0897	Adder	0.11
900672	V4-068 E	0.1043	Adder	0.12
917332	Z2-043 E	0.4044	Adder	0.48
917342	Z2-044 E	0.2448	Adder	0.29
917512	Z2-088 E OP1	3.0954	Adder	3.64
918492	AA1-063AE OP	1.7391	Adder	2.05
918512	AA1-065 E OP	1.3507	Adder	1.59
918532	AA1-067 E	0.2589	Adder	0.3
919692	AA2-053 E OP	1.7503	Adder	2.06
919702	AA2-057 E OP	1.4587	Adder	1.72
920042	AA2-088 E OP	3.5188	Adder	4.14
920592	AA2-165 E	0.2005	Adder	0.24
922923	AB1-081 E OP	1.6067	Adder	1.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923262	AB1-132 C OP (Suspended)	9.4055	50/50	9.4055
923263	AB1-132 E OP (Suspended)	4.0309	50/50	4.0309
923573	AB1-173 E OP	0.7405	50/50	0.7405
923852	AB2-025 E	1.2874	50/50	1.2874
923991	AB2-040 C O1	5.1718	50/50	5.1718
923992	AB2-040 E O1	4.2314	50/50	4.2314
924022	AB2-043 E O1	1.0525	Adder	1.24
924152	AB2-059 E OP	2.2762	Adder	2.68
924162	AB2-060 E OP	1.5783	Adder	1.86
924301	AB2-077 C O1 (Suspended)	0.7468	Adder	0.88
924302	AB2-077 E O1 (Suspended)	0.4979	Adder	0.59
924311	AB2-078 C O1 (Suspended)	0.7468	Adder	0.88
924312	AB2-078 E O1 (Suspended)	0.4979	Adder	0.59
924321	AB2-079 C O1 (Suspended)	0.7468	Adder	0.88
924322	AB2-079 E O1 (Suspended)	0.4979	Adder	0.59
925591	AC1-034 C	2.8619	Adder	3.37
925592	AC1-034 E	2.1590	Adder	2.54
925785	AC1-054 E	1.4820	Adder	1.74
926070	AC1-086 C	13.8507	50/50	13.8507
926071	AC1-086 E	6.3039	50/50	6.3039
926201	AC1-098 C	2.5766	Adder	3.03
926202	AC1-098 E	1.5350	Adder	1.81
926211	AC1-099 C	0.8634	Adder	1.02
926212	AC1-099 E	0.5071	Adder	0.6
926274	AC1-105 E	0.9715	Adder	1.14
927024	AC1-189 C	3.2477	Adder	3.82
927025	AC1-189 E	1.6177	Adder	1.9
927145	AC1-208 C	3.9843	Adder	4.69
927146	AC1-208 E	1.7620	Adder	2.07
932631	AC2-084 C	3.6730	Adder	4.32
932632	AC2-084 E	1.8091	Adder	2.13
934331	AD1-057 C O1	4.8775	Adder	5.74
934332	AD1-057 E O1	2.6019	Adder	3.06
934615	AD1-087 C	2.9073	Adder	3.42
934616	AD1-087 E	1.2441	Adder	1.46
935171	AD1-152 C O1	3.1934	Adder	3.76
935172	AD1-152 E O1	2.1289	Adder	2.5
936265	AD2-033 C	4.3009	Adder	5.06
936266	AD2-033 E	2.8673	Adder	3.37
936361	AD2-046 C O1	3.5308	Adder	4.15
936362	AD2-046 E O1	1.6236	Adder	1.91
936401	AD2-051 C O1	3.0038	Adder	3.53
936402	AD2-051 E O1	1.2898	Adder	1.52
936485	AD2-063 C	5.2992	Adder	6.23
936486	AD2-063 E	3.5328	Adder	4.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936761	AD2-097 C	-0.6942	Adder	-0.82
936762	AD2-097 E	-3.4712	Adder	-4.08
937481	AD2-202 C O1	0.8516	Adder	1.0
937482	AD2-202 E O1	0.4790	Adder	0.56
938222	AE1-035 E	0.3714	Adder	0.44
938494	AE1-068_C1	16.3608	50/50	16.3608
938497	AE1-068_C2	16.3608	50/50	16.3608
938498	AE1-068_E1	9.0442	50/50	9.0442
938499	AE1-068_E2	9.0442	50/50	9.0442
938504	AE1-069_C1	12.4688	50/50	12.4688
938507	AE1-069_C2	13.4443	50/50	13.4443
938508	AE1-069_E1	7.0931	50/50	7.0931
938509	AE1-069_E2	7.6418	50/50	7.6418
939181	AE1-148 C	3.4742	Adder	4.09
939182	AE1-148 E	2.3161	Adder	2.72
939414	AE1-173_C1	10.8599	Adder	12.78
939415	AE1-173_C2	9.3085	Adder	10.95
939416	AE1-173_C3	10.8599	Adder	12.78
939423	AE1-173_E1	7.2400	Adder	8.52
939424	AE1-173_E2	6.2057	Adder	7.3
939425	AE1-173_E3	7.2400	Adder	8.52
940471	AE2-031 C	17.8211	50/50	17.8211
940472	AE2-031 E	11.8807	50/50	11.8807
940481	AE2-033 C	17.8899	50/50	17.8899
940482	AE2-033 E	12.0606	50/50	12.0606
940541	AE2-040	3.2601	50/50	3.2601
940571	AE2-044 C	1.8745	Adder	2.21
940572	AE2-044 E	0.8034	Adder	0.95
940661	AE2-053 O1	1.2867	Adder	1.51
941031	AE2-094 C	21.4701	50/50	21.4701
941032	AE2-094 E	9.6159	50/50	9.6159
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2105	Adder	0.25
942161	AE2-228 C	-1.6624	Adder	-1.96
942451	AE2-258	0.8781	Adder	1.03
942471	AE2-260 C O1	13.4478	50/50	13.4478
942472	AE2-260 E O1	19.0742	50/50	19.0742
942931	AE2-313 C	19.2639	50/50	19.2639
942932	AE2-313 E	12.8426	50/50	12.8426
943171	AE2-346 C	0.5025	Adder	0.59
943172	AE2-346 E	0.2154	Adder	0.25
943901	AF1-058 C	0.6723	Adder	0.79
943902	AF1-058 E	0.4482	Adder	0.53
943911	AF1-059	9.9815	50/50	9.9815
944011	AF1-069 C	7.0151	50/50	7.0151
944012	AF1-069 E	2.7252	50/50	2.7252
944141	AF1-082	1.2050	Adder	1.42
945811	AF1-246 C O1	3.0477	Adder	3.59
945812	AF1-246 E O1	4.2087	Adder	4.95
946011	AF1-266	14.9752	50/50	14.9752
946261	AF1-291 C	-1.0134	Adder	-1.19
946281	AF1-292 C	1.1961	50/50	1.1961
946282	AF1-292 E	0.8063	50/50	0.8063

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957481	AF2-042 C	21.7693	Adder	25.61
957482	AF2-042 E	14.5129	Adder	17.07
957521	AF2-046 C	5.8965	Adder	6.94
957522	AF2-046 E	2.9660	Adder	3.49
957861	AF2-080 C	2.9496	Adder	3.47
957862	AF2-080 E	1.3076	Adder	1.54
958142	AF2-108 BAT	2.9401	50/50	2.9401
959511	AF2-242 C	2.4159	Adder	2.84
959512	AF2-242 E	1.8790	Adder	2.21
959651	AF2-256 C	-0.4156	Adder	-0.49
959751	AF2-266	3.3303	Adder	3.92
960061	AF2-297 C	2.6891	Adder	3.16
960062	AF2-297 E	1.7928	Adder	2.11
960081	AF2-299 C	2.0159	50/50	2.0159
960082	AF2-299 E	1.3439	50/50	1.3439
961671	AG1-007 C	0.2597	Adder	0.58
961672	AG1-007 E	0.1451	Adder	0.32
961681	AG1-008 C	3.1314	Adder	6.95
961682	AG1-008 E	1.5657	Adder	3.48
961931	AG1-036 C	0.2554	Adder	0.57
961932	AG1-036 E	0.1702	Adder	0.38
961941	AG1-037 C	0.0951	Adder	0.21
961942	AG1-037 E	0.0634	Adder	0.14
962271	AG1-075 C O2	18.7341	50/50	18.7341
962272	AG1-075 E O2	11.4174	50/50	11.4174
962331	AG1-082 C	0.3805	Adder	0.84
962332	AG1-082 E	0.2536	Adder	0.56
962341	AG1-083 C	0.3805	Adder	0.84
962342	AG1-083 E	0.2536	Adder	0.56
962351	AG1-084 C	0.3346	Adder	0.74
962352	AG1-084 E	0.2231	Adder	0.5
962361	AG1-085 C	0.3346	Adder	0.74
962362	AG1-085 E	0.2231	Adder	0.5
962441	AG1-093 C O2	3.0521	Adder	6.77
962442	AG1-093 E O2	0.9289	Adder	2.06
962491	AG1-098 C O2	2.4063	Adder	5.34
962492	AG1-098 E O2	1.6042	Adder	3.56
962561	AG1-105 C O2	1.8824	Adder	4.18
962562	AG1-105 E O2	1.2549	Adder	2.79
962571	AG1-106 C	3.8518	50/50	3.8518
962572	AG1-106 E	1.7467	50/50	1.7467
963041	AG1-153 C	1.3392	Adder	2.97
963042	AG1-153 E	2.0088	Adder	4.46
963111	AG1-160 C	3.0165	50/50	3.0165
963112	AG1-160 E	4.5248	50/50	4.5248
963291	AG1-178 C O2	14.0340	Adder	31.15
963301	AG1-179 C	3.7453	50/50	3.7453
963311	AG1-180	1.8248	50/50	1.8248
963321	AG1-181 C O2	2.9060	Adder	6.45
963351	AG1-184 O2	7.5607	Adder	16.78
963361	AG1-185 O2	1.4060	Adder	3.12
964241	AG1-285 C O2	2.9361	Adder	6.52

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964242	AG1-285 E O2	1.9574	Adder	4.34
964261	AG1-287 C	0.2672	Adder	0.59
964262	AG1-287 E	0.1782	Adder	0.4
964491	AG1-312 C O1	3.2796	Adder	7.28
964492	AG1-312 E O1	0.8199	Adder	1.82
964501	AG1-313 C O2	1.0656	Adder	2.37
964502	AG1-313 E O2	0.7104	Adder	1.58
964791	AG1-342 C	0.7829	Adder	1.74
964792	AG1-342 E	0.6151	Adder	1.37
964801	AG1-343 C	1.0845	Adder	2.41
964802	AG1-343 E	0.8521	Adder	1.89
964931	AG1-357 C O2	3.7523	Adder	8.33
964932	AG1-357 E O2	2.5015	Adder	5.55
965291	AG1-394 C	0.3712	Adder	0.82
965292	AG1-394 E	0.2475	Adder	0.55
965451	AG1-413 C O2	1.8465	Adder	4.1
965452	AG1-413 E O2	1.2310	Adder	2.73
965591	AG1-427 C	2.2498	Adder	4.99
965592	AG1-427 E	1.5030	Adder	3.34
965601	AG1-428 C O2	3.1267	50/50	3.1267
965602	AG1-428 E O2	2.0807	50/50	2.0807
965711	AG1-439 C O1	4.9614	Adder	11.01
965712	AG1-439 E O1	3.3076	Adder	7.34
965721	AG1-440 C	1.6117	Adder	3.58
965722	AG1-440 E	1.0744	Adder	2.38
965731	AG1-441 C	1.6117	Adder	3.58
965732	AG1-441 E	1.0744	Adder	2.38
965761	AG1-444 O1	2.6461	Adder	5.87
965771	AG1-445	0.9312	Adder	2.07
965781	AG1-446	0.9312	Adder	2.07
965811	AG1-449	12.4952	50/50	12.4952
966361	AG1-505 C	3.9008	Adder	8.66
966362	AG1-505 E	2.6006	Adder	5.77
966371	AG1-506 C	3.9008	Adder	8.66
966372	AG1-506 E	2.6006	Adder	5.77
966621	AG1-532 C	1.0886	50/50	1.0886
966622	AG1-532 E	0.7257	50/50	0.7257
966751	AG1-546 C	3.7913	Adder	8.42
966752	AG1-546 E	2.0343	Adder	4.52
966801	AG1-551 C	0.4118	Adder	0.91
966802	AG1-551 E	0.1765	Adder	0.39
966811	AG1-552 C	0.5452	Adder	1.21
966812	AG1-552 E	0.2337	Adder	0.52
WEC	WEC	0.3670	Confirmed LTF	0.3670
LGEE	LGEE	0.7552	Confirmed LTF	0.7552
CPL	CPL	3.8575	Confirmed LTF	3.8575
CBM-W2	CBM-W2	16.1818	Confirmed LTF	16.1818
NY	NY	0.5253	Confirmed LTF	0.5253
TVA	TVA	3.0590	Confirmed LTF	3.0590
O-066	O-066	7.3895	Confirmed LTF	7.3895
SIGE	SIGE	0.2502	Confirmed LTF	0.2502
CBM-S2	CBM-S2	45.9778	Confirmed LTF	45.9778

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S1	CBM-S1	0.7623	Confirmed LTF	0.7623
G-007	G-007	1.1624	Confirmed LTF	1.1624
MEC	MEC	2.2039	Confirmed LTF	2.2039
LAGN	LAGN	3.8028	Confirmed LTF	3.8028
AA2-074	AA2-074	2.5479	LTF	2.5479
CBM-W1	CBM-W1	15.3519	Confirmed LTF	15.3519

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174174147	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P4-2: 24972-4	breaker	830.0	121.31	121.98	DC	12.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	10.5735	50/50	10.5735
313719	3CHESTNUT	0.9428	50/50	0.9428
314435	6SAPONY	1.2275	50/50	1.2275
314572	3EMPORIA	0.7536	50/50	0.7536
314582	3KELFORD	0.2676	50/50	0.2676
314623	3WITAKRS	0.1680	50/50	0.1680
314704	3LAWRENC	0.4418	50/50	0.4418
315126	1ROARAP2	1.5148	50/50	1.5148
315128	1ROARAP4	1.4455	50/50	1.4455
315131	1EDGECEMA (Deactivation : 22/04/2019)	5.9648	Adder	7.02
315132	1EDGECEMB (Deactivation : 22/04/2019)	7.0174	50/50	7.0174
315136	1ROSEMG1	2.7656	50/50	2.7656
315137	1ROSEMS1	1.7149	50/50	1.7149
315138	1ROSEMG2	1.2961	50/50	1.2961
315139	1GASTONA	4.2311	50/50	4.2311
315141	1GASTONB	4.2311	50/50	4.2311
315606	3AA2-053SOLA	1.5362	50/50	1.5362
315607	3AA1-063SOLA	1.2848	50/50	1.2848
316087	AB2-174 C	1.8305	50/50	1.8305
316088	AB2-174 E	10.4971	50/50	10.4971
316096	AB2-100 C1	2.0829	50/50	2.0829
316097	AB2-100 E1	6.5025	50/50	6.5025
316098	AB2-100 C2	2.0829	50/50	2.0829
316099	AB2-100 E2	6.5025	50/50	6.5025
316129	AC1-054 C	6.5273	50/50	6.5273
316140	AB2-099 C (Suspended)	0.3460	Adder	0.41
316141	AB2-099 E (Suspended)	0.1483	Adder	0.17
900672	V4-068 E	0.1715	Adder	0.2
917332	Z2-043 E	0.7981	50/50	0.7981
917342	Z2-044 E	0.4564	50/50	0.4564
917512	Z2-088 E OP1	4.5600	Adder	5.36
918492	AA1-063AE OP	3.8398	50/50	3.8398
918512	AA1-065 E OP	2.1391	Adder	2.52
918532	AA1-067 E	0.3639	Adder	0.43
919692	AA2-053 E OP	3.9978	50/50	3.9978
919702	AA2-057 E OP	2.8206	50/50	2.8206
920042	AA2-088 E OP	5.6473	Adder	6.64
920591	AA2-165 C	0.1266	50/50	0.1266
920592	AA2-165 E	0.3877	50/50	0.3877
922923	AB1-081 E OP	2.4466	Adder	2.88

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923262	AB1-132 C OP (Suspended)	20.4792	50/50	20.4792
923263	AB1-132 E OP (Suspended)	8.7768	50/50	8.7768
923573	AB1-173 E OP	1.6488	50/50	1.6488
923852	AB2-025 E	3.4956	50/50	3.4956
923991	AB2-040 C O1	11.5157	50/50	11.5157
923992	AB2-040 E O1	9.4219	50/50	9.4219
924022	AB2-043 E O1	1.4902	Adder	1.75
924152	AB2-059 E OP	3.4660	Adder	4.08
924162	AB2-060 E OP	2.2221	Adder	2.61
924301	AB2-077 C O1 (Suspended)	1.0456	Adder	1.23
924302	AB2-077 E O1 (Suspended)	0.6971	Adder	0.82
924311	AB2-078 C O1 (Suspended)	1.0456	Adder	1.23
924312	AB2-078 E O1 (Suspended)	0.6971	Adder	0.82
924321	AB2-079 C O1 (Suspended)	1.0456	Adder	1.23
924322	AB2-079 E O1 (Suspended)	0.6971	Adder	0.82
925591	AC1-034 C	4.3580	Adder	5.13
925592	AC1-034 E	3.2876	Adder	3.87
925785	AC1-054 E	3.0069	50/50	3.0069
926070	AC1-086 C	30.1581	50/50	30.1581
926071	AC1-086 E	13.7259	50/50	13.7259
926201	AC1-098 C	5.1892	50/50	5.1892
926202	AC1-098 E	3.0914	50/50	3.0914
926211	AC1-099 C	1.7389	50/50	1.7389
926212	AC1-099 E	1.0213	50/50	1.0213
927024	AC1-189 C	4.7169	Adder	5.55
927025	AC1-189 E	2.3496	Adder	2.76
927145	AC1-208 C	8.2363	50/50	8.2363
927146	AC1-208 E	3.6424	50/50	3.6424
932581	AC2-078 C O1	-2.2545	Adder	-2.65
932631	AC2-084 C	7.3973	50/50	7.3973
932632	AC2-084 E	3.6435	50/50	3.6435
934331	AD1-057 C O1	10.7349	50/50	10.7349
934332	AD1-057 E O1	5.7264	50/50	5.7264
936265	AD2-033 C	5.6832	Adder	6.69
936266	AD2-033 E	3.7888	Adder	4.46
936361	AD2-046 C O1	5.1345	Adder	6.04
936362	AD2-046 E O1	2.3611	Adder	2.78
936401	AD2-051 C O1	4.8370	Adder	5.69
936402	AD2-051 E O1	2.0770	Adder	2.44
936485	AD2-063 C	7.2797	Adder	8.56
936486	AD2-063 E	4.8532	Adder	5.71
938222	AE1-035 E	0.5883	Adder	0.69
939181	AE1-148 C	5.0467	Adder	5.94
939182	AE1-148 E	3.3645	Adder	3.96
940063	AE2-000B BAT	10.6930	Merchant Transmission	10.6930

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940481	AE2-033 C	48.1971	50/50	48.1971
940482	AE2-033 E	32.4924	50/50	32.4924
940541	AE2-040	8.8517	50/50	8.8517
940571	AE2-044 C	2.8543	Adder	3.36
940572	AE2-044 E	1.2233	Adder	1.44
940652	AE2-052 BAT	2.6862	50/50	2.6862
940661	AE2-053 O1	1.8691	Adder	2.2
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.3483	Adder	0.41
942161	AE2-228 C	-0.8882	Adder	-1.04
942451	AE2-258	1.2433	Adder	1.46
942471	AE2-260 C O1	34.1452	50/50	34.1452
942472	AE2-260 E O1	48.4308	50/50	48.4308
943171	AE2-346 C	0.8305	Adder	0.98
943172	AE2-346 E	0.3559	Adder	0.42
943911	AF1-059	19.7716	50/50	19.7716
944141	AF1-082	1.8349	Adder	2.16
946011	AF1-266	40.3447	50/50	40.3447
946261	AF1-291 C	-1.0329	Adder	-1.22
946281	AF1-292 C	2.8239	50/50	2.8239
946282	AF1-292 E	1.9037	50/50	1.9037
957521	AF2-046 C	9.7046	Adder	11.42
957522	AF2-046 E	4.8814	Adder	5.74
957861	AF2-080 C	4.2841	Adder	5.04
957862	AF2-080 E	1.8991	Adder	2.23
958142	AF2-108 BAT	0.6040	Merchant Transmission	0.6040
959511	AF2-242 C	3.3457	Adder	3.94
959512	AF2-242 E	2.6022	Adder	3.06
959651	AF2-256 C	-0.2221	Adder	-0.26
960081	AF2-299 C	4.7594	50/50	4.7594
960082	AF2-299 E	3.1729	50/50	3.1729
961671	AG1-007 C	0.3867	Adder	0.86
961672	AG1-007 E	0.2159	Adder	0.48
961681	AG1-008 C	5.1537	Adder	11.44
961682	AG1-008 E	2.5769	Adder	5.72
961931	AG1-036 C	0.4212	Adder	0.93
961932	AG1-036 E	0.2808	Adder	0.62
961941	AG1-037 C	0.1572	Adder	0.35
961942	AG1-037 E	0.1048	Adder	0.23
962271	AG1-075 C O2	50.4715	50/50	50.4715
962272	AG1-075 E O2	30.7595	50/50	30.7595
962331	AG1-082 C	0.6288	Adder	1.4
962332	AG1-082 E	0.4192	Adder	0.93
962341	AG1-083 C	0.6288	Adder	1.4
962342	AG1-083 E	0.4192	Adder	0.93
962351	AG1-084 C	0.5538	Adder	1.23
962352	AG1-084 E	0.3692	Adder	0.82
962361	AG1-085 C	0.5538	Adder	1.23
962362	AG1-085 E	0.3692	Adder	0.82
962491	AG1-098 C O2	3.3558	Adder	7.45
962492	AG1-098 E O2	2.2372	Adder	4.97
962571	AG1-106 C	8.3867	50/50	8.3867
962572	AG1-106 E	3.8033	50/50	3.8033

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963301	AG1-179 C	7.9609	50/50	7.9609
963311	AG1-180	3.8788	50/50	3.8788
964491	AG1-312 C O1	5.1263	Adder	11.38
964492	AG1-312 E O1	1.2816	Adder	2.84
964501	AG1-313 C O2	4.4356	50/50	4.4356
964502	AG1-313 E O2	2.9571	50/50	2.9571
964801	AG1-343 C	1.7786	Adder	3.95
964802	AG1-343 E	1.3975	Adder	3.1
964931	AG1-357 C O2	5.1595	Adder	11.45
964932	AG1-357 E O2	3.4397	Adder	7.64
965291	AG1-394 C	0.6084	Adder	1.35
965292	AG1-394 E	0.4056	Adder	0.9
965451	AG1-413 C O2	7.9710	50/50	7.9710
965452	AG1-413 E O2	5.3140	50/50	5.3140
965591	AG1-427 C	3.1147	Adder	6.91
965592	AG1-427 E	2.0808	Adder	4.62
965601	AG1-428 C O2	6.6459	50/50	6.6459
965602	AG1-428 E O2	4.4227	50/50	4.4227
965691	AG1-437 C O1	2.3649	Adder	5.25
965692	AG1-437 E O1	1.5766	Adder	3.5
965701	AG1-438 C O1	2.3649	Adder	5.25
965702	AG1-438 E O1	1.5766	Adder	3.5
965711	AG1-439 C O1	7.3089	Adder	16.22
965712	AG1-439 E O1	4.8726	Adder	10.82
965721	AG1-440 C	5.5967	50/50	5.5967
965722	AG1-440 E	3.7311	50/50	3.7311
965731	AG1-441 C	5.5967	50/50	5.5967
965732	AG1-441 E	3.7311	50/50	3.7311
965741	AG1-442 O1	1.3795	Adder	3.06
965751	AG1-443 O1	1.3795	Adder	3.06
965761	AG1-444 O1	3.8981	Adder	8.65
965771	AG1-445	3.2336	50/50	3.2336
965781	AG1-446	3.2336	50/50	3.2336
966621	AG1-532 C	2.5700	50/50	2.5700
966622	AG1-532 E	1.7134	50/50	1.7134
966733	AG1-544 BAT	0.9486	Merchant Transmission	0.9486
966743	AG1-545 BAT	0.3125	Merchant Transmission	0.3125
966751	AG1-546 C	14.7738	50/50	14.7738
966752	AG1-546 E	7.9272	50/50	7.9272
966801	AG1-551 C	0.5745	Adder	1.28
966802	AG1-551 E	0.2462	Adder	0.55
966811	AG1-552 C	2.4051	50/50	2.4051
966812	AG1-552 E	1.0308	50/50	1.0308
WEC	WEC	0.2466	Confirmed LTF	0.2466
LGEE	LGEE	0.5064	Confirmed LTF	0.5064
CPL	CPL	2.7580	Confirmed LTF	2.7580
CBM-W2	CBM-W2	10.7072	Confirmed LTF	10.7072
NY	NY	0.3041	Confirmed LTF	0.3041
TVA	TVA	2.0104	Confirmed LTF	2.0104
O-066	O-066	4.3274	Confirmed LTF	4.3274
SIGE	SIGE	0.1578	Confirmed LTF	0.1578
CBM-S2	CBM-S2	30.9024	Confirmed LTF	30.9024

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S1	CBM-S1	0.5024	Confirmed LTF	0.5024
G-007	G-007	0.6804	Confirmed LTF	0.6804
MEC	MEC	1.4714	Confirmed LTF	1.4714
LAGN	LAGN	2.5025	Confirmed LTF	2.5025
AA2-074	AA2-074	1.8216	LTF	1.8216
CBM-W1	CBM-W1	10.3608	Confirmed LTF	10.3608

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173795264	314285	6CHRL249	DVP	314316	6LOCKS	DVP	1	DVP_P4-2: 562T563	breaker	684.0	182.32	182.92	DC	8.9

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.7486	50/50	4.7486
314331	6POE	0.8146	Adder	0.96
314435	6SAPONY	0.4521	50/50	0.4521
314572	3EMPORIA	0.3240	50/50	0.3240
314704	3LAWRENC	0.2021	50/50	0.2021
315073	1STONECA	-2.4134	Adder	-2.84
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.8982	Adder	4.59
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.8982	Adder	4.59
315136	1ROSEMG1	1.3048	50/50	1.3048
315137	1ROSEMS1	0.8091	50/50	0.8091
315138	1ROSEMG2	0.6115	50/50	0.6115
315139	1GASTONA	1.9432	50/50	1.9432
315141	1GASTONB	1.9432	50/50	1.9432
315241	1Z1-086 GT1	5.4571	50/50	5.4571
315242	1Z1-086 GT2	5.4571	50/50	5.4571
315243	1Z1-086 GT3	5.4571	50/50	5.4571
315244	1Z1-086 ST	9.4865	50/50	9.4865
316087	AB2-174 C	0.8080	50/50	0.8080
316088	AB2-174 E	4.6337	50/50	4.6337
316096	AB2-100 C1	0.8297	50/50	0.8297
316097	AB2-100 E1	2.5902	50/50	2.5902
316098	AB2-100 C2	0.8297	50/50	0.8297
316099	AB2-100 E2	2.5902	50/50	2.5902
316118	AC1-105 C	1.9774	Adder	2.33
316129	AC1-054 C	3.2170	Adder	3.78
316140	AB2-099 C (Suspended)	0.2094	Adder	0.25
316141	AB2-099 E (Suspended)	0.0897	Adder	0.11
900672	V4-068 E	0.1043	Adder	0.12
917332	Z2-043 E	0.4044	Adder	0.48
917342	Z2-044 E	0.2448	Adder	0.29
917512	Z2-088 E OP1	3.0954	Adder	3.64
918492	AA1-063AE OP	1.7391	Adder	2.05
918512	AA1-065 E OP	1.3507	Adder	1.59
918532	AA1-067 E	0.2589	Adder	0.3
919692	AA2-053 E OP	1.7503	Adder	2.06
919702	AA2-057 E OP	1.4587	Adder	1.72
920042	AA2-088 E OP	3.5188	Adder	4.14
920592	AA2-165 E	0.2005	Adder	0.24
922923	AB1-081 E OP	1.6067	Adder	1.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923262	AB1-132 C OP (Suspended)	9.4055	50/50	9.4055
923263	AB1-132 E OP (Suspended)	4.0309	50/50	4.0309
923573	AB1-173 E OP	0.7405	50/50	0.7405
923852	AB2-025 E	1.2874	50/50	1.2874
923991	AB2-040 C O1	5.1718	50/50	5.1718
923992	AB2-040 E O1	4.2314	50/50	4.2314
924022	AB2-043 E O1	1.0525	Adder	1.24
924152	AB2-059 E OP	2.2762	Adder	2.68
924162	AB2-060 E OP	1.5783	Adder	1.86
924301	AB2-077 C O1 (Suspended)	0.7468	Adder	0.88
924302	AB2-077 E O1 (Suspended)	0.4979	Adder	0.59
924311	AB2-078 C O1 (Suspended)	0.7468	Adder	0.88
924312	AB2-078 E O1 (Suspended)	0.4979	Adder	0.59
924321	AB2-079 C O1 (Suspended)	0.7468	Adder	0.88
924322	AB2-079 E O1 (Suspended)	0.4979	Adder	0.59
925591	AC1-034 C	2.8619	Adder	3.37
925592	AC1-034 E	2.1590	Adder	2.54
925785	AC1-054 E	1.4820	Adder	1.74
926070	AC1-086 C	13.8507	50/50	13.8507
926071	AC1-086 E	6.3039	50/50	6.3039
926201	AC1-098 C	2.5766	Adder	3.03
926202	AC1-098 E	1.5350	Adder	1.81
926211	AC1-099 C	0.8634	Adder	1.02
926212	AC1-099 E	0.5071	Adder	0.6
926274	AC1-105 E	0.9715	Adder	1.14
927024	AC1-189 C	3.2477	Adder	3.82
927025	AC1-189 E	1.6177	Adder	1.9
927145	AC1-208 C	3.9843	Adder	4.69
927146	AC1-208 E	1.7620	Adder	2.07
932631	AC2-084 C	3.6730	Adder	4.32
932632	AC2-084 E	1.8091	Adder	2.13
934331	AD1-057 C O1	4.8775	Adder	5.74
934332	AD1-057 E O1	2.6019	Adder	3.06
934615	AD1-087 C	2.9073	Adder	3.42
934616	AD1-087 E	1.2441	Adder	1.46
935171	AD1-152 C O1	3.1934	Adder	3.76
935172	AD1-152 E O1	2.1289	Adder	2.5
936265	AD2-033 C	4.3009	Adder	5.06
936266	AD2-033 E	2.8673	Adder	3.37
936361	AD2-046 C O1	3.5308	Adder	4.15
936362	AD2-046 E O1	1.6236	Adder	1.91
936401	AD2-051 C O1	3.0038	Adder	3.53
936402	AD2-051 E O1	1.2898	Adder	1.52
936485	AD2-063 C	5.2992	Adder	6.23
936486	AD2-063 E	3.5328	Adder	4.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936761	AD2-097 C	-0.6942	Adder	-0.82
936762	AD2-097 E	-3.4712	Adder	-4.08
937481	AD2-202 C O1	0.8516	Adder	1.0
937482	AD2-202 E O1	0.4790	Adder	0.56
938222	AE1-035 E	0.3714	Adder	0.44
938494	AE1-068_C1	16.3608	50/50	16.3608
938497	AE1-068_C2	16.3608	50/50	16.3608
938498	AE1-068_E1	9.0442	50/50	9.0442
938499	AE1-068_E2	9.0442	50/50	9.0442
938504	AE1-069_C1	12.4688	50/50	12.4688
938507	AE1-069_C2	13.4443	50/50	13.4443
938508	AE1-069_E1	7.0931	50/50	7.0931
938509	AE1-069_E2	7.6418	50/50	7.6418
939181	AE1-148 C	3.4742	Adder	4.09
939182	AE1-148 E	2.3161	Adder	2.72
939414	AE1-173_C1	10.8599	Adder	12.78
939415	AE1-173_C2	9.3085	Adder	10.95
939416	AE1-173_C3	10.8599	Adder	12.78
939423	AE1-173_E1	7.2400	Adder	8.52
939424	AE1-173_E2	6.2057	Adder	7.3
939425	AE1-173_E3	7.2400	Adder	8.52
940471	AE2-031 C	17.8211	50/50	17.8211
940472	AE2-031 E	11.8807	50/50	11.8807
940481	AE2-033 C	17.8899	50/50	17.8899
940482	AE2-033 E	12.0606	50/50	12.0606
940541	AE2-040	3.2601	50/50	3.2601
940571	AE2-044 C	1.8745	Adder	2.21
940572	AE2-044 E	0.8034	Adder	0.95
940661	AE2-053 O1	1.2867	Adder	1.51
941031	AE2-094 C	21.4701	50/50	21.4701
941032	AE2-094 E	9.6159	50/50	9.6159
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2105	Adder	0.25
942161	AE2-228 C	-1.6624	Adder	-1.96
942451	AE2-258	0.8781	Adder	1.03
942471	AE2-260 C O1	13.4478	50/50	13.4478
942472	AE2-260 E O1	19.0742	50/50	19.0742
942931	AE2-313 C	19.2639	50/50	19.2639
942932	AE2-313 E	12.8426	50/50	12.8426
943171	AE2-346 C	0.5025	Adder	0.59
943172	AE2-346 E	0.2154	Adder	0.25
943901	AF1-058 C	0.6723	Adder	0.79
943902	AF1-058 E	0.4482	Adder	0.53
943911	AF1-059	9.9815	50/50	9.9815
944011	AF1-069 C	7.0151	50/50	7.0151
944012	AF1-069 E	2.7252	50/50	2.7252
944141	AF1-082	1.2050	Adder	1.42
945811	AF1-246 C O1	3.0477	Adder	3.59
945812	AF1-246 E O1	4.2087	Adder	4.95
946011	AF1-266	14.9752	50/50	14.9752
946261	AF1-291 C	-1.0134	Adder	-1.19
946281	AF1-292 C	1.1961	50/50	1.1961
946282	AF1-292 E	0.8063	50/50	0.8063

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957481	AF2-042 C	21.7693	Adder	25.61
957482	AF2-042 E	14.5129	Adder	17.07
957521	AF2-046 C	5.8965	Adder	6.94
957522	AF2-046 E	2.9660	Adder	3.49
957861	AF2-080 C	2.9496	Adder	3.47
957862	AF2-080 E	1.3076	Adder	1.54
958142	AF2-108 BAT	2.9401	50/50	2.9401
959511	AF2-242 C	2.4159	Adder	2.84
959512	AF2-242 E	1.8790	Adder	2.21
959651	AF2-256 C	-0.4156	Adder	-0.49
959751	AF2-266	3.3303	Adder	3.92
960061	AF2-297 C	2.6891	Adder	3.16
960062	AF2-297 E	1.7928	Adder	2.11
960081	AF2-299 C	2.0159	50/50	2.0159
960082	AF2-299 E	1.3439	50/50	1.3439
961671	AG1-007 C	0.2597	Adder	0.58
961672	AG1-007 E	0.1451	Adder	0.32
961681	AG1-008 C	3.1314	Adder	6.95
961682	AG1-008 E	1.5657	Adder	3.48
961931	AG1-036 C	0.2554	Adder	0.57
961932	AG1-036 E	0.1702	Adder	0.38
961941	AG1-037 C	0.0951	Adder	0.21
961942	AG1-037 E	0.0634	Adder	0.14
962271	AG1-075 C O2	18.7341	50/50	18.7341
962272	AG1-075 E O2	11.4174	50/50	11.4174
962331	AG1-082 C	0.3805	Adder	0.84
962332	AG1-082 E	0.2536	Adder	0.56
962341	AG1-083 C	0.3805	Adder	0.84
962342	AG1-083 E	0.2536	Adder	0.56
962351	AG1-084 C	0.3346	Adder	0.74
962352	AG1-084 E	0.2231	Adder	0.5
962361	AG1-085 C	0.3346	Adder	0.74
962362	AG1-085 E	0.2231	Adder	0.5
962441	AG1-093 C O2	3.0521	Adder	6.77
962442	AG1-093 E O2	0.9289	Adder	2.06
962491	AG1-098 C O2	2.4063	Adder	5.34
962492	AG1-098 E O2	1.6042	Adder	3.56
962561	AG1-105 C O2	1.8824	Adder	4.18
962562	AG1-105 E O2	1.2549	Adder	2.79
962571	AG1-106 C	3.8518	50/50	3.8518
962572	AG1-106 E	1.7467	50/50	1.7467
963041	AG1-153 C	1.3392	Adder	2.97
963042	AG1-153 E	2.0088	Adder	4.46
963111	AG1-160 C	3.0165	50/50	3.0165
963112	AG1-160 E	4.5248	50/50	4.5248
963291	AG1-178 C O2	14.0340	Adder	31.15
963301	AG1-179 C	3.7453	50/50	3.7453
963311	AG1-180	1.8248	50/50	1.8248
963321	AG1-181 C O2	2.9060	Adder	6.45
963351	AG1-184 O2	7.5607	Adder	16.78
963361	AG1-185 O2	1.4060	Adder	3.12
964241	AG1-285 C O2	2.9361	Adder	6.52

