



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-427
CHASE CITY-DRAKES BRANCH 115 KV
71.136 MW Capacity / 118.56 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 118.56 MW with 71.136 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is December 31, 2024. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-427
Project Name	CHASE CITY-DRAKES BRANCH 115 KV
State	Virginia
County	Mecklenburg
Transmission Owner	Dominion
MFO	118.6
MWE	118.56
MWC	71.136
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

AG1-427 "Chase City-Drakes Branch 115 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 115 kV three breaker ring bus located on the line between the Chase City substation and Drakes Branch 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

There is no secondary point of interconnection specified for AG1-427.

5 Cost Summary

The AG1-427 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$8,800,000
Total System Network Upgrade Costs	\$668,698,500 ¹
Total Costs	\$677,498,500

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 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.

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.

6 Transmission Owner Scope of Work

The required Attachment Facilities, Direct Connection and Non-Direct Connection work for the interconnection of AG1-427 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>	\$1,700,000
<i>115 kV Three Breaker Ring-Bus Substation</i>	\$5,500,000
<i>Re-arrange line and tie-in new substation</i>	\$1,600,000
Total Physical Interconnection Costs	\$8,800,000

AG1-427 "Chase City-Drakes Branch 115 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 115 kV three breaker ring bus located on the line between the Chase City substation and Drakes Branch 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 AG1-427 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

The Queue Project AG1-427 was evaluated as a 118.6 MW (Capacity 71.1 MW) injection tapping the Chase City to Central 115 kV line in the Dominion area. Project AG1-427 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-427 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	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPAC T
168518446	313825	3PLYWOOD	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P 1-2: LN 45	single	141.0	97.52	103.27	DC	8.1
169243571	314679	3CENTRAL	115.0	DVP	314722	3TWITTYS	115.0	DVP	1	DVP_P 1-2: LN 1012-D	single	269.779998779	87.55	113.91	DC	71.1
169243592	314722	3TWITTYS	115.0	DVP	959310	AF2-222 TAP	115.0	DVP	1	DVP_P 1-2: LN 1012-D	single	331.820007324	90.01	111.44	DC	71.1
169459182	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P 1-2: LN 40-A	single	331.820007324	98.46	103.66	DC	17.26
169459183	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P 1-2: LN 71	single	331.820007324	98.4	103.6	DC	17.26
169243566	963320	AG1-181 TAP	115.0	DVP	314679	3CENTRAL	115.0	DVP	1	DVP_P 1-2: LN 1012-D	single	269.779998779	88.96	115.32	DC	71.1

11.2 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	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPAC T
166980270	314267	3CHASCTY 2	115.0	DVP	314669	3BARNES J	115.0	DVP	1	DVP_P7 -1: LN 158-235	tower	406.0	97.77	104.74	DC	28.38
166980234	314665	3CLRK TAP	115.0	DVP	314699	3ISLND C	115.0	DVP	1	DVP_P7 -1: LN 171-1009	tower	208.0	99.7	107.31	DC	15.82
166980276	314669	3BARNES J	115.0	DVP	314684	3MT LREL	115.0	DVP	1	DVP_P7 -1: LN 158-235	tower	406.0	96.91	103.88	DC	28.38
166980217	314781	3BLACKBR	115.0	DVP	314788	3JONEST O	115.0	DVP	1	DVP_P7 -1: LN 137-1041	tower	301.0	91.86	100.27	DC	25.3

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 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
168234 319	2426 31	05EDAN 1	138 .0	AEP	2426 20	05DANVL2	138 .0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	129.39	130.65	DC	5.12
168234 320	2426 31	05EDAN 1	138 .0	AEP	2426 20	05DANVL2	138 .0	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	129.39	130.65	DC	5.12
168234 321	2426 31	05EDAN 1	138 .0	AEP	2426 20	05DANVL2	138 .0	AEP	1	Base Case	single	275.0	119.3	120.83	DC	4.27
166980 206	3137 05	3KERRDP	115 .0	DVP	3147 02	3KERR	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	195.0	105.43	113.54	DC	15.82
168518 291	3137 07	6FORK UNION	230 .0	DVP	9610 60	AF2-397 TAP	230 .0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009 766	153.88	155.47	DC	10.53
168518 292	3137 07	6FORK UNION	230 .0	DVP	9610 60	AF2-397 TAP	230 .0	DVP	1	DVP_P1-2: LN 2027	single	661.760009 766	150.07	151.66	DC	10.53
168518 294	3137 07	6FORK UNION	230 .0	DVP	9610 60	AF2-397 TAP	230 .0	DVP	1	Base Case	single	661.760009 766	102.4	103.65	DC	8.41
168518 430	3137 25	6DRY BREAD	230 .0	DVP	3145 83	6LAKEVEW	230 .0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	375.059997 559	107.27	109.01	DC	6.52
168518 431	3137 25	6DRY BREAD	230 .0	DVP	3145 83	6LAKEVEW	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	375.059997 559	107.27	109.01	DC	6.52
168518 232	3137 55	3FLAT CREEK	115 .0	DVP	3147 07	3MORAN	115 .0	DVP	1	Base Case	single	203.979995 728	122.36	126.22	DC	7.89
168518 444	3138 25	3PLYWOOD	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DVP	1	DVP_P1-2: LN 33	single	141.0	107.74	115.13	DC	10.42
168518 313	3138 67	6BREMIST	230 .0	DVP	3137 07	6FORK UNION	230 .0	DVP	1	314433 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009 766	153.21	154.94	DC	11.48
168518 314	3138 67	6BREMIST	230 .0	DVP	3137 07	6FORK UNION	230 .0	DVP	1	DVP_P1-2: LN 2027	single	661.760009 766	149.04	150.78	DC	11.48
168518 316	3138 67	6BREMIST	230 .0	DVP	3137 07	6FORK UNION	230 .0	DVP	1	Base Case	single	661.760009 766	100.27	101.65	DC	9.16
163338 987	3138 68	6CARTERV	230 .0	DVP	9335 00	AC2-165 TAP	230 .0	DVP	1	DVP_P7-1: LN 5-2028-C	towe r	980.0	109.89	111.22	DC	13.0
168823 455	3142 66	6NORTHAMP TON	230 .0	DVP	9364 00	AD2-051 TAP	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	571.520019 531	106.11	107.14	DC	5.88
168823 456	3142 66	6NORTHAMP TON	230 .0	DVP	9364 00	AD2-051 TAP	230 .0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	571.520019 531	106.09	107.12	DC	5.88
163338 941	3143 10	6JUDES F	230 .0	DVP	3143 22	6MDLTHAN	230 .0	DVP	1	DVP_P7-1: LN 5-2028-C	towe r	980.0	118.52	119.85	DC	12.98
163338 936	3143 33	6POWHATN	230 .0	DVP	3143 10	6JUDES F	230 .0	DVP	1	DVP_P7-1: LN 5-2028-C	towe r	980.0	118.64	119.96	DC	12.98
163338 835	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DVP	1	DVP_P7-1: LN 54-2012-B	towe r	830.0	155.14	156.05	DC	16.64
163338 836	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DVP	1	DVP_P7-1: LN 54-2012-A	towe r	830.0	155.06	155.96	DC	16.64
168823 284	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992 676	142.76	144.17	DC	9.56