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964242	AG1-285 E O2	1.9574	Adder	4.34
964261	AG1-287 C	0.2672	Adder	0.59
964262	AG1-287 E	0.1782	Adder	0.4
964491	AG1-312 C O1	3.2796	Adder	7.28
964492	AG1-312 E O1	0.8199	Adder	1.82
964501	AG1-313 C O2	1.0656	Adder	2.37
964502	AG1-313 E O2	0.7104	Adder	1.58
964791	AG1-342 C	0.7829	Adder	1.74
964792	AG1-342 E	0.6151	Adder	1.37
964801	AG1-343 C	1.0845	Adder	2.41
964802	AG1-343 E	0.8521	Adder	1.89
964931	AG1-357 C O2	3.7523	Adder	8.33
964932	AG1-357 E O2	2.5015	Adder	5.55
965291	AG1-394 C	0.3712	Adder	0.82
965292	AG1-394 E	0.2475	Adder	0.55
965451	AG1-413 C O2	1.8465	Adder	4.1
965452	AG1-413 E O2	1.2310	Adder	2.73
965591	AG1-427 C	2.2498	Adder	4.99
965592	AG1-427 E	1.5030	Adder	3.34
965601	AG1-428 C O2	3.1267	50/50	3.1267
965602	AG1-428 E O2	2.0807	50/50	2.0807
965711	AG1-439 C O1	4.9614	Adder	11.01
965712	AG1-439 E O1	3.3076	Adder	7.34
965721	AG1-440 C	1.6117	Adder	3.58
965722	AG1-440 E	1.0744	Adder	2.38
965731	AG1-441 C	1.6117	Adder	3.58
965732	AG1-441 E	1.0744	Adder	2.38
965761	AG1-444 O1	2.6461	Adder	5.87
965771	AG1-445	0.9312	Adder	2.07
965781	AG1-446	0.9312	Adder	2.07
965811	AG1-449	12.4952	50/50	12.4952
966361	AG1-505 C	3.9008	Adder	8.66
966362	AG1-505 E	2.6006	Adder	5.77
966371	AG1-506 C	3.9008	Adder	8.66
966372	AG1-506 E	2.6006	Adder	5.77
966621	AG1-532 C	1.0886	50/50	1.0886
966622	AG1-532 E	0.7257	50/50	0.7257
966751	AG1-546 C	3.7913	Adder	8.42
966752	AG1-546 E	2.0343	Adder	4.52
966801	AG1-551 C	0.4118	Adder	0.91
966802	AG1-551 E	0.1765	Adder	0.39
966811	AG1-552 C	0.5452	Adder	1.21
966812	AG1-552 E	0.2337	Adder	0.52
WEC	WEC	0.3670	Confirmed LTF	0.3670
LGEE	LGEE	0.7552	Confirmed LTF	0.7552
CPL	CPL	3.8575	Confirmed LTF	3.8575
CBM-W2	CBM-W2	16.1818	Confirmed LTF	16.1818
NY	NY	0.5253	Confirmed LTF	0.5253
TVA	TVA	3.0590	Confirmed LTF	3.0590
O-066	O-066	7.3895	Confirmed LTF	7.3895
SIGE	SIGE	0.2502	Confirmed LTF	0.2502
CBM-S2	CBM-S2	45.9778	Confirmed LTF	45.9778

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S1	CBM-S1	0.7623	Confirmed LTF	0.7623
G-007	G-007	1.1624	Confirmed LTF	1.1624
MEC	MEC	2.2039	Confirmed LTF	2.2039
LAGN	LAGN	3.8028	Confirmed LTF	3.8028
AA2-074	AA2-074	2.5479	LTF	2.5479
CBM-W1	CBM-W1	15.3519	Confirmed LTF	15.3519

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174379331	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P4-2: 562T563	breaker	541.0	164.77	165.33	DC	6.63

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.0164	Adder	3.55
314331	6POE	4.8056	50/50	4.8056
314435	6SAPONY	0.3169	50/50	0.3169
314539	3UNCAMP	1.8472	Adder	2.17
314541	3WATKINS	0.2148	Adder	0.25
314572	3EMPORIA	0.2022	Adder	0.24
315073	1STONECA	-1.6562	Adder	-1.95
315131	1EDGECEMA (Deactivation : 22/04/2019)	2.9950	Adder	3.52
315132	1EDGECEMB (Deactivation : 22/04/2019)	2.9950	Adder	3.52
316083	AB2-161 C	3.6022	50/50	3.6022
316084	AB2-161 E	5.8773	50/50	5.8773
316088	AB2-174 E	2.9238	Adder	3.44
316096	AB2-100 C1	0.5969	50/50	0.5969
316097	AB2-100 E1	1.8635	50/50	1.8635
316098	AB2-100 C2	0.5969	50/50	0.5969
316099	AB2-100 E2	1.8635	50/50	1.8635
316103	AB2-015 C	2.6660	Adder	3.14
316104	AB2-015 E	2.1861	Adder	2.57
316118	AC1-105 C	1.4709	Adder	1.73
316129	AC1-054 C	2.4696	Adder	2.91
316140	AB2-099 C (Suspended)	0.1806	Adder	0.21
316141	AB2-099 E (Suspended)	0.0774	Adder	0.09
900672	V4-068 E	0.0962	Adder	0.11
917332	Z2-043 E	0.3333	Adder	0.39
917342	Z2-044 E	0.1897	Adder	0.22
917512	Z2-088 E OP1	2.4377	Adder	2.87
918492	AA1-063AE OP	1.4543	Adder	1.71
918512	AA1-065 E OP	1.1457	Adder	1.35
918532	AA1-067 E	0.2097	Adder	0.25
919692	AA2-053 E OP	1.3787	Adder	1.62
919702	AA2-057 E OP	1.1362	Adder	1.34
920042	AA2-088 E OP	3.4540	Adder	4.06
920592	AA2-165 E	0.1562	Adder	0.18
922923	AB1-081 E OP	1.2371	Adder	1.46
923262	AB1-132 C OP (Suspended)	6.0026	Adder	7.06
923263	AB1-132 E OP (Suspended)	2.5725	Adder	3.03
923573	AB1-173 E OP	0.4704	Adder	0.55
923852	AB2-025 E	0.9025	50/50	0.9025

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923991	AB2-040 C O1	3.2852	Adder	3.86
923992	AB2-040 E O1	2.6879	Adder	3.16
924022	AB2-043 E O1	0.7846	Adder	0.92
924152	AB2-059 E OP	1.7525	Adder	2.06
924162	AB2-060 E OP	1.1761	Adder	1.38
924301	AB2-077 C O1 (Suspended)	0.5570	Adder	0.66
924302	AB2-077 E O1 (Suspended)	0.3713	Adder	0.44
924311	AB2-078 C O1 (Suspended)	0.5570	Adder	0.66
924312	AB2-078 E O1 (Suspended)	0.3713	Adder	0.44
924321	AB2-079 C O1 (Suspended)	0.5570	Adder	0.66
924322	AB2-079 E O1 (Suspended)	0.3713	Adder	0.44
925122	AB2-169 E	1.5324	Adder	1.8
925591	AC1-034 C	2.2035	Adder	2.59
925592	AC1-034 E	1.6623	Adder	1.96
925785	AC1-054 E	1.1377	Adder	1.34
926070	AC1-086 C	8.8395	Adder	10.4
926071	AC1-086 E	4.0232	Adder	4.73
926201	AC1-098 C	2.0490	Adder	2.41
926202	AC1-098 E	1.2207	Adder	1.44
926211	AC1-099 C	0.6866	Adder	0.81
926212	AC1-099 E	0.4033	Adder	0.47
926274	AC1-105 E	0.7227	Adder	0.85
927024	AC1-189 C	2.5800	Adder	3.04
927025	AC1-189 E	1.2852	Adder	1.51
927145	AC1-208 C	3.1230	Adder	3.67
927146	AC1-208 E	1.3811	Adder	1.62
932581	AC2-078 C O1	4.4189	50/50	4.4189
932582	AC2-078 E O1	7.2097	50/50	7.2097
932591	AC2-079 C O1	4.1509	50/50	4.1509
932592	AC2-079 E O1	6.7725	50/50	6.7725
932631	AC2-084 C	2.9209	Adder	3.44
932632	AC2-084 E	1.4386	Adder	1.69
933991	AD1-023 C	3.3267	Adder	3.91
933992	AD1-023 E	1.8111	Adder	2.13
934331	AD1-057 C O1	3.7015	Adder	4.35
934332	AD1-057 E O1	1.9746	Adder	2.32
934575	AD1-082 C	8.2092	50/50	8.2092
934576	AD1-082 E	4.6829	50/50	4.6829
934615	AD1-087 C	2.1462	Adder	2.52
934616	AD1-087 E	0.9184	Adder	1.08
935171	AD1-152 C O1	2.3574	Adder	2.77
935172	AD1-152 E O1	1.5716	Adder	1.85
936361	AD2-046 C O1	2.6648	Adder	3.14
936362	AD2-046 E O1	1.2254	Adder	1.44
936401	AD2-051 C O1	2.5352	Adder	2.98
936402	AD2-051 E O1	1.0886	Adder	1.28
936485	AD2-063 C	3.9436	Adder	4.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936486	AD2-063 E	2.6291	Adder	3.09
936661	AD2-085 C	1.6231	Adder	1.91
936662	AD2-085 E	2.6482	Adder	3.12
936761	AD2-097 C	-0.5997	Adder	-0.71
936762	AD2-097 E	-2.9985	Adder	-3.53
937481	AD2-202 C O1	0.6286	Adder	0.74
937482	AD2-202 E O1	0.3536	Adder	0.42
938222	AE1-035 E	0.3151	Adder	0.37
938494	AE1-068_C1	10.2514	Adder	12.06
938497	AE1-068_C2	10.2514	Adder	12.06
938498	AE1-068_E1	5.6669	Adder	6.67
938499	AE1-068_E2	5.6669	Adder	6.67
938504	AE1-069_C1	7.8127	Adder	9.19
938507	AE1-069_C2	8.4240	Adder	9.91
938508	AE1-069_E1	4.4444	Adder	5.23
938509	AE1-069_E2	4.7882	Adder	5.63
938634	AE1-085 C	9.8700	50/50	9.8700
938635	AE1-085 E	4.9350	50/50	4.9350
938771	AE1-103 C	1.0955	Adder	1.29
938772	AE1-103 E	1.5128	Adder	1.78
939181	AE1-148 C	2.6209	Adder	3.08
939182	AE1-148 E	1.7473	Adder	2.06
939195	AE1-149 C	12.9252	50/50	12.9252
939196	AE1-149 E	8.6168	50/50	8.6168
939414	AE1-173_C1	8.5009	Adder	10.0
939415	AE1-173_C2	7.2865	Adder	8.57
939416	AE1-173_C3	8.5009	Adder	10.0
939423	AE1-173_E1	5.6673	Adder	6.67
939424	AE1-173_E2	4.8576	Adder	5.71
939425	AE1-173_E3	5.6673	Adder	6.67
940061	AE2-000BC O1	10.9500	50/50	10.9500
940062	AE2-000BE O1	7.3000	50/50	7.3000
940471	AE2-031 C	11.1620	Adder	13.13
940472	AE2-031 E	7.4413	Adder	8.75
940481	AE2-033 C	12.5748	50/50	12.5748
940482	AE2-033 E	8.4774	50/50	8.4774
940541	AE2-040	2.2854	50/50	2.2854
940571	AE2-044 C	1.4432	Adder	1.7
940572	AE2-044 E	0.6185	Adder	0.73
940651	AE2-052	4.3084	50/50	4.3084
940661	AE2-053 O1	0.9707	Adder	1.14
941031	AE2-094 C	13.4468	Adder	15.82
941032	AE2-094 E	6.0225	Adder	7.09
941101	AE2-104 C O1	0.9308	Adder	1.1
941102	AE2-104 E O1	1.4799	Adder	1.74
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.1775	Adder	0.21
942161	AE2-228 C	-1.0818	Adder	-1.27
942341	AE2-247 C	0.7076	Adder	0.83
942342	AE2-247 E	0.9772	Adder	1.15
942451	AE2-258	0.6546	Adder	0.77
942471	AE2-260 C O1	9.6379	50/50	9.6379
942472	AE2-260 E O1	13.6701	50/50	13.6701

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942931	AE2-313 C	12.0649	Adder	14.19
942932	AE2-313 E	8.0433	Adder	9.46
943171	AE2-346 C	0.4335	Adder	0.51
943172	AE2-346 E	0.1858	Adder	0.22
943461	AF1-017 C	0.6403	Adder	0.75
943462	AF1-017 E	1.0446	Adder	1.23
943911	AF1-059	6.2447	Adder	7.35
944011	AF1-069 C	4.3936	Adder	5.17
944012	AF1-069 E	1.7068	Adder	2.01
944141	AF1-082	0.9278	Adder	1.09
945811	AF1-246 C O1	2.2484	Adder	2.65
945812	AF1-246 E O1	3.1049	Adder	3.65
946011	AF1-266	10.5261	50/50	10.5261
946261	AF1-291 C	-1.8432	Adder	-2.17
946281	AF1-292 C	0.7419	Adder	0.87
946282	AF1-292 E	0.5002	Adder	0.59
957481	AF2-042 C	16.0599	Adder	18.89
957482	AF2-042 E	10.7066	Adder	12.6
957521	AF2-046 C	5.3740	Adder	6.32
957522	AF2-046 E	2.7031	Adder	3.18
957861	AF2-080 C	2.3432	Adder	2.76
957862	AF2-080 E	1.0388	Adder	1.22
958161	AF2-110 C	0.3837	Adder	0.45
958162	AF2-110 E	0.6002	Adder	0.71
959511	AF2-242 C	2.0142	Adder	2.37
959512	AF2-242 E	1.5666	Adder	1.84
959651	AF2-256 C	-0.2705	Adder	-0.32
959751	AF2-266	2.4582	Adder	2.89
960081	AF2-299 C	1.2504	Adder	1.47
960082	AF2-299 E	0.8336	Adder	0.98
961091	AF2-400 C	0.1440	Adder	0.17
961092	AF2-400 E	0.2362	Adder	0.28
961671	AG1-007 C	0.2032	Adder	0.45
961672	AG1-007 E	0.1135	Adder	0.25
961681	AG1-008 C	2.8539	Adder	6.33
961682	AG1-008 E	1.4270	Adder	3.17
961851	AG1-027 C	2.5785	Adder	5.72
961852	AG1-027 E	1.4254	Adder	3.16
961931	AG1-036 C	0.2261	Adder	0.5
961932	AG1-036 E	0.1507	Adder	0.33
961941	AG1-037 C	0.0821	Adder	0.18
961942	AG1-037 E	0.0547	Adder	0.12
962271	AG1-075 C O2	13.1682	50/50	13.1682
962272	AG1-075 E O2	8.0253	50/50	8.0253
962331	AG1-082 C	0.3283	Adder	0.73
962332	AG1-082 E	0.2188	Adder	0.49
962341	AG1-083 C	0.3283	Adder	0.73
962342	AG1-083 E	0.2188	Adder	0.49
962351	AG1-084 C	0.2822	Adder	0.63
962352	AG1-084 E	0.1881	Adder	0.42
962361	AG1-085 C	0.2822	Adder	0.63
962362	AG1-085 E	0.1881	Adder	0.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962441	AG1-093 C O2	2.2592	Adder	5.01
962442	AG1-093 E O2	0.6876	Adder	1.53
962491	AG1-098 C O2	1.7924	Adder	3.98
962492	AG1-098 E O2	1.1950	Adder	2.65
962561	AG1-105 C O2	1.4015	Adder	3.11
962562	AG1-105 E O2	0.9343	Adder	2.07
962571	AG1-106 C	1.3028	Adder	2.89
962572	AG1-106 E	0.5908	Adder	1.31
963041	AG1-153 C	0.9877	Adder	2.19
963042	AG1-153 E	1.4815	Adder	3.29
963111	AG1-160 C	1.0020	Adder	2.22
963112	AG1-160 E	1.5030	Adder	3.34
963291	AG1-178 C O2	10.5295	Adder	23.37
963301	AG1-179 C	1.2378	Adder	2.75
963311	AG1-180	0.6031	Adder	1.34
963351	AG1-184 O2	5.6727	Adder	12.59
964241	AG1-285 C O2	2.1658	Adder	4.81
964242	AG1-285 E O2	1.4439	Adder	3.21
964491	AG1-312 C O1	2.7943	Adder	6.2
964492	AG1-312 E O1	0.6986	Adder	1.55
964501	AG1-313 C O2	0.8531	Adder	1.89
964502	AG1-313 E O2	0.5687	Adder	1.26
964791	AG1-342 C	0.5827	Adder	1.29
964792	AG1-342 E	0.4579	Adder	1.02
964801	AG1-343 C	1.0340	Adder	2.3
964802	AG1-343 E	0.8125	Adder	1.8
964931	AG1-357 C O2	2.7927	Adder	6.2
964932	AG1-357 E O2	1.8618	Adder	4.13
965291	AG1-394 C	0.3563	Adder	0.79
965292	AG1-394 E	0.2375	Adder	0.53
965451	AG1-413 C O2	1.3601	Adder	3.02
965452	AG1-413 E O2	0.9067	Adder	2.01
965591	AG1-427 C	1.6752	Adder	3.72
965592	AG1-427 E	1.1192	Adder	2.48
965601	AG1-428 C O2	1.0334	Adder	2.29
965602	AG1-428 E O2	0.6877	Adder	1.53
965691	AG1-437 C O1	1.4056	Adder	3.12
965692	AG1-437 E O1	0.9370	Adder	2.08
965701	AG1-438 C O1	1.4056	Adder	3.12
965702	AG1-438 E O1	0.9370	Adder	2.08
965711	AG1-439 C O1	3.9072	Adder	8.67
965712	AG1-439 E O1	2.6048	Adder	5.78
965721	AG1-440 C	1.2263	Adder	2.72
965722	AG1-440 E	0.8175	Adder	1.81
965731	AG1-441 C	1.2263	Adder	2.72
965732	AG1-441 E	0.8175	Adder	1.81
965741	AG1-442 O1	0.8199	Adder	1.82
965751	AG1-443 O1	0.8199	Adder	1.82
965761	AG1-444 O1	2.0838	Adder	4.63
965771	AG1-445	0.7085	Adder	1.57
965781	AG1-446	0.7085	Adder	1.57
965811	AG1-449	4.1479	Adder	9.21

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966361	AG1-505 C	2.8759	Adder	6.38
966362	AG1-505 E	1.9172	Adder	4.26
966371	AG1-506 C	2.8759	Adder	6.38
966372	AG1-506 E	1.9172	Adder	4.26
966621	AG1-532 C	0.3579	Adder	0.79
966622	AG1-532 E	0.2386	Adder	0.53
966731	AG1-544 C	7.7085	50/50	7.7085
966732	AG1-544 E	4.1355	50/50	4.1355
966741	AG1-545 C	2.5480	50/50	2.5480
966742	AG1-545 E	1.3660	50/50	1.3660
966751	AG1-546 C	2.9153	Adder	6.47
966752	AG1-546 E	1.5643	Adder	3.47
966801	AG1-551 C	0.3386	Adder	0.75
966802	AG1-551 E	0.1451	Adder	0.32
966811	AG1-552 C	0.4246	Adder	0.94
966812	AG1-552 E	0.1820	Adder	0.4
WEC	WEC	0.2712	Confirmed LTF	0.2712
LGEE	LGEE	0.5586	Confirmed LTF	0.5586
CPL	CPL	2.9081	Confirmed LTF	2.9081
CBM-W2	CBM-W2	12.0512	Confirmed LTF	12.0512
NY	NY	0.4053	Confirmed LTF	0.4053
TVA	TVA	2.2834	Confirmed LTF	2.2834
O-066	O-066	5.6868	Confirmed LTF	5.6868
SIGE	SIGE	0.1887	Confirmed LTF	0.1887
CBM-S2	CBM-S2	34.5460	Confirmed LTF	34.5460
CBM-S1	CBM-S1	0.5685	Confirmed LTF	0.5685
G-007	G-007	0.8946	Confirmed LTF	0.8946
MEC	MEC	1.6351	Confirmed LTF	1.6351
LAGN	LAGN	2.8385	Confirmed LTF	2.8385
AA2-074	AA2-074	1.9206	LTF	1.9206
CBM-W1	CBM-W1	11.3282	Confirmed LTF	11.3282

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174174192	314310	6JUDES F	DVP	314322	6MDLTHAN	DVP	1	DVP_P4-2: 2028T2054	breaker	980.0	101.32	102.66	DC	13.05

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.7657	50/50	0.7657
314333	6POWHATN	1.5970	50/50	1.5970
314429	3JTRSVLE	0.4832	50/50	0.4832
314677	6BUCKING	0.8049	50/50	0.8049
314713	3PAMPLIN	2.0182	50/50	2.0182
315191	1BEARGRDN G1	14.2609	50/50	14.2609
315192	1BEARGRDN G2	14.2609	50/50	14.2609
315193	1BEARGRDN S1	18.4421	50/50	18.4421
923862	AB2-026 E	4.5477	50/50	4.5477
924032	AB2-045 E	2.3810	50/50	2.3810
924162	AB2-060 E OP	2.1283	Adder	2.5
925611	AC1-036 C	0.1989	50/50	0.1989
925612	AC1-036 E	0.7548	50/50	0.7548
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7930	50/50	0.7930
932512	AC2-071 E (Withdrawn : 01/22/2021)	2.5321	50/50	2.5321
933501	AC2-165 C	39.2268	50/50	39.2268
933502	AC2-165 E	29.5234	50/50	29.5234
934625	AD1-088 C	10.6836	50/50	10.6836
934626	AD1-088 E	2.7981	50/50	2.7981
935221	AD1-157 C	0.2945	50/50	0.2945
935222	AD1-157 E	1.2443	50/50	1.2443
936265	AD2-033 C	10.6439	50/50	10.6439
936266	AD2-033 E	7.0959	50/50	7.0959
936485	AD2-063 C	10.2888	50/50	10.2888
936486	AD2-063 E	6.8592	50/50	6.8592
938371	AE1-056 C	8.0463	50/50	8.0463
938372	AE1-056 E	4.3965	50/50	4.3965
938561	AE1-075 C	1.3887	50/50	1.3887
938562	AE1-075 E	4.3277	50/50	4.3277
938821	AE1-108 C O1	29.4146	50/50	29.4146
938822	AE1-108 E O1	13.2013	50/50	13.2013
941011	AE2-092 C	25.3840	50/50	25.3840
941012	AE2-092 E	16.9227	50/50	16.9227
941791	AE2-182 C	1.7357	50/50	1.7357
941792	AE2-182 E	0.8080	50/50	0.8080
942461	AE2-259 C O1	15.0450	50/50	15.0450
942462	AE2-259 E O1	10.0300	50/50	10.0300
946291	AF1-293 C O1	39.6213	50/50	39.6213
946292	AF1-293 E O1	7.1274	50/50	7.1274
946301	AF1-294 C	4.8812	50/50	4.8812

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946302	AF1-294 E	3.2541	50/50	3.2541
946591	AF1-323 C	9.4413	50/50	9.4413
946592	AF1-323 E	6.2942	50/50	6.2942
958131	AF2-107 C	4.3954	50/50	4.3954
958132	AF2-107 E	2.4086	50/50	2.4086
958211	AF2-115 C	2.8713	50/50	2.8713
958212	AF2-115 E	1.9142	50/50	1.9142
958501	AF2-144 C	7.4817	50/50	7.4817
958502	AF2-144 E	4.9878	50/50	4.9878
958801	AF2-171 C	17.1486	50/50	17.1486
958802	AF2-171 E	11.4324	50/50	11.4324
959311	AF2-222 C	15.2970	50/50	15.2970
959312	AF2-222 E	10.2490	50/50	10.2490
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8949	50/50	6.8949
959532	AF2-244 E (Withdrawn : 01/06/2021)	4.1076	50/50	4.1076
960111	AF2-302 C	3.4332	50/50	3.4332
960112	AF2-302 E	2.2888	50/50	2.2888
961061	AF2-397 C	36.6545	50/50	36.6545
961062	AF2-397 E	24.4364	50/50	24.4364
961791	AG1-021 C	2.2970	50/50	2.2970
961792	AG1-021 E	1.5314	50/50	1.5314
961801	AG1-022 C	3.4332	50/50	3.4332
961802	AG1-022 E	2.2888	50/50	2.2888
961891	AG1-030 C	15.8202	50/50	15.8202
961892	AG1-030 E	10.5468	50/50	10.5468
962041	AG1-048 C	14.3565	50/50	14.3565
962042	AG1-048 E	9.5710	50/50	9.5710
962491	AG1-098 C O2	7.8308	50/50	7.8308
962492	AG1-098 E O2	5.2205	50/50	5.2205
963171	AG1-166 C	2.2970	50/50	2.2970
963172	AG1-166 E	1.5314	50/50	1.5314
963181	AG1-167 C	2.2970	50/50	2.2970
963182	AG1-167 E	1.5314	50/50	1.5314
963191	AG1-168 C	2.2970	50/50	2.2970
963192	AG1-168 E	1.5314	50/50	1.5314
963201	AG1-169 C	2.2970	50/50	2.2970
963202	AG1-169 E	1.5314	50/50	1.5314
963211	AG1-170 C	2.2970	50/50	2.2970
963212	AG1-170 E	1.5314	50/50	1.5314
963271	AG1-176 C O2	21.5424	50/50	21.5424
963272	AG1-176 E O2	14.3616	50/50	14.3616
963321	AG1-181 C O2	14.3406	50/50	14.3406
963361	AG1-185 O2	6.9384	50/50	6.9384
963641	AG1-215 C	1.0720	50/50	1.0720
963642	AG1-215 E	1.6079	50/50	1.6079
964111	AG1-272 C	2.2600	50/50	2.2600
964112	AG1-272 E	0.6712	50/50	0.6712
964121	AG1-273 C	2.2600	50/50	2.2600
964122	AG1-273 E	0.6712	50/50	0.6712
964131	AG1-274 C	2.2600	50/50	2.2600
964132	AG1-274 E	0.6712	50/50	0.6712

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964231	AG1-284 C O2	17.0608	50/50	17.0608
964232	AG1-284 E O2	11.3739	50/50	11.3739
964821	AG1-345 C	0.9163	50/50	0.9163
964822	AG1-345 E	0.6108	50/50	0.6108
964841	AG1-347 C	9.1235	50/50	9.1235
964842	AG1-347 E	7.1685	50/50	7.1685
964931	AG1-357 C O2	13.6260	50/50	13.6260
964932	AG1-357 E O2	9.0840	50/50	9.0840
965191	AG1-384 C	2.2600	50/50	2.2600
965192	AG1-384 E	0.6712	50/50	0.6712
965281	AG1-393 C	2.2970	50/50	2.2970
965282	AG1-393 E	1.5314	50/50	1.5314
965581	AG1-426	6.4084	50/50	6.4084
965591	AG1-427 C	7.7812	50/50	7.7812
965592	AG1-427 E	5.1984	50/50	5.1984
965641	AG1-432 C O2	30.0900	50/50	30.0900
965642	AG1-432 E O2	20.0600	50/50	20.0600
965831	AG1-451	5.0150	50/50	5.0150
966791	AG1-550 O2	14.2174	50/50	14.2174
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1922	50/50	4.1922
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	2.7948	50/50	2.7948
WEC	WEC	0.2076	Confirmed LTF	0.2076
LGEE	LGEE	0.4442	Confirmed LTF	0.4442
CPLE	CPLE	1.0879	Confirmed LTF	1.0879
CBM-W2	CBM-W2	7.5712	Confirmed LTF	7.5712
NY	NY	0.3711	Confirmed LTF	0.3711
TVA	TVA	1.3510	Confirmed LTF	1.3510
O-066	O-066	5.2898	Confirmed LTF	5.2898
SIGE	SIGE	0.1580	Confirmed LTF	0.1580
CBM-S2	CBM-S2	14.6682	Confirmed LTF	14.6682
CBM-S1	CBM-S1	0.3488	Confirmed LTF	0.3488
G-007	G-007	0.8327	Confirmed LTF	0.8327
MEC	MEC	1.1520	Confirmed LTF	1.1520
LAGN	LAGN	1.6433	Confirmed LTF	1.6433
CBM-W1	CBM-W1	8.7204	Confirmed LTF	8.7204

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174379329	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P4-2: 562T563	breaker	541.0	164.81	165.36	DC	6.63

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.0164	Adder	3.55
314331	6POE	4.8056	50/50	4.8056
314435	6SAPONY	0.3169	50/50	0.3169
314539	3UNCAMP	1.8472	Adder	2.17
314541	3WATKINS	0.2148	Adder	0.25
314572	3EMPORIA	0.2022	Adder	0.24
315073	1STONECA	-1.6562	Adder	-1.95
315131	1EDGECEMA (Deactivation : 22/04/2019)	2.9950	Adder	3.52
315132	1EDGECEMB (Deactivation : 22/04/2019)	2.9950	Adder	3.52
316083	AB2-161 C	3.6022	50/50	3.6022
316084	AB2-161 E	5.8773	50/50	5.8773
316088	AB2-174 E	2.9238	Adder	3.44
316096	AB2-100 C1	0.5969	50/50	0.5969
316097	AB2-100 E1	1.8635	50/50	1.8635
316098	AB2-100 C2	0.5969	50/50	0.5969
316099	AB2-100 E2	1.8635	50/50	1.8635
316103	AB2-015 C	2.6660	Adder	3.14
316104	AB2-015 E	2.1861	Adder	2.57
316118	AC1-105 C	1.4709	Adder	1.73
316129	AC1-054 C	2.4696	Adder	2.91
316140	AB2-099 C (Suspended)	0.1806	Adder	0.21
316141	AB2-099 E (Suspended)	0.0774	Adder	0.09
900672	V4-068 E	0.0962	Adder	0.11
917332	Z2-043 E	0.3333	Adder	0.39
917342	Z2-044 E	0.1897	Adder	0.22
917512	Z2-088 E OP1	2.4377	Adder	2.87
918492	AA1-063AE OP	1.4543	Adder	1.71
918512	AA1-065 E OP	1.1457	Adder	1.35
918532	AA1-067 E	0.2097	Adder	0.25
919692	AA2-053 E OP	1.3787	Adder	1.62
919702	AA2-057 E OP	1.1362	Adder	1.34
920042	AA2-088 E OP	3.4540	Adder	4.06
920592	AA2-165 E	0.1562	Adder	0.18
922923	AB1-081 E OP	1.2371	Adder	1.46
923262	AB1-132 C OP (Suspended)	6.0026	Adder	7.06
923263	AB1-132 E OP (Suspended)	2.5725	Adder	3.03
923573	AB1-173 E OP	0.4704	Adder	0.55
923852	AB2-025 E	0.9025	50/50	0.9025

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923991	AB2-040 C O1	3.2852	Adder	3.86
923992	AB2-040 E O1	2.6879	Adder	3.16
924022	AB2-043 E O1	0.7846	Adder	0.92
924152	AB2-059 E OP	1.7525	Adder	2.06
924162	AB2-060 E OP	1.1761	Adder	1.38
924301	AB2-077 C O1 (Suspended)	0.5570	Adder	0.66
924302	AB2-077 E O1 (Suspended)	0.3713	Adder	0.44
924311	AB2-078 C O1 (Suspended)	0.5570	Adder	0.66
924312	AB2-078 E O1 (Suspended)	0.3713	Adder	0.44
924321	AB2-079 C O1 (Suspended)	0.5570	Adder	0.66
924322	AB2-079 E O1 (Suspended)	0.3713	Adder	0.44
925122	AB2-169 E	1.5324	Adder	1.8
925591	AC1-034 C	2.2035	Adder	2.59
925592	AC1-034 E	1.6623	Adder	1.96
925785	AC1-054 E	1.1377	Adder	1.34
926070	AC1-086 C	8.8395	Adder	10.4
926071	AC1-086 E	4.0232	Adder	4.73
926201	AC1-098 C	2.0490	Adder	2.41
926202	AC1-098 E	1.2207	Adder	1.44
926211	AC1-099 C	0.6866	Adder	0.81
926212	AC1-099 E	0.4033	Adder	0.47
926274	AC1-105 E	0.7227	Adder	0.85
927024	AC1-189 C	2.5800	Adder	3.04
927025	AC1-189 E	1.2852	Adder	1.51
927145	AC1-208 C	3.1230	Adder	3.67
927146	AC1-208 E	1.3811	Adder	1.62
932581	AC2-078 C O1	4.4189	50/50	4.4189
932582	AC2-078 E O1	7.2097	50/50	7.2097
932591	AC2-079 C O1	4.1509	50/50	4.1509
932592	AC2-079 E O1	6.7725	50/50	6.7725
932631	AC2-084 C	2.9209	Adder	3.44
932632	AC2-084 E	1.4386	Adder	1.69
933991	AD1-023 C	3.3267	Adder	3.91
933992	AD1-023 E	1.8111	Adder	2.13
934331	AD1-057 C O1	3.7015	Adder	4.35
934332	AD1-057 E O1	1.9746	Adder	2.32
934575	AD1-082 C	8.2092	50/50	8.2092
934576	AD1-082 E	4.6829	50/50	4.6829
934615	AD1-087 C	2.1462	Adder	2.52
934616	AD1-087 E	0.9184	Adder	1.08
935171	AD1-152 C O1	2.3574	Adder	2.77
935172	AD1-152 E O1	1.5716	Adder	1.85
936361	AD2-046 C O1	2.6648	Adder	3.14
936362	AD2-046 E O1	1.2254	Adder	1.44
936401	AD2-051 C O1	2.5352	Adder	2.98
936402	AD2-051 E O1	1.0886	Adder	1.28
936485	AD2-063 C	3.9436	Adder	4.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936486	AD2-063 E	2.6291	Adder	3.09
936661	AD2-085 C	1.6231	Adder	1.91
936662	AD2-085 E	2.6482	Adder	3.12
936761	AD2-097 C	-0.5997	Adder	-0.71
936762	AD2-097 E	-2.9985	Adder	-3.53
937481	AD2-202 C O1	0.6286	Adder	0.74
937482	AD2-202 E O1	0.3536	Adder	0.42
938222	AE1-035 E	0.3151	Adder	0.37
938494	AE1-068_C1	10.2514	Adder	12.06
938497	AE1-068_C2	10.2514	Adder	12.06
938498	AE1-068_E1	5.6669	Adder	6.67
938499	AE1-068_E2	5.6669	Adder	6.67
938504	AE1-069_C1	7.8127	Adder	9.19
938507	AE1-069_C2	8.4240	Adder	9.91
938508	AE1-069_E1	4.4444	Adder	5.23
938509	AE1-069_E2	4.7882	Adder	5.63
938634	AE1-085 C	9.8700	50/50	9.8700
938635	AE1-085 E	4.9350	50/50	4.9350
938771	AE1-103 C	1.0955	Adder	1.29
938772	AE1-103 E	1.5128	Adder	1.78
939181	AE1-148 C	2.6209	Adder	3.08
939182	AE1-148 E	1.7473	Adder	2.06
939195	AE1-149 C	12.9252	50/50	12.9252
939196	AE1-149 E	8.6168	50/50	8.6168
939414	AE1-173_C1	8.5009	Adder	10.0
939415	AE1-173_C2	7.2865	Adder	8.57
939416	AE1-173_C3	8.5009	Adder	10.0
939423	AE1-173_E1	5.6673	Adder	6.67
939424	AE1-173_E2	4.8576	Adder	5.71
939425	AE1-173_E3	5.6673	Adder	6.67
940061	AE2-000BC O1	10.9500	50/50	10.9500
940062	AE2-000BE O1	7.3000	50/50	7.3000
940471	AE2-031 C	11.1620	Adder	13.13
940472	AE2-031 E	7.4413	Adder	8.75
940481	AE2-033 C	12.5748	50/50	12.5748
940482	AE2-033 E	8.4774	50/50	8.4774
940541	AE2-040	2.2854	50/50	2.2854
940571	AE2-044 C	1.4432	Adder	1.7
940572	AE2-044 E	0.6185	Adder	0.73
940651	AE2-052	4.3084	50/50	4.3084
940661	AE2-053 O1	0.9707	Adder	1.14
941031	AE2-094 C	13.4468	Adder	15.82
941032	AE2-094 E	6.0225	Adder	7.09
941101	AE2-104 C O1	0.9308	Adder	1.1
941102	AE2-104 E O1	1.4799	Adder	1.74
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.1775	Adder	0.21
942161	AE2-228 C	-1.0818	Adder	-1.27
942341	AE2-247 C	0.7076	Adder	0.83
942342	AE2-247 E	0.9772	Adder	1.15
942451	AE2-258	0.6546	Adder	0.77
942471	AE2-260 C O1	9.6379	50/50	9.6379
942472	AE2-260 E O1	13.6701	50/50	13.6701

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942931	AE2-313 C	12.0649	Adder	14.19
942932	AE2-313 E	8.0433	Adder	9.46
943171	AE2-346 C	0.4335	Adder	0.51
943172	AE2-346 E	0.1858	Adder	0.22
943461	AF1-017 C	0.6403	Adder	0.75
943462	AF1-017 E	1.0446	Adder	1.23
943911	AF1-059	6.2447	Adder	7.35
944011	AF1-069 C	4.3936	Adder	5.17
944012	AF1-069 E	1.7068	Adder	2.01
944141	AF1-082	0.9278	Adder	1.09
945811	AF1-246 C O1	2.2484	Adder	2.65
945812	AF1-246 E O1	3.1049	Adder	3.65
946011	AF1-266	10.5261	50/50	10.5261
946261	AF1-291 C	-1.8432	Adder	-2.17
946281	AF1-292 C	0.7419	Adder	0.87
946282	AF1-292 E	0.5002	Adder	0.59
957481	AF2-042 C	16.0599	Adder	18.89
957482	AF2-042 E	10.7066	Adder	12.6
957521	AF2-046 C	5.3740	Adder	6.32
957522	AF2-046 E	2.7031	Adder	3.18
957861	AF2-080 C	2.3432	Adder	2.76
957862	AF2-080 E	1.0388	Adder	1.22
958161	AF2-110 C	0.3837	Adder	0.45
958162	AF2-110 E	0.6002	Adder	0.71
959511	AF2-242 C	2.0142	Adder	2.37
959512	AF2-242 E	1.5666	Adder	1.84
959651	AF2-256 C	-0.2705	Adder	-0.32
959751	AF2-266	2.4582	Adder	2.89
960081	AF2-299 C	1.2504	Adder	1.47
960082	AF2-299 E	0.8336	Adder	0.98
961091	AF2-400 C	0.1440	Adder	0.17
961092	AF2-400 E	0.2362	Adder	0.28
961671	AG1-007 C	0.2032	Adder	0.45
961672	AG1-007 E	0.1135	Adder	0.25
961681	AG1-008 C	2.8539	Adder	6.33
961682	AG1-008 E	1.4270	Adder	3.17
961851	AG1-027 C	2.5785	Adder	5.72
961852	AG1-027 E	1.4254	Adder	3.16
961931	AG1-036 C	0.2261	Adder	0.5
961932	AG1-036 E	0.1507	Adder	0.33
961941	AG1-037 C	0.0821	Adder	0.18
961942	AG1-037 E	0.0547	Adder	0.12
962271	AG1-075 C O2	13.1682	50/50	13.1682
962272	AG1-075 E O2	8.0253	50/50	8.0253
962331	AG1-082 C	0.3283	Adder	0.73
962332	AG1-082 E	0.2188	Adder	0.49
962341	AG1-083 C	0.3283	Adder	0.73
962342	AG1-083 E	0.2188	Adder	0.49
962351	AG1-084 C	0.2822	Adder	0.63
962352	AG1-084 E	0.1881	Adder	0.42
962361	AG1-085 C	0.2822	Adder	0.63
962362	AG1-085 E	0.1881	Adder	0.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962441	AG1-093 C O2	2.2592	Adder	5.01
962442	AG1-093 E O2	0.6876	Adder	1.53
962491	AG1-098 C O2	1.7924	Adder	3.98
962492	AG1-098 E O2	1.1950	Adder	2.65
962561	AG1-105 C O2	1.4015	Adder	3.11
962562	AG1-105 E O2	0.9343	Adder	2.07
962571	AG1-106 C	1.3028	Adder	2.89
962572	AG1-106 E	0.5908	Adder	1.31
963041	AG1-153 C	0.9877	Adder	2.19
963042	AG1-153 E	1.4815	Adder	3.29
963111	AG1-160 C	1.0020	Adder	2.22
963112	AG1-160 E	1.5030	Adder	3.34
963291	AG1-178 C O2	10.5295	Adder	23.37
963301	AG1-179 C	1.2378	Adder	2.75
963311	AG1-180	0.6031	Adder	1.34
963351	AG1-184 O2	5.6727	Adder	12.59
964241	AG1-285 C O2	2.1658	Adder	4.81
964242	AG1-285 E O2	1.4439	Adder	3.21
964491	AG1-312 C O1	2.7943	Adder	6.2
964492	AG1-312 E O1	0.6986	Adder	1.55
964501	AG1-313 C O2	0.8531	Adder	1.89
964502	AG1-313 E O2	0.5687	Adder	1.26
964791	AG1-342 C	0.5827	Adder	1.29
964792	AG1-342 E	0.4579	Adder	1.02
964801	AG1-343 C	1.0340	Adder	2.3
964802	AG1-343 E	0.8125	Adder	1.8
964931	AG1-357 C O2	2.7927	Adder	6.2
964932	AG1-357 E O2	1.8618	Adder	4.13
965291	AG1-394 C	0.3563	Adder	0.79
965292	AG1-394 E	0.2375	Adder	0.53
965451	AG1-413 C O2	1.3601	Adder	3.02
965452	AG1-413 E O2	0.9067	Adder	2.01
965591	AG1-427 C	1.6752	Adder	3.72
965592	AG1-427 E	1.1192	Adder	2.48
965601	AG1-428 C O2	1.0334	Adder	2.29
965602	AG1-428 E O2	0.6877	Adder	1.53
965691	AG1-437 C O1	1.4056	Adder	3.12
965692	AG1-437 E O1	0.9370	Adder	2.08
965701	AG1-438 C O1	1.4056	Adder	3.12
965702	AG1-438 E O1	0.9370	Adder	2.08
965711	AG1-439 C O1	3.9072	Adder	8.67
965712	AG1-439 E O1	2.6048	Adder	5.78
965721	AG1-440 C	1.2263	Adder	2.72
965722	AG1-440 E	0.8175	Adder	1.81
965731	AG1-441 C	1.2263	Adder	2.72
965732	AG1-441 E	0.8175	Adder	1.81
965741	AG1-442 O1	0.8199	Adder	1.82
965751	AG1-443 O1	0.8199	Adder	1.82
965761	AG1-444 O1	2.0838	Adder	4.63
965771	AG1-445	0.7085	Adder	1.57
965781	AG1-446	0.7085	Adder	1.57
965811	AG1-449	4.1479	Adder	9.21

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966361	AG1-505 C	2.8759	Adder	6.38
966362	AG1-505 E	1.9172	Adder	4.26
966371	AG1-506 C	2.8759	Adder	6.38
966372	AG1-506 E	1.9172	Adder	4.26
966621	AG1-532 C	0.3579	Adder	0.79
966622	AG1-532 E	0.2386	Adder	0.53
966731	AG1-544 C	7.7085	50/50	7.7085
966732	AG1-544 E	4.1355	50/50	4.1355
966741	AG1-545 C	2.5480	50/50	2.5480
966742	AG1-545 E	1.3660	50/50	1.3660
966751	AG1-546 C	2.9153	Adder	6.47
966752	AG1-546 E	1.5643	Adder	3.47
966801	AG1-551 C	0.3386	Adder	0.75
966802	AG1-551 E	0.1451	Adder	0.32
966811	AG1-552 C	0.4246	Adder	0.94
966812	AG1-552 E	0.1820	Adder	0.4
WEC	WEC	0.2712	Confirmed LTF	0.2712
LGEE	LGEE	0.5586	Confirmed LTF	0.5586
CPL	CPL	2.9081	Confirmed LTF	2.9081
CBM-W2	CBM-W2	12.0512	Confirmed LTF	12.0512
NY	NY	0.4053	Confirmed LTF	0.4053
TVA	TVA	2.2834	Confirmed LTF	2.2834
O-066	O-066	5.6868	Confirmed LTF	5.6868
SIGE	SIGE	0.1887	Confirmed LTF	0.1887
CBM-S2	CBM-S2	34.5460	Confirmed LTF	34.5460
CBM-S1	CBM-S1	0.5685	Confirmed LTF	0.5685
G-007	G-007	0.8946	Confirmed LTF	0.8946
MEC	MEC	1.6351	Confirmed LTF	1.6351
LAGN	LAGN	2.8385	Confirmed LTF	2.8385
AA2-074	AA2-074	1.9206	LTF	1.9206
CBM-W1	CBM-W1	11.3282	Confirmed LTF	11.3282

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173979077	314333	6POWHATN	DVP	314310	6JUDES F	DVP	1	DVP_P4-2: 2028T2054	breaker	980.0	101.43	102.76	DC	13.05

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.7657	50/50	0.7657
314333	6POWHATN	1.5970	50/50	1.5970
314429	3JTRSVLE	0.4832	50/50	0.4832
314677	6BUCKING	0.8049	50/50	0.8049
314713	3PAMPLIN	2.0182	50/50	2.0182
315191	1BEARGRDN G1	14.2609	50/50	14.2609
315192	1BEARGRDN G2	14.2609	50/50	14.2609
315193	1BEARGRDN S1	18.4421	50/50	18.4421
923862	AB2-026 E	4.5477	50/50	4.5477
924032	AB2-045 E	2.3810	50/50	2.3810
924162	AB2-060 E OP	2.1283	Adder	2.5
925611	AC1-036 C	0.1989	50/50	0.1989
925612	AC1-036 E	0.7548	50/50	0.7548
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7930	50/50	0.7930
932512	AC2-071 E (Withdrawn : 01/22/2021)	2.5321	50/50	2.5321
933501	AC2-165 C	39.2268	50/50	39.2268
933502	AC2-165 E	29.5234	50/50	29.5234
934625	AD1-088 C	10.6836	50/50	10.6836
934626	AD1-088 E	2.7981	50/50	2.7981
935221	AD1-157 C	0.2945	50/50	0.2945
935222	AD1-157 E	1.2443	50/50	1.2443
936265	AD2-033 C	10.6439	50/50	10.6439
936266	AD2-033 E	7.0959	50/50	7.0959
936485	AD2-063 C	10.2888	50/50	10.2888
936486	AD2-063 E	6.8592	50/50	6.8592
938371	AE1-056 C	8.0463	50/50	8.0463
938372	AE1-056 E	4.3965	50/50	4.3965
938561	AE1-075 C	1.3887	50/50	1.3887
938562	AE1-075 E	4.3277	50/50	4.3277
938821	AE1-108 C O1	29.4146	50/50	29.4146
938822	AE1-108 E O1	13.2013	50/50	13.2013
941011	AE2-092 C	25.3840	50/50	25.3840
941012	AE2-092 E	16.9227	50/50	16.9227
941791	AE2-182 C	1.7357	50/50	1.7357
941792	AE2-182 E	0.8080	50/50	0.8080
942461	AE2-259 C O1	15.0450	50/50	15.0450
942462	AE2-259 E O1	10.0300	50/50	10.0300
946291	AF1-293 C O1	39.6213	50/50	39.6213
946292	AF1-293 E O1	7.1274	50/50	7.1274
946301	AF1-294 C	4.8812	50/50	4.8812

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946302	AF1-294 E	3.2541	50/50	3.2541
946591	AF1-323 C	9.4413	50/50	9.4413
946592	AF1-323 E	6.2942	50/50	6.2942
958131	AF2-107 C	4.3954	50/50	4.3954
958132	AF2-107 E	2.4086	50/50	2.4086
958211	AF2-115 C	2.8713	50/50	2.8713
958212	AF2-115 E	1.9142	50/50	1.9142
958501	AF2-144 C	7.4817	50/50	7.4817
958502	AF2-144 E	4.9878	50/50	4.9878
958801	AF2-171 C	17.1486	50/50	17.1486
958802	AF2-171 E	11.4324	50/50	11.4324
959311	AF2-222 C	15.2970	50/50	15.2970
959312	AF2-222 E	10.2490	50/50	10.2490
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8949	50/50	6.8949
959532	AF2-244 E (Withdrawn : 01/06/2021)	4.1076	50/50	4.1076
960111	AF2-302 C	3.4332	50/50	3.4332
960112	AF2-302 E	2.2888	50/50	2.2888
961061	AF2-397 C	36.6545	50/50	36.6545
961062	AF2-397 E	24.4364	50/50	24.4364
961791	AG1-021 C	2.2970	50/50	2.2970
961792	AG1-021 E	1.5314	50/50	1.5314
961801	AG1-022 C	3.4332	50/50	3.4332
961802	AG1-022 E	2.2888	50/50	2.2888
961891	AG1-030 C	15.8202	50/50	15.8202
961892	AG1-030 E	10.5468	50/50	10.5468
962041	AG1-048 C	14.3565	50/50	14.3565
962042	AG1-048 E	9.5710	50/50	9.5710
962491	AG1-098 C O2	7.8308	50/50	7.8308
962492	AG1-098 E O2	5.2205	50/50	5.2205
963171	AG1-166 C	2.2970	50/50	2.2970
963172	AG1-166 E	1.5314	50/50	1.5314
963181	AG1-167 C	2.2970	50/50	2.2970
963182	AG1-167 E	1.5314	50/50	1.5314
963191	AG1-168 C	2.2970	50/50	2.2970
963192	AG1-168 E	1.5314	50/50	1.5314
963201	AG1-169 C	2.2970	50/50	2.2970
963202	AG1-169 E	1.5314	50/50	1.5314
963211	AG1-170 C	2.2970	50/50	2.2970
963212	AG1-170 E	1.5314	50/50	1.5314
963271	AG1-176 C O2	21.5424	50/50	21.5424
963272	AG1-176 E O2	14.3616	50/50	14.3616
963321	AG1-181 C O2	14.3406	50/50	14.3406
963361	AG1-185 O2	6.9384	50/50	6.9384
963641	AG1-215 C	1.0720	50/50	1.0720
963642	AG1-215 E	1.6079	50/50	1.6079
964111	AG1-272 C	2.2600	50/50	2.2600
964112	AG1-272 E	0.6712	50/50	0.6712
964121	AG1-273 C	2.2600	50/50	2.2600
964122	AG1-273 E	0.6712	50/50	0.6712
964131	AG1-274 C	2.2600	50/50	2.2600
964132	AG1-274 E	0.6712	50/50	0.6712

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964231	AG1-284 C O2	17.0608	50/50	17.0608
964232	AG1-284 E O2	11.3739	50/50	11.3739
964821	AG1-345 C	0.9163	50/50	0.9163
964822	AG1-345 E	0.6108	50/50	0.6108
964841	AG1-347 C	9.1235	50/50	9.1235
964842	AG1-347 E	7.1685	50/50	7.1685
964931	AG1-357 C O2	13.6260	50/50	13.6260
964932	AG1-357 E O2	9.0840	50/50	9.0840
965191	AG1-384 C	2.2600	50/50	2.2600
965192	AG1-384 E	0.6712	50/50	0.6712
965281	AG1-393 C	2.2970	50/50	2.2970
965282	AG1-393 E	1.5314	50/50	1.5314
965581	AG1-426	6.4084	50/50	6.4084
965591	AG1-427 C	7.7812	50/50	7.7812
965592	AG1-427 E	5.1984	50/50	5.1984
965641	AG1-432 C O2	30.0900	50/50	30.0900
965642	AG1-432 E O2	20.0600	50/50	20.0600
965831	AG1-451	5.0150	50/50	5.0150
966791	AG1-550 O2	14.2174	50/50	14.2174
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1922	50/50	4.1922
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	2.7948	50/50	2.7948
WEC	WEC	0.2076	Confirmed LTF	0.2076
LGEE	LGEE	0.4442	Confirmed LTF	0.4442
CPLE	CPLE	1.0879	Confirmed LTF	1.0879
CBM-W2	CBM-W2	7.5712	Confirmed LTF	7.5712
NY	NY	0.3711	Confirmed LTF	0.3711
TVA	TVA	1.3510	Confirmed LTF	1.3510
O-066	O-066	5.2898	Confirmed LTF	5.2898
SIGE	SIGE	0.1580	Confirmed LTF	0.1580
CBM-S2	CBM-S2	14.6682	Confirmed LTF	14.6682
CBM-S1	CBM-S1	0.3488	Confirmed LTF	0.3488
G-007	G-007	0.8327	Confirmed LTF	0.8327
MEC	MEC	1.1520	Confirmed LTF	1.1520
LAGN	LAGN	1.6433	Confirmed LTF	1.6433
CBM-W1	CBM-W1	8.7204	Confirmed LTF	8.7204

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168643302	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P1-2: LN 2012-B	single	678.68	139.24	140.76	DC	10.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	15.3156	80/20	15.3156
313527	AB2-043 C	0.4288	80/20	0.4288
313719	3CHESTNUT	1.2935	80/20	1.2935
314435	6SAPONY	1.6595	80/20	1.6595
314572	3EMPORIA	1.0789	80/20	1.0789
314582	3KELFORD	0.2858	80/20	0.2858
314589	3MURPHYS	0.0711	80/20	0.0711
314623	3WITAKRS	0.2312	80/20	0.2312
314704	3LAWRENC	0.6279	80/20	0.6279
315115	1S HAMPT1	0.8776	80/20	0.8776
315126	1ROARAP2	2.2662	80/20	2.2662
315128	1ROARAP4	2.1626	80/20	2.1626
315131	1EDGECEMA (Deactivation : 22/04/2019)	9.7660	80/20	9.7660
315132	1EDGECEMB (Deactivation : 22/04/2019)	9.7660	80/20	9.7660
315136	1ROSEMG1	4.4501	80/20	4.4501
315137	1ROSEMS1	2.7595	80/20	2.7595
315138	1ROSEMG2	2.0856	80/20	2.0856
315139	1GASTONA	6.8704	80/20	6.8704
315141	1GASTONB	6.8704	80/20	6.8704
315158	1KERR 1	0.3730	80/20	0.3730
315159	1KERR 2	1.0443	80/20	1.0443
315160	1KERR 3	1.0443	80/20	1.0443
315161	1KERR 4	1.0443	80/20	1.0443
315162	1KERR 5	1.0443	80/20	1.0443
315163	1KERR 6	1.0443	80/20	1.0443
315164	1KERR 7	1.0443	80/20	1.0443
315601	1CONETOE2SOL	1.0903	80/20	1.0903
315606	3AA2-053SOLA	2.1939	80/20	2.1939
315607	3AA1-063SOLA	1.8762	80/20	1.8762
315608	3AA2-088SOLA	0.8797	80/20	0.8797
316020	AB2-059 C OP	1.7279	80/20	1.7279
316087	AB2-174 C	2.6391	80/20	2.6391
316096	AB2-100 C1	2.9775	80/20	2.9775
316098	AB2-100 C2	2.9775	80/20	2.9775
316103	AB2-015 C	4.6450	80/20	4.6450
316129	AC1-054 C	9.5364	80/20	9.5364
316131	AB2-060 C	1.2144	80/20	1.2144
316140	AB2-099 C (Suspended)	0.4045	80/20	0.4045
920591	AA2-165 C	0.1736	80/20	0.1736
922922	AB1-081 C OP	1.4661	80/20	1.4661

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923991	AB2-040 C O1	16.6804	80/20	16.6804
924301	AB2-077 C O1 (Suspended)	1.7041	80/20	1.7041
924311	AB2-078 C O1 (Suspended)	1.7041	80/20	1.7041
924321	AB2-079 C O1 (Suspended)	1.7041	80/20	1.7041
925591	AC1-034 C	7.0939	80/20	7.0939
925611	AC1-036 C	0.1517	80/20	0.1517
926070	AC1-086 C	48.9704	80/20	48.9704
926201	AC1-098 C	6.6875	80/20	6.6875
926211	AC1-099 C	2.2410	80/20	2.2410
927024	AC1-189 C	6.2932	80/20	6.2932
927145	AC1-208 C	11.4102	80/20	11.4102
932631	AC2-084 C	9.5333	80/20	9.5333
934331	AD1-057 C O1	16.4836	80/20	16.4836
936265	AD2-033 C	9.1978	80/20	9.1978
936361	AD2-046 C O1	8.5115	80/20	8.5115
936401	AD2-051 C O1	20.4858	80/20	20.4858
936485	AD2-063 C	11.8341	80/20	11.8341
939181	AE1-148 C	8.3608	80/20	8.3608
940481	AE2-033 C	65.5004	80/20	65.5004
940541	AE2-040	11.9665	80/20	11.9665
940571	AE2-044 C	4.6463	80/20	4.6463
940661	AE2-053 O1	3.0966	80/20	3.0966
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1104	80/20	0.1104
942451	AE2-258	2.0279	80/20	2.0279
942471	AE2-260 C O1	48.3208	80/20	48.3208
943171	AE2-346 C	0.9707	80/20	0.9707
943911	AF1-059	27.9684	80/20	27.9684
944141	AF1-082	2.9869	80/20	2.9869
946011	AF1-266	54.8290	80/20	54.8290
946281	AF1-292 C	4.0269	80/20	4.0269
957521	AF2-046 C	13.4760	80/20	13.4760
957861	AF2-080 C	5.7157	80/20	5.7157
958801	AF2-171 C	7.6482	80/20	7.6482
959311	AF2-222 C	10.7910	80/20	10.7910
960081	AF2-299 C	6.7869	80/20	6.7869
961091	AF2-400 C	0.2508	80/20	0.2508
961671	AG1-007 C	1.0795	80/20	1.0795
961681	AG1-008 C	13.5030	80/20	13.5030
961891	AG1-030 C	8.4555	80/20	8.4555
961931	AG1-036 C	1.0099	80/20	1.0099
961941	AG1-037 C	0.3467	80/20	0.3467
962271	AG1-075 C O2	68.5915	80/20	68.5915
962331	AG1-082 C	1.3867	80/20	1.3867
962341	AG1-083 C	1.3867	80/20	1.3867
962351	AG1-084 C	1.1305	80/20	1.1305
962361	AG1-085 C	1.1305	80/20	1.1305
962491	AG1-098 C O2	10.3095	80/20	10.3095
962561	AG1-105 C O2	5.9154	80/20	5.9154
962571	AG1-106 C	13.6183	80/20	13.6183

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963301	AG1-179 C	11.3000	80/20	11.3000
963311	AG1-180	5.5056	80/20	5.5056
963321	AG1-181 C O2	11.5940	80/20	11.5940
963361	AG1-185 O2	5.6095	80/20	5.6095
964111	AG1-272 C	1.7243	80/20	1.7243
964121	AG1-273 C	1.7243	80/20	1.7243
964131	AG1-274 C	1.7243	80/20	1.7243
964501	AG1-313 C O2	5.8747	80/20	5.8747
964791	AG1-342 C	2.2708	80/20	2.2708
964801	AG1-343 C	5.3000	80/20	5.3000
964821	AG1-345 C	0.4067	80/20	0.4067
964931	AG1-357 C O2	15.8268	80/20	15.8268
965191	AG1-384 C	1.7243	80/20	1.7243
965291	AG1-394 C	1.8468	80/20	1.8468
965451	AG1-413 C O2	11.2653	80/20	11.2653
965591	AG1-427 C	9.5615	80/20	9.5615
965601	AG1-428 C O2	9.4335	80/20	9.4335
965711	AG1-439 C O1	19.5585	80/20	19.5585
965721	AG1-440 C	8.0249	80/20	8.0249
965731	AG1-441 C	8.0249	80/20	8.0249
965761	AG1-444 O1	10.4312	80/20	10.4312
965771	AG1-445	4.6366	80/20	4.6366
965781	AG1-446	4.6366	80/20	4.6366
966621	AG1-532 C	3.6649	80/20	3.6649
966751	AG1-546 C	21.6531	80/20	21.6531
966811	AG1-552 C	3.5982	80/20	3.5982
WEC	WEC	0.2712	Confirmed LTF	0.2712
LGEE	LGEE	0.5579	Confirmed LTF	0.5579
CPL	CPL	3.0856	Confirmed LTF	3.0856
CBM-W2	CBM-W2	11.7645	Confirmed LTF	11.7645
NY	NY	0.3528	Confirmed LTF	0.3528
TVA	TVA	2.2106	Confirmed LTF	2.2106
SIGE	SIGE	0.1774	Confirmed LTF	0.1774
CBM-S2	CBM-S2	34.1492	Confirmed LTF	34.1492
CBM-S1	CBM-S1	0.5521	Confirmed LTF	0.5521
MEC	MEC	1.6160	Confirmed LTF	1.6160
LAGN	LAGN	2.7492	Confirmed LTF	2.7492
AA2-074	AA2-074	2.0381	LTF	2.0381
CBM-W1	CBM-W1	11.3702	Confirmed LTF	11.3702

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174174032	314559	3CAROLNA	DVP	314561	6CAROLNA	DVP	1	DVP_P4-2: L5T68	breaker	288.6	143.5	145.24	DC	11.12

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.1583	50/50	9.1583
314539	3UNCAMP	10.1699	50/50	10.1699
314541	3WATKINS	1.1623	50/50	1.1623
314572	3EMPORIA	0.2663	Adder	0.31
314589	3MURPHYS	0.1129	50/50	0.1129
315115	1S HAMPT1	2.4343	50/50	2.4343
315126	1ROARAP2	3.2338	50/50	3.2338
315128	1ROARAP4	3.0859	50/50	3.0859
315161	1KERR 4	1.0128	50/50	1.0128
315162	1KERR 5	1.0128	50/50	1.0128
315163	1KERR 6	1.0128	50/50	1.0128
315164	1KERR 7	1.0128	50/50	1.0128
315606	3AA2-053SOLA	2.9990	50/50	2.9990
315607	3AA1-063SOLA	2.9020	50/50	2.9020
315608	3AA2-088SOLA	1.7420	50/50	1.7420
316087	AB2-174 C	1.2565	50/50	1.2565
316088	AB2-174 E	7.2059	50/50	7.2059
316103	AB2-015 C	14.5285	50/50	14.5285
316104	AB2-015 E	11.9134	50/50	11.9134
316129	AC1-054 C	11.8223	50/50	11.8223
316140	AB2-099 C (Suspended)	0.3167	Adder	0.37
316141	AB2-099 E (Suspended)	0.1357	Adder	0.16
900672	V4-068 E	0.3921	50/50	0.3921
917332	Z2-043 E	0.5086	Adder	0.6
918492	AA1-063AE OP	8.6731	50/50	8.6731
919692	AA2-053 E OP	7.8046	50/50	7.8046
919702	AA2-057 E OP	1.7004	Adder	2.0
920042	AA2-088 E OP	18.0153	50/50	18.0153
920592	AA2-165 E	0.2337	Adder	0.27
923573	AB1-173 E OP	1.4281	50/50	1.4281
923991	AB2-040 C O1	9.9744	50/50	9.9744
923992	AB2-040 E O1	8.1608	50/50	8.1608
924022	AB2-043 E O1	1.3328	Adder	1.57
924162	AB2-060 E OP	1.9886	Adder	2.34
924301	AB2-077 C O1 (Suspended)	0.9579	Adder	1.13
924302	AB2-077 E O1 (Suspended)	0.6386	Adder	0.75
924311	AB2-078 C O1 (Suspended)	0.9579	Adder	1.13
924312	AB2-078 E O1 (Suspended)	0.6386	Adder	0.75

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924321	AB2-079 C O1 (Suspended)	0.9579	Adder	1.13
924322	AB2-079 E O1 (Suspended)	0.6386	Adder	0.75
925612	AC1-036 E	0.3205	Adder	0.38
925785	AC1-054 E	5.4462	50/50	5.4462
926201	AC1-098 C	4.3814	Adder	5.15
926202	AC1-098 E	2.6102	Adder	3.07
926211	AC1-099 C	1.4682	Adder	1.73
926212	AC1-099 E	0.8623	Adder	1.01
927145	AC1-208 C	10.1194	50/50	10.1194
927146	AC1-208 E	4.4752	50/50	4.4752
932631	AC2-084 C	6.2458	Adder	7.35
932632	AC2-084 E	3.0763	Adder	3.62
936265	AD2-033 C	5.1024	Adder	6.0
936266	AD2-033 E	3.4016	Adder	4.0
936361	AD2-046 C O1	6.6553	Adder	7.83
936362	AD2-046 E O1	3.0605	Adder	3.6
936485	AD2-063 C	6.5209	Adder	7.67
936486	AD2-063 E	4.3472	Adder	5.11
938771	AE1-103 C	6.1020	50/50	6.1020
938772	AE1-103 E	8.4265	50/50	8.4265
939181	AE1-148 C	6.4655	Adder	7.61
939182	AE1-148 E	4.3103	Adder	5.07
940661	AE2-053 O1	2.3946	Adder	2.82
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2040	Adder	0.24
942451	AE2-258	1.1120	Adder	1.31
943171	AE2-346 C	0.7600	Adder	0.89
943172	AE2-346 E	0.3257	Adder	0.38
943911	AF1-059	7.5247	Adder	8.85
946281	AF1-292 C	0.6420	Adder	0.76
946282	AF1-292 E	0.4328	Adder	0.51
957521	AF2-046 C	19.9560	50/50	19.9560
957522	AF2-046 E	10.0380	50/50	10.0380
959311	AF2-222 C	6.0197	Adder	7.08
959312	AF2-222 E	4.0332	Adder	4.74
960081	AF2-299 C	1.0821	Adder	1.27
960082	AF2-299 E	0.7214	Adder	0.85
961091	AF2-400 C	0.7845	50/50	0.7845
961092	AF2-400 E	1.2872	50/50	1.2872
961681	AG1-008 C	19.9960	50/50	19.9960
961682	AG1-008 E	9.9980	50/50	9.9980
961851	AG1-027 C	28.0681	50/50	28.0681
961852	AG1-027 E	15.5159	50/50	15.5159
961931	AG1-036 C	0.5483	Adder	1.22
961932	AG1-036 E	0.3655	Adder	0.81
961941	AG1-037 C	0.1439	Adder	0.32
961942	AG1-037 E	0.0959	Adder	0.21
962331	AG1-082 C	0.5754	Adder	1.28
962332	AG1-082 E	0.3836	Adder	0.85
962341	AG1-083 C	0.5754	Adder	1.28
962342	AG1-083 E	0.3836	Adder	0.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962351	AG1-084 C	0.3244	Adder	0.72
962352	AG1-084 E	0.2162	Adder	0.48
962361	AG1-085 C	0.3244	Adder	0.72
962362	AG1-085 E	0.2162	Adder	0.48
962491	AG1-098 C O2	3.0047	Adder	6.67
962492	AG1-098 E O2	2.0031	Adder	4.45
963301	AG1-179 C	1.3323	Adder	2.96
963311	AG1-180	0.6491	Adder	1.44
963321	AG1-181 C O2	3.4138	Adder	7.58
963361	AG1-185 O2	1.6517	Adder	3.67
964111	AG1-272 C	0.5086	Adder	1.13
964112	AG1-272 E	0.1511	Adder	0.34
964121	AG1-273 C	0.5086	Adder	1.13
964122	AG1-273 E	0.1511	Adder	0.34
964131	AG1-274 C	0.5086	Adder	1.13
964132	AG1-274 E	0.1511	Adder	0.34
964501	AG1-313 C O2	7.4230	50/50	7.4230
964502	AG1-313 E O2	4.9487	50/50	4.9487
964801	AG1-343 C	9.7549	50/50	9.7549
964802	AG1-343 E	7.6645	50/50	7.6645
964931	AG1-357 C O2	4.6227	Adder	10.26
964932	AG1-357 E O2	3.0818	Adder	6.84
965191	AG1-384 C	0.5086	Adder	1.13
965192	AG1-384 E	0.1511	Adder	0.34
965291	AG1-394 C	3.4868	50/50	3.4868
965292	AG1-394 E	2.3246	50/50	2.3246
965451	AG1-413 C O2	1.6821	Adder	3.73
965452	AG1-413 E O2	1.1214	Adder	2.49
965591	AG1-427 C	2.7889	Adder	6.19
965592	AG1-427 E	1.8632	Adder	4.14
965601	AG1-428 C O2	1.1122	Adder	2.47
965602	AG1-428 E O2	0.7402	Adder	1.64
965721	AG1-440 C	8.7340	50/50	8.7340
965722	AG1-440 E	5.8227	50/50	5.8227
965731	AG1-441 C	8.7340	50/50	8.7340
965732	AG1-441 E	5.8227	50/50	5.8227
965771	AG1-445	5.0463	50/50	5.0463
965781	AG1-446	5.0463	50/50	5.0463
966621	AG1-532 C	0.3097	Adder	0.69
966622	AG1-532 E	0.2065	Adder	0.46
966751	AG1-546 C	27.3941	50/50	27.3941
966752	AG1-546 E	14.6989	50/50	14.6989
966811	AG1-552 C	5.1344	50/50	5.1344
966812	AG1-552 E	2.2004	50/50	2.2004
WEC	WEC	0.0176	Confirmed LTF	0.0176
LGEE	LGEE	0.0390	Confirmed LTF	0.0390
CPL	CPL	0.1269	Confirmed LTF	0.1269
CBM-W2	CBM-W2	0.7168	Confirmed LTF	0.7168
NY	NY	0.0597	Confirmed LTF	0.0597
TVA	TVA	0.1344	Confirmed LTF	0.1344
O-066	O-066	0.8211	Confirmed LTF	0.8211
SIGE	SIGE	0.0194	Confirmed LTF	0.0194

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S2	CBM-S2	1.7226	Confirmed LTF	1.7226
CBM-S1	CBM-S1	0.0338	Confirmed LTF	0.0338
G-007	G-007	0.1292	Confirmed LTF	0.1292
MEC	MEC	0.1017	Confirmed LTF	0.1017
LAGN	LAGN	0.1610	Confirmed LTF	0.1610
CBM-W1	CBM-W1	0.7150	Confirmed LTF	0.7150

13.5.25 Index 25

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173979049	314561	6CAROLNA	DVP	314599	6ROA VAL	DVP	1	DVP_P4-2: 23872	breaker	671.0	112.82	113.53	DC	10.59

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3530	50/50	9.3530
314572	3EMPORIA	0.6243	50/50	0.6243
314704	3LAWRENC	0.3601	50/50	0.3601
315126	1ROARAP2	1.5793	50/50	1.5793
315128	1ROARAP4	1.5071	50/50	1.5071
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315136	1ROSEMG1	3.8541	50/50	3.8541
315137	1ROSEMS1	2.3899	50/50	2.3899
315138	1ROSEMG2	1.8063	50/50	1.8063
315139	1GASTONA	6.0597	50/50	6.0597
315141	1GASTONB	6.0597	50/50	6.0597
315162	1KERR 5	0.6746	50/50	0.6746
315163	1KERR 6	0.6746	50/50	0.6746
315164	1KERR 7	0.6746	50/50	0.6746
315293	1DOMTR9	-3.2315	Adder	-3.8
315294	1DOMTR10	-3.9602	Adder	-4.66
315606	3AA2-053SOLA	1.2798	50/50	1.2798
315607	3AA1-063SOLA	1.1585	50/50	1.1585
316087	AB2-174 C	1.5782	50/50	1.5782
316088	AB2-174 E	9.0505	50/50	9.0505
316096	AB2-100 C1	1.6883	50/50	1.6883
316097	AB2-100 E1	5.2708	50/50	5.2708
316098	AB2-100 C2	1.6883	50/50	1.6883
316099	AB2-100 E2	5.2708	50/50	5.2708
316129	AC1-054 C	6.4467	50/50	6.4467
917342	Z2-044 E	0.2916	Adder	0.34
918492	AA1-063AE OP	3.4622	50/50	3.4622
919692	AA2-053 E OP	3.3307	50/50	3.3307
919702	AA2-057 E OP	1.7318	Adder	2.04
920592	AA2-165 E	0.2380	Adder	0.28
922923	AB1-081 E OP	1.9462	Adder	2.29
923262	AB1-132 C OP (Suspended)	29.3303	50/50	29.3303
923263	AB1-132 E OP (Suspended)	12.5701	50/50	12.5701
923573	AB1-173 E OP	1.4585	50/50	1.4585
923991	AB2-040 C O1	10.1864	50/50	10.1864
923992	AB2-040 E O1	8.3344	50/50	8.3344
924022	AB2-043 E O1	1.2716	Adder	1.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924152	AB2-059 E OP	2.7571	Adder	3.24
924162	AB2-060 E OP	1.8959	Adder	2.23
924301	AB2-077 C O1 (Suspended)	0.8937	Adder	1.05
924302	AB2-077 E O1 (Suspended)	0.5958	Adder	0.7
924311	AB2-078 C O1 (Suspended)	0.8937	Adder	1.05
924312	AB2-078 E O1 (Suspended)	0.5958	Adder	0.7
924321	AB2-079 C O1 (Suspended)	0.8937	Adder	1.05
924322	AB2-079 E O1 (Suspended)	0.5958	Adder	0.7
925591	AC1-034 C	3.4666	Adder	4.08
925592	AC1-034 E	2.6152	Adder	3.08
925612	AC1-036 E	0.3036	Adder	0.36
925785	AC1-054 E	2.9698	50/50	2.9698
926070	AC1-086 C	43.1923	50/50	43.1923
926071	AC1-086 E	19.6583	50/50	19.6583
927145	AC1-208 C	6.0602	50/50	6.0602
927146	AC1-208 E	2.6801	50/50	2.6801
934331	AD1-057 C O1	12.8853	50/50	12.8853
934332	AD1-057 E O1	6.8735	50/50	6.8735
936265	AD2-033 C	4.8406	Adder	5.69
936266	AD2-033 E	3.2270	Adder	3.8
936361	AD2-046 C O1	4.6394	Adder	5.46
936362	AD2-046 E O1	2.1334	Adder	2.51
936485	AD2-063 C	6.2072	Adder	7.3
936486	AD2-063 E	4.1381	Adder	4.87
939181	AE1-148 C	4.5510	Adder	5.35
939182	AE1-148 E	3.0340	Adder	3.57
940481	AE2-033 C	28.0982	50/50	28.0982
940482	AE2-033 E	18.9426	50/50	18.9426
940571	AE2-044 C	2.2705	Adder	2.67
940572	AE2-044 E	0.9731	Adder	1.14
940661	AE2-053 O1	1.6856	Adder	1.98
942451	AE2-258	1.0609	Adder	1.25
942471	AE2-260 C O1	26.1100	50/50	26.1100
942472	AE2-260 E O1	37.0340	50/50	37.0340
943911	AF1-059	16.2609	50/50	16.2609
944141	AF1-082	1.4596	Adder	1.72
946011	AF1-266	23.5204	50/50	23.5204
946281	AF1-292 C	2.2873	50/50	2.2873
946282	AF1-292 E	1.5420	50/50	1.5420
959311	AF2-222 C	5.6959	Adder	6.7
959312	AF2-222 E	3.8162	Adder	4.49
960081	AF2-299 C	3.8550	50/50	3.8550
960082	AF2-299 E	2.5700	50/50	2.5700
962271	AG1-075 C O2	29.4242	50/50	29.4242
962272	AG1-075 E O2	17.9323	50/50	17.9323
962491	AG1-098 C O2	2.8625	Adder	6.35
962492	AG1-098 E O2	1.9083	Adder	4.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962571	AG1-106 C	12.0114	50/50	12.0114
962572	AG1-106 E	5.4471	50/50	5.4471
963301	AG1-179 C	6.5051	50/50	6.5051
963311	AG1-180	3.1695	50/50	3.1695
963321	AG1-181 C O2	3.2371	Adder	7.19
963361	AG1-185 O2	1.5662	Adder	3.48
964111	AG1-272 C	0.4818	Adder	1.07
964112	AG1-272 E	0.1431	Adder	0.32
964121	AG1-273 C	0.4818	Adder	1.07
964122	AG1-273 E	0.1431	Adder	0.32
964131	AG1-274 C	0.4818	Adder	1.07
964132	AG1-274 E	0.1431	Adder	0.32
964493	AG1-312 BAT	11.1153	50/50	11.1153
964501	AG1-313 C O2	1.0258	Adder	2.28
964502	AG1-313 E O2	0.6839	Adder	1.52
964931	AG1-357 C O2	4.3994	Adder	9.77
964932	AG1-357 E O2	2.9329	Adder	6.51
965191	AG1-384 C	0.4818	Adder	1.07
965192	AG1-384 E	0.1431	Adder	0.32
965451	AG1-413 C O2	6.5669	50/50	6.5669
965452	AG1-413 E O2	4.3779	50/50	4.3779
965591	AG1-427 C	2.6560	Adder	5.9
965592	AG1-427 E	1.7744	Adder	3.94
965601	AG1-428 C O2	5.4306	50/50	5.4306
965602	AG1-428 E O2	3.6140	50/50	3.6140
965721	AG1-440 C	5.2898	50/50	5.2898
965722	AG1-440 E	3.5265	50/50	3.5265
965731	AG1-441 C	5.2898	50/50	5.2898
965732	AG1-441 E	3.5265	50/50	3.5265
965742	AG1-442 BAT	4.6785	50/50	4.6785
965752	AG1-443 BAT	4.6785	50/50	4.6785
965771	AG1-445	3.0563	50/50	3.0563
965781	AG1-446	3.0563	50/50	3.0563
966621	AG1-532 C	2.0817	50/50	2.0817
966622	AG1-532 E	1.3878	50/50	1.3878
966751	AG1-546 C	14.6996	50/50	14.6996
966752	AG1-546 E	7.8874	50/50	7.8874
966811	AG1-552 C	2.5075	50/50	2.5075
966812	AG1-552 E	1.0747	50/50	1.0747
966932	AG1-431A BAT	9.7064	Merchant Transmission	9.7064
WEC	WEC	0.1213	Confirmed LTF	0.1213
LGEE	LGEE	0.2507	Confirmed LTF	0.2507
CPL	CPL	1.2510	Confirmed LTF	1.2510
CBM-W2	CBM-W2	5.1789	Confirmed LTF	5.1789
NY	NY	0.1648	Confirmed LTF	0.1648
TVA	TVA	0.9716	Confirmed LTF	0.9716
O-066	O-066	2.3353	Confirmed LTF	2.3353
SIGE	SIGE	0.0810	Confirmed LTF	0.0810
CBM-S2	CBM-S2	14.5220	Confirmed LTF	14.5220
CBM-S1	CBM-S1	0.2432	Confirmed LTF	0.2432
G-007	G-007	0.3675	Confirmed LTF	0.3675
MEC	MEC	0.7182	Confirmed LTF	0.7182