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
168823 285	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DVP	1	314266 6NORTHAMP TON 230 936400 AD2-051 TAP 230 1	single	678.679992 676	139.74	141.15	DC	9.56
168823 286	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DVP	1	Base Case	single	678.679992 676	124.73	125.99	DC	8.57
169033 576	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DVP	1	DVP_P1-2: LN 68-A	single	239.888000 488	132.77	135.35	DC	6.19
169033 577	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DVP	1	DVP_P1-2: LN 140	single	239.888000 488	127.21	129.79	DC	6.2
169033 578	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DVP	1	Base Case	single	226.539993 286	106.57	109.08	DC	5.68
169033 680	3145 61	6CAROLNA	230 .0	DVP	3145 99	6ROA VAL	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	548.020019 531	109.31	110.38	DC	5.88
169033 681	3145 61	6CAROLNA	230 .0	DVP	3145 99	6ROA VAL	230 .0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	548.020019 531	109.29	110.36	DC	5.88
169033 521	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	DVP_P1-2: LN 2201	single	182.641998 291	216.44	221.16	DC	8.62
169033 522	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	DVP_P1-2: LN 130	single	182.641998 291	168.25	173.5	DC	9.59
169033 523	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	Base Case	single	176.814010 62	155.29	160.17	DC	8.63
163338 581	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	141.34	142.2	DC	15.76
163338 840	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	147.73	148.54	DC	14.91
163338 841	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	135.74	136.54	DC	14.69
169033 620	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P1-2: LN 2056-A	single	678.679992 676	129.26	130.39	DC	9.39
169033 621	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992 676	124.88	126.24	DC	9.57
169033 622	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	Base Case	single	678.679992 676	112.36	113.55	DC	8.58
169033 636	3145 79	6HORNRTN	230 .0	DVP	9343 30	AD1-057 TAP	230 .0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	441.799987 793	125.06	126.23	DC	5.17
169033 637	3145 79	6HORNRTN	230 .0	DVP	9343 30	AD1-057 TAP	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	441.799987 793	125.03	126.2	DC	5.17
168823 419	3145 99	6ROA VAL	230 .0	DVP	3142 66	6NORTHAMP TON	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	548.020019 531	109.25	110.33	DC	5.88
168823 420	3145 99	6ROA VAL	230 .0	DVP	3142 66	6NORTHAMP TON	230 .0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	548.020019 531	109.23	110.31	DC	5.88
169243 479	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019 531	216.06	219.24	DC	18.18
169243 480	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019 531	209.77	212.95	DC	18.18
169243 482	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DVP	1	Base Case	single	571.520019 531	125.63	128.16	DC	14.41
169243 570	3146 79	3CENTRAL	115 .0	DVP	3147 22	3TWITTYS	115 .0	DVP	1	DVP_P1-2: LN 1012-E	single	269.779998 779	115.35	141.71	DC	71.1
166980 238	3146 81	3CHASCTY	115 .0	DVP	3147 81	3BLACKBR	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	301.0	103.6	112.01	DC	25.3
166980 228	3146 82	3BUGGS I	115 .0	DVP	3146 65	3CLRK TAP	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	208.0	101.05	108.66	DC	15.82

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
166980236	314683	3CLRKVILLE	115.0	DVP	314869	3BURLING	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	103.98	112.38	DC	25.3
166980253	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	101.0	107.97	DC	28.38
169243437	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P1-2: LN 235-A	single	182.641998291	263.8	273.44	DC	17.61
169243439	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P1-2: LN 1045	single	182.641998291	176.36	180.77	DC	8.06
169243440	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	Base Case	single	176.81401062	157.56	163.92	DC	11.24
169243448	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 298	single	198.057998657	174.1	181.69	DC	15.04
169243450	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 1045	single	198.057998657	125.3	128.58	DC	6.49
169243451	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	Base Case	single	193.734008789	112.04	116.72	DC	9.05
169243458	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	single	559.299987793	217.52	220.77	DC	18.19
169243459	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B	single	559.299987793	211.1	214.35	DC	18.19
169243461	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	single	559.299987793	125.66	128.24	DC	14.42
169243507	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	single	226.727996826	155.2	161.51	DC	14.3
169243509	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 31-A	single	226.727996826	117.98	122.51	DC	10.26
169243523	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.055999756	137.01	142.58	DC	14.26
169243525	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-2: LN 31-A	single	256.055999756	103.44	107.4	DC	10.16
169243485	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	674.91998291	195.48	197.9	DC	16.29
169243486	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	674.91998291	195.51	197.93	DC	16.29
166980218	314699	3ISLND C	115.0	DVP	313705	3KERRDP	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	202.0	102.66	110.5	DC	15.82
168518227	314701	3LONEPN	115.0	DVP	313755	3FLAT CREEK	115.0	DVP	1	Base Case	single	203.979995728	122.36	126.22	DC	7.89
163825709	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-6: CAROLIN T122	breaker	199.0	186.03	196.74	DC	21.66
163825710	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 13002	breaker	199.0	151.93	161.45	DC	18.91
163825711	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 102802	breaker	199.0	151.93	161.45	DC	18.91
163825922	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P1-2: LN 90	single	199.0	118.86	124.2	DC	10.63
163825923	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	Base Case	single	191.0	112.49	117.39	DC	9.37
163826584	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P7-1: LN 22-90	tower	199.0	182.62	193.16	DC	21.41
169243632	314702	3KERR	115.0	DVP	314673	3PALMERSPR NG	115.0	DVP	1	DVP_P1-2: LN 45	single	138.179992676	122.96	128.06	DC	7.04
169243633	314702	3KERR	115.0	DVP	314673	3PALMERSPR NG	115.0	DVP	1	EXT_304099 3WARREN TAP 115 304102 3GW KING TAP 115 1	single	138.179992676	122.39	127.48	DC	7.04
169243476	314707	3MORAN	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	single	203.979995728	118.93	122.79	DC	7.89
169243513	314713	3PAMPLIN	115.0	DVP	314726	3WILLIS	115.0	DVP	1	DVP_P1-2: LN 1012-D	single	331.820007324	150.53	171.96	DC	71.09
169243680	314714	3PERTH	115.0	DVP	942750	AE2-291 TAP	115.0	DVP	1	DVP_P1-2: LN 556-D	single	285.760009766	102.05	103.94	DC	5.41

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 LOAD NG %	POST PROJE CT LOAD NG %	AC/DC	MW IMPACT
169243681	314714	3PERTH	115.0	DVP	942750	AE2-291 TAP	115.0	DVP	1	DVP_P1-2: LN 556-C	single	285.760009766	102.05	103.94	DC	5.41
169243517	314715	3MADSONV	115.0	DVP	314713	3PAMPLIN	115.0	DVP	1	DVP_P1-2: LN 1012-D	single	331.820007324	145.88	167.31	DC	71.1
169243591	314722	3TWITTYS	115.0	DVP	959310	AF2-222 TAP	115.0	DVP	1	DVP_P1-2: LN 1012-E	single	331.820007324	112.58	134.01	DC	71.1
169243445	314726	3WILLIS	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	single	186.119995117	149.98	156.65	DC	12.41
163338973	314747	6BREMO	230.0	DVP	313868	6CARTERV	230.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	111.04	112.37	DC	13.0
169459147	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009766	155.37	157.11	DC	11.48
169459148	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	151.2	152.94	DC	11.48
169459150	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	Base Case	single	661.760009766	102.43	103.82	DC	9.16
169459164	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	single	269.779998779	143.97	145.91	DC	5.25
169459137	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009766	157.75	159.34	DC	10.53
169459138	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	153.96	155.55	DC	10.53
169459140	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	Base Case	single	661.760009766	104.78	106.03	DC	8.41
166980216	314781	3BLACKBR	115.0	DVP	314788	3JONESTO	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	107.96	116.37	DC	25.3
166980222	314788	3JONESTO	115.0	DVP	314683	3CLRKVILLE	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	106.6	115.01	DC	25.3
166980240	314869	3BURLING	115.0	DVP	314682	3BUGGS I	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	102.88	111.29	DC	25.3
166980175	316115	AC1-105 TAP	115.0	DVP	314696	3SEGE HILL	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	130.15	137.12	DC	28.38
163825876	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-D	single	718.0	195.72	197.99	DC	16.29
163825877	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-C	single	718.0	195.75	198.02	DC	16.29
163825882	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	Base Case	single	542.0	100.62	102.39	DC	9.58
163338951	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	116.85	118.17	DC	13.0
163338575	934620	AD1-088 TAP	230.0	DVP	962490	AG1-098 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	134.52	138.52	DC	27.99
169033672	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 238-A	single	571.520019531	113.62	114.65	DC	5.88
169033673	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	571.520019531	113.61	114.64	DC	5.88
163338820	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	156.08	156.9	DC	14.91
163338821	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	153.46	154.36	DC	16.64
169745878	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	140.36	141.7	DC	9.57

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
169745879	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	314266 6NORTHAMP TON 230 936400 AD2- 051 TAP 230 1	single	678.679992 676	137.35	138.68	DC	9.57
169745880	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	single	678.679992 676	123.92	125.18	DC	8.58
170028966	959310	AF2-222 TAP	115.0	DVP	314715	3MADSONV	115.0	DVP	1	DVP_P1-2: LN 1012-E	single	331.820007 324	142.72	164.14	DC	71.1
170028967	959310	AF2-222 TAP	115.0	DVP	314715	3MADSONV	115.0	DVP	1	DVP_P1-2: LN 1012-D	single	331.820007 324	120.15	141.57	DC	71.1
170028989	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009 766	161.32	162.92	DC	10.53
170028990	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009 766	157.52	159.11	DC	10.53
170028992	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	Base Case	single	661.760009 766	108.33	109.58	DC	8.41
163338520	962490	AG1-098 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	150.9	154.9	DC	27.99
169243580	962490	AG1-098 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P1-2: LN 298	single	571.520019 531	103.59	106.22	DC	15.04
163338596	963270	AG1-176 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	121.02	125.02	DC	27.99
169243565	963320	AG1-181 TAP	115.0	DVP	314679	3CENTRAL	115.0	DVP	1	DVP_P1-2: LN 1012-E	single	269.779998 779	116.76	143.12	DC	71.1
170028905	964240	AG1-285 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P1-2: LN 84	single	269.779998 779	212.95	239.3	DC	71.09
170028906	964240	AG1-285 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P1-2: LN 154-A	single	269.779998 779	175.54	201.89	DC	71.1
170028907	964240	AG1-285 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	Base Case	single	247.220001 221	161.35	185.08	DC	58.68
163338632	964840	AG1-347 TAP	230.0	DVP	963270	AG1-176 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	102.35	106.35	DC	27.99
170028940	965590	AG1-427 TAP	115.0	DVP	964240	AG1-285 TAP	115.0	DVP	1	DVP_P1-2: LN 84	single	269.779998 779	185.15	211.5	DC	71.09
170028941	965590	AG1-427 TAP	115.0	DVP	964240	AG1-285 TAP	115.0	DVP	1	DVP_P1-2: LN 154-A	single	269.779998 779	147.77	174.13	DC	71.1
170028942	965590	AG1-427 TAP	115.0	DVP	964240	AG1-285 TAP	115.0	DVP	1	Base Case	single	247.220001 221	136.17	159.91	DC	58.68
170028999	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009 766	161.29	162.89	DC	10.53
170029000	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009 766	157.51	159.1	DC	10.53
170029002	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	Base Case	single	661.760009 766	108.33	109.58	DC	8.41

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 PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168234 316	2426 31	05EDAN 1	138 .0	AEP	2426 20	05DANVL2	138 .0	AEP	1	AEP_P1-3_#1377_05J.FERR 765 1	operat ion	402.0	155.7 1	156.6 7	DC	8.55
168234 317	2426 31	05EDAN 1	138 .0	AEP	2426 20	05DANVL2	138 .0	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	operat ion	402.0	155.7 1	156.6 7	DC	8.55
168234 318	2426 31	05EDAN 1	138 .0	AEP	2426 20	05DANVL2	138 .0	AEP	1	Base Case	operat ion	275.0	135.3 7	136.5 4	DC	7.13
168518 289	3137 07	6FORK UNION	230 .0	DVP	9610 60	AF2-397 TAP	230 .0	DV P	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operat ion	661.76000 9766	185.5 2	188.1 8	DC	17.56
168518 293	3137 07	6FORK UNION	230 .0	DVP	9610 60	AF2-397 TAP	230 .0	DV P	1	Base Case	operat ion	661.76000 9766	126.3 6	128.4 8	DC	14.03
168518 428	3137 25	6DRY BREAD	230 .0	DVP	3145 83	6LAKEVEW	230 .0	DV P	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operat ion	375.05999 7559	142.9 4	144.2 4	DC	10.87
168518 429	3137 25	6DRY BREAD	230 .0	DVP	3145 83	6LAKEVEW	230 .0	DV P	1	DVP_P1-2: LN 238-A	operat ion	375.05999 7559	142.9 4	144.2 4	DC	10.87
168518 230	3137 55	3FLAT CREEK	115 .0	DVP	3147 07	3MORAN	115 .0	DV P	1	Base Case	operat ion	203.97999 5728	180.7 3	187.1 8	DC	13.15
168518 510	3137 55	3FLAT CREEK	115 .0	DVP	3147 01	3LONEPN	115 .0	DV P	1	DVP_P1-2: LN 1012-E	operat ion	203.97999 5728	104.4 6	113.8	DC	19.06
168518 563	3138 02	6PRINCE EDW	230 .0	DVP	3142 68	6BRIERY	230 .0	DV P	1	DVP_P1-2: LN 298	operat ion	571.52001 9531	95.87	100.2 6	DC	25.09
168518 443	3138 25	3PLYWOOD	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DV P	1	DVP_P1-2: LN 33	operat ion	141.0	119.8 2	125.3 9	DC	17.38
168518 311	3138 67	6BREMODIS T	230 .0	DVP	3137 07	6FORK UNION	230 .0	DV P	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operat ion	661.76000 9766	180.2	183.0 9	DC	19.15
168518 315	3138 67	6BREMODIS T	230 .0	DVP	3137 07	6FORK UNION	230 .0	DV P	1	Base Case	operat ion	661.76000 9766	124.6 8	126.9 9	DC	15.27
168518 454	3138 68	6CARTERV	230 .0	DVP	9335 00	AC2-165 TAP	230 .0	DV P	1	DVP_P1-2: LN 2028-B	operat ion	800.88000 4883	133.3 8	135.0	DC	13.0
168518 682	3138 98	3BUTCHER CRK	115 .0	DVP	9362 60	AD2-033 TAP	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	269.77999 8779	95.97	103.3 6	DC	19.98
168823 453	3142 66	6NORTHAM PTON	230 .0	DVP	9364 00	AD2-051 TAP	230 .0	DV P	1	DVP_P1-2: LN 238-A	operat ion	571.52001 9531	136.0 2	136.8	DC	9.82
168823 594	3142 67	3CHASCTY2	115 .0	DVP	3146 69	3BARN S J	115 .0	DV P	1	DVP_P1-2: LN 40-A	operat ion	331.82000 7324	112.8 2	121.4 7	DC	28.79
168823 596	3142 67	3CHASCTY2	115 .0	DVP	3146 69	3BARN S J	115 .0	DV P	1	Base Case	operat ion	331.82000 7324	93.69	101.1 4	DC	24.82
168823 328	3142 82	6CARSON	230 .0	DVP	3142 85	6CHRL249	230 .0	DV P	1	DVP_P1-2: LN 563	operat ion	559.29998 7793	181.2 4	181.8 2	DC	7.25
168823 338	3142 85	6CHRL249	230 .0	DVP	3143 16	6LOCKS	230 .0	DV P	1	DVP_P1-2: LN 563	operat ion	559.29998 7793	177.4 3	178.0 1	DC	7.25
168823 426	3143 10	6JUDES F	230 .0	DVP	3143 22	6MDLTHAN	230 .0	DV P	1	DVP_P1-2: LN 2028-B	operat ion	800.88000 4883	143.9 5	145.5 7	DC	12.98
168823 421	3143 33	6POWHATN	230 .0	DVP	3143 10	6JUDES F	230 .0	DV P	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	operat ion	800.88000 4883	144.0 7	145.6 9	DC	12.98
168823 422	3143 33	6POWHATN	230 .0	DVP	3143 10	6JUDES F	230 .0	DV P	1	DVP_P1-2: LN 2028-B	operat ion	800.88000 4883	144.0 7	145.6 9	DC	12.98
168823 281	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DV P	1	DVP_P1-2: LN 2012-B	operat ion	678.67999 2676	187.3 6	188.4 2	DC	15.95
168823 283	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DV P	1	Base Case	operat ion	678.67999 2676	168.8 6	169.8 1	DC	14.3
169033 573	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DV P	1	DVP_P1-2: LN 68-A	operat ion	239.88800 0488	179.0 3	180.9 7	DC	10.33