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	1.2040	Confirmed LTF	1.2040
CBM-W1	CBM-W1	5.0893	Confirmed LTF	5.0893

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168928683	314562	3CLUBHSE	DVP	314563	6CLUBHSE	DVP	1	DVP_P1-2: LN 2201	single	182.64	168.73	173.81	DC	9.28

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	14.9250	80/20	14.9250
313527	AB2-043 C	0.3856	80/20	0.3856
313719	3CHESTNUT	0.5206	80/20	0.5206
314429	3JTRSVLE	0.1956	80/20	0.1956
314572	3EMPORIA	1.2299	80/20	1.2299
314582	3KELFORD	0.1483	80/20	0.1483
314589	3MURPHYS	0.0389	80/20	0.0389
314623	3WITAKRS	0.0846	80/20	0.0846
314704	3LAWRENC	0.7289	80/20	0.7289
315115	1S HAMPT1	0.4811	80/20	0.4811
315126	1ROARAP2	1.1971	80/20	1.1971
315128	1ROARAP4	1.1424	80/20	1.1424
315136	1ROSEMG1	0.9301	80/20	0.9301
315137	1ROSEMS1	0.5767	80/20	0.5767
315138	1ROSEMG2	0.4359	80/20	0.4359
315139	1GASTONA	1.4047	80/20	1.4047
315141	1GASTONB	1.4047	80/20	1.4047
315158	1KERR 1	0.2620	80/20	0.2620
315159	1KERR 2	0.7337	80/20	0.7337
315160	1KERR 3	0.7337	80/20	0.7337
315161	1KERR 4	0.7337	80/20	0.7337
315162	1KERR 5	0.7337	80/20	0.7337
315163	1KERR 6	0.7337	80/20	0.7337
315164	1KERR 7	0.7337	80/20	0.7337
315266	1PLYWOOD A	0.3917	80/20	0.3917
315606	3AA2-053SOLA	1.1660	80/20	1.1660
315607	3AA1-063SOLA	0.9971	80/20	0.9971
315608	3AA2-088SOLA	0.4761	80/20	0.4761
316020	AB2-059 C OP	0.5459	80/20	0.5459
316087	AB2-174 C	2.7447	80/20	2.7447
316096	AB2-100 C1	0.4277	80/20	0.4277
316098	AB2-100 C2	0.4277	80/20	0.4277
316103	AB2-015 C	2.5605	80/20	2.5605
316118	AC1-105 C	2.0148	80/20	2.0148
316129	AC1-054 C	5.7187	80/20	5.7187
316131	AB2-060 C	1.0922	80/20	1.0922
316140	AB2-099 C (Suspended)	0.2281	80/20	0.2281
920591	AA2-165 C	0.0699	80/20	0.0699
922922	AB1-081 C OP	0.4632	80/20	0.4632
923991	AB2-040 C O1	16.2549	80/20	16.2549
924301	AB2-077 C O1 (Suspended)	1.5130	80/20	1.5130

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924311	AB2-078 C O1 (Suspended)	1.5130	80/20	1.5130
924321	AB2-079 C O1 (Suspended)	1.5130	80/20	1.5130
925591	AC1-034 C	2.2414	80/20	2.2414
925611	AC1-036 C	0.1376	80/20	0.1376
926070	AC1-086 C	10.0123	80/20	10.0123
926201	AC1-098 C	3.1031	80/20	3.1031
926211	AC1-099 C	1.0399	80/20	1.0399
927145	AC1-208 C	5.2586	80/20	5.2586
932631	AC2-084 C	4.4236	80/20	4.4236
934331	AD1-057 C O1	3.8417	80/20	3.8417
935221	AD1-157 C	0.0980	80/20	0.0980
936265	AD2-033 C	8.3234	80/20	8.3234
936361	AD2-046 C O1	6.2368	80/20	6.2368
936485	AD2-063 C	10.6713	80/20	10.6713
938371	AE1-056 C	2.6788	80/20	2.6788
939181	AE1-148 C	6.1781	80/20	6.1781
940571	AE2-044 C	1.4680	80/20	1.4680
940661	AE2-053 O1	2.2882	80/20	2.2882
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0630	80/20	0.0630
942451	AE2-258	1.8236	80/20	1.8236
943171	AE2-346 C	0.5473	80/20	0.5473
943911	AF1-059	31.0992	80/20	31.0992
944141	AF1-082	0.9437	80/20	0.9437
946281	AF1-292 C	4.8137	80/20	4.8137
946301	AF1-294 C	1.9757	80/20	1.9757
957521	AF2-046 C	7.4161	80/20	7.4161
958211	AF2-115 C	1.1622	80/20	1.1622
958801	AF2-171 C	7.0200	80/20	7.0200
959311	AF2-222 C	9.8000	80/20	9.8000
960081	AF2-299 C	8.1131	80/20	8.1131
961091	AF2-400 C	0.1383	80/20	0.1383
961681	AG1-008 C	7.4310	80/20	7.4310
961791	AG1-021 C	0.9298	80/20	0.9298
961891	AG1-030 C	7.7220	80/20	7.7220
961931	AG1-036 C	0.5625	80/20	0.5625
961941	AG1-037 C	0.1955	80/20	0.1955
962041	AG1-048 C	5.8110	80/20	5.8110
962331	AG1-082 C	0.7819	80/20	0.7819
962341	AG1-083 C	0.7819	80/20	0.7819
962351	AG1-084 C	0.6452	80/20	0.6452
962361	AG1-085 C	0.6452	80/20	0.6452
962491	AG1-098 C O2	9.2813	80/20	9.2813
962561	AG1-105 C O2	5.1162	80/20	5.1162
962571	AG1-106 C	2.7843	80/20	2.7843
963171	AG1-166 C	0.9298	80/20	0.9298
963181	AG1-167 C	0.9298	80/20	0.9298
963191	AG1-168 C	0.9298	80/20	0.9298
963201	AG1-169 C	0.9298	80/20	0.9298
963211	AG1-170 C	0.9298	80/20	0.9298
963301	AG1-179 C	12.9655	80/20	12.9655

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963311	AG1-180	6.3171	80/20	6.3171
963321	AG1-181 C O2	10.5053	80/20	10.5053
963361	AG1-185 O2	5.0827	80/20	5.0827
963641	AG1-215 C	0.4339	80/20	0.4339
964111	AG1-272 C	1.5637	80/20	1.5637
964121	AG1-273 C	1.5637	80/20	1.5637
964131	AG1-274 C	1.5637	80/20	1.5637
964501	AG1-313 C O2	3.1550	80/20	3.1550
964791	AG1-342 C	1.9409	80/20	1.9409
964801	AG1-343 C	2.8707	80/20	2.8707
964821	AG1-345 C	0.3733	80/20	0.3733
964931	AG1-357 C O2	14.2668	80/20	14.2668
965191	AG1-384 C	1.5637	80/20	1.5637
965281	AG1-393 C	0.9298	80/20	0.9298
965291	AG1-394 C	0.9982	80/20	0.9982
965451	AG1-413 C O2	12.4174	80/20	12.4174
965591	AG1-427 C	8.6159	80/20	8.6159
965601	AG1-428 C O2	10.8238	80/20	10.8238
965721	AG1-440 C	5.2753	80/20	5.2753
965731	AG1-441 C	5.2753	80/20	5.2753
965771	AG1-445	3.0480	80/20	3.0480
965781	AG1-446	3.0480	80/20	3.0480
966621	AG1-532 C	4.3810	80/20	4.3810
966751	AG1-546 C	12.7746	80/20	12.7746
966811	AG1-552 C	1.9007	80/20	1.9007
WEC	WEC	0.1181	Confirmed LTF	0.1181
LGEE	LGEE	0.2444	Confirmed LTF	0.2444
CPL	CPL	1.2353	Confirmed LTF	1.2353
CBM-W2	CBM-W2	4.9818	Confirmed LTF	4.9818
NY	NY	0.1526	Confirmed LTF	0.1526
TVA	TVA	0.9282	Confirmed LTF	0.9282
SIGE	SIGE	0.0771	Confirmed LTF	0.0771
CBM-S2	CBM-S2	13.8539	Confirmed LTF	13.8539
CBM-S1	CBM-S1	0.2329	Confirmed LTF	0.2329
MEC	MEC	0.6960	Confirmed LTF	0.6960
LAGN	LAGN	1.1515	Confirmed LTF	1.1515
CBM-W1	CBM-W1	4.9631	Confirmed LTF	4.9631

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173795374	314563	6CLUBHSE	DVP	313725	6DRY BREAD	DVP	1	DVP_P4-2: 23872	breaker	459.0	114.96	116.11	DC	11.74

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	12.0634	50/50	12.0634
314572	3EMPORIA	1.0956	50/50	1.0956
314704	3LAWRENC	0.6554	50/50	0.6554
316087	AB2-174 C	2.3169	50/50	2.3169
316088	AB2-174 E	13.2867	50/50	13.2867
923573	AB1-173 E OP	1.8812	50/50	1.8812
923991	AB2-040 C O1	13.1384	50/50	13.1384
923992	AB2-040 E O1	10.7496	50/50	10.7496
924022	AB2-043 E O1	1.4076	Adder	1.66
924162	AB2-060 E OP	2.0990	Adder	2.47
924301	AB2-077 C O1 (Suspended)	0.9639	Adder	1.13
924302	AB2-077 E O1 (Suspended)	0.6426	Adder	0.76
924311	AB2-078 C O1 (Suspended)	0.9639	Adder	1.13
924312	AB2-078 E O1 (Suspended)	0.6426	Adder	0.76
924321	AB2-079 C O1 (Suspended)	0.9639	Adder	1.13
924322	AB2-079 E O1 (Suspended)	0.6426	Adder	0.76
936265	AD2-033 C	5.3962	Adder	6.35
936266	AD2-033 E	3.5974	Adder	4.23
936485	AD2-063 C	6.8934	Adder	8.11
936486	AD2-063 E	4.5956	Adder	5.41
940481	AE2-033 C	67.2137	50/50	67.2137
940482	AE2-033 E	45.3126	50/50	45.3126
942451	AE2-258	1.1744	Adder	1.38
942471	AE2-260 C O1	62.4559	50/50	62.4559
942472	AE2-260 E O1	88.5861	50/50	88.5861
943911	AF1-059	27.2998	50/50	27.2998
946011	AF1-266	56.2631	50/50	56.2631
946281	AF1-292 C	4.3965	50/50	4.3965
946282	AF1-292 E	2.9639	50/50	2.9639
960081	AF2-299 C	7.4099	50/50	7.4099
960082	AF2-299 E	4.9399	50/50	4.9399
962271	AG1-075 C O2	70.3856	50/50	70.3856
962272	AG1-075 E O2	42.8959	50/50	42.8959
962491	AG1-098 C O2	3.1723	Adder	7.04
962492	AG1-098 E O2	2.1149	Adder	4.69
963301	AG1-179 C	11.5854	50/50	11.5854
963311	AG1-180	5.6447	50/50	5.6447

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O2	3.6141	Adder	8.02
963361	AG1-185 O2	1.7486	Adder	3.88
964931	AG1-357 C O2	4.8827	Adder	10.84
964932	AG1-357 E O2	3.2551	Adder	7.23
965451	AG1-413 C O2	10.8453	50/50	10.8453
965452	AG1-413 E O2	7.2302	50/50	7.2302
965591	AG1-427 C	2.9475	Adder	6.54
965592	AG1-427 E	1.9691	Adder	4.37
965601	AG1-428 C O2	9.6717	50/50	9.6717
965602	AG1-428 E O2	6.4364	50/50	6.4364
966621	AG1-532 C	4.0013	50/50	4.0013
966622	AG1-532 E	2.6675	50/50	2.6675
G-007A	G-007A	0.0144	Confirmed LTF	0.0144
VFT	VFT	0.0387	Confirmed LTF	0.0387
CALDERWOOD	CALDERWOOD	0.0447	Confirmed LTF	0.0447
PRAIRIE	PRAIRIE	0.1059	Confirmed LTF	0.1059
CHEOAH	CHEOAH	0.0465	Confirmed LTF	0.0465
CBM-N	CBM-N	0.0072	Confirmed LTF	0.0072
COTTONWOOD	COTTONWOOD	0.1617	Confirmed LTF	0.1617
HAMLET	HAMLET	0.1709	Confirmed LTF	0.1709
GIBSON	GIBSON	0.0120	Confirmed LTF	0.0120
BLUEG	BLUEG	0.0312	Confirmed LTF	0.0312
TRIMBLE	TRIMBLE	0.0095	Confirmed LTF	0.0095
CATAWBA	CATAWBA	0.0623	Confirmed LTF	0.0623

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173979050	314599	6ROA VAL	DVP	314266	6NORTHAMPTON	DVP	1	DVP_P4-2: 23872	breaker	671.0	112.77	113.48	DC	10.59

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3530	50/50	9.3530
314572	3EMPORIA	0.6243	50/50	0.6243
314704	3LAWRENC	0.3601	50/50	0.3601
315126	1ROARAP2	1.5793	50/50	1.5793
315128	1ROARAP4	1.5071	50/50	1.5071
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315136	1ROSEMG1	3.8541	50/50	3.8541
315137	1ROSEMS1	2.3899	50/50	2.3899
315138	1ROSEMG2	1.8063	50/50	1.8063
315139	1GASTONA	6.0597	50/50	6.0597
315141	1GASTONB	6.0597	50/50	6.0597
315162	1KERR 5	0.6746	50/50	0.6746
315163	1KERR 6	0.6746	50/50	0.6746
315164	1KERR 7	0.6746	50/50	0.6746
315293	1DOMTR9	-3.2315	Adder	-3.8
315294	1DOMTR10	-3.9602	Adder	-4.66
315606	3AA2-053SOLA	1.2798	50/50	1.2798
315607	3AA1-063SOLA	1.1585	50/50	1.1585
316087	AB2-174 C	1.5782	50/50	1.5782
316088	AB2-174 E	9.0505	50/50	9.0505
316096	AB2-100 C1	1.6883	50/50	1.6883
316097	AB2-100 E1	5.2708	50/50	5.2708
316098	AB2-100 C2	1.6883	50/50	1.6883
316099	AB2-100 E2	5.2708	50/50	5.2708
316129	AC1-054 C	6.4467	50/50	6.4467
917342	Z2-044 E	0.2916	Adder	0.34
918492	AA1-063AE OP	3.4622	50/50	3.4622
919692	AA2-053 E OP	3.3307	50/50	3.3307
919702	AA2-057 E OP	1.7318	Adder	2.04
920592	AA2-165 E	0.2380	Adder	0.28
922923	AB1-081 E OP	1.9462	Adder	2.29
923262	AB1-132 C OP (Suspended)	29.3303	50/50	29.3303
923263	AB1-132 E OP (Suspended)	12.5701	50/50	12.5701
923573	AB1-173 E OP	1.4585	50/50	1.4585
923991	AB2-040 C O1	10.1864	50/50	10.1864
923992	AB2-040 E O1	8.3344	50/50	8.3344
924022	AB2-043 E O1	1.2716	Adder	1.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924152	AB2-059 E OP	2.7571	Adder	3.24
924162	AB2-060 E OP	1.8959	Adder	2.23
924301	AB2-077 C O1 (Suspended)	0.8937	Adder	1.05
924302	AB2-077 E O1 (Suspended)	0.5958	Adder	0.7
924311	AB2-078 C O1 (Suspended)	0.8937	Adder	1.05
924312	AB2-078 E O1 (Suspended)	0.5958	Adder	0.7
924321	AB2-079 C O1 (Suspended)	0.8937	Adder	1.05
924322	AB2-079 E O1 (Suspended)	0.5958	Adder	0.7
925591	AC1-034 C	3.4666	Adder	4.08
925592	AC1-034 E	2.6152	Adder	3.08
925612	AC1-036 E	0.3036	Adder	0.36
925785	AC1-054 E	2.9698	50/50	2.9698
926070	AC1-086 C	43.1923	50/50	43.1923
926071	AC1-086 E	19.6583	50/50	19.6583
927145	AC1-208 C	6.0602	50/50	6.0602
927146	AC1-208 E	2.6801	50/50	2.6801
934331	AD1-057 C O1	12.8853	50/50	12.8853
934332	AD1-057 E O1	6.8735	50/50	6.8735
936265	AD2-033 C	4.8406	Adder	5.69
936266	AD2-033 E	3.2270	Adder	3.8
936361	AD2-046 C O1	4.6394	Adder	5.46
936362	AD2-046 E O1	2.1334	Adder	2.51
936485	AD2-063 C	6.2072	Adder	7.3
936486	AD2-063 E	4.1381	Adder	4.87
939181	AE1-148 C	4.5510	Adder	5.35
939182	AE1-148 E	3.0340	Adder	3.57
940481	AE2-033 C	28.0982	50/50	28.0982
940482	AE2-033 E	18.9426	50/50	18.9426
940571	AE2-044 C	2.2705	Adder	2.67
940572	AE2-044 E	0.9731	Adder	1.14
940661	AE2-053 O1	1.6856	Adder	1.98
942451	AE2-258	1.0609	Adder	1.25
942471	AE2-260 C O1	26.1100	50/50	26.1100
942472	AE2-260 E O1	37.0340	50/50	37.0340
943911	AF1-059	16.2609	50/50	16.2609
944141	AF1-082	1.4596	Adder	1.72
946011	AF1-266	23.5204	50/50	23.5204
946281	AF1-292 C	2.2873	50/50	2.2873
946282	AF1-292 E	1.5420	50/50	1.5420
959311	AF2-222 C	5.6959	Adder	6.7
959312	AF2-222 E	3.8162	Adder	4.49
960081	AF2-299 C	3.8550	50/50	3.8550
960082	AF2-299 E	2.5700	50/50	2.5700
962271	AG1-075 C O2	29.4242	50/50	29.4242
962272	AG1-075 E O2	17.9323	50/50	17.9323
962491	AG1-098 C O2	2.8625	Adder	6.35
962492	AG1-098 E O2	1.9083	Adder	4.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962571	AG1-106 C	12.0114	50/50	12.0114
962572	AG1-106 E	5.4471	50/50	5.4471
963301	AG1-179 C	6.5051	50/50	6.5051
963311	AG1-180	3.1695	50/50	3.1695
963321	AG1-181 C O2	3.2371	Adder	7.19
963361	AG1-185 O2	1.5662	Adder	3.48
964111	AG1-272 C	0.4818	Adder	1.07
964112	AG1-272 E	0.1431	Adder	0.32
964121	AG1-273 C	0.4818	Adder	1.07
964122	AG1-273 E	0.1431	Adder	0.32
964131	AG1-274 C	0.4818	Adder	1.07
964132	AG1-274 E	0.1431	Adder	0.32
964493	AG1-312 BAT	11.1153	50/50	11.1153
964501	AG1-313 C O2	1.0258	Adder	2.28
964502	AG1-313 E O2	0.6839	Adder	1.52
964931	AG1-357 C O2	4.3994	Adder	9.77
964932	AG1-357 E O2	2.9329	Adder	6.51
965191	AG1-384 C	0.4818	Adder	1.07
965192	AG1-384 E	0.1431	Adder	0.32
965451	AG1-413 C O2	6.5669	50/50	6.5669
965452	AG1-413 E O2	4.3779	50/50	4.3779
965591	AG1-427 C	2.6560	Adder	5.9
965592	AG1-427 E	1.7744	Adder	3.94
965601	AG1-428 C O2	5.4306	50/50	5.4306
965602	AG1-428 E O2	3.6140	50/50	3.6140
965721	AG1-440 C	5.2898	50/50	5.2898
965722	AG1-440 E	3.5265	50/50	3.5265
965731	AG1-441 C	5.2898	50/50	5.2898
965732	AG1-441 E	3.5265	50/50	3.5265
965742	AG1-442 BAT	4.6785	50/50	4.6785
965752	AG1-443 BAT	4.6785	50/50	4.6785
965771	AG1-445	3.0563	50/50	3.0563
965781	AG1-446	3.0563	50/50	3.0563
966621	AG1-532 C	2.0817	50/50	2.0817
966622	AG1-532 E	1.3878	50/50	1.3878
966751	AG1-546 C	14.6996	50/50	14.6996
966752	AG1-546 E	7.8874	50/50	7.8874
966811	AG1-552 C	2.5075	50/50	2.5075
966812	AG1-552 E	1.0747	50/50	1.0747
966932	AG1-431A BAT	9.7064	Merchant Transmission	9.7064
WEC	WEC	0.1213	Confirmed LTF	0.1213
LGEE	LGEE	0.2507	Confirmed LTF	0.2507
CPL	CPL	1.2510	Confirmed LTF	1.2510
CBM-W2	CBM-W2	5.1789	Confirmed LTF	5.1789
NY	NY	0.1648	Confirmed LTF	0.1648
TVA	TVA	0.9716	Confirmed LTF	0.9716
O-066	O-066	2.3353	Confirmed LTF	2.3353
SIGE	SIGE	0.0810	Confirmed LTF	0.0810
CBM-S2	CBM-S2	14.5220	Confirmed LTF	14.5220
CBM-S1	CBM-S1	0.2432	Confirmed LTF	0.2432
G-007	G-007	0.3675	Confirmed LTF	0.3675
MEC	MEC	0.7182	Confirmed LTF	0.7182

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	1.2040	Confirmed LTF	1.2040
CBM-W1	CBM-W1	5.0893	Confirmed LTF	5.0893

13.5.29 Index 29

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173978925	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P4-2: 556T591	breaker	699.0	181.41	185.83	DC	30.91

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6837	50/50	0.6837
313853	3PONTONDP	1.5977	50/50	1.5977
314429	3JTRSVLE	1.0083	50/50	1.0083
314677	6BUCKING	1.4767	50/50	1.4767
314713	3PAMPLIN	4.1587	50/50	4.1587
315153	1CLOVER1	20.9801	50/50	20.9801
315154	1CLOVER2	20.7710	50/50	20.7710
315266	1PLYWOOD A	1.3910	50/50	1.3910
316118	AC1-105 C	6.9342	50/50	6.9342
316131	AB2-060 C	2.0233	50/50	2.0233
924022	AB2-043 E O1	3.8748	50/50	3.8748
924032	AB2-045 E	4.3680	50/50	4.3680
924162	AB2-060 E OP	6.0349	50/50	6.0349
924301	AB2-077 C O1 (Suspended)	2.7008	50/50	2.7008
924302	AB2-077 E O1 (Suspended)	1.8006	50/50	1.8006
924311	AB2-078 C O1 (Suspended)	2.7008	50/50	2.7008
924312	AB2-078 E O1 (Suspended)	1.8006	50/50	1.8006
924321	AB2-079 C O1 (Suspended)	2.7008	50/50	2.7008
924322	AB2-079 E O1 (Suspended)	1.8006	50/50	1.8006
925611	AC1-036 C	0.4355	50/50	0.4355
925612	AC1-036 E	1.6530	50/50	1.6530
925997	AC1-075 E	2.4211	Adder	2.85
926024	AC1-080 E	0.8033	Adder	0.95
926274	AC1-105 E	3.4068	50/50	3.4068
927261	AC1-222 C	4.1213	50/50	4.1213
927262	AC1-222 E	3.9233	50/50	3.9233
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.4548	50/50	1.4548
932512	AC2-071 E (Withdrawn : 01/22/2021)	4.6453	50/50	4.6453
934311	AD1-055 C	2.8615	50/50	2.8615
934312	AD1-055 E	0.7379	50/50	0.7379
934615	AD1-087 C	13.1235	50/50	13.1235
934616	AD1-087 E	5.6158	50/50	5.6158
934625	AD1-088 C	29.0791	50/50	29.0791
934626	AD1-088 E	7.6159	50/50	7.6159

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935171	AD1-152 C O1	14.4149	50/50	14.4149
935172	AD1-152 E O1	9.6099	50/50	9.6099
935221	AD1-157 C	0.6068	50/50	0.6068
935222	AD1-157 E	2.5639	50/50	2.5639
936265	AD2-033 C	23.6597	50/50	23.6597
936266	AD2-033 E	15.7732	50/50	15.7732
936361	AD2-046 C O1	9.3566	50/50	9.3566
936362	AD2-046 E O1	4.3026	50/50	4.3026
936485	AD2-063 C	23.8140	50/50	23.8140
936486	AD2-063 E	15.8760	50/50	15.8760
937481	AD2-202 C O1	3.8440	50/50	3.8440
937482	AD2-202 E O1	2.1622	50/50	2.1622
938371	AE1-056 C	16.5800	50/50	16.5800
938372	AE1-056 E	9.0592	50/50	9.0592
939181	AE1-148 C	9.3474	50/50	9.3474
939182	AE1-148 E	6.2316	50/50	6.2316
940661	AE2-053 O1	3.4620	50/50	3.4620
941791	AE2-182 C	4.7243	50/50	4.7243
941792	AE2-182 E	2.1993	50/50	2.1993
942451	AE2-258	3.2328	50/50	3.2328
942461	AE2-259 C O1	30.1896	50/50	30.1896
942462	AE2-259 E O1	20.1264	50/50	20.1264
943901	AF1-058 C	2.3234	50/50	2.3234
943902	AF1-058 E	1.5490	50/50	1.5490
943911	AF1-059	13.2340	Adder	15.57
945811	AF1-246 C O1	12.6500	50/50	12.6500
945812	AF1-246 E O1	17.4690	50/50	17.4690
946293	AF1-293 BAT	11.1823	Merchant Transmission	11.1823
946301	AF1-294 C	10.1855	50/50	10.1855
946302	AF1-294 E	6.7903	50/50	6.7903
957481	AF2-042 C	90.3570	50/50	90.3570
957482	AF2-042 E	60.2380	50/50	60.2380
958211	AF2-115 C	5.9915	50/50	5.9915
958212	AF2-115 E	3.9943	50/50	3.9943
958801	AF2-171 C	35.8092	50/50	35.8092
958802	AF2-171 E	23.8728	50/50	23.8728
959311	AF2-222 C	33.2170	50/50	33.2170
959312	AF2-222 E	22.2554	50/50	22.2554
959751	AF2-266	15.0600	50/50	15.0600
960061	AF2-297 C	9.2938	50/50	9.2938
960062	AF2-297 E	6.1958	50/50	6.1958
961063	AF2-397 BAT	7.8364	Merchant Transmission	7.8364
961791	AG1-021 C	4.7932	50/50	4.7932
961792	AG1-021 E	3.1954	50/50	3.1954
961891	AG1-030 C	33.4863	50/50	33.4863
961892	AG1-030 E	22.3242	50/50	22.3242
962041	AG1-048 C	29.9573	50/50	29.9573
962042	AG1-048 E	19.9715	50/50	19.9715
962441	AG1-093 C O2	23.3634	50/50	23.3634
962442	AG1-093 E O2	7.1106	50/50	7.1106
962491	AG1-098 C O2	18.5460	50/50	18.5460
962492	AG1-098 E O2	12.3640	50/50	12.3640

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962561	AG1-105 C O2	12.7050	50/50	12.7050
962562	AG1-105 E O2	8.4700	50/50	8.4700
963171	AG1-166 C	4.7932	50/50	4.7932
963172	AG1-166 E	3.1954	50/50	3.1954
963181	AG1-167 C	4.7932	50/50	4.7932
963182	AG1-167 E	3.1954	50/50	3.1954
963191	AG1-168 C	4.7932	50/50	4.7932
963192	AG1-168 E	3.1954	50/50	3.1954
963201	AG1-169 C	4.7932	50/50	4.7932
963202	AG1-169 E	3.1954	50/50	3.1954
963211	AG1-170 C	4.7932	50/50	4.7932
963212	AG1-170 E	3.1954	50/50	3.1954
963271	AG1-176 C O2	46.3462	50/50	46.3462
963272	AG1-176 E O2	30.8975	50/50	30.8975
963301	AG1-179 C	1.9529	Adder	4.33
963311	AG1-180	0.9515	Adder	2.11
963321	AG1-181 C O2	31.6159	50/50	31.6159
963361	AG1-185 O2	15.2966	50/50	15.2966
963641	AG1-215 C	2.2368	50/50	2.2368
963642	AG1-215 E	3.3552	50/50	3.3552
964111	AG1-272 C	4.9495	50/50	4.9495
964112	AG1-272 E	1.4701	50/50	1.4701
964121	AG1-273 C	4.9495	50/50	4.9495
964122	AG1-273 E	1.4701	50/50	1.4701
964131	AG1-274 C	4.9495	50/50	4.9495
964132	AG1-274 E	1.4701	50/50	1.4701
964241	AG1-285 C O2	22.5892	50/50	22.5892
964242	AG1-285 E O2	15.0595	50/50	15.0595
964261	AG1-287 C	1.7426	50/50	1.7426
964262	AG1-287 E	1.1617	50/50	1.1617
964471	AG1-310 C	2.3371	50/50	2.3371
964472	AG1-310 E	1.1511	50/50	1.1511
964791	AG1-342 C	5.2527	50/50	5.2527
964792	AG1-342 E	4.1271	50/50	4.1271
964821	AG1-345 C	1.9128	50/50	1.9128
964822	AG1-345 E	1.2752	50/50	1.2752
964841	AG1-347 C	23.7070	50/50	23.7070
964842	AG1-347 E	18.6270	50/50	18.6270
964931	AG1-357 C O2	31.5924	50/50	31.5924
964932	AG1-357 E O2	21.0616	50/50	21.0616
965191	AG1-384 C	4.9495	50/50	4.9495
965192	AG1-384 E	1.4701	50/50	1.4701
965281	AG1-393 C	4.7932	50/50	4.7932
965282	AG1-393 E	3.1954	50/50	3.1954
965451	AG1-413 C O2	6.8021	50/50	6.8021
965452	AG1-413 E O2	4.5347	50/50	4.5347
965591	AG1-427 C	18.2059	50/50	18.2059
965592	AG1-427 E	12.1629	50/50	12.1629
965601	AG1-428 C O2	1.6304	Adder	3.62
965602	AG1-428 E O2	1.0850	Adder	2.41
965641	AG1-432 C O2	60.3792	50/50	60.3792
965642	AG1-432 E O2	40.2528	50/50	40.2528

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	2.9125	Adder	6.47
965722	AG1-440 E	1.9417	Adder	4.31
965731	AG1-441 C	2.9125	Adder	6.47
965732	AG1-441 E	1.9417	Adder	4.31
965771	AG1-445	1.6828	Adder	3.74
965781	AG1-446	1.6828	Adder	3.74
965831	AG1-451	10.0632	50/50	10.0632
966361	AG1-505 C	27.1053	50/50	27.1053
966362	AG1-505 E	18.0702	50/50	18.0702
966371	AG1-506 C	27.1053	50/50	27.1053
966372	AG1-506 E	18.0702	50/50	18.0702
966792	AG1-550 BAT	2.7931	Merchant Transmission	2.7931
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	7.8611	50/50	7.8611
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	5.2407	50/50	5.2407
WEC	WEC	0.3018	Confirmed LTF	0.3018
LGEE	LGEE	0.6214	Confirmed LTF	0.6214
CPLE	CPLE	3.7073	Confirmed LTF	3.7073
CBM-W2	CBM-W2	13.8074	Confirmed LTF	13.8074
NY	NY	0.4131	Confirmed LTF	0.4131
TVA	TVA	2.6418	Confirmed LTF	2.6418
O-066	O-066	5.7070	Confirmed LTF	5.7070
SIGE	SIGE	0.2010	Confirmed LTF	0.2010
CBM-S2	CBM-S2	42.5848	Confirmed LTF	42.5848
CBM-S1	CBM-S1	0.6551	Confirmed LTF	0.6551
G-007	G-007	0.8967	Confirmed LTF	0.8967
MEC	MEC	1.8432	Confirmed LTF	1.8432
LAGN	LAGN	3.2813	Confirmed LTF	3.2813
AA2-074	AA2-074	2.4484	LTF	2.4484
CBM-W1	CBM-W1	12.5619	Confirmed LTF	12.5619

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173978913	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	2	DVP_P4-6: CHASE C T342	breaker	208.7	295.3	328.46	DC	69.2

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	2.2145	50/50	2.2145
314429	3JTRSVLE	1.3975	50/50	1.3975
314713	3PAMPLIN	5.3879	50/50	5.3879
316131	AB2-060 C	4.7516	50/50	4.7516
924162	AB2-060 E OP	14.1729	50/50	14.1729
925611	AC1-036 C	0.7512	50/50	0.7512
925612	AC1-036 E	2.8512	50/50	2.8512
935221	AD1-157 C	0.7861	50/50	0.7861
935222	AD1-157 E	3.3218	50/50	3.3218
936265	AD2-033 C	43.1831	50/50	43.1831
936266	AD2-033 E	28.7888	50/50	28.7888
936485	AD2-063 C	49.8267	50/50	49.8267
936486	AD2-063 E	33.2178	50/50	33.2178
938371	AE1-056 C	21.4808	50/50	21.4808
938372	AE1-056 E	11.7370	50/50	11.7370
942461	AE2-259 C O1	33.2178	50/50	33.2178
942462	AE2-259 E O1	22.1452	50/50	22.1452
946301	AF1-294 C	14.1176	50/50	14.1176
946302	AF1-294 E	9.4117	50/50	9.4117
958211	AF2-115 C	8.3045	50/50	8.3045
958212	AF2-115 E	5.5363	50/50	5.5363
958801	AF2-171 C	49.8267	50/50	49.8267
958802	AF2-171 E	33.2178	50/50	33.2178
959311	AF2-222 C	55.3630	50/50	55.3630
959312	AF2-222 E	37.0932	50/50	37.0932
961791	AG1-021 C	6.6436	50/50	6.6436
961792	AG1-021 E	4.4290	50/50	4.4290
961891	AG1-030 C	49.8267	50/50	49.8267
961892	AG1-030 E	33.2178	50/50	33.2178
962041	AG1-048 C	41.5222	50/50	41.5222
962042	AG1-048 E	27.6815	50/50	27.6815
962491	AG1-098 C O2	41.5222	50/50	41.5222
962492	AG1-098 E O2	27.6815	50/50	27.6815
963171	AG1-166 C	6.6436	50/50	6.6436
963172	AG1-166 E	4.4290	50/50	4.4290
963181	AG1-167 C	6.6436	50/50	6.6436
963182	AG1-167 E	4.4290	50/50	4.4290
963191	AG1-168 C	6.6436	50/50	6.6436
963192	AG1-168 E	4.4290	50/50	4.4290
963201	AG1-169 C	6.6436	50/50	6.6436
963202	AG1-169 E	4.4290	50/50	4.4290