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
169033 575	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DV P	1	Base Case	operat ion	226.53999 3286	132.7 7	134.6 6	DC	9.48
169033 678	3145 61	6CAROLNA	230 .0	DVP	3145 99	6ROA VAL	230 .0	DV P	1	DVP_P1-2: LN 238-A	operat ion	548.02001 9531	140.5 1	141.3 1	DC	9.82
169033 519	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DV P	1	DVP_P1-2: LN 2201	operat ion	182.64199 8291	262.5 8	270.3 8	DC	14.37
169033 520	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DV P	1	Base Case	operat ion	176.81401 062	203.5 9	211.7 3	DC	14.4
168518 506	3145 63	6CLUBHSE	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DV P	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operat ion	375.05999 7559	126.6 3	127.9 4	DC	10.91
169033 617	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DV P	1	DVP_P1-2: LN 2056-A	operat ion	678.67999 2676	170.5 5	171.5 9	DC	15.66
169033 619	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DV P	1	Base Case	operat ion	678.67999 2676	162.6 5	163.6 5	DC	14.31
169033 634	3145 79	6HORNRTN	230 .0	DVP	9343 30	AD1-057 TAP	230 .0	DV P	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operat ion	441.79998 7793	166.0 8	166.9 7	DC	8.63
168823 417	3145 99	6ROA VAL	230 .0	DVP	3142 66	6NORTHAM PTON	230 .0	DV P	1	DVP_P1-2: LN 238-A	operat ion	548.02001 9531	140.4 5	141.2 6	DC	9.82
169243 739	3146 69	3BARNS J	115 .0	DVP	3146 84	3MT LREL	115 .0	DV P	1	DVP_P1-2: LN 40-A	operat ion	331.82000 7324	111.7 7	120.4 2	DC	28.79
169243 741	3146 69	3BARNS J	115 .0	DVP	3146 84	3MT LREL	115 .0	DV P	1	Base Case	operat ion	331.82000 7324	92.64 9	100.0 9	DC	24.82
169243 734	3146 75	3BRODNAX	115 .0	DVP	3146 76	3BRUNWICK	115 .0	DV P	1	DVP_P1-2: LN 33	operat ion	299.85998 5352	119.0 8	125.9 2	DC	20.5
169243 736	3146 75	3BRODNAX	115 .0	DVP	3146 76	3BRUNWICK	115 .0	DV P	1	Base Case	operat ion	299.85998 5352	97.47 6	102.9 6	DC	16.44
169243 752	3146 76	3BRUNWICK	115 .0	DVP	3147 04	3LAWRENC	115 .0	DV P	1	DVP_P1-2: LN 33	operat ion	326.17999 2676	109.3 4	115.6 3	DC	20.5
169243 477	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DV P	1	DVP_P1-2: LN 556-C	operat ion	571.52001 9531	292.5 6	297.8 6	DC	30.33
169243 481	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DV P	1	Base Case	operat ion	571.52001 9531	174.5 9	178.7 9	DC	24.04
169243 568	3146 79	3CENTRAL	115 .0	DVP	3147 22	3TWITTYS	115 .0	DV P	1	DVP_P1-2: LN 1012-E	operat ion	269.77999 8779	156.1 3	200.0 9	DC	118.6
168823 457	3146 81	3CHASCTY	115 .0	DVP	3142 67	3CHASCTY2	115 .0	DV P	Z1	DVP_P1-2: LN 84	operat ion	449.32000 7324	132.0 8	147.0 7	DC	67.35
168823 459	3146 81	3CHASCTY	115 .0	DVP	3142 67	3CHASCTY2	115 .0	DV P	Z1	Base Case	operat ion	411.72000 1221	92.31 7	105.3 7	DC	53.78
169243 770	3146 81	3CHASCTY	115 .0	DVP	3147 08	3NORVIEW	115 .0	DV P	1	DVP_P1-2: LN 298	operat ion	326.17999 2676	114.1 4	119.7 6	DC	18.34
169243 706	3146 84	3MT LREL	115 .0	DVP	3161 15	AC1-105 TAP	115 .0	DV P	1	DVP_P1-2: LN 40-A	operat ion	331.82000 7324	117.4 9	126.1 4	DC	28.79
169243 708	3146 84	3MT LREL	115 .0	DVP	3161 15	AC1-105 TAP	115 .0	DV P	1	Base Case	operat ion	331.82000 7324	97.53 9	104.9 9	DC	24.82
169243 778	3146 87	3CREWE	115 .0	DVP	3147 06	3MARTIN TAP	115 .0	DV P	1	DVP_P1-2: LN 1012-E	operat ion	326.17999 2676	102.4 3	108.2 7	DC	19.05
169243 824	3146 87	3CREWE	115 .0	DVP	3147 01	3LONEPN	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	370.35998 5352	97.84 3	103.2 3	DC	19.98
169243 800	3146 90	6BLACK WALNU	230 .0	DVP	3146 86	6CLOVER	230 .0	DV P	1	DVP_P1-2: LN 296-A	operat ion	814.97998 0469	104.3 9	107.3 2	DC	23.88
169243 435	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DV P	2	DVP_P1-2: LN 235-A	operat ion	182.64199 8291	391.5 9	407.6 5	DC	29.37
169243 438	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DV P	2	Base Case	operat ion	176.81401 062	243.5 8	254.1 9	DC	18.75
169243 446	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DV P	1	DVP_P1-2: LN 298	operat ion	198.05799 8657	286.2 5	298.9 5	DC	25.09
169243 449	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DV P	1	Base Case	operat ion	193.73400 8789	179.0 3	186.8 3	DC	15.1
169243 685	3146 91	3FARMVIL	115 .0	DVP	3147 07	3MORAN	115 .0	DV P	1	DVP_P1-2: LN 1012-E	operat ion	203.97999 5728	107.8 4	117.1 8	DC	19.06
168518 561	3146 92	6FARMVIL	230 .0	DVP	3138 02	6PRINCE EDW	230 .0	DV P	1	DVP_P1-2: LN 298	operat ion	571.52001 9531	95.91 9	100.2 9	DC	25.09
169243 456	3146 92	6FARMVIL	230 .0	DVP	3146 77	6BUCKING	230 .0	DV P	1	DVP_P1-2: LN 556-C	operat ion	559.29998 7793	296.8 5	302.2 7	DC	30.34

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
169243 460	3146 92	6FARMVIL	230 .0	DVP	3146 77	6BUCKING	230 .0	DV P	1	Base Case	operat ion	559.29998 7793	173.6 8	177.9 8	DC	24.06
169243 758	3146 93	3FRMAN D	115 .0	DVP	3145 65	3CLUBHSE7 1	115 .0	DV P	1	DVP_P1-2: LN 33	operat ion	326.17999 2676	108.5 6	114.8 4	DC	20.49
169243 505	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DV P	1	DVP_P1-3: 6SEEDGE HILL-TX#2	operat ion	226.72799 6826	233.8 8	244.3 7	DC	23.85
169243 508	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DV P	1	Base Case	operat ion	223.53199 7681	134.7 2	141.0 5	DC	14.13
169243 521	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DV P	2	DVP_P1-3: 6SEEDGE HILL-TX#1	operat ion	256.05599 9756	206.4 7	215.7 3	DC	23.78
169243 524	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DV P	2	Base Case	operat ion	253.23599 2432	117.7 3	123.2 6	DC	14.0
169243 483	3146 97	6SEEDGE HILL	230 .0	DVP	9272 50	AC1-221 TAP	230 .0	DV P	1	DVP_P1-2: LN 556-D	operat ion	674.91998 291	264.5 4	268.5 5	DC	27.17
169243 487	3146 97	6SEEDGE HILL	230 .0	DVP	9272 50	AC1-221 TAP	230 .0	DV P	1	Base Case	operat ion	509.48001 0986	133.4 4	136.5 8	DC	15.98
168518 225	3147 01	3LONEPN	115 .0	DVP	3137 55	3FLAT CREEK	115 .0	DV P	1	Base Case	operat ion	203.97999 5728	180.7 3	187.1 8	DC	13.15
163825 917	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P1-2: LN 90	operat ion	199.0	149.3 2	158.1 7	DC	17.74
163825 918	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	Base Case	operat ion	191.0	142.1 2	150.2 4	DC	15.63
169243 629	3147 02	3KERR	115 .0	DVP	3146 73	3PALMERSP RNG	115 .0	DV P	1	DVP_P1-2: LN 45	operat ion	138.17999 2676	131.2 7	135.1 1	DC	11.75
169243 631	3147 02	3KERR	115 .0	DVP	3146 73	3PALMERSP RNG	115 .0	DV P	1	Base Case	operat ion	120.31999 9695	100.6 6	103.8 8	DC	8.6
169243 743	3147 04	3LAWRENC	115 .0	DVP	3146 93	3FRMAN D	115 .0	DV P	1	DVP_P1-2: LN 33	operat ion	326.17999 2676	109.6 3	115.9 1	DC	20.49
169243 780	3147 06	3MARTIN TAP	115 .0	DVP	3146 87	3CREWE	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	326.17999 2676	109.9 1	116.0 2	DC	19.98
168518 513	3147 07	3MORAN	115 .0	DVP	3137 55	3FLAT CREEK	115 .0	DV P	1	DVP_P1-2: LN 1012-E	operat ion	203.97999 5728	104.4 6	113.8	DC	19.06
169243 474	3147 07	3MORAN	115 .0	DVP	3146 91	3FARMVIL	115 .0	DV P	1	Base Case	operat ion	203.97999 5728	177.3	183.7 5	DC	13.15
169243 773	3147 08	3NORVIEW	115 .0	DVP	3147 21	3SO HILL	115 .0	DV P	1	DVP_P1-2: LN 298	operat ion	326.17999 2676	113.2 2	118.8 4	DC	18.34
169243 511	3147 13	3PAMPLIN	115 .0	DVP	3147 26	3WILLIS	115 .0	DV P	1	DVP_P1-2: LN 1012-D	operat ion	331.82000 7324	225.1 1	260.8 5	DC	118.5 9
169243 515	3147 13	3PAMPLIN	115 .0	DVP	3147 26	3WILLIS	115 .0	DV P	1	Base Case	operat ion	331.82000 7324	101.9 7	108.2 1	DC	20.7
169243 678	3147 14	3PERTH	115 .0	DVP	9427 50	AE2-291 TAP	115 .0	DV P	1	DVP_P1-2: LN 556-D	operat ion	285.76000 9766	117.7 6	119.1 8	DC	9.02
169243 516	3147 15	3MADSONV	115 .0	DVP	3147 13	3PAMPLIN	115 .0	DV P	1	DVP_P1-2: LN 1012-D	operat ion	331.82000 7324	209.3 2	245.0 6	DC	118.5 9
169243 520	3147 15	3MADSONV	115 .0	DVP	3147 13	3PAMPLIN	115 .0	DV P	1	Base Case	operat ion	331.82000 7324	96.94	103.1 8	DC	20.71
169243 763	3147 21	3SO HILL	115 .0	DVP	9439 10	AF1-059 TAP	115 .0	DV P	1	DVP_P1-2: LN 298	operat ion	299.85998 5352	114.8 2	120.9 4	DC	18.34
169243 589	3147 22	3TWITTYS	115 .0	DVP	9593 10	AF2-222 TAP	115 .0	DV P	1	DVP_P1-2: LN 1012-E	operat ion	331.82000 7324	152.8 1	188.5 6	DC	118.5 9
169243 783	3147 23	3VICTRIA	115 .0	DVP	3147 25	3VICT DP	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	269.77999 8779	107.4 7	114.8 6	DC	19.98
169243 790	3147 25	3VICT DP	115 .0	DVP	9618 90	AG1-030 TAP	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	269.77999 8779	106.2 1	113.6	DC	19.98
169243 443	3147 26	3WILLIS	115 .0	DVP	3146 91	3FARMVIL	115 .0	DV P	1	Base Case	operat ion	186.11999 5117	214.0 7	225.1 9	DC	20.7
169459 396	3147 44	3BREMO	115 .0	DVP	3137 08	3FORK UNION	115 .0	DV P	1	DVP_P1-2: LN 2193	operat ion	414.54000 8545	101.9 8	102.7 8	DC	7.31
168518 432	3147 47	6BREMO	230 .0	DVP	3138 68	6CARTERV	230 .0	DV P	1	DVP_P1-2: LN 2028-B	operat ion	800.88000 4883	134.7 9	136.4 1	DC	13.0
169459 145	3147 47	6BREMO	230 .0	DVP	3138 67	6BREMODIS T	230 .0	DV P	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operat ion	661.76000 9766	182.3 6	185.2 5	DC	19.15
169459 149	3147 47	6BREMO	230 .0	DVP	3138 67	6BREMODIS T	230 .0	DV P	1	Base Case	operat ion	661.76000 9766	126.8 4	129.1 5	DC	15.27

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
169459 163	3147 47	6BREMO	230 .0	DVP	3147 44	3BREMO	115 .0	DV P	1	DVP_P1-2: LN 2193	operat ion	269.77999 8779	176.2 5	177.7 1	DC	8.76
169459 135	3147 65	6MTEAGLE	230 .0	DVP	3147 49	6CHARLVL	230 .0	DV P	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operat ion	661.76000 9766	183.4 2	186.0 8	DC	17.56
169459 139	3147 65	6MTEAGLE	230 .0	DVP	3147 49	6CHARLVL	230 .0	DV P	1	Base Case	operat ion	661.76000 9766	128.1 6	130.2 8	DC	14.02
169459 445	3147 81	3BLACKBR	115 .0	DVP	3147 88	3JONESTO	115 .0	DV P	1	DVP_P1-4: 3CHASCTY2_3CHASCTY_Z1	operat ion	246.27999 8779	87.87	100.1 6	DC	30.27
169459 413	3148 69	3BURLING	115 .0	DVP	3146 82	3BUGGS I	115 .0	DV P	1	DVP_P1-4: 3CHASCTY2_3CHASCTY_Z1	operat ion	224.66000 3662	89.56	103.0 4	DC	30.27
169459 179	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DV P	1	DVP_P1-2: LN 40-A	operat ion	331.82000 7324	153.5 3	162.1 8	DC	28.79
169459 181	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DV P	1	Base Case	operat ion	331.82000 7324	131.9 5	139.4 1	DC	24.82
163825 871	9272 50	AC1-221 TAP	230 .0	DVP	3040 70	6PERSON23 0 T	230 .0	CPL E	1	DVP_P1-2: LN 556-D	operat ion	718.0	266.0 1	269.7 8	DC	27.17
163825 881	9272 50	AC1-221 TAP	230 .0	DVP	3040 70	6PERSON23 0 T	230 .0	CPL E	1	Base Case	operat ion	542.0	143.9 1	146.8 6	DC	15.98
169746 014	9335 00	AC2-165 TAP	230 .0	DVP	3143 33	6POWHATN	230 .0	DV P	1	DVP_P1-2: LN 2028-B	operat ion	800.88000 4883	141.8 9	143.5 2	DC	13.0
169745 942	9346 20	AD1-088 TAP	230 .0	DVP	9624 90	AG1-098 TAP	230 .0	DV P	1	DVP_P1-2: LN 298	operat ion	571.52001 9531	149.4 5	153.8 3	DC	25.09
168823 614	9362 60	AD2-033 TAP	115 .0	DVP	3144 27	3LUNENBUR G	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	269.77999 8779	113.5 5	120.9 4	DC	19.98
169033 670	9364 00	AD2-051 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DV P	1	DVP_P1-2: LN 238-A	operat ion	571.52001 9531	144.5 9	145.3 7	DC	9.82
169746 064	9364 80	AD2-063 TAP	115 .0	DVP	9633 20	AG1-181 TAP	115 .0	DV P	1	DVP_P1-2: LN 1012-E	operat ion	269.77999 8779	101.9 3	145.9	DC	118.6
169745 875	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DV P	1	DVP_P1-2: LN 2012-B	operat ion	678.67999 2676	187.8	188.8 6	DC	15.96
169745 877	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DV P	1	Base Case	operat ion	678.67999 2676	171.6 6	172.6 1	DC	14.31
169243 727	9439 10	AF1-059 TAP	115 .0	DVP	3146 75	3BRODNAX	115 .0	DV P	1	DVP_P1-2: LN 33	operat ion	299.85998 5352	119.8 9	126.7 2	DC	20.5
169243 729	9439 10	AF1-059 TAP	115 .0	DVP	3146 75	3BRODNAX	115 .0	DV P	1	Base Case	operat ion	299.85998 5352	98.27	103.7 6	DC	16.44
170028 964	9593 10	AF2-222 TAP	115 .0	DVP	3147 15	3MADSONV	115 .0	DV P	1	DVP_P1-2: LN 1012-E	operat ion	331.82000 7324	203.1 4	238.8 8	DC	118.5 9
170028 987	9610 60	AF2-397 TAP	230 .0	DVP	9667 90	AG1-550 TAP	230 .0	DV P	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operat ion	661.76000 9766	195.0 2	197.6 8	DC	17.56
170028 991	9610 60	AF2-397 TAP	230 .0	DVP	9667 90	AG1-550 TAP	230 .0	DV P	1	Base Case	operat ion	661.76000 9766	132.3 1	134.4 3	DC	14.03
169243 701	9618 90	AG1-030 TAP	115 .0	DVP	3147 06	3MARTIN TAP	115 .0	DV P	1	DVP_P1-2: LN 154-A	operat ion	269.77999 8779	122.7	130.1	DC	19.98
169243 578	9624 90	AG1-098 TAP	230 .0	DVP	3146 86	6CLOVER	230 .0	DV P	1	DVP_P1-2: LN 298	operat ion	571.52001 9531	169.6 8	174.0 7	DC	25.09
169745 990	9632 70	AG1-176 TAP	230 .0	DVP	9346 20	AD1-088 TAP	230 .0	DV P	1	DVP_P1-2: LN 298	operat ion	571.52001 9531	132.7 1	137.1	DC	25.09
169243 563	9633 20	AG1-181 TAP	115 .0	DVP	3146 79	3CENTRAL	115 .0	DV P	1	DVP_P1-2: LN 1012-E	operat ion	269.77999 8779	157.5 4	201.5	DC	118.6
170028 903	9642 40	AG1-285 TAP	115 .0	DVP	3146 81	3CHASCTY	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	269.77999 8779	323.2	367.1 6	DC	118.5 9
170028 904	9642 40	AG1-285 TAP	115 .0	DVP	3146 81	3CHASCTY	115 .0	DV P	1	Base Case	operat ion	247.22000 1221	239.6 9	279.2 8	DC	97.89
169243 786	9644 70	AG1-310 TAP	115 .0	DVP	3147 14	3PERTH	115 .0	DV P	1	DVP_P1-2: LN 556-D	operat ion	285.76000 9766	99.42	100.8 4	DC	9.05
170029 207	9648 40	AG1-347 TAP	230 .0	DVP	9632 70	AG1-176 TAP	230 .0	DV P	1	DVP_P1-2: LN 298	operat ion	571.52001 9531	109.5 3	113.9 1	DC	25.09
169746 277	9655 90	AG1-427 TAP	115 .0	DVP	9364 80	AD2-063 TAP	115 .0	DV P	1	DVP_P1-2: LN 158	operat ion	269.77999 8779	102.1	111.1 1	DC	24.3