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	6.6436	50/50	6.6436
963212	AG1-170 E	4.4290	50/50	4.4290
963321	AG1-181 C O2	55.9665	50/50	55.9665
963361	AG1-185 O2	27.0780	50/50	27.0780
963641	AG1-215 C	3.1003	50/50	3.1003
963642	AG1-215 E	4.6505	50/50	4.6505
964111	AG1-272 C	8.5370	50/50	8.5370
964112	AG1-272 E	2.5356	50/50	2.5356
964121	AG1-273 C	8.5370	50/50	8.5370
964122	AG1-273 E	2.5356	50/50	2.5356
964131	AG1-274 C	8.5370	50/50	8.5370
964132	AG1-274 E	2.5356	50/50	2.5356
964821	AG1-345 C	2.6574	50/50	2.6574
964822	AG1-345 E	1.7716	50/50	1.7716
964931	AG1-357 C O2	66.4356	50/50	66.4356
964932	AG1-357 E O2	44.2904	50/50	44.2904
965191	AG1-384 C	8.5370	50/50	8.5370
965192	AG1-384 E	2.5356	50/50	2.5356
965281	AG1-393 C	6.6436	50/50	6.6436
965282	AG1-393 E	4.4290	50/50	4.4290
965591	AG1-427 C	39.3631	50/50	39.3631
965592	AG1-427 E	26.2974	50/50	26.2974
965641	AG1-432 C O2	66.4356	50/50	66.4356
965642	AG1-432 E O2	44.2904	50/50	44.2904
965831	AG1-451	11.0726	50/50	11.0726
CALDERWOOD	CALDERWOOD	0.0129	Confirmed LTF	0.0129
NY	NY	0.0144	Confirmed LTF	0.0144
PRAIRIE	PRAIRIE	0.0672	Confirmed LTF	0.0672
O-066	O-066	0.1750	Confirmed LTF	0.1750
CHEOAH	CHEOAH	0.0130	Confirmed LTF	0.0130
COTTONWOOD	COTTONWOOD	0.0546	Confirmed LTF	0.0546
G-007	G-007	0.0273	Confirmed LTF	0.0273
HAMLET	HAMLET	0.0150	Confirmed LTF	0.0150
GIBSON	GIBSON	0.0142	Confirmed LTF	0.0142
BLUEG	BLUEG	0.0451	Confirmed LTF	0.0451
TRIMBLE	TRIMBLE	0.0145	Confirmed LTF	0.0145
CATAWBA	CATAWBA	0.0091	Confirmed LTF	0.0091

13.5.31 Index 31

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173978914	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	1	DVP_P4-6: CHASE C T342	breaker	221.4	224.19	249.37	DC	55.74

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	1.7836	50/50	1.7836
314429	3JTRSVLE	1.1256	50/50	1.1256
314713	3PAMPLIN	4.3395	50/50	4.3395
316131	AB2-060 C	3.8270	50/50	3.8270
924162	AB2-060 E OP	11.4150	50/50	11.4150
925611	AC1-036 C	0.6050	50/50	0.6050
925612	AC1-036 E	2.2964	50/50	2.2964
935221	AD1-157 C	0.6331	50/50	0.6331
935222	AD1-157 E	2.6754	50/50	2.6754
936265	AD2-033 C	34.7802	50/50	34.7802
936266	AD2-033 E	23.1868	50/50	23.1868
936485	AD2-063 C	40.1310	50/50	40.1310
936486	AD2-063 E	26.7540	50/50	26.7540
938371	AE1-056 C	17.3009	50/50	17.3009
938372	AE1-056 E	9.4531	50/50	9.4531
942461	AE2-259 C O1	26.7540	50/50	26.7540
942462	AE2-259 E O1	17.8360	50/50	17.8360
946301	AF1-294 C	11.3704	50/50	11.3704
946302	AF1-294 E	7.5803	50/50	7.5803
958211	AF2-115 C	6.6885	50/50	6.6885
958212	AF2-115 E	4.4590	50/50	4.4590
958801	AF2-171 C	40.1310	50/50	40.1310
958802	AF2-171 E	26.7540	50/50	26.7540
959311	AF2-222 C	44.5900	50/50	44.5900
959312	AF2-222 E	29.8753	50/50	29.8753
961791	AG1-021 C	5.3508	50/50	5.3508
961792	AG1-021 E	3.5672	50/50	3.5672
961891	AG1-030 C	40.1310	50/50	40.1310
961892	AG1-030 E	26.7540	50/50	26.7540
962041	AG1-048 C	33.4425	50/50	33.4425
962042	AG1-048 E	22.2950	50/50	22.2950
962491	AG1-098 C O2	33.4425	50/50	33.4425
962492	AG1-098 E O2	22.2950	50/50	22.2950
963171	AG1-166 C	5.3508	50/50	5.3508
963172	AG1-166 E	3.5672	50/50	3.5672
963181	AG1-167 C	5.3508	50/50	5.3508
963182	AG1-167 E	3.5672	50/50	3.5672
963191	AG1-168 C	5.3508	50/50	5.3508
963192	AG1-168 E	3.5672	50/50	3.5672
963201	AG1-169 C	5.3508	50/50	5.3508
963202	AG1-169 E	3.5672	50/50	3.5672

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	5.3508	50/50	5.3508
963212	AG1-170 E	3.5672	50/50	3.5672
963321	AG1-181 C O2	45.0760	50/50	45.0760
963361	AG1-185 O2	21.8090	50/50	21.8090
963641	AG1-215 C	2.4970	50/50	2.4970
963642	AG1-215 E	3.7456	50/50	3.7456
964111	AG1-272 C	6.8758	50/50	6.8758
964112	AG1-272 E	2.0422	50/50	2.0422
964121	AG1-273 C	6.8758	50/50	6.8758
964122	AG1-273 E	2.0422	50/50	2.0422
964131	AG1-274 C	6.8758	50/50	6.8758
964132	AG1-274 E	2.0422	50/50	2.0422
964821	AG1-345 C	2.1403	50/50	2.1403
964822	AG1-345 E	1.4269	50/50	1.4269
964931	AG1-357 C O2	53.5080	50/50	53.5080
964932	AG1-357 E O2	35.6720	50/50	35.6720
965191	AG1-384 C	6.8758	50/50	6.8758
965192	AG1-384 E	2.0422	50/50	2.0422
965281	AG1-393 C	5.3508	50/50	5.3508
965282	AG1-393 E	3.5672	50/50	3.5672
965591	AG1-427 C	31.7035	50/50	31.7035
965592	AG1-427 E	21.1802	50/50	21.1802
965641	AG1-432 C O2	53.5080	50/50	53.5080
965642	AG1-432 E O2	35.6720	50/50	35.6720
965831	AG1-451	8.9180	50/50	8.9180
CALDERWOOD	CALDERWOOD	0.0104	Confirmed LTF	0.0104
NY	NY	0.0116	Confirmed LTF	0.0116
PRAIRIE	PRAIRIE	0.0542	Confirmed LTF	0.0542
O-066	O-066	0.1413	Confirmed LTF	0.1413
CHEOAH	CHEOAH	0.0105	Confirmed LTF	0.0105
COTTONWOOD	COTTONWOOD	0.0441	Confirmed LTF	0.0441
G-007	G-007	0.0220	Confirmed LTF	0.0220
HAMLET	HAMLET	0.0121	Confirmed LTF	0.0121
GIBSON	GIBSON	0.0115	Confirmed LTF	0.0115
BLUEG	BLUEG	0.0365	Confirmed LTF	0.0365
TRIMBLE	TRIMBLE	0.0117	Confirmed LTF	0.0117
CATAWBA	CATAWBA	0.0073	Confirmed LTF	0.0073

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173978924	314692	6FARMVIL	DVP	966860	AG1-557 TAP	DVP	1	DVP_P4-2: 556T591	breaker	684.0	184.46	188.98	DC	30.93

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6841	50/50	0.6841
313853	3PONTONDP	1.5983	50/50	1.5983
314429	3JTRSVLE	1.0086	50/50	1.0086
314713	3PAMPLIN	4.1600	50/50	4.1600
315153	1CLOVER1	20.9906	50/50	20.9906
315154	1CLOVER2	20.7814	50/50	20.7814
315266	1PLYWOOD A	1.3921	50/50	1.3921
316118	AC1-105 C	6.9390	50/50	6.9390
316129	AC1-054 C	4.4267	Adder	5.21
316131	AB2-060 C	2.0245	50/50	2.0245
924022	AB2-043 E O1	3.8772	50/50	3.8772
924162	AB2-060 E OP	6.0385	50/50	6.0385
924301	AB2-077 C O1 (Suspended)	2.7025	50/50	2.7025
924302	AB2-077 E O1 (Suspended)	1.8017	50/50	1.8017
924311	AB2-078 C O1 (Suspended)	2.7025	50/50	2.7025
924312	AB2-078 E O1 (Suspended)	1.8017	50/50	1.8017
924321	AB2-079 C O1 (Suspended)	2.7025	50/50	2.7025
924322	AB2-079 E O1 (Suspended)	1.8017	50/50	1.8017
925611	AC1-036 C	0.4357	50/50	0.4357
925612	AC1-036 E	1.6538	50/50	1.6538
925785	AC1-054 E	2.0392	Adder	2.4
925997	AC1-075 E	2.4237	Adder	2.85
926024	AC1-080 E	0.8042	Adder	0.95
926274	AC1-105 E	3.4092	50/50	3.4092
927251	AC1-221 C	1.4351	Adder	1.69
927252	AC1-221 E	1.4351	Adder	1.69
927261	AC1-222 C	4.1245	50/50	4.1245
927262	AC1-222 E	3.9264	50/50	3.9264
932761	AC2-100 C	3.3027	Adder	3.89
932762	AC2-100 E	1.6120	Adder	1.9
934311	AD1-055 C	2.8637	50/50	2.8637
934312	AD1-055 E	0.7385	50/50	0.7385
934341	AD1-058 C	3.5976	Adder	4.23
934342	AD1-058 E	0.9141	Adder	1.08
934615	AD1-087 C	13.1301	50/50	13.1301
934616	AD1-087 E	5.6186	50/50	5.6186

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934625	AD1-088 C	29.0891	50/50	29.0891
934626	AD1-088 E	7.6186	50/50	7.6186
934991	AD1-131 C	1.1795	Adder	1.39
934992	AD1-131 E	0.7864	Adder	0.93
935171	AD1-152 C O1	14.4221	50/50	14.4221
935172	AD1-152 E O1	9.6147	50/50	9.6147
935221	AD1-157 C	0.6070	50/50	0.6070
935222	AD1-157 E	2.5648	50/50	2.5648
936265	AD2-033 C	23.6707	50/50	23.6707
936266	AD2-033 E	15.7804	50/50	15.7804
936361	AD2-046 C O1	9.3642	50/50	9.3642
936362	AD2-046 E O1	4.3062	50/50	4.3062
936485	AD2-063 C	23.8266	50/50	23.8266
936486	AD2-063 E	15.8844	50/50	15.8844
937481	AD2-202 C O1	3.8459	50/50	3.8459
937482	AD2-202 E O1	2.1633	50/50	2.1633
938371	AE1-056 C	16.5854	50/50	16.5854
938372	AE1-056 E	9.0622	50/50	9.0622
939181	AE1-148 C	9.3550	50/50	9.3550
939182	AE1-148 E	6.2366	50/50	6.2366
940661	AE2-053 O1	3.4648	50/50	3.4648
941791	AE2-182 C	4.7260	50/50	4.7260
941792	AE2-182 E	2.2000	50/50	2.2000
942451	AE2-258	3.2348	50/50	3.2348
942461	AE2-259 C O1	30.1980	50/50	30.1980
942462	AE2-259 E O1	20.1320	50/50	20.1320
943901	AF1-058 C	2.3251	50/50	2.3251
943902	AF1-058 E	1.5501	50/50	1.5501
943911	AF1-059	13.2458	Adder	15.58
945811	AF1-246 C O1	12.6559	50/50	12.6559
945812	AF1-246 E O1	17.4771	50/50	17.4771
946293	AF1-293 BAT	11.1710	Merchant Transmission	11.1710
946301	AF1-294 C	10.1890	50/50	10.1890
946302	AF1-294 E	6.7927	50/50	6.7927
957481	AF2-042 C	90.3990	50/50	90.3990
957482	AF2-042 E	60.2660	50/50	60.2660
958211	AF2-115 C	5.9936	50/50	5.9936
958212	AF2-115 E	3.9957	50/50	3.9957
958801	AF2-171 C	35.8218	50/50	35.8218
958802	AF2-171 E	23.8812	50/50	23.8812
959311	AF2-222 C	33.2310	50/50	33.2310
959312	AF2-222 E	22.2648	50/50	22.2648
959751	AF2-266	15.0675	50/50	15.0675
960061	AF2-297 C	9.3005	50/50	9.3005
960062	AF2-297 E	6.2003	50/50	6.2003
961063	AF2-397 BAT	7.8291	Merchant Transmission	7.8291
961791	AG1-021 C	4.7948	50/50	4.7948
961792	AG1-021 E	3.1966	50/50	3.1966
961891	AG1-030 C	33.4989	50/50	33.4989
961892	AG1-030 E	22.3326	50/50	22.3326
962041	AG1-048 C	29.9677	50/50	29.9677
962042	AG1-048 E	19.9785	50/50	19.9785

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962441	AG1-093 C O2	23.3763	50/50	23.3763
962442	AG1-093 E O2	7.1145	50/50	7.1145
962491	AG1-098 C O2	18.5565	50/50	18.5565
962492	AG1-098 E O2	12.3710	50/50	12.3710
962561	AG1-105 C O2	12.7134	50/50	12.7134
962562	AG1-105 E O2	8.4756	50/50	8.4756
963171	AG1-166 C	4.7948	50/50	4.7948
963172	AG1-166 E	3.1966	50/50	3.1966
963181	AG1-167 C	4.7948	50/50	4.7948
963182	AG1-167 E	3.1966	50/50	3.1966
963191	AG1-168 C	4.7948	50/50	4.7948
963192	AG1-168 E	3.1966	50/50	3.1966
963201	AG1-169 C	4.7948	50/50	4.7948
963202	AG1-169 E	3.1966	50/50	3.1966
963211	AG1-170 C	4.7948	50/50	4.7948
963212	AG1-170 E	3.1966	50/50	3.1966
963271	AG1-176 C O2	46.3597	50/50	46.3597
963272	AG1-176 E O2	30.9064	50/50	30.9064
963301	AG1-179 C	1.9551	Adder	4.34
963311	AG1-180	0.9526	Adder	2.11
963321	AG1-181 C O2	31.6301	50/50	31.6301
963361	AG1-185 O2	15.3034	50/50	15.3034
963641	AG1-215 C	2.2376	50/50	2.2376
963642	AG1-215 E	3.3564	50/50	3.3564
964111	AG1-272 C	4.9517	50/50	4.9517
964112	AG1-272 E	1.4707	50/50	1.4707
964121	AG1-273 C	4.9517	50/50	4.9517
964122	AG1-273 E	1.4707	50/50	1.4707
964131	AG1-274 C	4.9517	50/50	4.9517
964132	AG1-274 E	1.4707	50/50	1.4707
964241	AG1-285 C O2	22.5998	50/50	22.5998
964242	AG1-285 E O2	15.0665	50/50	15.0665
964261	AG1-287 C	1.7438	50/50	1.7438
964262	AG1-287 E	1.1626	50/50	1.1626
964471	AG1-310 C	2.3390	50/50	2.3390
964472	AG1-310 E	1.1520	50/50	1.1520
964791	AG1-342 C	5.2562	50/50	5.2562
964792	AG1-342 E	4.1299	50/50	4.1299
964821	AG1-345 C	1.9134	50/50	1.9134
964822	AG1-345 E	1.2756	50/50	1.2756
964841	AG1-347 C	23.7149	50/50	23.7149
964842	AG1-347 E	18.6331	50/50	18.6331
964931	AG1-357 C O2	31.6092	50/50	31.6092
964932	AG1-357 E O2	21.0728	50/50	21.0728
965191	AG1-384 C	4.9517	50/50	4.9517
965192	AG1-384 E	1.4707	50/50	1.4707
965281	AG1-393 C	4.7948	50/50	4.7948
965282	AG1-393 E	3.1966	50/50	3.1966
965451	AG1-413 C O2	6.8079	50/50	6.8079
965452	AG1-413 E O2	4.5386	50/50	4.5386
965582	AG1-426 BAT	1.1885	Merchant Transmission	1.1885
965591	AG1-427 C	18.2158	50/50	18.2158

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965592	AG1-427 E	12.1695	50/50	12.1695
965601	AG1-428 C O2	1.6321	Adder	3.62
965602	AG1-428 E O2	1.0862	Adder	2.41
965641	AG1-432 C O2	60.3960	50/50	60.3960
965642	AG1-432 E O2	40.2640	50/50	40.2640
965721	AG1-440 C	2.9154	Adder	6.47
965722	AG1-440 E	1.9436	Adder	4.31
965731	AG1-441 C	2.9154	Adder	6.47
965732	AG1-441 E	1.9436	Adder	4.31
965771	AG1-445	1.6844	Adder	3.74
965781	AG1-446	1.6844	Adder	3.74
965831	AG1-451	10.0660	50/50	10.0660
966361	AG1-505 C	27.1179	50/50	27.1179
966362	AG1-505 E	18.0786	50/50	18.0786
966371	AG1-506 C	27.1179	50/50	27.1179
966372	AG1-506 E	18.0786	50/50	18.0786
966751	AG1-546 C	4.9009	Adder	10.88
966752	AG1-546 E	2.6297	Adder	5.84
966792	AG1-550 BAT	2.7905	Merchant Transmission	2.7905
WEC	WEC	0.3062	Confirmed LTF	0.3062
LGEE	LGEE	0.6302	Confirmed LTF	0.6302
CPL	CPL	3.7169	Confirmed LTF	3.7169
CBM-W2	CBM-W2	13.9328	Confirmed LTF	13.9328
NY	NY	0.4053	Confirmed LTF	0.4053
TVA	TVA	2.6614	Confirmed LTF	2.6614
O-066	O-066	5.6128	Confirmed LTF	5.6128
SIGE	SIGE	0.2010	Confirmed LTF	0.2010
CBM-S2	CBM-S2	42.7309	Confirmed LTF	42.7309
CBM-S1	CBM-S1	0.6604	Confirmed LTF	0.6604
G-007	G-007	0.8820	Confirmed LTF	0.8820
MEC	MEC	1.8655	Confirmed LTF	1.8655
LAGN	LAGN	3.3058	Confirmed LTF	3.3058
AA2-074	AA2-074	2.4547	LTF	2.4547
CBM-W1	CBM-W1	12.7582	Confirmed LTF	12.7582

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174379405	314694	3GRIT	DVP	314712	3OTTER R	DVP	1	DVP_P4-2: 556T591	breaker	350.0	110.1	111.34	DC	9.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.2132	Adder	0.25
314713	3PAMPLIN	0.4970	Adder	0.58
315266	1PLYWOOD A	1.0286	50/50	1.0286
316118	AC1-105 C	4.9180	50/50	4.9180
316123	AC1-075 C	2.6602	50/50	2.6602
924022	AB2-043 E O1	1.1292	Adder	1.33
924162	AB2-060 E OP	1.6982	Adder	2.0
924301	AB2-077 C O1 (Suspended)	0.8161	Adder	0.96
924302	AB2-077 E O1 (Suspended)	0.5441	Adder	0.64
924311	AB2-078 C O1 (Suspended)	0.8161	Adder	0.96
924312	AB2-078 E O1 (Suspended)	0.5441	Adder	0.64
924321	AB2-079 C O1 (Suspended)	0.8161	Adder	0.96
924322	AB2-079 E O1 (Suspended)	0.5441	Adder	0.64
925612	AC1-036 E	0.3066	Adder	0.36
925661	AC1-042 C	-2.7373	Adder	-3.22
925997	AC1-075 E	9.5532	50/50	9.5532
926023	AC1-080 C	0.8890	50/50	0.8890
926024	AC1-080 E	3.1697	50/50	3.1697
926274	AC1-105 E	2.4162	50/50	2.4162
927261	AC1-222 C	5.0538	50/50	5.0538
927262	AC1-222 E	4.8110	50/50	4.8110
934311	AD1-055 C	3.5090	50/50	3.5090
934312	AD1-055 E	0.9048	50/50	0.9048
934615	AD1-087 C	3.0206	Adder	3.55
934616	AD1-087 E	1.2926	Adder	1.52
934625	AD1-088 C	4.1166	Adder	4.84
934626	AD1-088 E	1.0782	Adder	1.27
935171	AD1-152 C O1	3.3179	Adder	3.9
935172	AD1-152 E O1	2.2119	Adder	2.6
935222	AD1-157 E	0.3064	Adder	0.36
936265	AD2-033 C	4.7544	Adder	5.59
936266	AD2-033 E	3.1696	Adder	3.73
936361	AD2-046 C O1	3.0375	Adder	3.57
936362	AD2-046 E O1	1.3968	Adder	1.64
936485	AD2-063 C	5.7605	Adder	6.78
936486	AD2-063 E	3.8403	Adder	4.52

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
937481	AD2-202 C O1	0.8848	Adder	1.04
937482	AD2-202 E O1	0.4977	Adder	0.59
938371	AE1-056 C	1.9814	Adder	2.33
938372	AE1-056 E	1.0826	Adder	1.27
939181	AE1-148 C	3.0184	Adder	3.55
939182	AE1-148 E	2.0123	Adder	2.37
939943	AE1-230 BAT	1.6142	50/50	1.6142
940661	AE2-053 O1	1.1179	Adder	1.32
941791	AE2-182 C	0.6688	Adder	0.79
941792	AE2-182 E	0.3113	Adder	0.37
942451	AE2-258	0.9421	Adder	1.11
942751	AE2-291 C	32.7726	50/50	32.7726
942752	AE2-291 E	21.8484	50/50	21.8484
942761	AE2-292 C O1	40.8051	50/50	40.8051
942762	AE2-292 E O1	27.2034	50/50	27.2034
943901	AF1-058 C	1.9100	50/50	1.9100
943902	AF1-058 E	1.2734	50/50	1.2734
945811	AF1-246 C O1	2.8992	Adder	3.41
945812	AF1-246 E O1	4.0037	Adder	4.71
946301	AF1-294 C	1.3590	Adder	1.6
946302	AF1-294 E	0.9060	Adder	1.07
957481	AF2-042 C	20.7086	Adder	24.36
957482	AF2-042 E	13.8057	Adder	16.24
958211	AF2-115 C	0.7994	Adder	0.94
958212	AF2-115 E	0.5330	Adder	0.63
958801	AF2-171 C	4.8065	Adder	5.65
958802	AF2-171 E	3.2043	Adder	3.77
959311	AF2-222 C	5.8633	Adder	6.9
959312	AF2-222 E	3.9284	Adder	4.62
959751	AF2-266	3.4514	Adder	4.06
960061	AF2-297 C	7.6402	50/50	7.6402
960062	AF2-297 E	5.0934	50/50	5.0934
961122	AF2-403 BAT	4.0356	50/50	4.0356
961131	AF2-404 BAT	4.0356	50/50	4.0356
961791	AG1-021 C	0.3390	Adder	0.75
961792	AG1-021 E	0.2260	Adder	0.5
961891	AG1-030 C	2.6464	Adder	5.87
961892	AG1-030 E	1.7642	Adder	3.92
962041	AG1-048 C	2.1185	Adder	4.7
962042	AG1-048 E	1.4123	Adder	3.13
962441	AG1-093 C O2	3.6124	Adder	8.02
962442	AG1-093 E O2	1.0994	Adder	2.44
962491	AG1-098 C O2	2.6003	Adder	5.77
962492	AG1-098 E O2	1.7335	Adder	3.85
962561	AG1-105 C O2	7.0980	50/50	7.0980
962562	AG1-105 E O2	4.7320	50/50	4.7320
963171	AG1-166 C	0.3390	Adder	0.75
963172	AG1-166 E	0.2260	Adder	0.5
963181	AG1-167 C	0.3390	Adder	0.75
963182	AG1-167 E	0.2260	Adder	0.5
963191	AG1-168 C	0.3390	Adder	0.75
963192	AG1-168 E	0.2260	Adder	0.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963201	AG1-169 C	0.3390	Adder	0.75
963202	AG1-169 E	0.2260	Adder	0.5
963211	AG1-170 C	0.3390	Adder	0.75
963212	AG1-170 E	0.2260	Adder	0.5
963321	AG1-181 C O2	3.2243	Adder	7.16
963361	AG1-185 O2	1.5600	Adder	3.46
963603	AG1-209 BAT	1.4125	50/50	1.4125
963641	AG1-215 C	0.1582	Adder	0.35
963642	AG1-215 E	0.2373	Adder	0.53
964111	AG1-272 C	0.4865	Adder	1.08
964112	AG1-272 E	0.1445	Adder	0.32
964121	AG1-273 C	0.4865	Adder	1.08
964122	AG1-273 E	0.1445	Adder	0.32
964131	AG1-274 C	0.4865	Adder	1.08
964132	AG1-274 E	0.1445	Adder	0.32
964241	AG1-285 C O2	2.7439	Adder	6.09
964242	AG1-285 E O2	1.8293	Adder	4.06
964261	AG1-287 C	1.4325	50/50	1.4325
964262	AG1-287 E	0.9550	50/50	0.9550
964471	AG1-310 C	3.2931	50/50	3.2931
964472	AG1-310 E	1.6219	50/50	1.6219
964533	AG1-316 BAT	1.4338	Merchant Transmission	1.4338
964791	AG1-342 C	3.1689	50/50	3.1689
964792	AG1-342 E	2.4899	50/50	2.4899
964821	AG1-345 C	0.1358	Adder	0.3
964822	AG1-345 E	0.0905	Adder	0.2
964841	AG1-347 C	1.6603	Adder	3.69
964842	AG1-347 E	1.3045	Adder	2.9
964931	AG1-357 C O2	4.0794	Adder	9.06
964932	AG1-357 E O2	2.7196	Adder	6.04
965191	AG1-384 C	0.4865	Adder	1.08
965192	AG1-384 E	0.1445	Adder	0.32
965281	AG1-393 C	0.3390	Adder	0.75
965282	AG1-393 E	0.2260	Adder	0.5
965591	AG1-427 C	2.4375	Adder	5.41
965592	AG1-427 E	1.6284	Adder	3.61
966361	AG1-505 C	3.2931	Adder	7.31
966362	AG1-505 E	2.1954	Adder	4.87
966371	AG1-506 C	3.2931	Adder	7.31
966372	AG1-506 E	2.1954	Adder	4.87
966691	AG1-539 C	17.1360	50/50	17.1360
966692	AG1-539 E	23.0265	50/50	23.0265
966763	AG1-547 BAT	2.4214	50/50	2.4214
CPLE	CPLE	1.2456	Confirmed LTF	1.2456
G-007A	G-007A	0.2278	Confirmed LTF	0.2278
VFT	VFT	0.5998	Confirmed LTF	0.5998
PRAIRIE	PRAIRIE	0.4701	Confirmed LTF	0.4701
CBM-S2	CBM-S2	11.0351	Confirmed LTF	11.0351
CBM-N	CBM-N	0.1080	Confirmed LTF	0.1080
GIBSON	GIBSON	0.1611	Confirmed LTF	0.1611
BLUEG	BLUEG	0.5711	Confirmed LTF	0.5711
TRIMBLE	TRIMBLE	0.1859	Confirmed LTF	0.1859

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	0.0472	Confirmed LTF	0.0472

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
175803013	314697	6SEGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-B-A	single	674.92	151.08	153.62	DC	17.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9276	80/20	0.9276
315160	1KERR 3	0.9276	80/20	0.9276
315161	1KERR 4	0.9276	80/20	0.9276
315162	1KERR 5	0.9276	80/20	0.9276
315163	1KERR 6	0.9276	80/20	0.9276
315164	1KERR 7	0.9276	80/20	0.9276
315191	1BEARGRDN G1	3.3144	80/20	3.3144
315192	1BEARGRDN G2	3.3144	80/20	3.3144
315193	1BEARGRDN S1	4.2862	80/20	4.2862
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6953	80/20	14.6953
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	-2.4502	Adder	-2.88
927261	AC1-222 C	10.1049	80/20	10.1049
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3929	80/20	0.3929
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0160	80/20	7.0160
934341	AD1-058 C	-6.1424	Adder	-7.23

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934615	AD1-087 C	22.4303	80/20	22.4303
934625	AD1-088 C	29.6895	80/20	29.6895
935171	AD1-152 C O1	24.6374	80/20	24.6374
935221	AD1-157 C	0.3412	80/20	0.3412
936265	AD2-033 C	18.1139	80/20	18.1139
936361	AD2-046 C O1	8.4650	80/20	8.4650
936485	AD2-063 C	20.6649	80/20	20.6649
937481	AD2-202 C O1	6.5700	80/20	6.5700
938371	AE1-056 C	9.3221	80/20	9.3221
938561	AE1-075 C	0.1049	80/20	0.1049
938821	AE1-108 C O1	7.2807	80/20	7.2807
939181	AE1-148 C	8.5007	80/20	8.5007
939941	AE1-230 C	0.7209	80/20	0.7209
940661	AE2-053 O1	3.1484	80/20	3.1484
941011	AE2-092 C	6.3234	80/20	6.3234
941791	AE2-182 C	4.8235	80/20	4.8235
941801	AE2-185 C	3.6043	80/20	3.6043
941821	AE2-187 C	3.6043	80/20	3.6043
942451	AE2-258	3.2048	80/20	3.2048
942461	AE2-259 C O1	14.7138	80/20	14.7138
942671	AE2-283 C	3.9648	80/20	3.9648
942751	AE2-291 C	15.6354	80/20	15.6354
942761	AE2-292 C O1	19.4676	80/20	19.4676
943901	AF1-058 C	5.7308	80/20	5.7308
943911	AF1-059	14.4227	80/20	14.4227
945081	AF1-173	1.3967	80/20	1.3967
945811	AF1-246 C O1	21.5242	80/20	21.5242
946291	AF1-293 C O1	9.4568	80/20	9.4568
946301	AF1-294 C	6.0812	80/20	6.0812
946591	AF1-323 C	2.4073	80/20	2.4073
957481	AF2-042 C	153.7440	80/20	153.7440
958211	AF2-115 C	3.5772	80/20	3.5772
958501	AF2-144 C	0.5650	80/20	0.5650
958801	AF2-171 C	21.4497	80/20	21.4497
959311	AF2-222 C	23.4030	80/20	23.4030
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5207	80/20	0.5207
959751	AF2-266	25.6235	80/20	25.6235
960061	AF2-297 C	22.9234	80/20	22.9234
960111	AF2-302 C	0.8754	80/20	0.8754
961061	AF2-397 C	7.1214	80/20	7.1214
961121	AF2-403	0.8010	80/20	0.8010
961791	AG1-021 C	2.8618	80/20	2.8618
961801	AG1-022 C	0.8754	80/20	0.8754
961891	AG1-030 C	21.3030	80/20	21.3030
962041	AG1-048 C	17.8860	80/20	17.8860
962441	AG1-093 C O2	51.1088	80/20	51.1088
962491	AG1-098 C O2	17.1435	80/20	17.1435
962561	AG1-105 C O2	21.0366	80/20	21.0366
963171	AG1-166 C	2.8618	80/20	2.8618
963181	AG1-167 C	2.8618	80/20	2.8618
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O2	28.3569	80/20	28.3569
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O2	23.5297	80/20	23.5297
963361	AG1-185 O2	11.3843	80/20	11.3843
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O2	3.9984	80/20	3.9984
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4661	80/20	22.4661
964931	AG1-357 C O2	27.5544	80/20	27.5544
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O2	6.3542	80/20	6.3542
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O2	3.1896	80/20	3.1896
965641	AG1-432 C O2	29.4276	80/20	29.4276
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9046	80/20	4.9046
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O2	3.3320	80/20	3.3320
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.5247	80/20	2.5247
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078
TRIMBLE	TRIMBLE	0.7618	Confirmed LTF	0.7618
CATAWBA	CATAWBA	1.6965	Confirmed LTF	1.6965

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168341880	314701	3LONEPN	DVP	313755	3FLAT CREEK	DVP	1	DVP_P1-2: LN 1045	single	203.98	146.42	183.17	DC	74.97

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314429	3JTRSVLE	2.5234	80/20	2.5234
316131	AB2-060 C	8.5795	80/20	8.5795
936265	AD2-033 C	77.9711	80/20	77.9711
946301	AF1-294 C	25.4906	80/20	25.4906
958211	AF2-115 C	14.9945	80/20	14.9945
961791	AG1-021 C	11.9956	80/20	11.9956
961891	AG1-030 C	89.9667	80/20	89.9667
962041	AG1-048 C	74.9722	80/20	74.9722
962491	AG1-098 C O2	74.9722	80/20	74.9722
963171	AG1-166 C	11.9956	80/20	11.9956
963181	AG1-167 C	11.9956	80/20	11.9956
963191	AG1-168 C	11.9956	80/20	11.9956
963201	AG1-169 C	11.9956	80/20	11.9956
963211	AG1-170 C	11.9956	80/20	11.9956
963641	AG1-215 C	5.5979	80/20	5.5979
964821	AG1-345 C	4.7982	80/20	4.7982
964931	AG1-357 C O2	119.9556	80/20	119.9556
965281	AG1-393 C	11.9956	80/20	11.9956
CALDERWOOD	CALDERWOOD	0.0184	Confirmed LTF	0.0184
NY	NY	0.0205	Confirmed LTF	0.0205
PRAIRIE	PRAIRIE	0.0956	Confirmed LTF	0.0956
CHEOAH	CHEOAH	0.0185	Confirmed LTF	0.0185
COTTONWOOD	COTTONWOOD	0.0777	Confirmed LTF	0.0777
HAMLET	HAMLET	0.0214	Confirmed LTF	0.0214
GIBSON	GIBSON	0.0202	Confirmed LTF	0.0202
BLUEG	BLUEG	0.0642	Confirmed LTF	0.0642
TRIMBLE	TRIMBLE	0.0206	Confirmed LTF	0.0206
CATAWBA	CATAWBA	0.0129	Confirmed LTF	0.0129

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163517255	314702	3KERR	DVP	304102	3GW KING TAP	CPL	1	DVP_P4-6: CAROLIN T122	breaker	199.0	146.47	158.02	DC	23.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5797	50/50	0.5797
313853	3PONTONDP	0.4064	Adder	0.48
314713	3PAMPLIN	0.8873	Adder	1.04
315158	1KERR 1	0.8424	50/50	0.8424
315159	1KERR 2	2.3588	50/50	2.3588
315160	1KERR 3	2.3588	50/50	2.3588
315161	1KERR 4	2.3588	50/50	2.3588
315162	1KERR 5	2.3588	50/50	2.3588
315163	1KERR 6	2.3588	50/50	2.3588
315164	1KERR 7	2.3588	50/50	2.3588
316118	AC1-105 C	2.4862	Adder	2.92
316129	AC1-054 C	15.8416	50/50	15.8416
316131	AB2-060 C	1.6441	50/50	1.6441
924022	AB2-043 E O1	3.2854	50/50	3.2854
924162	AB2-060 E OP	4.9039	50/50	4.9039
924301	AB2-077 C O1 (Suspended)	2.3786	50/50	2.3786
924302	AB2-077 E O1 (Suspended)	1.5858	50/50	1.5858
924311	AB2-078 C O1 (Suspended)	2.3786	50/50	2.3786
924312	AB2-078 E O1 (Suspended)	1.5858	50/50	1.5858
924321	AB2-079 C O1 (Suspended)	2.3786	50/50	2.3786
924322	AB2-079 E O1 (Suspended)	1.5858	50/50	1.5858
925611	AC1-036 C	0.2090	50/50	0.2090
925612	AC1-036 E	0.7934	50/50	0.7934
925785	AC1-054 E	7.2978	50/50	7.2978
926274	AC1-105 E	1.2215	Adder	1.44
935222	AD1-157 E	0.5470	Adder	0.64
936265	AD2-033 C	12.6220	50/50	12.6220
936266	AD2-033 E	8.4146	50/50	8.4146
936361	AD2-046 C O1	18.0396	50/50	18.0396
936362	AD2-046 E O1	8.2956	50/50	8.2956
936485	AD2-063 C	16.0974	50/50	16.0974
936486	AD2-063 E	10.7316	50/50	10.7316
938371	AE1-056 C	3.5374	Adder	4.16
938372	AE1-056 E	1.9328	Adder	2.27
939181	AE1-148 C	17.4836	50/50	17.4836