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
170028938	965590	AG1-427 TAP	115.0	DVP	964240	AG1-285 TAP	115.0	DVP	1	DVP_P1-2: LN 84	operation	269.779998779	276.87	320.83	DC	118.59
170028939	965590	AG1-427 TAP	115.0	DVP	964240	AG1-285 TAP	115.0	DVP	1	Base Case	operation	247.220001221	197.72	237.32	DC	97.89
170028997	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	191.25	193.9	DC	17.56
170029001	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	Base Case	operation	661.760009766	131.1	133.22	DC	14.03

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
168234320,168234321,168234319	10	05EDAN 1 138.0 kV - 05DANVL2 138.0 kV Ckt 1	<u>AEP</u> n6124 (382) : 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. The network project has an projected in-service date of 06/01/2021. Project Type : FAC Cost : \$9,000,000 Time Estimate : Months	\$9,000,000
168518314,168518316,168518313	15	6BREMODIST 230.0 kV - 6FORK UNION 230.0 kV Ckt 1	<u>DVP</u> dom-202 (1760) : 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 dom-276 (1834) : Rebuild 1.63 miles of 230 kV Line 2028 from Fork Union to Bremono Dist with 2-795 ACSR (26/7) 150 C Project Type : FAC Cost : \$2,445,000 Time Estimate : 30-36 Months	\$4,890,000
163338936	19	6POWHATN 230.0 kV - 6JUDES F 230.0 kV Ckt 1	<u>DVP</u> dom-303 (1861) : 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
163338973	47	6BREMO 230.0 kV - 6CARTERV 230.0 kV Ckt 1	<u>DVP</u> dom-364 (1922) : Rebuild 9.46 miles of 230 kV Line 2027 from Bremono to Cartersville with 2-795 ACSR 150 C. Replace breaker lead at Bremono terminal. Project Type : FAC Cost : \$23,650,000 Time Estimate : 36-40 Months	\$23,650,000
169033577,169033576,169033578	21	3CAROLNA 115.0 kV - 6CAROLNA 230.0 kV Ckt 1	<u>DVP</u> n6113 (1714) : Add additional 230/115 kV transformer at Carolina substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000

ID	Idx	Facility	Upgrade Description	Cost
166980234	7	3CLRK TAP 115.0 kV - 3ISLND C 115.0 kV Ckt 1	<u>DVP</u> dom-333 (1891) : Reconductor 5.28 miles of 115 kV Line 193 from Clarksville to Island Creek D.P with 636 ACSR 150 C Project Type : FAC Cost : \$3,168,000 Time Estimate : 30-36 Months	\$3,168,000
169243445	46	3WILLIS 115.0 kV - 3FARMVIL 115.0 kV Ckt 1	<u>DVP</u> dom-271 (1829) : Rebuild 70 miles of 115 kV lines (158, 84, 154, 1012) from Chase City to Lone Pine with 2-636 ACSR 150 C. Line 84: - Willis Mountain terminal: Replace Line Switch - Farmville terminal: Replace Breaker Switch, Breaker Lead, Line Lead, Wave Trap - Pamplin terminal: Replace Wave Trap, Line Lead and Relay (Secondary CT) Line 154: - Twittys Creek terminal: Replace Wave Trap and Line Lead - Madisonville terminal: Replace Line Switch - Pamplin terminal: Replace Wave Trap and Line Lead Line 158: - Farmville terminal: Replace Breaker Switch, Breaker Lead - Moran DP terminal: Replace Line Switch - Lone Pine terminal: Replace Wave Trap Line 1012: - Chase City terminal: Replace Breaker, Breaker switch, Breaker Lead and Wave Trap - Central terminal: Replace Line Switch - Twitty's Creek terminal: Replace Wave Trap Project Type : FAC Cost : \$109,470,000 Time Estimate : 60-72 Months	\$109,470,000
169243566,169 243565	5	AG1-181 TAP 115.0 kV - 3CENTRAL 115.0 kV Ckt 1		
169243570,169 243571	2	3CENTRAL 115.0 kV - 3TWITTYS 115.0 kV Ckt 1		
170028942,170 028940,170028 941	64	J1046 TAP 345.0 kV - AG1-285 TAP 115.0 kV Ckt 1		
170028906,170 028907,170028 905	62	AG1-285 TAP 115.0 kV - 3CHASCTY 115.0 kV Ckt 1		
168518227	39	3LONEPN 115.0 kV - 3FLAT CREEK 115.0 kV Ckt 1		
168518232	14	3FLAT CREEK 115.0 kV - 3MORAN 115.0 kV Ckt 1		
169243517	45	3MADSONV 115.0 kV - 3PAMPLIN 115.0 kV Ckt 1		
169243592,169 243591	3	3TWITTYS 115.0 kV - AF2-222 TAP 115.0 kV Ckt 1		
169243513	43	3PAMPLIN 115.0 kV - 3WILLIS 115.0 kV Ckt 1		
170028966,170 028967	58	AF2-222 TAP 115.0 kV - 3MADSONV 115.0 kV Ckt 1		

ID	Idx	Facility	Upgrade Description	Cost
163338821,163338820,169745878,169745880,169745879	57	AE2-033 TAP 230.0 kV - 6SAPONY 230.0 kV Ckt 1	<u>DVP</u> n6452 (1562) : Rebuild 2.47 miles of 230 kV Line 238 from AE2-033 TAP to Sapony with 2-795 150C ACSR. Project Type : FAC Cost : \$3,705,000 Time Estimate : 30-36 Months	\$3,705,000
169459164	49	6BREMO 230.0 kV - 3BREMO 115.0 kV Ckt 1	<u>DVP</u> b2989 (1491) : 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(Bremo Charlottesville) and 115 kV Line #91 (Bremo-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
169033522,169033523,169033521	23	3CLUBHSE 115.0 kV - 6CLUBHSE 230.0 kV Ckt 1	<u>DVP</u> n6114 (1715) : Add additional 230/115 kV transformer at Clubhouse substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
163338941	18	6JUDES F 230.0 kV - 6MDLTHAN 230.0 kV Ckt 1	<u>DVP</u> dom-302 (1860) : Rebuild 7.09 miles of 230 kV Line 2027 from Judesto Midlothian with 2-795 ACSR 150 C. Project Type : FAC Cost : \$17,725,000 Time Estimate : 36-40 Months	\$17,725,000
169243509,169243507	35	3SEEDGE HILL 115.0 kV - 6SEEDGE HILL 230.0 kV Ckt 1	<u>DVP</u> dom-046 (1556) : Add additional 230/115 kV transformer at Sedge Hill substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169243525,169243523	36	3SEEDGE HILL 115.0 kV - 6SEEDGE HILL 230.0 kV Ckt 2		
169243633,169243632	41	3KERR 115.0 kV - 3PALMERSPRN G 115.0 kV Ckt 1	<u>DVP</u> dom-352 (1910) : Reconnector 0.34 miles of 115 kV line 1019 from Kerr Dam to Palmer Springs with 636 ACSR 150 C Project Type : FAC Cost : \$204,000 Time Estimate : 30-36 Months	\$204,000