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939182	AE1-148 E	11.6557	50/50	11.6557
940661	AE2-053 O1	6.4754	50/50	6.4754
942451	AE2-258	2.7410	50/50	2.7410
942461	AE2-259 C O1	3.7684	Adder	4.43
942462	AE2-259 E O1	2.5123	Adder	2.96
943911	AF1-059	10.7887	Adder	12.69
946301	AF1-294 C	2.5908	Adder	3.05
946302	AF1-294 E	1.7272	Adder	2.03
958211	AF2-115 C	1.5240	Adder	1.79
958212	AF2-115 E	1.0160	Adder	1.2
958801	AF2-171 C	9.1968	Adder	10.82
958802	AF2-171 E	6.1312	Adder	7.21
959311	AF2-222 C	14.9130	50/50	14.9130
959312	AF2-222 E	9.9917	50/50	9.9917
961791	AG1-021 C	0.6462	Adder	1.43
961792	AG1-021 E	0.4308	Adder	0.96
961891	AG1-030 C	11.8413	50/50	11.8413
961892	AG1-030 E	7.8942	50/50	7.8942
962041	AG1-048 C	4.0386	Adder	8.96
962042	AG1-048 E	2.6924	Adder	5.98
962491	AG1-098 C O2	13.9860	50/50	13.9860
962492	AG1-098 E O2	9.3240	50/50	9.3240
962561	AG1-105 C O2	3.4158	Adder	7.58
962562	AG1-105 E O2	2.2772	Adder	5.05
963171	AG1-166 C	0.6462	Adder	1.43
963172	AG1-166 E	0.4308	Adder	0.96
963181	AG1-167 C	0.6462	Adder	1.43
963182	AG1-167 E	0.4308	Adder	0.96
963191	AG1-168 C	0.6462	Adder	1.43
963192	AG1-168 E	0.4308	Adder	0.96
963201	AG1-169 C	0.6462	Adder	1.43
963202	AG1-169 E	0.4308	Adder	0.96
963211	AG1-170 C	0.6462	Adder	1.43
963212	AG1-170 E	0.4308	Adder	0.96
963301	AG1-179 C	1.5479	Adder	3.44
963311	AG1-180	0.7542	Adder	1.67
963321	AG1-181 C O2	15.9399	50/50	15.9399
963361	AG1-185 O2	7.7121	50/50	7.7121
963641	AG1-215 C	0.3016	Adder	0.67
963642	AG1-215 E	0.4523	Adder	1.0
964111	AG1-272 C	2.3755	50/50	2.3755
964112	AG1-272 E	0.7055	50/50	0.7055
964121	AG1-273 C	2.3755	50/50	2.3755
964122	AG1-273 E	0.7055	50/50	0.7055
964131	AG1-274 C	2.3755	50/50	2.3755
964132	AG1-274 E	0.7055	50/50	0.7055
964791	AG1-342 C	1.2895	Adder	2.86
964792	AG1-342 E	1.0132	Adder	2.25
964821	AG1-345 C	0.2594	Adder	0.58
964822	AG1-345 E	0.1729	Adder	0.38
964931	AG1-357 C O2	21.5328	50/50	21.5328
964932	AG1-357 E O2	14.3552	50/50	14.3552

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965191	AG1-384 C	2.3755	50/50	2.3755
965192	AG1-384 E	0.7055	50/50	0.7055
965281	AG1-393 C	0.6462	Adder	1.43
965282	AG1-393 E	0.4308	Adder	0.96
965451	AG1-413 C O2	5.5720	50/50	5.5720
965452	AG1-413 E O2	3.7146	50/50	3.7146
965591	AG1-427 C	12.9843	50/50	12.9843
965592	AG1-427 E	8.6745	50/50	8.6745
965601	AG1-428 C O2	1.2922	Adder	2.87
965602	AG1-428 E O2	0.8600	Adder	1.91
965641	AG1-432 C O2	3.9945	Adder	8.87
965642	AG1-432 E O2	2.6630	Adder	5.91
965721	AG1-440 C	16.0191	50/50	16.0191
965722	AG1-440 E	10.6794	50/50	10.6794
965731	AG1-441 C	16.0191	50/50	16.0191
965732	AG1-441 E	10.6794	50/50	10.6794
965771	AG1-445	9.2555	50/50	9.2555
965781	AG1-446	9.2555	50/50	9.2555
965831	AG1-451	0.6657	Adder	1.48
966751	AG1-546 C	34.7517	50/50	34.7517
966752	AG1-546 E	18.6468	50/50	18.6468
G-007A	G-007A	0.1654	Confirmed LTF	0.1654
VFT	VFT	0.4386	Confirmed LTF	0.4386
CALDERWOOD	CALDERWOOD	0.3713	Confirmed LTF	0.3713
PRAIRIE	PRAIRIE	1.2528	Confirmed LTF	1.2528
CHEOAH	CHEOAH	0.3809	Confirmed LTF	0.3809
CBM-N	CBM-N	0.0792	Confirmed LTF	0.0792
COTTONWOOD	COTTONWOOD	1.3629	Confirmed LTF	1.3629
HAMLET	HAMLET	0.8062	Confirmed LTF	0.8062
GIBSON	GIBSON	0.2184	Confirmed LTF	0.2184
BLUEG	BLUEG	0.6701	Confirmed LTF	0.6701
TRIMBLE	TRIMBLE	0.2126	Confirmed LTF	0.2126
CATAWBA	CATAWBA	0.4161	Confirmed LTF	0.4161

13.5.37 Index 37

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169114094	314707	3MORAN	DVP	314691	3FARMVIL	DVP	1	DVP_P1-2: LN 1045	single	203.98	143.04	179.79	DC	74.97

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314429	3JTRSVLE	2.5234	80/20	2.5234
316131	AB2-060 C	8.5795	80/20	8.5795
936265	AD2-033 C	77.9711	80/20	77.9711
946301	AF1-294 C	25.4906	80/20	25.4906
958211	AF2-115 C	14.9945	80/20	14.9945
961791	AG1-021 C	11.9956	80/20	11.9956
961891	AG1-030 C	89.9667	80/20	89.9667
962041	AG1-048 C	74.9722	80/20	74.9722
962491	AG1-098 C O2	74.9722	80/20	74.9722
963171	AG1-166 C	11.9956	80/20	11.9956
963181	AG1-167 C	11.9956	80/20	11.9956
963191	AG1-168 C	11.9956	80/20	11.9956
963201	AG1-169 C	11.9956	80/20	11.9956
963211	AG1-170 C	11.9956	80/20	11.9956
963641	AG1-215 C	5.5979	80/20	5.5979
964821	AG1-345 C	4.7982	80/20	4.7982
964931	AG1-357 C O2	119.9556	80/20	119.9556
965281	AG1-393 C	11.9956	80/20	11.9956
CALDERWOOD	CALDERWOOD	0.0184	Confirmed LTF	0.0184
NY	NY	0.0205	Confirmed LTF	0.0205
PRAIRIE	PRAIRIE	0.0956	Confirmed LTF	0.0956
CHEOAH	CHEOAH	0.0185	Confirmed LTF	0.0185
COTTONWOOD	COTTONWOOD	0.0777	Confirmed LTF	0.0777
HAMLET	HAMLET	0.0214	Confirmed LTF	0.0214
GIBSON	GIBSON	0.0202	Confirmed LTF	0.0202
BLUEG	BLUEG	0.0642	Confirmed LTF	0.0642
TRIMBLE	TRIMBLE	0.0206	Confirmed LTF	0.0206
CATAWBA	CATAWBA	0.0129	Confirmed LTF	0.0129

13.5.38 Index 38

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174379413	314712	3OTTER R	DVP	314666	3ALTVSTA	DVP	1	DVP_P4-2: 511T556	breaker	342.0	106.92	108.19	DC	9.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.2132	Adder	0.25
314713	3PAMPLIN	0.4970	Adder	0.58
315266	1PLYWOOD A	1.0286	50/50	1.0286
316118	AC1-105 C	4.9180	50/50	4.9180
316123	AC1-075 C	2.6602	50/50	2.6602
924022	AB2-043 E O1	1.1292	Adder	1.33
924162	AB2-060 E OP	1.6982	Adder	2.0
924301	AB2-077 C O1 (Suspended)	0.8161	Adder	0.96
924302	AB2-077 E O1 (Suspended)	0.5441	Adder	0.64
924311	AB2-078 C O1 (Suspended)	0.8161	Adder	0.96
924312	AB2-078 E O1 (Suspended)	0.5441	Adder	0.64
924321	AB2-079 C O1 (Suspended)	0.8161	Adder	0.96
924322	AB2-079 E O1 (Suspended)	0.5441	Adder	0.64
925612	AC1-036 E	0.3066	Adder	0.36
925661	AC1-042 C	-2.7373	Adder	-3.22
925997	AC1-075 E	9.5532	50/50	9.5532
926023	AC1-080 C	0.8890	50/50	0.8890
926024	AC1-080 E	3.1697	50/50	3.1697
926274	AC1-105 E	2.4162	50/50	2.4162
927261	AC1-222 C	5.0538	50/50	5.0538
927262	AC1-222 E	4.8110	50/50	4.8110
934311	AD1-055 C	3.5090	50/50	3.5090
934312	AD1-055 E	0.9048	50/50	0.9048
934615	AD1-087 C	3.0206	Adder	3.55
934616	AD1-087 E	1.2926	Adder	1.52
934625	AD1-088 C	4.1166	Adder	4.84
934626	AD1-088 E	1.0782	Adder	1.27
935171	AD1-152 C O1	3.3179	Adder	3.9
935172	AD1-152 E O1	2.2119	Adder	2.6
935222	AD1-157 E	0.3064	Adder	0.36
936265	AD2-033 C	4.7544	Adder	5.59
936266	AD2-033 E	3.1696	Adder	3.73
936361	AD2-046 C O1	3.0375	Adder	3.57
936362	AD2-046 E O1	1.3968	Adder	1.64
936485	AD2-063 C	5.7605	Adder	6.78
936486	AD2-063 E	3.8403	Adder	4.52

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
937481	AD2-202 C O1	0.8848	Adder	1.04
937482	AD2-202 E O1	0.4977	Adder	0.59
938371	AE1-056 C	1.9814	Adder	2.33
938372	AE1-056 E	1.0826	Adder	1.27
939181	AE1-148 C	3.0184	Adder	3.55
939182	AE1-148 E	2.0123	Adder	2.37
939943	AE1-230 BAT	1.6142	50/50	1.6142
940661	AE2-053 O1	1.1179	Adder	1.32
941791	AE2-182 C	0.6688	Adder	0.79
941792	AE2-182 E	0.3113	Adder	0.37
942451	AE2-258	0.9421	Adder	1.11
942751	AE2-291 C	32.7726	50/50	32.7726
942752	AE2-291 E	21.8484	50/50	21.8484
942761	AE2-292 C O1	40.8051	50/50	40.8051
942762	AE2-292 E O1	27.2034	50/50	27.2034
943901	AF1-058 C	1.9100	50/50	1.9100
943902	AF1-058 E	1.2734	50/50	1.2734
945811	AF1-246 C O1	2.8992	Adder	3.41
945812	AF1-246 E O1	4.0037	Adder	4.71
946301	AF1-294 C	1.3590	Adder	1.6
946302	AF1-294 E	0.9060	Adder	1.07
957481	AF2-042 C	20.7086	Adder	24.36
957482	AF2-042 E	13.8057	Adder	16.24
958211	AF2-115 C	0.7994	Adder	0.94
958212	AF2-115 E	0.5330	Adder	0.63
958801	AF2-171 C	4.8065	Adder	5.65
958802	AF2-171 E	3.2043	Adder	3.77
959311	AF2-222 C	5.8633	Adder	6.9
959312	AF2-222 E	3.9284	Adder	4.62
959751	AF2-266	3.4514	Adder	4.06
960061	AF2-297 C	7.6402	50/50	7.6402
960062	AF2-297 E	5.0934	50/50	5.0934
961122	AF2-403 BAT	4.0356	50/50	4.0356
961131	AF2-404 BAT	4.0356	50/50	4.0356
961791	AG1-021 C	0.3390	Adder	0.75
961792	AG1-021 E	0.2260	Adder	0.5
961891	AG1-030 C	2.6464	Adder	5.87
961892	AG1-030 E	1.7642	Adder	3.92
962041	AG1-048 C	2.1185	Adder	4.7
962042	AG1-048 E	1.4123	Adder	3.13
962441	AG1-093 C O2	3.6124	Adder	8.02
962442	AG1-093 E O2	1.0994	Adder	2.44
962491	AG1-098 C O2	2.6003	Adder	5.77
962492	AG1-098 E O2	1.7335	Adder	3.85
962561	AG1-105 C O2	7.0980	50/50	7.0980
962562	AG1-105 E O2	4.7320	50/50	4.7320
963171	AG1-166 C	0.3390	Adder	0.75
963172	AG1-166 E	0.2260	Adder	0.5
963181	AG1-167 C	0.3390	Adder	0.75
963182	AG1-167 E	0.2260	Adder	0.5
963191	AG1-168 C	0.3390	Adder	0.75
963192	AG1-168 E	0.2260	Adder	0.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963201	AG1-169 C	0.3390	Adder	0.75
963202	AG1-169 E	0.2260	Adder	0.5
963211	AG1-170 C	0.3390	Adder	0.75
963212	AG1-170 E	0.2260	Adder	0.5
963321	AG1-181 C O2	3.2243	Adder	7.16
963361	AG1-185 O2	1.5600	Adder	3.46
963603	AG1-209 BAT	1.4125	50/50	1.4125
963641	AG1-215 C	0.1582	Adder	0.35
963642	AG1-215 E	0.2373	Adder	0.53
964111	AG1-272 C	0.4865	Adder	1.08
964112	AG1-272 E	0.1445	Adder	0.32
964121	AG1-273 C	0.4865	Adder	1.08
964122	AG1-273 E	0.1445	Adder	0.32
964131	AG1-274 C	0.4865	Adder	1.08
964132	AG1-274 E	0.1445	Adder	0.32
964241	AG1-285 C O2	2.7439	Adder	6.09
964242	AG1-285 E O2	1.8293	Adder	4.06
964261	AG1-287 C	1.4325	50/50	1.4325
964262	AG1-287 E	0.9550	50/50	0.9550
964471	AG1-310 C	3.2931	50/50	3.2931
964472	AG1-310 E	1.6219	50/50	1.6219
964533	AG1-316 BAT	1.4338	Merchant Transmission	1.4338
964791	AG1-342 C	3.1689	50/50	3.1689
964792	AG1-342 E	2.4899	50/50	2.4899
964821	AG1-345 C	0.1358	Adder	0.3
964822	AG1-345 E	0.0905	Adder	0.2
964841	AG1-347 C	1.6603	Adder	3.69
964842	AG1-347 E	1.3045	Adder	2.9
964931	AG1-357 C O2	4.0794	Adder	9.06
964932	AG1-357 E O2	2.7196	Adder	6.04
965191	AG1-384 C	0.4865	Adder	1.08
965192	AG1-384 E	0.1445	Adder	0.32
965281	AG1-393 C	0.3390	Adder	0.75
965282	AG1-393 E	0.2260	Adder	0.5
965591	AG1-427 C	2.4375	Adder	5.41
965592	AG1-427 E	1.6284	Adder	3.61
966361	AG1-505 C	3.2931	Adder	7.31
966362	AG1-505 E	2.1954	Adder	4.87
966371	AG1-506 C	3.2931	Adder	7.31
966372	AG1-506 E	2.1954	Adder	4.87
966691	AG1-539 C	17.1360	50/50	17.1360
966692	AG1-539 E	23.0265	50/50	23.0265
966763	AG1-547 BAT	2.4214	50/50	2.4214
CPL	CPL	1.2456	Confirmed LTF	1.2456
G-007A	G-007A	0.2278	Confirmed LTF	0.2278
VFT	VFT	0.5998	Confirmed LTF	0.5998
PRAIRIE	PRAIRIE	0.4701	Confirmed LTF	0.4701
CBM-S2	CBM-S2	11.0351	Confirmed LTF	11.0351
CBM-N	CBM-N	0.1080	Confirmed LTF	0.1080
GIBSON	GIBSON	0.1611	Confirmed LTF	0.1611
BLUEG	BLUEG	0.5711	Confirmed LTF	0.5711
TRIMBLE	TRIMBLE	0.1859	Confirmed LTF	0.1859

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	0.0472	Confirmed LTF	0.0472

13.5.39 Index 39

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169114064	314726	3WILLIS	DVP	314691	3FARMVIL	DVP	1	Base Case	single	186.12	102.63	106.29	DC	6.81

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3073	80/20	0.3073
315158	1KERR 1	0.1459	80/20	0.1459
315159	1KERR 2	0.4086	80/20	0.4086
315160	1KERR 3	0.4086	80/20	0.4086
315161	1KERR 4	0.4086	80/20	0.4086
315162	1KERR 5	0.4086	80/20	0.4086
315163	1KERR 6	0.4086	80/20	0.4086
315164	1KERR 7	0.4086	80/20	0.4086
316131	AB2-060 C	0.8460	80/20	0.8460
924301	AB2-077 C O1 (Suspended)	1.1882	80/20	1.1882
924311	AB2-078 C O1 (Suspended)	1.1882	80/20	1.1882
924321	AB2-079 C O1 (Suspended)	1.1882	80/20	1.1882
925611	AC1-036 C	0.4720	80/20	0.4720
935221	AD1-157 C	0.8970	80/20	0.8970
936265	AD2-033 C	4.1426	80/20	4.1426
936361	AD2-046 C O1	3.7549	80/20	3.7549
936485	AD2-063 C	17.7615	80/20	17.7615
938371	AE1-056 C	24.5107	80/20	24.5107
939181	AE1-148 C	3.7735	80/20	3.7735
940661	AE2-053 O1	1.3976	80/20	1.3976
942451	AE2-258	1.4531	80/20	1.4531
942461	AE2-259 C O1	50.0496	80/20	50.0496
943911	AF1-059	6.8468	80/20	6.8468
958801	AF2-171 C	49.7817	80/20	49.7817
959311	AF2-222 C	37.7730	80/20	37.7730
962491	AG1-098 C O2	6.8108	80/20	6.8108
962561	AG1-105 C O2	3.8424	80/20	3.8424
963301	AG1-179 C	1.8776	80/20	1.8776
963311	AG1-180	0.9148	80/20	0.9148
963321	AG1-181 C O2	32.9422	80/20	32.9422
963361	AG1-185 O2	15.9383	80/20	15.9383
964111	AG1-272 C	5.3637	80/20	5.3637
964121	AG1-273 C	5.3637	80/20	5.3637
964131	AG1-274 C	5.3637	80/20	5.3637
964791	AG1-342 C	1.4298	80/20	1.4298
964931	AG1-357 C O2	9.6072	80/20	9.6072
965191	AG1-384 C	5.3637	80/20	5.3637
965451	AG1-413 C O2	2.9995	80/20	2.9995
965591	AG1-427 C	12.4098	80/20	12.4098

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965601	AG1-428 C O2	1.5674	80/20	1.5674
965641	AG1-432 C O2	100.0992	80/20	100.0992
965721	AG1-440 C	2.4885	80/20	2.4885
965731	AG1-441 C	2.4885	80/20	2.4885
965771	AG1-445	1.4378	80/20	1.4378
965781	AG1-446	1.4378	80/20	1.4378
965831	AG1-451	16.6832	80/20	16.6832
WEC	WEC	0.0283	Confirmed LTF	0.0283
LGEE	LGEE	0.0578	Confirmed LTF	0.0578
CPL	CPL	0.4020	Confirmed LTF	0.4020
CBM-W2	CBM-W2	1.3619	Confirmed LTF	1.3619
NY	NY	0.0426	Confirmed LTF	0.0426
TVA	TVA	0.2632	Confirmed LTF	0.2632
SIGE	SIGE	0.0196	Confirmed LTF	0.0196
CBM-S2	CBM-S2	4.4579	Confirmed LTF	4.4579
CBM-S1	CBM-S1	0.0650	Confirmed LTF	0.0650
MEC	MEC	0.1764	Confirmed LTF	0.1764
LAGN	LAGN	0.3290	Confirmed LTF	0.3290
CBM-W1	CBM-W1	1.1777	Confirmed LTF	1.1777

13.5.40 Index 40

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169333402	314747	6BREMO	DVP	313867	6BREMODIST	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	131.74	133.5	DC	11.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1784	80/20	2.1784
313527	AB2-043 C	0.4243	80/20	0.4243
314429	3JTRSVLE	0.6669	80/20	0.6669
314572	3EMPORIA	0.1382	80/20	0.1382
314677	6BUCKING	1.0571	80/20	1.0571
314704	3LAWRENC	0.1410	80/20	0.1410
315126	1ROARAP2	0.4085	80/20	0.4085
315128	1ROARAP4	0.3898	80/20	0.3898
315153	1CLOVER1	7.5116	80/20	7.5116
315154	1CLOVER2	7.4368	80/20	7.4368
315158	1KERR 1	0.2345	80/20	0.2345
315159	1KERR 2	0.6567	80/20	0.6567
315160	1KERR 3	0.6567	80/20	0.6567
315161	1KERR 4	0.6567	80/20	0.6567
315162	1KERR 5	0.6567	80/20	0.6567
315163	1KERR 6	0.6567	80/20	0.6567
315164	1KERR 7	0.6567	80/20	0.6567
315191	1BEARGRDN G1	18.4998	80/20	18.4998
315192	1BEARGRDN G2	18.4998	80/20	18.4998
315193	1BEARGRDN S1	23.9239	80/20	23.9239
315266	1PLYWOOD A	0.6737	80/20	0.6737
316087	AB2-174 C	0.3606	80/20	0.3606
316118	AC1-105 C	3.4200	80/20	3.4200
316123	AC1-075 C	0.3763	80/20	0.3763
316129	AC1-054 C	3.4710	80/20	3.4710
316131	AB2-060 C	1.2609	80/20	1.2609
923991	AB2-040 C O1	2.3725	80/20	2.3725
924301	AB2-077 C O1 (Suspended)	1.6661	80/20	1.6661
924311	AB2-078 C O1 (Suspended)	1.6661	80/20	1.6661
924321	AB2-079 C O1 (Suspended)	1.6661	80/20	1.6661
925611	AC1-036 C	0.2822	80/20	0.2822
926023	AC1-080 C	0.1258	80/20	0.1258
927251	AC1-221 C	0.7947	80/20	0.7947
927261	AC1-222 C	1.8844	80/20	1.8844
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.0414	80/20	1.0414
932761	AC2-100 C	1.8288	80/20	1.8288

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933501	AC2-165 C	34.9923	80/20	34.9923
934311	AD1-055 C	1.3084	80/20	1.3084
934341	AD1-058 C	1.9921	80/20	1.9921
934615	AD1-087 C	4.7030	80/20	4.7030
934625	AD1-088 C	15.3924	80/20	15.3924
934991	AD1-131 C	0.6532	80/20	0.6532
935171	AD1-152 C O1	5.1658	80/20	5.1658
935221	AD1-157 C	0.4035	80/20	0.4035
936265	AD2-033 C	15.2365	80/20	15.2365
936361	AD2-046 C O1	5.8230	80/20	5.8230
936485	AD2-063 C	15.0849	80/20	15.0849
937481	AD2-202 C O1	1.3775	80/20	1.3775
938371	AE1-056 C	11.0258	80/20	11.0258
938821	AE1-108 C O1	11.0123	80/20	11.0123
939181	AE1-148 C	5.8169	80/20	5.8169
940661	AE2-053 O1	2.1544	80/20	2.1544
941791	AE2-182 C	2.5007	80/20	2.5007
942451	AE2-258	2.0064	80/20	2.0064
942461	AE2-259 C O1	20.3100	80/20	20.3100
942751	AE2-291 C	3.2791	80/20	3.2791
942761	AE2-292 C O1	4.0828	80/20	4.0828
943901	AF1-058 C	1.0548	80/20	1.0548
943911	AF1-059	10.2781	80/20	10.2781
945811	AF1-246 C O1	3.6616	80/20	3.6616
946281	AF1-292 C	0.4969	80/20	0.4969
946291	AF1-293 C O1	6.2287	80/20	6.2287
946301	AF1-294 C	6.7366	80/20	6.7366
946591	AF1-323 C	3.5356	80/20	3.5356
957481	AF2-042 C	26.1540	80/20	26.1540
958131	AF2-107 C	1.6496	80/20	1.6496
958211	AF2-115 C	3.9627	80/20	3.9627
958801	AF2-171 C	23.6772	80/20	23.6772
959311	AF2-222 C	21.6010	80/20	21.6010
959751	AF2-266	5.3920	80/20	5.3920
960061	AF2-297 C	4.2192	80/20	4.2192
960081	AF2-299 C	0.8375	80/20	0.8375
960111	AF2-302 C	1.2857	80/20	1.2857
961791	AG1-021 C	3.1702	80/20	3.1702
961801	AG1-022 C	1.2857	80/20	1.2857
961891	AG1-030 C	22.0122	80/20	22.0122
962041	AG1-048 C	19.8135	80/20	19.8135
962441	AG1-093 C O2	8.8246	80/20	8.8246
962491	AG1-098 C O2	11.6385	80/20	11.6385
962561	AG1-105 C O2	6.9312	80/20	6.9312
963171	AG1-166 C	3.1702	80/20	3.1702
963181	AG1-167 C	3.1702	80/20	3.1702
963191	AG1-168 C	3.1702	80/20	3.1702
963201	AG1-169 C	3.1702	80/20	3.1702
963211	AG1-170 C	3.1702	80/20	3.1702
963271	AG1-176 C O2	29.3068	80/20	29.3068
963301	AG1-179 C	2.9803	80/20	2.9803
963311	AG1-180	1.4521	80/20	1.4521

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O2	20.4293	80/20	20.4293
963361	AG1-185 O2	9.8842	80/20	9.8842
963641	AG1-215 C	1.4794	80/20	1.4794
964111	AG1-272 C	3.2072	80/20	3.2072
964121	AG1-273 C	3.2072	80/20	3.2072
964131	AG1-274 C	3.2072	80/20	3.2072
964231	AG1-284 C O2	6.3853	80/20	6.3853
964241	AG1-285 C O2	6.2010	80/20	6.2010
964261	AG1-287 C	0.7911	80/20	0.7911
964471	AG1-310 C	1.0721	80/20	1.0721
964791	AG1-342 C	2.7841	80/20	2.7841
964821	AG1-345 C	1.2648	80/20	1.2648
964841	AG1-347 C	12.9864	80/20	12.9864
964931	AG1-357 C O2	19.9968	80/20	19.9968
965191	AG1-384 C	3.2072	80/20	3.2072
965281	AG1-393 C	3.1702	80/20	3.1702
965451	AG1-413 C O2	4.4581	80/20	4.4581
965581	AG1-426	2.3992	80/20	2.3992
965591	AG1-427 C	11.4819	80/20	11.4819
965601	AG1-428 C O2	2.4880	80/20	2.4880
965641	AG1-432 C O2	40.6200	80/20	40.6200
965721	AG1-440 C	4.1121	80/20	4.1121
965731	AG1-441 C	4.1121	80/20	4.1121
965771	AG1-445	2.3759	80/20	2.3759
965781	AG1-446	2.3759	80/20	2.3759
965831	AG1-451	6.7700	80/20	6.7700
966361	AG1-505 C	4.9734	80/20	4.9734
966371	AG1-506 C	4.9734	80/20	4.9734
966621	AG1-532 C	0.4522	80/20	0.4522
966691	AG1-539 C	1.7146	80/20	1.7146
966751	AG1-546 C	7.3410	80/20	7.3410
966791	AG1-550 O2	5.3211	80/20	5.3211
966811	AG1-552 C	0.6485	80/20	0.6485
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	5.5327	80/20	5.5327
WEC	WEC	0.0699	Confirmed LTF	0.0699
LGEE	LGEE	0.1483	Confirmed LTF	0.1483
CPLE	CPLE	2.3396	Confirmed LTF	2.3396
CBM-W2	CBM-W2	5.8061	Confirmed LTF	5.8061
NY	NY	0.4076	Confirmed LTF	0.4076
TVA	TVA	1.2558	Confirmed LTF	1.2558
SIGE	SIGE	0.1120	Confirmed LTF	0.1120
CBM-S2	CBM-S2	25.9121	Confirmed LTF	25.9121
CBM-S1	CBM-S1	0.2953	Confirmed LTF	0.2953
MEC	MEC	0.5863	Confirmed LTF	0.5863
LAGN	LAGN	1.5645	Confirmed LTF	1.5645
AA2-074	AA2-074	1.5426	LTF	1.5426
CBM-W1	CBM-W1	2.5236	Confirmed LTF	2.5236

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169333419	314747	6BREMO	DVP	314744	3BREMO	DVP	1	DVP_P1-2: LN 2193	single	269.78	121.03	123.01	DC	5.34

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.1964	80/20	0.1964
314333	6POWHATN	0.2978	80/20	0.2978
314429	3JTRSVLE	0.2938	80/20	0.2938
314677	6BUCKING	0.4512	80/20	0.4512
315153	1CLOVER1	3.8262	80/20	3.8262
315154	1CLOVER2	3.7880	80/20	3.7880
315191	1BEARGRDN G1	7.8222	80/20	7.8222
315192	1BEARGRDN G2	7.8222	80/20	7.8222
315193	1BEARGRDN S1	10.1156	80/20	10.1156
316131	AB2-060 C	0.5816	80/20	0.5816
924301	AB2-077 C O1 (Suspended)	0.7721	80/20	0.7721
924311	AB2-078 C O1 (Suspended)	0.7721	80/20	0.7721
924321	AB2-079 C O1 (Suspended)	0.7721	80/20	0.7721
925611	AC1-036 C	0.1263	80/20	0.1263
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4445	80/20	0.4445
932854	AC2-112 C	-5.0776	Adder	-5.97
933501	AC2-165 C	9.0146	80/20	9.0146
934615	AD1-087 C	2.3943	80/20	2.3943
934625	AD1-088 C	7.0236	80/20	7.0236
935171	AD1-152 C O1	2.6299	80/20	2.6299
935221	AD1-157 C	0.1771	80/20	0.1771
936265	AD2-033 C	6.8523	80/20	6.8523
936361	AD2-046 C O1	2.8074	80/20	2.8074
936485	AD2-063 C	6.8715	80/20	6.8715
937481	AD2-202 C O1	0.7013	80/20	0.7013
938371	AE1-056 C	4.8380	80/20	4.8380
938561	AE1-075 C	0.2589	80/20	0.2589
939181	AE1-148 C	2.7983	80/20	2.7983
940661	AE2-053 O1	1.0364	80/20	1.0364
941791	AE2-182 C	1.1411	80/20	1.1411
942451	AE2-258	0.9286	80/20	0.9286
942461	AE2-259 C O1	8.8332	80/20	8.8332
943911	AF1-059	5.2100	80/20	5.2100
946301	AF1-294 C	2.9682	80/20	2.9682
957911	AF2-085	1.1020	80/20	1.1020
958211	AF2-115 C	1.7460	80/20	1.7460
958501	AF2-144 C	1.3950	80/20	1.3950
958801	AF2-171 C	10.4355	80/20	10.4355

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959311	AF2-222 C	9.6430	80/20	9.6430
959531	AF2-244 C (Withdrawn : 01/06/2021)	1.2855	80/20	1.2855
959751	AF2-266	2.7465	80/20	2.7465
961791	AG1-021 C	1.3968	80/20	1.3968
961891	AG1-030 C	9.7443	80/20	9.7443
962041	AG1-048 C	8.7300	80/20	8.7300
962491	AG1-098 C O2	5.3400	80/20	5.3400
962561	AG1-105 C O2	3.1734	80/20	3.1734
963171	AG1-166 C	1.3968	80/20	1.3968
963181	AG1-167 C	1.3968	80/20	1.3968
963191	AG1-168 C	1.3968	80/20	1.3968
963201	AG1-169 C	1.3968	80/20	1.3968
963211	AG1-170 C	1.3968	80/20	1.3968
963271	AG1-176 C O2	12.8432	80/20	12.8432
963321	AG1-181 C O2	9.1648	80/20	9.1648
963361	AG1-185 O2	4.4342	80/20	4.4342
963641	AG1-215 C	0.6518	80/20	0.6518
964111	AG1-272 C	1.4356	80/20	1.4356
964121	AG1-273 C	1.4356	80/20	1.4356
964131	AG1-274 C	1.4356	80/20	1.4356
964791	AG1-342 C	1.2713	80/20	1.2713
964821	AG1-345 C	0.5574	80/20	0.5574
964841	AG1-347 C	5.8772	80/20	5.8772
964931	AG1-357 C O2	9.1140	80/20	9.1140
965191	AG1-384 C	1.4356	80/20	1.4356
965281	AG1-393 C	1.3968	80/20	1.3968
965451	AG1-413 C O2	2.2376	80/20	2.2376
965591	AG1-427 C	5.2486	80/20	5.2486
965641	AG1-432 C O2	17.6664	80/20	17.6664
965831	AG1-451	2.9444	80/20	2.9444
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.3702	80/20	2.3702
CPLE	CPLE	1.1821	Confirmed LTF	1.1821
NY	NY	0.0879	Confirmed LTF	0.0879
PRAIRIE	PRAIRIE	0.5734	Confirmed LTF	0.5734
CBM-S2	CBM-S2	10.8576	Confirmed LTF	10.8576
GIBSON	GIBSON	0.1900	Confirmed LTF	0.1900
BLUEG	BLUEG	0.6562	Confirmed LTF	0.6562
TRIMBLE	TRIMBLE	0.2137	Confirmed LTF	0.2137
LAGN	LAGN	0.0263	Confirmed LTF	0.0263

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169333392	314765	6MTEAGLE	DVP	314749	6CHARLVL	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	131.59	133.21	DC	10.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3898	80/20	0.3898
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1286	80/20	0.1286
315153	1CLOVER1	6.8555	80/20	6.8555
315154	1CLOVER2	6.7871	80/20	6.7871
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6056	80/20	0.6056
315160	1KERR 3	0.6056	80/20	0.6056
315161	1KERR 4	0.6056	80/20	0.6056
315162	1KERR 5	0.6056	80/20	0.6056
315163	1KERR 6	0.6056	80/20	0.6056
315164	1KERR 7	0.6056	80/20	0.6056
315191	1BEARGRDN G1	16.8015	80/20	16.8015
315192	1BEARGRDN G2	16.8015	80/20	16.8015
315193	1BEARGRDN S1	21.7276	80/20	21.7276
315266	1PLYWOOD A	0.6337	80/20	0.6337
316118	AC1-105 C	3.2095	80/20	3.2095
316123	AC1-075 C	0.3995	80/20	0.3995
316129	AC1-054 C	3.1893	80/20	3.1893
316131	AB2-060 C	1.1579	80/20	1.1579
924301	AB2-077 C O1 (Suspended)	1.5318	80/20	1.5318
924311	AB2-078 C O1 (Suspended)	1.5318	80/20	1.5318
924321	AB2-079 C O1 (Suspended)	1.5318	80/20	1.5318
925611	AC1-036 C	0.2579	80/20	0.2579
926023	AC1-080 C	0.1335	80/20	0.1335
926451	AC1-116 C	0.5713	80/20	0.5713
927251	AC1-221 C	0.7553	80/20	0.7553
927261	AC1-222 C	1.8201	80/20	1.8201
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9462	80/20	0.9462
932761	AC2-100 C	1.7381	80/20	1.7381
933501	AC2-165 C	31.7798	80/20	31.7798
934311	AD1-055 C	1.2637	80/20	1.2637
934341	AD1-058 C	1.8933	80/20	1.8933
934615	AD1-087 C	4.2927	80/20	4.2927

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934625	AD1-088 C	14.0094	80/20	14.0094
934991	AD1-131 C	0.6208	80/20	0.6208
935171	AD1-152 C O1	4.7150	80/20	4.7150
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9363	80/20	13.9363
936361	AD2-046 C O1	5.3660	80/20	5.3660
936485	AD2-063 C	13.8249	80/20	13.8249
937481	AD2-202 C O1	1.2573	80/20	1.2573
938371	AE1-056 C	10.0469	80/20	10.0469
938821	AE1-108 C O1	34.7022	80/20	34.7022
939181	AE1-148 C	5.3595	80/20	5.3595
940661	AE2-053 O1	1.9850	80/20	1.9850
941011	AE2-092 C	28.7092	80/20	28.7092
941791	AE2-182 C	2.2760	80/20	2.2760
942451	AE2-258	1.8434	80/20	1.8434
942461	AE2-259 C O1	18.4818	80/20	18.4818
942751	AE2-291 C	3.6916	80/20	3.6916
942761	AE2-292 C O1	4.5964	80/20	4.5964
943901	AF1-058 C	0.9986	80/20	0.9986
943911	AF1-059	9.4111	80/20	9.4111
945811	AF1-246 C O1	3.3281	80/20	3.3281
946281	AF1-292 C	0.4501	80/20	0.4501
946291	AF1-293 C O1	46.3226	80/20	46.3226
946301	AF1-294 C	6.1424	80/20	6.1424
946591	AF1-323 C	11.1045	80/20	11.1045
957481	AF2-042 C	23.7720	80/20	23.7720
958131	AF2-107 C	5.0062	80/20	5.0062
958211	AF2-115 C	3.6132	80/20	3.6132
958801	AF2-171 C	21.5892	80/20	21.5892
959311	AF2-222 C	19.7350	80/20	19.7350
959751	AF2-266	4.9210	80/20	4.9210
960061	AF2-297 C	3.9946	80/20	3.9946
960081	AF2-299 C	0.7586	80/20	0.7586
960111	AF2-302 C	4.0380	80/20	4.0380
961061	AF2-397 C	49.3795	80/20	49.3795
961791	AG1-021 C	2.8906	80/20	2.8906
961801	AG1-022 C	4.0380	80/20	4.0380
961891	AG1-030 C	20.0853	80/20	20.0853
962041	AG1-048 C	18.0660	80/20	18.0660
962441	AG1-093 C O2	8.1264	80/20	8.1264
962491	AG1-098 C O2	10.6792	80/20	10.6792
962561	AG1-105 C O2	6.4410	80/20	6.4410
962741	AG1-123 C O2	3.0874	80/20	3.0874
962751	AG1-124 C O2	4.3356	80/20	4.3356
963171	AG1-166 C	2.8906	80/20	2.8906
963181	AG1-167 C	2.8906	80/20	2.8906
963191	AG1-168 C	2.8906	80/20	2.8906
963201	AG1-169 C	2.8906	80/20	2.8906
963211	AG1-170 C	2.8906	80/20	2.8906
963271	AG1-176 C O2	26.6490	80/20	26.6490
963301	AG1-179 C	2.7231	80/20	2.7231
963311	AG1-180	1.3268	80/20	1.3268

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O2	18.6784	80/20	18.6784
963361	AG1-185 O2	9.0371	80/20	9.0371
963641	AG1-215 C	1.3489	80/20	1.3489
964111	AG1-272 C	2.9313	80/20	2.9313
964121	AG1-273 C	2.9313	80/20	2.9313
964131	AG1-274 C	2.9313	80/20	2.9313
964231	AG1-284 C O2	20.2364	80/20	20.2364
964241	AG1-285 C O2	5.6295	80/20	5.6295
964261	AG1-287 C	0.7490	80/20	0.7490
964471	AG1-310 C	1.0445	80/20	1.0445
964791	AG1-342 C	2.5943	80/20	2.5943
964821	AG1-345 C	1.1533	80/20	1.1533
964841	AG1-347 C	11.8171	80/20	11.8171
964931	AG1-357 C O2	18.3276	80/20	18.3276
965191	AG1-384 C	2.9313	80/20	2.9313
965281	AG1-393 C	2.8906	80/20	2.8906
965451	AG1-413 C O2	4.0837	80/20	4.0837
965581	AG1-426	7.5604	80/20	7.5604
965591	AG1-427 C	10.5285	80/20	10.5285
965601	AG1-428 C O2	2.2733	80/20	2.2733
965641	AG1-432 C O2	36.9636	80/20	36.9636
965721	AG1-440 C	3.7881	80/20	3.7881
965731	AG1-441 C	3.7881	80/20	3.7881
965771	AG1-445	2.1887	80/20	2.1887
965781	AG1-446	2.1887	80/20	2.1887
965831	AG1-451	6.1606	80/20	6.1606
966251	AG1-494 C	1.8190	80/20	1.8190
966621	AG1-532 C	0.4096	80/20	0.4096
966691	AG1-539 C	1.9302	80/20	1.9302
966751	AG1-546 C	6.7407	80/20	6.7407
966791	AG1-550 O2	16.8637	80/20	16.8637
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	5.0276	80/20	5.0276
WEC	WEC	0.1332	Confirmed LTF	0.1332
LGEE	LGEE	0.2859	Confirmed LTF	0.2859
CPL	CPL	2.2666	Confirmed LTF	2.2666
CBM-W2	CBM-W2	7.4995	Confirmed LTF	7.4995
NY	NY	0.4413	Confirmed LTF	0.4413
TVA	TVA	1.5190	Confirmed LTF	1.5190
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.1835	Confirmed LTF	26.1835
CBM-S1	CBM-S1	0.3690	Confirmed LTF	0.3690
MEC	MEC	0.9010	Confirmed LTF	0.9010
LAGN	LAGN	1.8743	Confirmed LTF	1.8743
AA2-074	AA2-074	1.4958	LTF	1.4958
CBM-W1	CBM-W1	5.2575	Confirmed LTF	5.2575

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173308611	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-B-B	single	718.0	153.97	156.36	DC	17.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9276	80/20	0.9276
315160	1KERR 3	0.9276	80/20	0.9276
315161	1KERR 4	0.9276	80/20	0.9276
315162	1KERR 5	0.9276	80/20	0.9276
315163	1KERR 6	0.9276	80/20	0.9276
315164	1KERR 7	0.9276	80/20	0.9276
315191	1BEARGRDN G1	3.3144	80/20	3.3144
315192	1BEARGRDN G2	3.3144	80/20	3.3144
315193	1BEARGRDN S1	4.2862	80/20	4.2862
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6953	80/20	14.6953
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	11.7174	80/20	11.7174
927261	AC1-222 C	10.1049	80/20	10.1049
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3929	80/20	0.3929
932761	AC2-100 C	26.9660	80/20	26.9660
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0160	80/20	7.0160

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934341	AD1-058 C	29.3737	80/20	29.3737
934615	AD1-087 C	22.4303	80/20	22.4303
934625	AD1-088 C	29.6895	80/20	29.6895
934991	AD1-131 C	9.6307	80/20	9.6307
935171	AD1-152 C O1	24.6374	80/20	24.6374
935221	AD1-157 C	0.3412	80/20	0.3412
936265	AD2-033 C	18.1139	80/20	18.1139
936361	AD2-046 C O1	8.4650	80/20	8.4650
936485	AD2-063 C	20.6649	80/20	20.6649
937481	AD2-202 C O1	6.5700	80/20	6.5700
938371	AE1-056 C	9.3221	80/20	9.3221
938561	AE1-075 C	0.1049	80/20	0.1049
938821	AE1-108 C O1	7.2807	80/20	7.2807
939181	AE1-148 C	8.5007	80/20	8.5007
939941	AE1-230 C	0.7209	80/20	0.7209
940661	AE2-053 O1	3.1484	80/20	3.1484
941011	AE2-092 C	6.3234	80/20	6.3234
941791	AE2-182 C	4.8235	80/20	4.8235
941801	AE2-185 C	3.6043	80/20	3.6043
941821	AE2-187 C	3.6043	80/20	3.6043
942451	AE2-258	3.2048	80/20	3.2048
942461	AE2-259 C O1	14.7138	80/20	14.7138
942671	AE2-283 C	3.9648	80/20	3.9648
942751	AE2-291 C	15.6354	80/20	15.6354
942761	AE2-292 C O1	19.4676	80/20	19.4676
943901	AF1-058 C	5.7308	80/20	5.7308
943911	AF1-059	14.4227	80/20	14.4227
945081	AF1-173	1.3967	80/20	1.3967
945811	AF1-246 C O1	21.5242	80/20	21.5242
946291	AF1-293 C O1	9.4568	80/20	9.4568
946301	AF1-294 C	6.0812	80/20	6.0812
946591	AF1-323 C	2.4073	80/20	2.4073
957481	AF2-042 C	153.7440	80/20	153.7440
958211	AF2-115 C	3.5772	80/20	3.5772
958501	AF2-144 C	0.5650	80/20	0.5650
958801	AF2-171 C	21.4497	80/20	21.4497
959311	AF2-222 C	23.4030	80/20	23.4030
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5207	80/20	0.5207
959751	AF2-266	25.6235	80/20	25.6235
960061	AF2-297 C	22.9234	80/20	22.9234
960111	AF2-302 C	0.8754	80/20	0.8754
961061	AF2-397 C	7.1214	80/20	7.1214
961121	AF2-403	0.8010	80/20	0.8010
961791	AG1-021 C	2.8618	80/20	2.8618
961801	AG1-022 C	0.8754	80/20	0.8754
961891	AG1-030 C	21.3030	80/20	21.3030
962041	AG1-048 C	17.8860	80/20	17.8860
962441	AG1-093 C O2	51.1088	80/20	51.1088
962491	AG1-098 C O2	17.1435	80/20	17.1435
962561	AG1-105 C O2	21.0366	80/20	21.0366
963171	AG1-166 C	2.8618	80/20	2.8618
963181	AG1-167 C	2.8618	80/20	2.8618

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O2	28.3569	80/20	28.3569
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O2	23.5297	80/20	23.5297
963361	AG1-185 O2	11.3843	80/20	11.3843
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O2	3.9984	80/20	3.9984
964241	AG1-285 C O2	38.4360	80/20	38.4360
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4661	80/20	22.4661
964931	AG1-357 C O2	27.5544	80/20	27.5544
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O2	6.3542	80/20	6.3542
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O2	3.1896	80/20	3.1896
965641	AG1-432 C O2	29.4276	80/20	29.4276
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9046	80/20	4.9046
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O2	3.3320	80/20	3.3320
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.5247	80/20	2.5247
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078
TRIMBLE	TRIMBLE	0.7618	Confirmed LTF	0.7618
CATAWBA	CATAWBA	1.6965	Confirmed LTF	1.6965

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
173979042	936400	AD2-051 TAP	DVP	314569	6EARLEYS	DVP	1	DVP_P4-2: 23872	breaker	699.0	116.72	117.4	DC	10.59

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3530	50/50	9.3530
314572	3EMPORIA	0.6243	50/50	0.6243
314704	3LAWRENC	0.3601	50/50	0.3601
315126	1ROARAP2	1.5793	50/50	1.5793
315128	1ROARAP4	1.5071	50/50	1.5071
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315136	1ROSEMG1	3.8541	50/50	3.8541
315137	1ROSEMS1	2.3899	50/50	2.3899
315138	1ROSEMG2	1.8063	50/50	1.8063
315139	1GASTONA	6.0597	50/50	6.0597
315141	1GASTONB	6.0597	50/50	6.0597
315162	1KERR 5	0.6746	50/50	0.6746
315163	1KERR 6	0.6746	50/50	0.6746
315164	1KERR 7	0.6746	50/50	0.6746
315293	1DOMTR9	-3.2315	Adder	-3.8
315294	1DOMTR10	-3.9602	Adder	-4.66
315606	3AA2-053SOLA	1.2798	50/50	1.2798
315607	3AA1-063SOLA	1.1585	50/50	1.1585
316087	AB2-174 C	1.5782	50/50	1.5782
316088	AB2-174 E	9.0505	50/50	9.0505
316096	AB2-100 C1	1.6883	50/50	1.6883
316097	AB2-100 E1	5.2708	50/50	5.2708
316098	AB2-100 C2	1.6883	50/50	1.6883
316099	AB2-100 E2	5.2708	50/50	5.2708
316129	AC1-054 C	6.4467	50/50	6.4467
917342	Z2-044 E	0.2916	Adder	0.34
918492	AA1-063AE OP	3.4622	50/50	3.4622
919692	AA2-053 E OP	3.3307	50/50	3.3307
919702	AA2-057 E OP	1.7318	Adder	2.04
920592	AA2-165 E	0.2380	Adder	0.28
922923	AB1-081 E OP	1.9462	Adder	2.29
923262	AB1-132 C OP (Suspended)	29.3303	50/50	29.3303
923263	AB1-132 E OP (Suspended)	12.5701	50/50	12.5701
923573	AB1-173 E OP	1.4585	50/50	1.4585
923991	AB2-040 C O1	10.1864	50/50	10.1864
923992	AB2-040 E O1	8.3344	50/50	8.3344
924022	AB2-043 E O1	1.2716	Adder	1.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924152	AB2-059 E OP	2.7571	Adder	3.24
924162	AB2-060 E OP	1.8959	Adder	2.23
924301	AB2-077 C O1 (Suspended)	0.8937	Adder	1.05
924302	AB2-077 E O1 (Suspended)	0.5958	Adder	0.7
924311	AB2-078 C O1 (Suspended)	0.8937	Adder	1.05
924312	AB2-078 E O1 (Suspended)	0.5958	Adder	0.7
924321	AB2-079 C O1 (Suspended)	0.8937	Adder	1.05
924322	AB2-079 E O1 (Suspended)	0.5958	Adder	0.7
925591	AC1-034 C	3.4666	Adder	4.08
925592	AC1-034 E	2.6152	Adder	3.08
925785	AC1-054 E	2.9698	50/50	2.9698
926070	AC1-086 C	43.1923	50/50	43.1923
926071	AC1-086 E	19.6583	50/50	19.6583
927145	AC1-208 C	6.0602	50/50	6.0602
927146	AC1-208 E	2.6801	50/50	2.6801
934331	AD1-057 C O1	12.8853	50/50	12.8853
934332	AD1-057 E O1	6.8735	50/50	6.8735
936265	AD2-033 C	4.8406	Adder	5.69
936266	AD2-033 E	3.2270	Adder	3.8
936361	AD2-046 C O1	4.6394	Adder	5.46
936362	AD2-046 E O1	2.1334	Adder	2.51
936401	AD2-051 C O1	43.0670	50/50	43.0670
936402	AD2-051 E O1	18.4925	50/50	18.4925
936485	AD2-063 C	6.2072	Adder	7.3
936486	AD2-063 E	4.1381	Adder	4.87
939181	AE1-148 C	4.5510	Adder	5.35
939182	AE1-148 E	3.0340	Adder	3.57
940481	AE2-033 C	28.0982	50/50	28.0982
940482	AE2-033 E	18.9426	50/50	18.9426
940571	AE2-044 C	2.2705	Adder	2.67
940572	AE2-044 E	0.9731	Adder	1.14
940661	AE2-053 O1	1.6856	Adder	1.98
942451	AE2-258	1.0609	Adder	1.25
942471	AE2-260 C O1	26.1100	50/50	26.1100
942472	AE2-260 E O1	37.0340	50/50	37.0340
943911	AF1-059	16.2609	50/50	16.2609
944141	AF1-082	1.4596	Adder	1.72
946011	AF1-266	23.5204	50/50	23.5204
946281	AF1-292 C	2.2873	50/50	2.2873
946282	AF1-292 E	1.5420	50/50	1.5420
960081	AF2-299 C	3.8550	50/50	3.8550
960082	AF2-299 E	2.5700	50/50	2.5700
962271	AG1-075 C O2	29.4242	50/50	29.4242
962272	AG1-075 E O2	17.9323	50/50	17.9323
962491	AG1-098 C O2	2.8625	Adder	6.35
962492	AG1-098 E O2	1.9083	Adder	4.24
962571	AG1-106 C	12.0114	50/50	12.0114

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962572	AG1-106 E	5.4471	50/50	5.4471
963301	AG1-179 C	6.5051	50/50	6.5051
963311	AG1-180	3.1695	50/50	3.1695
964493	AG1-312 BAT	11.1153	50/50	11.1153
964501	AG1-313 C O2	1.0258	Adder	2.28
964502	AG1-313 E O2	0.6839	Adder	1.52
964931	AG1-357 C O2	4.3994	Adder	9.77
964932	AG1-357 E O2	2.9329	Adder	6.51
965451	AG1-413 C O2	6.5669	50/50	6.5669
965452	AG1-413 E O2	4.3779	50/50	4.3779
965591	AG1-427 C	2.6560	Adder	5.9
965592	AG1-427 E	1.7744	Adder	3.94
965601	AG1-428 C O2	5.4306	50/50	5.4306
965602	AG1-428 E O2	3.6140	50/50	3.6140
965721	AG1-440 C	5.2898	50/50	5.2898
965722	AG1-440 E	3.5265	50/50	3.5265
965731	AG1-441 C	5.2898	50/50	5.2898
965732	AG1-441 E	3.5265	50/50	3.5265
965742	AG1-442 BAT	4.6785	50/50	4.6785
965752	AG1-443 BAT	4.6785	50/50	4.6785
965771	AG1-445	3.0563	50/50	3.0563
965781	AG1-446	3.0563	50/50	3.0563
966621	AG1-532 C	2.0817	50/50	2.0817
966622	AG1-532 E	1.3878	50/50	1.3878
966751	AG1-546 C	14.6996	50/50	14.6996
966752	AG1-546 E	7.8874	50/50	7.8874
966811	AG1-552 C	2.5075	50/50	2.5075
966812	AG1-552 E	1.0747	50/50	1.0747
966932	AG1-431A BAT	9.7064	Merchant Transmission	9.7064
WEC	WEC	0.1213	Confirmed LTF	0.1213
LGEE	LGEE	0.2507	Confirmed LTF	0.2507
CPL	CPL	1.2510	Confirmed LTF	1.2510
CBM-W2	CBM-W2	5.1789	Confirmed LTF	5.1789
NY	NY	0.1648	Confirmed LTF	0.1648
TVA	TVA	0.9716	Confirmed LTF	0.9716
O-066	O-066	2.3353	Confirmed LTF	2.3353
SIGE	SIGE	0.0810	Confirmed LTF	0.0810
CBM-S2	CBM-S2	14.5220	Confirmed LTF	14.5220
CBM-S1	CBM-S1	0.2432	Confirmed LTF	0.2432
G-007	G-007	0.3675	Confirmed LTF	0.3675
MEC	MEC	0.7182	Confirmed LTF	0.7182
LAGN	LAGN	1.2040	Confirmed LTF	1.2040
CBM-W1	CBM-W1	5.0893	Confirmed LTF	5.0893

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163120660	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	157.44	158.31	DC	16.06

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	14.5739	50/50	14.5739
313719	3CHESTNUT	1.3547	50/50	1.3547
314541	3WATKINS	0.3968	Adder	0.47
314572	3EMPORIA	1.0296	50/50	1.0296
314582	3KELFORD	0.3886	50/50	0.3886
314623	3WITAKRS	0.2420	50/50	0.2420
314704	3LAWRENC	0.5984	50/50	0.5984
315126	1ROARAP2	2.1390	50/50	2.1390
315128	1ROARAP4	2.0412	50/50	2.0412
315131	1EDGECEMA (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315132	1EDGECEMB (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315136	1ROSEMG1	4.0488	50/50	4.0488
315137	1ROSEMS1	2.5107	50/50	2.5107
315138	1ROSEMG2	1.8975	50/50	1.8975
315139	1GASTONA	6.0660	50/50	6.0660
315141	1GASTONB	6.0660	50/50	6.0660
315293	1DOMTR9	4.0274	Adder	4.74
315294	1DOMTR10	4.9355	Adder	5.81
315601	1CONETOE2SOL	1.5563	50/50	1.5563
315606	3AA2-053SOLA	2.1783	50/50	2.1783
315607	3AA1-063SOLA	1.8411	50/50	1.8411
316020	AB2-059 C OP	1.8615	50/50	1.8615
316087	AB2-174 C	2.5142	50/50	2.5142
316088	AB2-174 E	14.4183	50/50	14.4183
316096	AB2-100 C1	2.8368	50/50	2.8368
316097	AB2-100 E1	8.8562	50/50	8.8562
316098	AB2-100 C2	2.8368	50/50	2.8368
316099	AB2-100 E2	8.8562	50/50	8.8562
316103	AB2-015 C	4.5989	Adder	5.41
316104	AB2-015 E	3.7711	Adder	4.44
316129	AC1-054 C	8.9401	50/50	8.9401
316140	AB2-099 C (Suspended)	0.5074	Adder	0.6
316141	AB2-099 E (Suspended)	0.2175	Adder	0.26
900672	V4-068 E	0.2536	Adder	0.3
917332	Z2-043 E	1.1590	50/50	1.1590
917342	Z2-044 E	0.6574	50/50	0.6574
917512	Z2-088 E OP1	9.2316	50/50	9.2316
918492	AA1-063AE OP	5.5022	50/50	5.5022
918512	AA1-065 E OP	3.1563	Adder	3.71

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
918532	AA1-067 E	0.5438	Adder	0.64
919692	AA2-053 E OP	5.6689	50/50	5.6689
919702	AA2-057 E OP	4.0531	50/50	4.0531
920042	AA2-088 E OP	8.4552	Adder	9.95
920591	AA2-165 C	0.1819	50/50	0.1819
920592	AA2-165 E	0.5571	50/50	0.5571
922922	AB1-081 C OP	1.5794	50/50	1.5794
922923	AB1-081 E OP	4.2905	50/50	4.2905
923262	AB1-132 C OP (Suspended)	29.3605	50/50	29.3605
923263	AB1-132 E OP (Suspended)	12.5831	50/50	12.5831
923573	AB1-173 E OP	2.2727	50/50	2.2727
923991	AB2-040 C O1	15.8726	50/50	15.8726
923992	AB2-040 E O1	12.9866	50/50	12.9866
924022	AB2-043 E O1	1.9315	Adder	2.27
924152	AB2-059 E OP	6.0782	50/50	6.0782
924162	AB2-060 E OP	2.8784	Adder	3.39
924301	AB2-077 C O1 (Suspended)	1.3530	Adder	1.59
924302	AB2-077 E O1 (Suspended)	0.9020	Adder	1.06
924311	AB2-078 C O1 (Suspended)	1.3530	Adder	1.59
924312	AB2-078 E O1 (Suspended)	0.9020	Adder	1.06
924321	AB2-079 C O1 (Suspended)	1.3530	Adder	1.59
924322	AB2-079 E O1 (Suspended)	0.9020	Adder	1.06
925122	AB2-169 E	3.7190	Adder	4.38
925591	AC1-034 C	7.6424	50/50	7.6424
925592	AC1-034 E	5.7653	50/50	5.7653
925785	AC1-054 E	4.1185	50/50	4.1185
926070	AC1-086 C	43.2369	50/50	43.2369
926071	AC1-086 E	19.6785	50/50	19.6785
926201	AC1-098 C	7.4602	50/50	7.4602
926202	AC1-098 E	4.4444	50/50	4.4444
926211	AC1-099 C	2.5000	50/50	2.5000
926212	AC1-099 E	1.4682	50/50	1.4682
927024	AC1-189 C	7.7989	Adder	9.18
927025	AC1-189 E	3.8849	Adder	4.57
927145	AC1-208 C	11.7742	50/50	11.7742
927146	AC1-208 E	5.2070	50/50	5.2070
932631	AC2-084 C	10.6348	50/50	10.6348
932632	AC2-084 E	5.2380	50/50	5.2380
933991	AD1-023 C	7.9663	Adder	9.37
933992	AD1-023 E	4.3369	Adder	5.1
934331	AD1-057 C O1	17.3418	50/50	17.3418
934332	AD1-057 E O1	9.2508	50/50	9.2508
934521	AD1-076 C	29.5902	Adder	34.81
934522	AD1-076 E	15.0673	Adder	17.73
936265	AD2-033 C	7.3116	Adder	8.6

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936266	AD2-033 E	4.8744	Adder	5.73
936361	AD2-046 C O1	6.7224	Adder	7.91
936362	AD2-046 E O1	3.0913	Adder	3.64
936401	AD2-051 C O1	7.1246	Adder	8.38
936402	AD2-051 E O1	3.0592	Adder	3.6
936485	AD2-063 C	9.4057	Adder	11.07
936486	AD2-063 E	6.2705	Adder	7.38
938222	AE1-035 E	0.8680	Adder	1.02
939181	AE1-148 C	6.6055	Adder	7.77
939182	AE1-148 E	4.4036	Adder	5.18
940481	AE2-033 C	64.3737	50/50	64.3737
940482	AE2-033 E	43.3980	50/50	43.3980
940542	AE2-040 BAT	3.9010	50/50	3.9010
940571	AE2-044 C	5.0056	50/50	5.0056
940572	AE2-044 E	1.8235	Adder	2.15
940661	AE2-053 O1	2.4465	Adder	2.88
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5093	Adder	0.6
942451	AE2-258	1.6115	Adder	1.9
942471	AE2-260 C O1	46.3236	50/50	46.3236
942472	AE2-260 E O1	65.7044	50/50	65.7044
943171	AE2-346 C	1.2178	Adder	1.43
943172	AE2-346 E	0.5219	Adder	0.61
943911	AF1-059	26.5588	50/50	26.5588
944141	AF1-082	2.7352	Adder	3.22
946011	AF1-266	53.8858	50/50	53.8858
946281	AF1-292 C	3.8472	50/50	3.8472
946282	AF1-292 E	2.5936	50/50	2.5936
957521	AF2-046 C	14.3320	Adder	16.86
957522	AF2-046 E	7.2091	Adder	8.48
957861	AF2-080 C	7.0833	Adder	8.33
957862	AF2-080 E	3.1400	Adder	3.69
959511	AF2-242 C	5.0088	Adder	5.89
959512	AF2-242 E	3.8958	Adder	4.58
960081	AF2-299 C	6.4841	50/50	6.4841
960082	AF2-299 E	4.3227	50/50	4.3227
961091	AF2-400 C	0.2483	Adder	0.29
961092	AF2-400 E	0.4075	Adder	0.48
961671	AG1-007 C	1.5192	50/50	1.5192
961672	AG1-007 E	0.8484	50/50	0.8484
961681	AG1-008 C	7.6112	Adder	16.9
961682	AG1-008 E	3.8056	Adder	8.45
961931	AG1-036 C	0.6196	Adder	1.38
961932	AG1-036 E	0.4131	Adder	0.92
961941	AG1-037 C	0.2305	Adder	0.51
961942	AG1-037 E	0.1537	Adder	0.34
962271	AG1-075 C O2	67.4116	50/50	67.4116
962272	AG1-075 E O2	41.0834	50/50	41.0834
962331	AG1-082 C	0.9220	Adder	2.05
962332	AG1-082 E	0.6147	Adder	1.36
962341	AG1-083 C	0.9220	Adder	2.05
962342	AG1-083 E	0.6147	Adder	1.36
962351	AG1-084 C	0.8099	Adder	1.8

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962352	AG1-084 E	0.5399	Adder	1.2
962361	AG1-085 C	0.8099	Adder	1.8
962362	AG1-085 E	0.5399	Adder	1.2
962491	AG1-098 C O2	4.3424	Adder	9.64
962492	AG1-098 E O2	2.8949	Adder	6.43
962571	AG1-106 C	12.0238	50/50	12.0238
962572	AG1-106 E	5.4527	50/50	5.4527
963301	AG1-179 C	10.7581	50/50	10.7581
963311	AG1-180	5.2416	50/50	5.2416
963321	AG1-181 C O2	4.8852	Adder	10.84
963361	AG1-185 O2	2.3636	Adder	5.25
964491	AG1-312 C O1	7.5745	Adder	16.81
964492	AG1-312 E O1	1.8936	Adder	4.2
964501	AG1-313 C O2	6.3298	50/50	6.3298
964502	AG1-313 E O2	4.2199	50/50	4.2199
964801	AG1-343 C	2.6428	Adder	5.87
964802	AG1-343 E	2.0765	Adder	4.61
964931	AG1-357 C O2	6.6667	Adder	14.8
964932	AG1-357 E O2	4.4445	Adder	9.87
965291	AG1-394 C	0.9050	Adder	2.01
965292	AG1-394 E	0.6033	Adder	1.34
965451	AG1-413 C O2	10.6898	50/50	10.6898
965452	AG1-413 E O2	7.1265	50/50	7.1265
965591	AG1-427 C	4.0275	Adder	8.94
965592	AG1-427 E	2.6907	Adder	5.97
965601	AG1-428 C O2	8.9810	50/50	8.9810
965602	AG1-428 E O2	5.9767	50/50	5.9767
965691	AG1-437 C O1	3.5190	Adder	7.81
965692	AG1-437 E O1	2.3460	Adder	5.21
965701	AG1-438 C O1	3.5190	Adder	7.81
965702	AG1-438 E O1	2.3460	Adder	5.21
965711	AG1-439 C O1	27.9180	50/50	27.9180
965712	AG1-439 E O1	18.6120	50/50	18.6120
965721	AG1-440 C	3.3703	Adder	7.48
965722	AG1-440 E	2.2469	Adder	4.99
965731	AG1-441 C	3.3703	Adder	7.48
965732	AG1-441 E	2.2469	Adder	4.99
965741	AG1-442 O1	2.0528	Adder	4.56
965751	AG1-443 O1	2.0528	Adder	4.56
965761	AG1-444 O1	14.8896	50/50	14.8896
965771	AG1-445	1.9473	Adder	4.32
965781	AG1-446	1.9473	Adder	4.32
966621	AG1-532 C	3.5014	50/50	3.5014
966622	AG1-532 E	2.3343	50/50	2.3343
966751	AG1-546 C	20.3177	50/50	20.3177
966752	AG1-546 E	10.9018	50/50	10.9018
966801	AG1-551 C	0.8593	Adder	1.91
966802	AG1-551 E	0.3683	Adder	0.82
966811	AG1-552 C	3.3962	50/50	3.3962
966812	AG1-552 E	1.4555	50/50	1.4555
WEC	WEC	0.2003	Confirmed LTF	0.2003
LGEE	LGEE	0.4128	Confirmed LTF	0.4128

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CPLE	CPLE	2.4679	Confirmed LTF	2.4679
CBM-W2	CBM-W2	8.9152	Confirmed LTF	8.9152
NY	NY	0.3069	Confirmed LTF	0.3069
TVA	TVA	1.6884	Confirmed LTF	1.6884
O-066	O-066	4.3005	Confirmed LTF	4.3005
SIGE	SIGE	0.1410	Confirmed LTF	0.1410
CBM-S2	CBM-S2	26.7473	Confirmed LTF	26.7473
CBM-S1	CBM-S1	0.4203	Confirmed LTF	0.4203
G-007	G-007	0.6762	Confirmed LTF	0.6762
MEC	MEC	1.2076	Confirmed LTF	1.2076
LAGN	LAGN	2.1000	Confirmed LTF	2.1000
AA2-074	AA2-074	1.6299	LTF	1.6299
CBM-W1	CBM-W1	8.3699	Confirmed LTF	8.3699

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174379397	942750	AE2-291 TAP	DVP	314694	3GRIT	DVP	1	DVP_P4-2: 511T556	breaker	350.0	110.99	112.23	DC	9.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.2132	Adder	0.25
314713	3PAMPLIN	0.4970	Adder	0.58
315266	1PLYWOOD A	1.0286	50/50	1.0286
316118	AC1-105 C	4.9180	50/50	4.9180
316123	AC1-075 C	2.6602	50/50	2.6602
924022	AB2-043 E O1	1.1292	Adder	1.33
924162	AB2-060 E OP	1.6982	Adder	2.0
924301	AB2-077 C O1 (Suspended)	0.8161	Adder	0.96
924302	AB2-077 E O1 (Suspended)	0.5441	Adder	0.64
924311	AB2-078 C O1 (Suspended)	0.8161	Adder	0.96
924312	AB2-078 E O1 (Suspended)	0.5441	Adder	0.64
924321	AB2-079 C O1 (Suspended)	0.8161	Adder	0.96
924322	AB2-079 E O1 (Suspended)	0.5441	Adder	0.64
925612	AC1-036 E	0.3066	Adder	0.36
925661	AC1-042 C	-2.7373	Adder	-3.22
925997	AC1-075 E	9.5532	50/50	9.5532
926023	AC1-080 C	0.8890	50/50	0.8890
926024	AC1-080 E	3.1697	50/50	3.1697
926274	AC1-105 E	2.4162	50/50	2.4162
927261	AC1-222 C	5.0538	50/50	5.0538
927262	AC1-222 E	4.8110	50/50	4.8110
934311	AD1-055 C	3.5090	50/50	3.5090
934312	AD1-055 E	0.9048	50/50	0.9048
934615	AD1-087 C	3.0206	Adder	3.55
934616	AD1-087 E	1.2926	Adder	1.52
934625	AD1-088 C	4.1166	Adder	4.84
934626	AD1-088 E	1.0782	Adder	1.27
935171	AD1-152 C O1	3.3179	Adder	3.9
935172	AD1-152 E O1	2.2119	Adder	2.6
935222	AD1-157 E	0.3064	Adder	0.36
936265	AD2-033 C	4.7544	Adder	5.59
936266	AD2-033 E	3.1696	Adder	3.73
936361	AD2-046 C O1	3.0375	Adder	3.57
936362	AD2-046 E O1	1.3968	Adder	1.64
936485	AD2-063 C	5.7605	Adder	6.78
936486	AD2-063 E	3.8403	Adder	4.52

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
937481	AD2-202 C O1	0.8848	Adder	1.04
937482	AD2-202 E O1	0.4977	Adder	0.59
938371	AE1-056 C	1.9814	Adder	2.33
938372	AE1-056 E	1.0826	Adder	1.27
939181	AE1-148 C	3.0184	Adder	3.55
939182	AE1-148 E	2.0123	Adder	2.37
939943	AE1-230 BAT	1.6142	50/50	1.6142
940661	AE2-053 O1	1.1179	Adder	1.32
941791	AE2-182 C	0.6688	Adder	0.79
941792	AE2-182 E	0.3113	Adder	0.37
942451	AE2-258	0.9421	Adder	1.11
942751	AE2-291 C	32.7726	50/50	32.7726
942752	AE2-291 E	21.8484	50/50	21.8484
942761	AE2-292 C O1	40.8051	50/50	40.8051
942762	AE2-292 E O1	27.2034	50/50	27.2034
943901	AF1-058 C	1.9100	50/50	1.9100
943902	AF1-058 E	1.2734	50/50	1.2734
945811	AF1-246 C O1	2.8992	Adder	3.41
945812	AF1-246 E O1	4.0037	Adder	4.71
946301	AF1-294 C	1.3590	Adder	1.6
946302	AF1-294 E	0.9060	Adder	1.07
957481	AF2-042 C	20.7086	Adder	24.36
957482	AF2-042 E	13.8057	Adder	16.24
958211	AF2-115 C	0.7994	Adder	0.94
958212	AF2-115 E	0.5330	Adder	0.63
958801	AF2-171 C	4.8065	Adder	5.65
958802	AF2-171 E	3.2043	Adder	3.77
959311	AF2-222 C	5.8633	Adder	6.9
959312	AF2-222 E	3.9284	Adder	4.62
959751	AF2-266	3.4514	Adder	4.06
960061	AF2-297 C	7.6402	50/50	7.6402
960062	AF2-297 E	5.0934	50/50	5.0934
961122	AF2-403 BAT	4.0356	50/50	4.0356
961131	AF2-404 BAT	4.0356	50/50	4.0356
961791	AG1-021 C	0.3390	Adder	0.75
961792	AG1-021 E	0.2260	Adder	0.5
961891	AG1-030 C	2.6464	Adder	5.87
961892	AG1-030 E	1.7642	Adder	3.92
962041	AG1-048 C	2.1185	Adder	4.7
962042	AG1-048 E	1.4123	Adder	3.13
962441	AG1-093 C O2	3.6124	Adder	8.02
962442	AG1-093 E O2	1.0994	Adder	2.44
962491	AG1-098 C O2	2.6003	Adder	5.77
962492	AG1-098 E O2	1.7335	Adder	3.85
962561	AG1-105 C O2	7.0980	50/50	7.0980
962562	AG1-105 E O2	4.7320	50/50	4.7320
963171	AG1-166 C	0.3390	Adder	0.75
963172	AG1-166 E	0.2260	Adder	0.5
963181	AG1-167 C	0.3390	Adder	0.75
963182	AG1-167 E	0.2260	Adder	0.5
963191	AG1-168 C	0.3390	Adder	0.75
963192	AG1-168 E	0.2260	Adder	0.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963201	AG1-169 C	0.3390	Adder	0.75
963202	AG1-169 E	0.2260	Adder	0.5
963211	AG1-170 C	0.3390	Adder	0.75
963212	AG1-170 E	0.2260	Adder	0.5
963321	AG1-181 C O2	3.2243	Adder	7.16
963361	AG1-185 O2	1.5600	Adder	3.46
963603	AG1-209 BAT	1.4125	50/50	1.4125
963641	AG1-215 C	0.1582	Adder	0.35
963642	AG1-215 E	0.2373	Adder	0.53
964111	AG1-272 C	0.4865	Adder	1.08
964112	AG1-272 E	0.1445	Adder	0.32
964121	AG1-273 C	0.4865	Adder	1.08
964122	AG1-273 E	0.1445	Adder	0.32
964131	AG1-274 C	0.4865	Adder	1.08
964132	AG1-274 E	0.1445	Adder	0.32
964241	AG1-285 C O2	2.7439	Adder	6.09
964242	AG1-285 E O2	1.8293	Adder	4.06
964261	AG1-287 C	1.4325	50/50	1.4325
964262	AG1-287 E	0.9550	50/50	0.9550
964471	AG1-310 C	3.2931	50/50	3.2931
964472	AG1-310 E	1.6219	50/50	1.6219
964533	AG1-316 BAT	1.4338	Merchant Transmission	1.4338
964791	AG1-342 C	3.1689	50/50	3.1689
964792	AG1-342 E	2.4899	50/50	2.4899
964821	AG1-345 C	0.1358	Adder	0.3
964822	AG1-345 E	0.0905	Adder	0.2
964841	AG1-347 C	1.6603	Adder	3.69
964842	AG1-347 E	1.3045	Adder	2.9
964931	AG1-357 C O2	4.0794	Adder	9.06
964932	AG1-357 E O2	2.7196	Adder	6.04
965191	AG1-384 C	0.4865	Adder	1.08
965192	AG1-384 E	0.1445	Adder	0.32
965281	AG1-393 C	0.3390	Adder	0.75
965282	AG1-393 E	0.2260	Adder	0.5
965591	AG1-427 C	2.4375	Adder	5.41
965592	AG1-427 E	1.6284	Adder	3.61
966361	AG1-505 C	3.2931	Adder	7.31
966362	AG1-505 E	2.1954	Adder	4.87
966371	AG1-506 C	3.2931	Adder	7.31
966372	AG1-506 E	2.1954	Adder	4.87
966691	AG1-539 C	17.1360	50/50	17.1360
966692	AG1-539 E	23.0265	50/50	23.0265
966763	AG1-547 BAT	2.4214	50/50	2.4214
CPLE	CPLE	1.2456	Confirmed LTF	1.2456
G-007A	G-007A	0.2278	Confirmed LTF	0.2278
VFT	VFT	0.5998	Confirmed LTF	0.5998
PRAIRIE	PRAIRIE	0.4701	Confirmed LTF	0.4701
CBM-S2	CBM-S2	11.0351	Confirmed LTF	11.0351
CBM-N	CBM-N	0.1080	Confirmed LTF	0.1080
GIBSON	GIBSON	0.1611	Confirmed LTF	0.1611
BLUEG	BLUEG	0.5711	Confirmed LTF	0.5711
TRIMBLE	TRIMBLE	0.1859	Confirmed LTF	0.1859