ID	Idx	Facility	Upgrade Description	Cost
168823286,168 823285,168823 284,163338836, 163338835	20	6SAPONY 230.0 kV - 6CARSON 230.0 kV Ckt 1	<u>DVP</u> n6221 (1751) : Rebuild 11.79 miles of 230 kV Line 238 from Sapony to Carson with 2-795 150C ACSR. Project Type : FAC Cost : \$17,685,000 Time Estimate : 30-36 Months	\$17,685,000
163338575	55	AD1-088 TAP 230.0 kV - AG1- 098 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-391 (1949) : 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
166980216,166 980217	9	3BLACKBR 115.0 kV - 3JONESTO 115.0 kV Ckt 1	<u>DVP</u> dom-370 (1928) : Reconductor 7.45 miles of 115 kV Line 36 from Black Branch to Jones Store with 768.2 ACS 250 C. Project Type : FAC Cost : \$4,470,000 Time Estimate : 30-36 Months	\$4,470,000
169033681,169 033680	22	6CAROLNA 230.0 kV - 6ROA VAL 230.0 kV Ckt 1	<u>DVP</u> dom-107 (1631) : Rebuild 4.06 miles of 230 kV Line 2060 from Carolina to Roanoke Valley with 2-636 ACSR. Project Type : FAC Cost : \$10,150,000 Time Estimate : 30-36 Months	\$10,150,000
163338520,169 243580	60	AG1-098 TAP 230.0 kV - 6CLOVER 230.0 kV Ckt 1	<u>DVP</u> dom-343 (1901) : Rebuild 6.534 miles of 230 kV Line 235 from Clover to AG1-098 with 2-795 ACSR 150 C. Replace Relay (Secondary CT) at Clover terminal Project Type : FAC Cost : \$16,455,000 Time Estimate : 36-40 Months	\$16,455,000
163338951	54	AC2-165 TAP 230.0 kV - 6POWHATN 230.0 kV Ckt 1	<u>DVP</u> dom-389 (1947) : 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
166980228	29	3BUGGS I 115.0 kV - 3CLRK TAP 115.0 kV Ckt 1	<u>DVP</u> dom-332 (1890) : Reconductor 0.39 miles of 115 kV Line 193 from Clarksville to Buggs Island P.S. with 636 ACSR 150 C Project Type : FAC Cost : \$234,000 Time Estimate : 30-36 Months	\$234,000

ID	Idx	Facility	Upgrade Description	Cost
166980276	8	3BARNES J 115.0 kV - 3MT LREL 115.0 kV Ckt 1	<u>DVP</u> dom-334 (1892) : Reconductor 7.69 miles of 115 kV Line 33 from Barnes Junction D.P. to Mt. Laurel with 768.2 ACSS 250 C Project Type : FAC Cost : \$4,614,000 Time Estimate : 30-36 Months	\$4,614,000
163825709,163825923,163825922,163825710,163825711,163826584	40	3KERR 115.0 kV - 3GW KING TAP 115.0 kV Ckt 1	<u>DVP</u> n6115 (1503) : For DEV portion, rebuild 4.7 miles of 115 kV Line 45 from Kerr Dam to GW King Tap with 768 ACSS. Project Type : FAC Cost : \$6,123,000 Time Estimate : 30-36 Months <u>CPL</u> The external (i.e. Non-PJM) Transmission Owner, CPL, will not evaluate this violation until the impact study phase.	\$6,123,000
163825882,163825877,163825876	53	AC1-221 TAP 230.0 kV - 6PERSON230 T 230.0 kV Ckt 1	<u>DVP</u> n6449 (1510) : 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 (1817) : 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 dom-387 (1945) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-768.2 ACSS 250 C. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months <u>CPL</u> The external (i.e. Non-PJM) Transmission Owner, CPL, will not evaluate this violation until the impact study phase.	\$9,000,000

ID	Idx	Facility	Upgrade Description	Cost
169243480,169243482,169243479	27	6BUCKING 230.0 kV - 6BREMO 230.0 kV Ckt 1	<u>DVP</u> n6219 (1541) : 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 dom-337 (1895) : Rebuild 15.51 miles of 230 kV Line 298 from Buckingham to Bremono with 2-768.2 ACSS 250 C. Replace Breaker, Breaker Switch, Breaker Lead, Wave Trap, Relay (Secondary CT), Relay Trip at Bremono terminal. Replace Line Switch at Buckingham terminal Project Type : FAC Cost : \$25,285,000 Time Estimate : 36-40 Months	\$48,550,000
169243459,169243458,169243461	34	6FARMVIL 230.0 kV - 6BUCKING 230.0 kV Ckt 1	<u>DVP</u> n6245 (1543) : 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 dom-346 (1904) : Rebuild 12.76 miles of 230 kV Line 298 from Buckingham to Farmville with 2-768.2 ACSS 250 C. Replace Line Lead, Line Switch, Relay (CT), Wave trap at Farmville terminal Project Type : FAC Cost : \$19,710,000 Time Estimate : 36-40 Months	\$38,850,000
168518431,168518430	13	6DRY BREAD 230.0 kV - 6LAKEVEW 230.0 kV Ckt 1	<u>DVP</u> b3121 (1500) : PJM Baseline Upgrade b3121. Rebuild Clubhouse-Lakeview 230 kV Line #254 with single-circuit wood pole equivalent structures at the current 230 kV standard with a minimum rating of 1047 MVA. The baseline project has an projected in-service date of 12/31/2024. Project Type : FAC Cost : \$0	\$0
169243680,169243681	44	3PERTH 115.0 kV - AE2-291 TAP 115.0 kV Ckt 1	<u>DVP</u> dom-356 (1914) : Reconduct 5.67miles of 115 kV Line 31 from Perth to AE2-291 Tap with 768.2 ACSS 250 Project Type : FAC Cost : \$3,402,000 Time Estimate : 30-36 Months	\$3,402,000
166980270	6	3CHASCTY2 115.0 kV - 3BARNES J 115.0 kV Ckt 1	<u>DVP</u> dom-295 (1853) : Rebuild 7.46 mi miles of 115 kV Line 33 from Chase City to Barnes Junction with 2-636 ACSR 150 C Project Type : FAC Cost : \$11,190,000 Time Estimate : 30-36 Months	\$11,190,000

ID	Idx	Facility	Upgrade Description	Cost
166980240	52	3BURLING 115.0 kV - 3BUGGS I 115.0 kV Ckt 1	<u>DVP</u> dom-377 (1935) : Reconductor 1.31 miles of 115 kV Line 36 from Burlington Drive to Buggs Island with 768.2 ACSS 250 C. Replace Line Lead at Buggs Island terminal Project Type : FAC Cost : \$786,000 Time Estimate : 30-36 Months	\$786,000
166980206	11	3KERRDP 115.0 kV - 3KERR 115.0 kV Ckt 1	<u>DVP</u> dom-263 (1821) : Reconductor 9.4 miles of 115 kV line 193 from Kerr DP to Kerr Dam with 636 ACSR 150 C Project Type : FAC Cost : \$5,640,000 Time Estimate : 30-36 Months	\$5,640,000
169459140,169459137,169459138	50	6MTEAGLE 230.0 kV - 6CHARLVL 230.0 kV Ckt 1	<u>DVP</u> n6184 (1747) : 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 dom-369 (1927) : Rebuild 6.47 miles of 230 kV Line 2028 from Mt Eagle to Charlottesville with 2-768.2 ACSS 250 C. Replace Wave Trap at Charlottesville terminal Project Type : FAC Cost : \$16,375,000 Time Estimate : 36-40 Months	\$32,550,000
166980238	28	3CHASCTY 115.0 kV - 3BLACKBR 115.0 kV Ckt 1	<u>DVP</u> dom-339 (1897) : Reconductor 2.47 miles of 115 kV Line 36 from Chase City to Black Branch with 768.2 ACSS 250 Project Type : FAC Cost : \$1,482,000 Time Estimate : 30-36 Months	\$1,482,000
169243451,169243450,169243448	33	3FARMVIL 115.0 kV - 6FARMVIL 230.0 kV Ckt 1	<u>DVP</u> dom-089 (1606) : Add additional 230/115 kV transformer at Farmville substation Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169243439,169243440,169243437	32	3FARMVIL 115.0 kV - 6FARMVIL 230.0 kV Ckt 2		
169033636,169033637	25	6HORNRTN 230.0 kV - AD1-057 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-077 (1593) : Rebuild 16 miles of 230 kV Line 2056 from Hornertown to AD1-057 TAP with 2-636 ACSR. Project Type : FAC Cost : \$24,000,000 Time Estimate : 36-40 Months	\$24,000,000