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	0.0472	Confirmed LTF	0.0472

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174998495	961060	AF2-397 TAP	DVP	314765	6MTEAGLE	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	135.11	136.73	DC	10.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0115	80/20	14.0115

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9378	80/20	13.9378
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8267	80/20	13.8267
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0476	80/20	10.0476
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2764	80/20	2.2764
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4830	80/20	18.4830
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9990	80/20	0.9990
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1429	80/20	6.1429
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6135	80/20	3.6135
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7370	80/20	19.7370
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9960	80/20	3.9960
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961061	AF2-397 C	49.3810	80/20	49.3810
961791	AG1-021 C	2.8908	80/20	2.8908
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0675	80/20	18.0675
962441	AG1-093 C O2	8.1291	80/20	8.1291
962491	AG1-098 C O2	10.6807	80/20	10.6807
962561	AG1-105 C O2	6.4428	80/20	6.4428
962741	AG1-123 C O2	3.0883	80/20	3.0883
962751	AG1-124 C O2	4.3368	80/20	4.3368
963171	AG1-166 C	2.8908	80/20	2.8908
963181	AG1-167 C	2.8908	80/20	2.8908
963191	AG1-168 C	2.8908	80/20	2.8908
963201	AG1-169 C	2.8908	80/20	2.8908
963211	AG1-170 C	2.8908	80/20	2.8908
963271	AG1-176 C O2	26.6508	80/20	26.6508
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O2	18.6814	80/20	18.6814

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O2	9.0386	80/20	9.0386
963641	AG1-215 C	1.3490	80/20	1.3490
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O2	20.2377	80/20	20.2377
964241	AG1-285 C O2	5.6317	80/20	5.6317
964261	AG1-287 C	0.7493	80/20	0.7493
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8188	80/20	11.8188
964931	AG1-357 C O2	18.3312	80/20	18.3312
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8908	80/20	2.8908
965451	AG1-413 C O2	4.0845	80/20	4.0845
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299
965601	AG1-428 C O2	2.2741	80/20	2.2741
965641	AG1-432 C O2	36.9660	80/20	36.9660
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1610	80/20	6.1610
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966791	AG1-550 O2	16.8647	80/20	16.8647
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	5.0279	80/20	5.0279
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPL	CPL	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173978923	966860	AG1-557 TAP	DVP	314677	6BUCKING	DVP	1	DVP_P4-2: 511T556	breaker	684.0	184.44	188.96	DC	30.93

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6841	50/50	0.6841
313853	3PONTONDP	1.5983	50/50	1.5983
314429	3JTRSVLE	1.0086	50/50	1.0086
314713	3PAMPLIN	4.1600	50/50	4.1600
315153	1CLOVER1	20.9906	50/50	20.9906
315154	1CLOVER2	20.7814	50/50	20.7814
315266	1PLYWOOD A	1.3921	50/50	1.3921
316118	AC1-105 C	6.9390	50/50	6.9390
316129	AC1-054 C	4.4267	Adder	5.21
316131	AB2-060 C	2.0245	50/50	2.0245
924022	AB2-043 E O1	3.8772	50/50	3.8772
924162	AB2-060 E OP	6.0385	50/50	6.0385
924301	AB2-077 C O1 (Suspended)	2.7025	50/50	2.7025
924302	AB2-077 E O1 (Suspended)	1.8017	50/50	1.8017
924311	AB2-078 C O1 (Suspended)	2.7025	50/50	2.7025
924312	AB2-078 E O1 (Suspended)	1.8017	50/50	1.8017
924321	AB2-079 C O1 (Suspended)	2.7025	50/50	2.7025
924322	AB2-079 E O1 (Suspended)	1.8017	50/50	1.8017
925611	AC1-036 C	0.4357	50/50	0.4357
925612	AC1-036 E	1.6538	50/50	1.6538
925785	AC1-054 E	2.0392	Adder	2.4
925997	AC1-075 E	2.4237	Adder	2.85
926024	AC1-080 E	0.8042	Adder	0.95
926274	AC1-105 E	3.4092	50/50	3.4092
927251	AC1-221 C	1.4351	Adder	1.69
927252	AC1-221 E	1.4351	Adder	1.69
927261	AC1-222 C	4.1245	50/50	4.1245
927262	AC1-222 E	3.9264	50/50	3.9264
932761	AC2-100 C	3.3027	Adder	3.89
932762	AC2-100 E	1.6120	Adder	1.9
934311	AD1-055 C	2.8637	50/50	2.8637
934312	AD1-055 E	0.7385	50/50	0.7385
934341	AD1-058 C	3.5976	Adder	4.23
934342	AD1-058 E	0.9141	Adder	1.08
934615	AD1-087 C	13.1301	50/50	13.1301
934616	AD1-087 E	5.6186	50/50	5.6186

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934625	AD1-088 C	29.0891	50/50	29.0891
934626	AD1-088 E	7.6186	50/50	7.6186
934991	AD1-131 C	1.1795	Adder	1.39
934992	AD1-131 E	0.7864	Adder	0.93
935171	AD1-152 C O1	14.4221	50/50	14.4221
935172	AD1-152 E O1	9.6147	50/50	9.6147
935221	AD1-157 C	0.6070	50/50	0.6070
935222	AD1-157 E	2.5648	50/50	2.5648
936265	AD2-033 C	23.6707	50/50	23.6707
936266	AD2-033 E	15.7804	50/50	15.7804
936361	AD2-046 C O1	9.3642	50/50	9.3642
936362	AD2-046 E O1	4.3062	50/50	4.3062
936485	AD2-063 C	23.8266	50/50	23.8266
936486	AD2-063 E	15.8844	50/50	15.8844
937481	AD2-202 C O1	3.8459	50/50	3.8459
937482	AD2-202 E O1	2.1633	50/50	2.1633
938371	AE1-056 C	16.5854	50/50	16.5854
938372	AE1-056 E	9.0622	50/50	9.0622
939181	AE1-148 C	9.3550	50/50	9.3550
939182	AE1-148 E	6.2366	50/50	6.2366
940661	AE2-053 O1	3.4648	50/50	3.4648
941791	AE2-182 C	4.7260	50/50	4.7260
941792	AE2-182 E	2.2000	50/50	2.2000
942451	AE2-258	3.2348	50/50	3.2348
942461	AE2-259 C O1	30.1980	50/50	30.1980
942462	AE2-259 E O1	20.1320	50/50	20.1320
943901	AF1-058 C	2.3251	50/50	2.3251
943902	AF1-058 E	1.5501	50/50	1.5501
943911	AF1-059	13.2458	Adder	15.58
945811	AF1-246 C O1	12.6559	50/50	12.6559
945812	AF1-246 E O1	17.4771	50/50	17.4771
946293	AF1-293 BAT	11.1710	Merchant Transmission	11.1710
946301	AF1-294 C	10.1890	50/50	10.1890
946302	AF1-294 E	6.7927	50/50	6.7927
957481	AF2-042 C	90.3990	50/50	90.3990
957482	AF2-042 E	60.2660	50/50	60.2660
958211	AF2-115 C	5.9936	50/50	5.9936
958212	AF2-115 E	3.9957	50/50	3.9957
958801	AF2-171 C	35.8218	50/50	35.8218
958802	AF2-171 E	23.8812	50/50	23.8812
959311	AF2-222 C	33.2310	50/50	33.2310
959312	AF2-222 E	22.2648	50/50	22.2648
959751	AF2-266	15.0675	50/50	15.0675
960061	AF2-297 C	9.3005	50/50	9.3005
960062	AF2-297 E	6.2003	50/50	6.2003
961063	AF2-397 BAT	7.8291	Merchant Transmission	7.8291
961791	AG1-021 C	4.7948	50/50	4.7948
961792	AG1-021 E	3.1966	50/50	3.1966
961891	AG1-030 C	33.4989	50/50	33.4989
961892	AG1-030 E	22.3326	50/50	22.3326
962041	AG1-048 C	29.9677	50/50	29.9677
962042	AG1-048 E	19.9785	50/50	19.9785

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962441	AG1-093 C O2	23.3763	50/50	23.3763
962442	AG1-093 E O2	7.1145	50/50	7.1145
962491	AG1-098 C O2	18.5565	50/50	18.5565
962492	AG1-098 E O2	12.3710	50/50	12.3710
962561	AG1-105 C O2	12.7134	50/50	12.7134
962562	AG1-105 E O2	8.4756	50/50	8.4756
963171	AG1-166 C	4.7948	50/50	4.7948
963172	AG1-166 E	3.1966	50/50	3.1966
963181	AG1-167 C	4.7948	50/50	4.7948
963182	AG1-167 E	3.1966	50/50	3.1966
963191	AG1-168 C	4.7948	50/50	4.7948
963192	AG1-168 E	3.1966	50/50	3.1966
963201	AG1-169 C	4.7948	50/50	4.7948
963202	AG1-169 E	3.1966	50/50	3.1966
963211	AG1-170 C	4.7948	50/50	4.7948
963212	AG1-170 E	3.1966	50/50	3.1966
963271	AG1-176 C O2	46.3597	50/50	46.3597
963272	AG1-176 E O2	30.9064	50/50	30.9064
963301	AG1-179 C	1.9551	Adder	4.34
963311	AG1-180	0.9526	Adder	2.11
963321	AG1-181 C O2	31.6301	50/50	31.6301
963361	AG1-185 O2	15.3034	50/50	15.3034
963641	AG1-215 C	2.2376	50/50	2.2376
963642	AG1-215 E	3.3564	50/50	3.3564
964111	AG1-272 C	4.9517	50/50	4.9517
964112	AG1-272 E	1.4707	50/50	1.4707
964121	AG1-273 C	4.9517	50/50	4.9517
964122	AG1-273 E	1.4707	50/50	1.4707
964131	AG1-274 C	4.9517	50/50	4.9517
964132	AG1-274 E	1.4707	50/50	1.4707
964241	AG1-285 C O2	22.5998	50/50	22.5998
964242	AG1-285 E O2	15.0665	50/50	15.0665
964261	AG1-287 C	1.7438	50/50	1.7438
964262	AG1-287 E	1.1626	50/50	1.1626
964471	AG1-310 C	2.3390	50/50	2.3390
964472	AG1-310 E	1.1520	50/50	1.1520
964791	AG1-342 C	5.2562	50/50	5.2562
964792	AG1-342 E	4.1299	50/50	4.1299
964821	AG1-345 C	1.9134	50/50	1.9134
964822	AG1-345 E	1.2756	50/50	1.2756
964841	AG1-347 C	23.7149	50/50	23.7149
964842	AG1-347 E	18.6331	50/50	18.6331
964931	AG1-357 C O2	31.6092	50/50	31.6092
964932	AG1-357 E O2	21.0728	50/50	21.0728
965191	AG1-384 C	4.9517	50/50	4.9517
965192	AG1-384 E	1.4707	50/50	1.4707
965281	AG1-393 C	4.7948	50/50	4.7948
965282	AG1-393 E	3.1966	50/50	3.1966
965451	AG1-413 C O2	6.8079	50/50	6.8079
965452	AG1-413 E O2	4.5386	50/50	4.5386
965591	AG1-427 C	18.2158	50/50	18.2158
965592	AG1-427 E	12.1695	50/50	12.1695

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965601	AG1-428 C O2	1.6321	Adder	3.62
965602	AG1-428 E O2	1.0862	Adder	2.41
965641	AG1-432 C O2	60.3960	50/50	60.3960
965642	AG1-432 E O2	40.2640	50/50	40.2640
965721	AG1-440 C	2.9154	Adder	6.47
965722	AG1-440 E	1.9436	Adder	4.31
965731	AG1-441 C	2.9154	Adder	6.47
965732	AG1-441 E	1.9436	Adder	4.31
965771	AG1-445	1.6844	Adder	3.74
965781	AG1-446	1.6844	Adder	3.74
965831	AG1-451	10.0660	50/50	10.0660
966361	AG1-505 C	27.1179	50/50	27.1179
966362	AG1-505 E	18.0786	50/50	18.0786
966371	AG1-506 C	27.1179	50/50	27.1179
966372	AG1-506 E	18.0786	50/50	18.0786
966792	AG1-550 BAT	2.7905	Merchant Transmission	2.7905
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	7.8628	50/50	7.8628
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	5.2418	50/50	5.2418
WEC	WEC	0.3062	Confirmed LTF	0.3062
LGEE	LGEE	0.6302	Confirmed LTF	0.6302
CPLE	CPLE	3.7169	Confirmed LTF	3.7169
CBM-W2	CBM-W2	13.9328	Confirmed LTF	13.9328
NY	NY	0.4053	Confirmed LTF	0.4053
TVA	TVA	2.6614	Confirmed LTF	2.6614
O-066	O-066	5.6128	Confirmed LTF	5.6128
SIGE	SIGE	0.2010	Confirmed LTF	0.2010
CBM-S2	CBM-S2	42.7309	Confirmed LTF	42.7309
CBM-S1	CBM-S1	0.6604	Confirmed LTF	0.6604
G-007	G-007	0.8820	Confirmed LTF	0.8820
MEC	MEC	1.8655	Confirmed LTF	1.8655
LAGN	LAGN	3.3058	Confirmed LTF	3.3058
AA2-074	AA2-074	2.4547	LTF	2.4547
CBM-W1	CBM-W1	12.7582	Confirmed LTF	12.7582

13.6 Contingency Descriptions - Secondary POI

Contingency Name	Contingency Definition
DVP_P7-1: LN 181-2027	CONTINGENCY 'DVP_P7-1: LN 181-2027' /* . OPEN BRANCH FROM BUS 314321 TO BUS 314447 CKT 1 /* 3LITLECREEK 115.00 - 3BURTN67 115.00 OPEN BRANCH FROM BUS 314321 TO BUS 314488 CKT 1 /* 3LITLECREEK 115.00 - 3OAKWOOD 115.00 OPEN BUS 314321 /* ISLAND: 3LITLECREEK 115.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 933500 CKT 1 /* 6CARTERV 230.00 - AC2-165 TAP 230.00 OPEN BRANCH FROM BUS 314310 TO BUS 314322 CKT 1 /* 6JUDES F 230.00 - 6MDLTHAN 230.00 OPEN BRANCH FROM BUS 314310 TO BUS 314333 CKT 1 /* 6JUDES F 230.00 - 6POWHATN 230.00 OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 /* 6POWHATN 230.00 - AC2-165 TAP 230.00 OPEN BUS 313868 /* ISLAND: 6CARTERV 230.00 OPEN BUS 314310 /* ISLAND: 6JUDES F 230.00 OPEN BUS 314333 /* ISLAND: 6POWHATN 230.00 OPEN BUS 923862 /* ISLAND: AB2-026 E 230.00 OPEN BUS 938561 /* ISLAND: AE1-075 C 230.00 OPEN BUS 938562 /* ISLAND: AE1-075 E 230.00 OPEN BUS 933500 /* ISLAND: AC2-165 TAP 230.00 OPEN BUS 933501 /* ISLAND: AC2-165 C 230.00 OPEN BUS 933502 /* ISLAND: AC2-165 E 230.00 END

Contingency Name	Contingency Definition
DVP_P4-6: CHASE C T342	CONTINGENCY 'DVP_P4-6: CHASE C T342' / 244 OPEN BRANCH FROM BUS 313849 TO BUS 314267 CKT 1 / 313849 3RIDGERD 115 314267 3CHASCTY2 115 1 OPEN BRANCH FROM BUS 313898 TO BUS 314267 CKT 1 / 313898 3BUTCHER CRK 115 314267 3CHASCTY2 115 1 OPEN BRANCH FROM BUS 314267 TO BUS 314518 CKT 1 / 314267 3CHASCTY2 115 314518 3CHASC_1 115 1 OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 / 314267 3CHASCTY2 115 314669 3BARNES J 115 1 OPEN BRANCH FROM BUS 314267 TO BUS 314681 CKT Z1 / 314267 3CHASCTY2 115 314681 3CHASCTY 115 Z1 OPEN BRANCH FROM BUS 313529 TO BUS 314681 CKT 1 / 313529 3BLUE STONE 115 314681 3CHASCTY 115 1 OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 / 313806 3HERBERT 115 314681 3CHASCTY 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 314708 CKT 1 / 314681 3CHASCTY 115 314708 3NORVIEW 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 314781 CKT 1 / 314681 3CHASCTY 115 314781 3BLACKBR 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 942451 CKT 1 / 314681 3CHASCTY 115 942451 AE2-258 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 965590 CKT 1 / 314681 3CHASCTY 115 965590 AG1-427 TAP 115 1 OPEN BRANCH FROM BUS 313527 TO BUS 924022 CKT 1 / 313527 AB2-043 C 0.55 924022 AB2-043 E O1 0.55 1 OPEN BRANCH FROM BUS 313528 TO BUS 313527 CKT 1 / 313528 AB2-043 COL 34.5 313527 AB2-043 C 0.55 1 OPEN BRANCH FROM BUS 313529 TO BUS 313528 CKT 1 / 313529 3BLUE STONE 115 313528 AB2-043 COL 34.5 1 END
DVP_P1-2: LN 90	CONTINGENCY 'DVP_P1-2: LN 90' OPEN BRANCH FROM BUS 314265 TO BUS 314584 CKT 1 /* 3FIVEFORKSDP115.00 - 3LITTLTN 115.00 OPEN BRANCH FROM BUS 314265 TO BUS 314673 CKT 1 /* 3FIVEFORKSDP115.00 - 3PALMERSPRNG115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314584 TO BUS 314585 CKT 1 /* 3LITTLTN 115.00 - 3L GASTN 115.00 OPEN BUS 314265 /* ISLAND: 3FIVEFORKSDP115.00 OPEN BUS 314584 /* ISLAND: 3LITTLTN 115.00 OPEN BUS 314585 /* ISLAND: 3L GASTN 115.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 22-90	CONTINGENCY 'DVP_P7-1: LN 22-90' /* . OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 314571 TO BUS 316125 CKT 1 /* 3EATON F 115.00 - AC1-054 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 316125 CKT 1 /* 3KERR 115.00 - AC1-054 TAP 115.00 OPEN BUS 314571 /* ISLAND: 3EATON F 115.00 OPEN BUS 316125 /* ISLAND: AC1-054 TAP 115.00 OPEN BUS 316126 /* ISLAND: AC1-054 MAIN115.00 OPEN BUS 316127 /* ISLAND: AC1-054 COL222.860 OPEN BUS 316128 /* ISLAND: AC1-054 COL122.860 OPEN BUS 316129 /* ISLAND: AC1-054 C 0.3850 OPEN BUS 925785 /* ISLAND: AC1-054 E 0.3850 OPEN BRANCH FROM BUS 314265 TO BUS 314584 CKT 1 /* 3FIVEFORKSDP115.00 - 3LITTLTN 115.00 OPEN BRANCH FROM BUS 314265 TO BUS 314673 CKT 1 /* 3FIVEFORKSDP115.00 - 3PALMERSPRNG115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314584 TO BUS 314585 CKT 1 /* 3LITTLTN 115.00 - 3L GASTN 115.00 OPEN BUS 314265 /* ISLAND: 3FIVEFORKSDP115.00 OPEN BUS 314584 /* ISLAND: 3LITTLTN 115.00 OPEN BUS 314585 /* ISLAND: 3L GASTN 115.00 END
DVP_P2-2: BREMO B1	CONTINGENCY 'DVP_P2-2: BREMO B1' /* BREMO 230 KV OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END

Contingency Name	Contingency Definition
DVP_P2-2: BREMO B4	CONTINGENCY 'DVP_P2-2: BREMO B4' /* BREMO 115 KV OPEN BRANCH FROM BUS 313871 TO BUS 313874 CKT 1 /* 3COBBS CREEK115.00 - 3JAMES RI TP115.00 OPEN BRANCH FROM BUS 313871 TO BUS 314762 CKT 1 /* 3COBBS CREEK115.00 - 3JAMES R 115.00 OPEN BRANCH FROM BUS 313874 TO BUS 313875 CKT 1 /* 3JAMES RI TP115.00 - 3TRICESLK 115.00 OPEN BRANCH FROM BUS 313874 TO BUS 314744 CKT 1 /* 3JAMES RI TP115.00 - 3BREMO 115.00 OPEN BUS 313871 /* ISLAND: 3COBBS CREEK115.00 OPEN BUS 313874 /* ISLAND: 3JAMES RI TP115.00 OPEN BUS 313875 /* ISLAND: 3TRICESLK 115.00 OPEN BUS 314762 /* ISLAND: 3JAMES R 115.00 OPEN BRANCH FROM BUS 313708 TO BUS 314744 CKT 1 /* 3FORK UNION 115.00 - 3BREMO 115.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 END
DVP_P4-2: L5T68	CONTINGENCY 'DVP_P4-2: L5T68' / 388 OPEN BRANCH FROM BUS 314536 TO BUS 961850 CKT 1 / 314536 3SUFFOLK 115 961850 AG1-027 TAP 115 1 OPEN BRANCH FROM BUS 314537 TO BUS 314536 CKT 2 / 314537 6SUFFOLK 230 314536 3SUFFOLK 115 2 END
DVP_P7-1: LN 2058-2181	CONTINGENCY 'DVP_P7-1: LN 2058-2181' /* . OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
314333 6POWHATN 230 933500 AC2-165 TAP 230 1	CONTINGENCY '314333 6POWHATN 230 933500 AC2-165 TAP 230 1' OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 END
DVP_P1-3: 6SEDGE HILL-TX#1	CONTINGENCY 'DVP_P1-3: 6SEDGE HILL-TX#1' / 857 OPEN BRANCH FROM BUS 314696 TO BUS 314697 CKT 1 / 314696 3SEDGE HILL 115 314697 6SEDGE HILL 230 1 END

Contingency Name	Contingency Definition
DVP_P4-2: 201262	CONTINGENCY 'DVP_P4-2: 201262' / 173 OPEN BRANCH FROM BUS 314569 TO BUS 936400 CKT 1 / 314569 6EARLEYS 230 936400 AD2-051 TAP 230 1 OPEN BRANCH FROM BUS 314568 TO BUS 314569 CKT 1 / 314568 3EARLEYS 115 314569 6EARLEYS 230 1 END
DVP_P4-2: 2028T2054	CONTINGENCY 'DVP_P4-2: 2028T2054' / 952 OPEN BRANCH FROM BUS 314765 TO BUS 961060 CKT 1 / 314765 6MTEAGLE 230 961060 AF2-397 TAP 230 1 OPEN BRANCH FROM BUS 314749 TO BUS 314765 CKT 1 / 314749 6CHARLVL 230 314765 6MTEAGLE 230 1 OPEN BRANCH FROM BUS 314765 TO BUS 926451 CKT 1 / 314765 6MTEAGLE 230 926451 AC1-116 C 230 1 OPEN BRANCH FROM BUS 926451 TO BUS 926452 CKT 1 / 926451 AC1-116 C 230 926452 AC1-116 E 230 1 OPEN BRANCH FROM BUS 314749 TO BUS 314772 CKT 1 / 314749 6CHARLVL 230 314772 6PROFFIT 230 1 OPEN BRANCH FROM BUS 314759 TO BUS 314772 CKT 1 / 314759 6HOLLYMD 230 314772 6PROFFIT 230 1 END
DVP_P4-2: 1T158	CONTINGENCY 'DVP_P4-2: 1T158' / 330 OPEN BRANCH FROM BUS 314426 TO BUS 314701 CKT 1 / 314426 3FT PKET 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314426 TO BUS 963641 CKT 1 / 314426 3FT PKET 115 963641 AG1-215 C 115 1 OPEN BRANCH FROM BUS 314426 TO BUS 965281 CKT 1 / 314426 3FT PKET 115 965281 AG1-393 C 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 / 313755 3FLAT CREEK 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 / 313755 3FLAT CREEK 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 / 314519 3LONEPINE_1 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 END
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' / 187 OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 / 313725 6DRY BREAD 230 314563 6CLUBHSE 230 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 45	CONTINGENCY 'DVP_P1-2: LN 45' / 1588 OPEN BRANCH FROM BUS 304099 TO BUS 304102 CKT 1 / 304099 3WARREN TAP 115 304102 3GW KING TAP 115 1 OPEN BRANCH FROM BUS 304099 TO BUS 304107 CKT 1 / 304099 3WARREN TAP 115 304107 3WARRENTN BU 115 1 OPEN BRANCH FROM BUS 304099 TO BUS 305640 CKT 1 / 304099 3WARREN TAP 115 305640 3BULLOKSOLTA 115 1 OPEN BRANCH FROM BUS 304089 TO BUS 304100 CKT 1 / 304089 3HEND
DVP_P1-2: LN 1045	CONTINGENCY 'DVP_P1-2: LN 1045' / 212 OPEN BRANCH FROM BUS 313898 TO BUS 314267 CKT 1 / 313898 3BUTCHER CRK 115 314267 3CHASCTY2 115 1 END
DVP_P1-2: LN 33-A	CONTINGENCY 'DVP_P1-2: LN 33-A' / 937 OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 / 314267 3CHASCTY2 115 314669 3BARNES J 115 1 OPEN BRANCH FROM BUS 314669 TO BUS 962560 CKT 1 / 314669 3BARNES J 115 962560 AG1-105 TAP 115 1 END
DVP_P1-2: LN 238-A	CONTINGENCY 'DVP_P1-2: LN 238-A' OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2- 033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 END
DVP_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2028-B-1	CONTINGENCY 'DVP_P1-2: LN 2028-B-1' / 729 OPEN BRANCH FROM BUS 314765 TO BUS 961060 CKT 1 / 314765 6MTEAGLE 230 961060 AF2-397 TAP 230 1 OPEN BRANCH FROM BUS 314749 TO BUS 314765 CKT 1 / 314749 6CHARLVL 230 314765 6MTEAGLE 230 1 OPEN BRANCH FROM BUS 314765 TO BUS 926451 CKT 1 / 314765 6MTEAGLE 230 926451 AC1-116 C 230 1 OPEN BRANCH FROM BUS 926451 TO BUS 926452 CKT 1 / 926451 AC1-116 C 230 926452 AC1-116 E 230 1 END
DVP_P1-2: LN 158	CONTINGENCY 'DVP_P1-2: LN 158' / 367 OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 / 313755 3FLAT CREEK 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 / 313755 3FLAT CREEK 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 / 314519 3LONEPINE_1 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 END
DVP_P1-2: LN 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 31-A	CONTINGENCY 'DVP_P1-2: LN 31-A' / 285 OPEN BRANCH FROM BUS 314666 TO BUS 314712 CKT 1 / 314666 3ALTVSTA 115 314712 3OTTER R 115 1 OPEN BRANCH FROM BUS 314694 TO BUS 314712 CKT 1 / 314694 3GRIT 115 314712 3OTTER R 115 1 OPEN BRANCH FROM BUS 314694 TO BUS 942750 CKT 1 / 314694 3GRIT 115 942750 AE2-291 TAP 115 1 END
AEP_P2-2_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P2-2_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END

Contingency Name	Contingency Definition
DVP_P4-6: CAROLIN T122	CONTINGENCY 'DVP_P4-6: CAROLIN T122' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 315126 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP2 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 315128 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP4 14.400 OPEN BUS 315126 /* ISLAND: 1ROARAP2 14.400 OPEN BUS 315128 /* ISLAND: 1ROARAP4 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314578 CKT 1 /* 3CAROLNA 115.00 - 3HORNRTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 OPEN BUS 314559 /* 3CAROLNA 115.00 KV OPEN BUS 314835 /* ISLAND: 3CAROL_1 115.00 END
DVP_P1-2: LN 556-B-C	CONTINGENCY 'DVP_P1-2: LN 556-B-C' OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P1-2: LN 556-B-B	CONTINGENCY 'DVP_P1-2: LN 556-B-B' OPEN BRANCH FROM BUS 964240 TO BUS 966360 CKT 1 /* AG1-285 TAP 500.00 - AG1-505 TAP 500.00 END
DVP_P1-2: LN 556-B-A	CONTINGENCY 'DVP_P1-2: LN 556-B-A' OPEN BRANCH FROM BUS 945810 TO BUS 964240 CKT 1 /* AF1-246 TAP 500.00 - AG1-285 TAP 500.00 END

Contingency Name	Contingency Definition
DVP_P4-2: 23872	CONTINGENCY 'DVP_P4-2: 23872' /* CARSON 230 KV OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2- 033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 OPEN BUS 314455 /* 6CARSO_1 230.00 KV END
DVP_P4-2: 556T591	CONTINGENCY 'DVP_P4-2: 556T591' /* RAWLINGS 500 KV OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 OPEN BRANCH FROM BUS 314935 TO BUS 314936 CKT 1 /* 8HERITAGE 500.00 - 8RAWLINGS 500.00 END
AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1' / 1492 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
DVP_P1-2: LN 68-A	CONTINGENCY 'DVP_P1-2: LN 68-A' / 353 OPEN BRANCH FROM BUS 313737 TO BUS 314527 CKT 1 / 313737 3COPELD DP 115 314527 3HOLLAND 115 1 OPEN BRANCH FROM BUS 313737 TO BUS 961850 CKT 1 / 313737 3COPELD DP 115 961850 AG1-027 TAP 115 1 OPEN BRANCH FROM BUS 314527 TO BUS 938770 CKT 1 / 314527 3HOLLAND 115 938770 AE1-103 TAP 115 1 END
DVP_P1-2: LN 298-B	CONTINGENCY 'DVP_P1-2: LN 298-B' OPEN BRANCH FROM BUS 966860 TO BUS 314692 CKT 1 /* AG1-557 TAP 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 END
Base Case	

Contingency Name	Contingency Definition
DVP_P7-1: LN 158-1007-A	CONTINGENCY 'DVP_P7-1: LN 158-1007-A' /* . OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 /* 3FLAT CREEK 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 /* 3FLAT CREEK 115.00 - 3MORAN 115.00 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 /* 3LONEPINE_1 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 /* 3FARMVIL 115.00 - 3MORAN 115.00 OPEN BUS 313755 /* ISLAND: 3FLAT CREEK 115.00 OPEN BUS 314519 /* ISLAND: 3LONEPINE_1 115.00 OPEN BUS 314707 /* ISLAND: 3MORAN 115.00 OPEN BRANCH FROM BUS 946300 TO BUS 314429 CKT 1 /* AF1-294 TAP 115.00 - 3JTRSVLE 115.00 OPEN BRANCH FROM BUS 314428 TO BUS 314429 CKT 1 /* 3HOOPERS 115.00 - 3JTRSVLE 115.00 OPEN BRANCH FROM BUS 314428 TO BUS 314701 CKT 1 /* 3HOOPERS 115.00 - 3LONEPN 115.00 OPEN BUS 314428 /* ISLAND: 3HOOPERS 115.00 OPEN BUS 314429 /* ISLAND: 3JTRSVLE 115.00 END
DVP_P4-2: 202712	CONTINGENCY 'DVP_P4-2: 202712' / 723 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 / 313868 6CARTERV 230 314747 6BREMO 230 1 OPEN BRANCH FROM BUS 313868 TO BUS 933500 CKT 1 / 313868 6CARTERV 230 933500 AC2-165 TAP 230 1 OPEN BRANCH FROM BUS 314310 TO BUS 314322 CKT 1 / 314310 6JUDES F 230 314322 6MDLTHAN 230 1 OPEN BRANCH FROM BUS 314310 TO BUS 314333 CKT 1 / 314310 6JUDES F 230 314333 6POWHATN 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 / 314333 6POWHATN 230 933500 AC2-165 TAP 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 923862 CKT 1 / 314333 6POWHATN 230 923862 AB2-026 E 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 938561 CKT 1 / 314333 6POWHATN 230 938561 AE1-075 C 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 958501 CKT 1 / 314333 6POWHATN 230 958501 AF2-144 C 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 959531 CKT 1 / 314333 6POWHATN 230 959531 AF2-244 C 230 1 OPEN BRANCH FROM BUS 938561 TO BUS 938562 CKT 1 / 938561 AE1-075 C 230 938562 AE1-075 E 230 1 OPEN BRANCH FROM BUS 933500 TO BUS 933501 CKT 1 / 933500 AC2-165 TAP 230 933501 AC2-165 C 230 1 OPEN BRANCH FROM BUS 933501 TO BUS 933502 CKT 1 / 933501 AC2-165 C 230 933502 AC2-165 E 230 1 END
314435 6SAPONY 230 940480 AE2-033 TAP 230 1	CONTINGENCY '314435 6SAPONY 230 940480 AE2-033 TAP 230 1' OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 END

Contingency Name	Contingency Definition
DVP_P4-2: 15832	CONTINGENCY 'DVP_P4-2: 15832' / 473 OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 / 313755 3FLAT CREEK 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 / 313755 3FLAT CREEK 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 / 314519 3LONEPINE_1 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 / 314691 3FARMVIL 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 / 314691 3FARMVIL 115 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 / 314691 3FARMVIL 115 314692 6FARMVIL 230 2 END
DVP_P1-2: LN 2193	CONTINGENCY 'DVP_P1-2: LN 2193' / 583 OPEN BRANCH FROM BUS 313707 TO BUS 313867 CKT 1 / 313707 6FORK UNION 230 313867 6BREMODIST 230 1 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 / 313867 6BREMODIST 230 314747 6BREMO 230 1 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 158-235	CONTINGENCY 'DVP_P7-1: LN 158-235' /* . OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 /* 3FLAT CREEK 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 /* 3FLAT CREEK 115.00 - 3MORAN 115.00 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 /* 3LONEPINE_1 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 /* 3FARMVIL 115.00 - 3MORAN 115.00 OPEN BUS 313755 /* ISLAND: 3FLAT CREEK 115.00 OPEN BUS 314519 /* ISLAND: 3LONEPINE_1 115.00 OPEN BUS 314707 /* ISLAND: 3MORAN 115.00 OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 /* 6PRINCE EDW 230.00 - 6BRIERY 230.00 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 /* 6PRINCE EDW 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 /* 6BRIERY 230.00 - AG1-347 TAP 230.00 OPEN BRANCH FROM BUS 314686 TO BUS 934620 CKT 1 /* 6CLOVER 230.00 - AD1-088 TAP 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 OPEN BUS 313802 /* ISLAND: 6PRINCE EDW 230.00 OPEN BUS 314268 /* ISLAND: 6BRIERY 230.00 OPEN BUS 934620 /* ISLAND: AD1-088 TAP 230.00 OPEN BUS 934621 /* ISLAND: AD1-088 MAIN230.00 OPEN BUS 934622 /* ISLAND: AD1-088 COL134.500 OPEN BUS 934623 /* ISLAND: AD1-088 TER 13.800 OPEN BUS 934624 /* ISLAND: AD1-088 COL234.500 OPEN BUS 934625 /* ISLAND: AD1-088 C 0.6600 OPEN BUS 934626 /* ISLAND: AD1-088 E 0.6600 END
DVP_P4-2: 511T556	CONTINGENCY 'DVP_P4-2: 511T556' /* RAWLINGS 500 KV OPEN BRANCH FROM BUS 942930 TO BUS 314936 CKT 1 /* AE2-313 TAP 500.00 - 8RAWLINGS 500.00 OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P4-2: 562T563	CONTINGENCY 'DVP_P4-2: 562T563' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 940640 CKT 1 /* 8CARSON 500.00 - AE2-051 TAP 500.00 OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 235-A	CONTINGENCY 'DVP_P1-2: LN 235-A' / 450 OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 / 313802 6PRINCE EDW 230 314268 6BRIERY 230 1 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 / 313802 6PRINCE EDW 230 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 / 314268 6BRIERY 230 964840 AG1-347 TAP 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 / 314691 3FARMVIL 115 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314268 TO BUS 963271 CKT 1 / 314268 6BRIERY 230 963271 AG1-176 C O2 230 1 END
DVP_P1-2: LN 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' / 1410 OPEN BRANCH FROM BUS 314569 TO BUS 936400 CKT 1 / 314569 6EARLEYS 230 936400 AD2-051 TAP 230 1 END
DVP_P4-2: 24972-4	CONTINGENCY 'DVP_P4-2: 24972-4' / 1024 OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 / 314282 6CARSON 230 314285 6CHRL249 230 1 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 / 314285 6CHRL249 230 314316 6LOCKS 230 1 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 / 314314 3LOCKS 115 314316 6LOCKS 230 2 OPEN BRANCH FROM BUS 314902 TO BUS 314282 CKT 1 / 314902 8CARSON 500 314282 6CARSON 230 1 OPEN BRANCH FROM BUS 314282 TO BUS 314455 CKT 1 / 314282 6CARSON 230 314455 6CARSO_1 230 1 END
DVP_P4-2: 13002	CONTINGENCY 'DVP_P4-2: 13002' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314595 TO BUS 314600 CKT 1 /* 3PL HILL 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314600 TO BUS 314615 CKT 1 /* 3PLHITP 115.00 - 3SKIPPER 115.00 OPEN BUS 314595 /* ISLAND: 3PL HILL 115.00 OPEN BUS 314600 /* ISLAND: 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 END

14 Affected Systems

14.1 TVA

TVA Impacts to be determined during later study phases (as applicable).

14.2 Duke Energy Progress

Duke Energy Progress Impacts to be determined during later study phases (as applicable).

15 Attachment 1: One Line Diagram