ID	Idx	Facility	Upgrade Description	Cost
163338987	16	6CARTERV 230.0 kV - AC2- 165 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-277 (1835) : Rebuild 7.67 miles of 230 kV Line 2027 from Carterville to AC2-165 Tap with 2-636 ACSR (24/7) 150 C Project Type : FAC Cost : \$19,175,000 Time Estimate : 36-40 Months	\$19,175,000
168823419,168 823420	26	6ROA VAL 230.0 kV - 6NORTHAMPTO N 230.0 kV Ckt 1	<u>DVP</u> dom-106 (1630) : Rebuild 2.87 miles of 230 kV Line 2012 from Roanoke Valley to Northampton with 2-636 ACSR. Project Type : FAC Cost : \$7,175,000 Time Estimate : 30-36 Months	\$7,175,000
169243485,169 243486	37	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
169459148,169 459150,169459 147	48	6BREMO 230.0 kV - 6BREMODIST 230.0 kV Ckt 1	<u>DVP</u> n5873 (1709) : Rebuild 0.16 miles of Line 2028 from BreMO to BreMO Dist with 2-636 ACSR. Project Type : FAC Cost : \$500,000 Time Estimate : 30-36 Months dom-363 (1921) : Rebuild 0.16 miles of Line 2028 from BreMO to BreMO Dist with 2-795 ACSR 150 C. Replace Breaker, Breaker Switch, Breaker Lead, Line Lead at BreMO terminal Project Type : FAC Cost : \$1,690,000 Time Estimate : 30-36 Months	\$2,190,000
168823456,168 823455	17	6NORTHAMPTO N 230.0 kV - AD2-051 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-211 (1769) : Rebuild 33.7 miles of 230 kV Line 2032 from Northampton to Earleys with 2-636 ACSR. Project Type : FAC Cost : \$50,550,000 Time Estimate : 48-60 Months	\$50,550,000
168518444,168 518446	1	3PLYWOOD 115.0 kV - 3SEEDGE HILL 115.0 kV Ckt 1	<u>DVP</u> dom-273 (1831) : Reconductor 6.65 miles of 115 kV line 151 from Plywood to Sedge Hill with 636 ACSR 150 C Project Type : FAC Cost : \$3,990,000 Time Estimate : 30-36 Months	\$3,990,000

ID	Idx	Facility	Upgrade Description	Cost
169033621,169033620,169033622,163338841,163338840,163338581	24	6CLUBHSE 230.0 kV - AE2-033 TAP 230.0 kV Ckt 1	<u>DVP</u> n6872 (1558) : Rebuild 14.28 miles of 230 kV Line 238 from Clubhouse to AE2-033 Tap with 2-795 150C ACSR. Project Type : FAC Cost : \$21,420,000 Time Estimate : 30-36 Months	\$21,420,000
166980218	38	3ISLND C 115.0 kV - 3KERRDP 115.0 kV Ckt 1	<u>DVP</u> dom-349 (1907) : Reconductor 2.19 miles of 115 kV Line 193 from Island Creek D.P. to Kerr D.P. with 636 ACSR 150 C Project Type : FAC Cost : \$1,314,000 Time Estimate : 30-36 Months	\$1,314,000
163338596	61	AG1-176 TAP 230.0 kV - AD1-088 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-392 (1950) : 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
166980222	51	3JONESTO 115.0 kV - 3CLRKVILLE 115.0 kV Ckt 1	<u>DVP</u> dom-372 (1930) : Reconductor 7.56 miles of 115 kV Line 36 from Jones Store to Clarksville with 768.2 ACSS 250 C. Project Type : FAC Cost : \$4,536,000 Time Estimate : 30-36 Months	\$4,536,000
163338632	63	AG1-347 TAP 230.0 kV - AG1-176 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-415 (1973) : 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
166980236	30	3CLRKVILLE 115.0 kV - 3BURLING 115.0 kV Ckt 1	<u>DVP</u> dom-340 (1898) : Reconductor 2.58 miles of 115 kV Line 36 from Clarksville to Burlington DP with 768.2 ACSS 250 Project Type : FAC Cost : \$1,548,000 Time Estimate : 30-36 Months	\$1,548,000

ID	Idx	Facility	Upgrade Description	Cost
168518291,168 518292,168518 294	12	6FORK UNION 230.0 kV - AF2- 397 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-198 (1756) : 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 dom-265 (1823) : Rebuild 5 miles of 230 kV Line 2028 from Fork Union to AF2-397 Tap with 2-795 ACSR 150 C. Project Type : FAC Cost : \$12,500,000 Time Estimate : 36-42 Months	\$20,000,000
166980175,169 459182,169459 183	4	AC1-105 TAP 115.0 kV - 3SEEDGE HILL 115.0 kV Ckt 1	<u>DVP</u> dom-341 (1899) : Rebuild 10.76 mi miles of 115 kV Line 33 from Mt. Laurel to AC1-105 Tap to Sedge Hill with 2-636 ACSR 150 C. Replace Wave Trap, Line Lead at sedge Hill terminal. Replace Line Switch at Mt. Laurel terminal Project Type : FAC Cost : \$16,590,000 Time Estimate : 30-36 Months	\$16,590,000
166980253	31	3MT LREL 115.0 kV - AC1-105 TAP 115.0 kV Ckt 1		
170028992,170 028990,170028 989	59	AF2-397 TAP 230.0 kV - J1180 TAP 345.0 kV Ckt 1	<u>DVP</u> dom-409 (1967) : 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
169033672,169 033673	56	AD2-051 TAP 230.0 kV - 6GEARLEYS 230.0 kV Ckt 1	<u>DVP</u> dom-236 (1794) : Rebuild 1.2 miles of 230 kV line 2012 from AD2-051 Tap to Earleys with 2-636 ACSR. Project Type : FAC Cost : \$1,800,000 Time Estimate : 30-36 Months	\$1,800,000
170029000,170 029002,170028 999	65	J1180 TAP 345.0 kV - 6MTEAGLE 230.0 kV Ckt 1	<u>DVP</u> dom-421 (1979) : 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
			TOTAL COST	\$668,698,500

11.6 Flow Gate Details

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
168518444	313825	3PLYWOOD	DVP	314696	3SEEDGE HILL	DVP	1	DVP_P1-2: LN 33	single	141.0	107.74	115.13	DC	10.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4681	80/20	0.4681
314429	3JTRSVLE	0.2289	80/20	0.2289
314704	3LAWRENC	0.1364	80/20	0.1364
315158	1KERR 1	0.3575	80/20	0.3575
315159	1KERR 2	1.0009	80/20	1.0009
315160	1KERR 3	1.0009	80/20	1.0009
315161	1KERR 4	1.0009	80/20	1.0009
315162	1KERR 5	1.0009	80/20	1.0009
315163	1KERR 6	1.0009	80/20	1.0009
315164	1KERR 7	1.0009	80/20	1.0009
315266	1PLYWOOD A	5.4698	80/20	5.4698
316129	AC1-054 C	4.6525	80/20	4.6525
316131	AB2-060 C	1.3253	80/20	1.3253
924301	AB2-077 C O1 (Suspended)	2.1170	80/20	2.1170
924311	AB2-078 C O1 (Suspended)	2.1170	80/20	2.1170
924321	AB2-079 C O1 (Suspended)	2.1170	80/20	2.1170
925611	AC1-036 C	0.1645	80/20	0.1645
927261	AC1-222 C	-1.8953	Adder	-2.23
934311	AD1-055 C	-1.3160	Adder	-1.55
935221	AD1-157 C	0.1134	80/20	0.1134
936265	AD2-033 C	9.9918	80/20	9.9918
936361	AD2-046 C O1	8.3312	80/20	8.3312
936485	AD2-063 C	12.8889	80/20	12.8889
938371	AE1-056 C	3.0974	80/20	3.0974
939181	AE1-148 C	8.2199	80/20	8.2199
940661	AE2-053 O1	3.0444	80/20	3.0444
942451	AE2-258	2.2133	80/20	2.2133
942461	AE2-259 C O1	3.0180	80/20	3.0180
943901	AF1-058 C	-1.0700	Adder	-1.26
943911	AF1-059	10.6461	80/20	10.6461
946301	AF1-294 C	2.3123	80/20	2.3123
958211	AF2-115 C	1.3602	80/20	1.3602
958801	AF2-171 C	8.2170	80/20	8.2170
959311	AF2-222 C	11.6900	80/20	11.6900
961791	AG1-021 C	1.0882	80/20	1.0882
961891	AG1-030 C	9.1206	80/20	9.1206
962041	AG1-048 C	6.8010	80/20	6.8010
963171	AG1-166 C	1.0882	80/20	1.0882
963181	AG1-167 C	1.0882	80/20	1.0882

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963191	AG1-168 C	1.0882	80/20	1.0882
963201	AG1-169 C	1.0882	80/20	1.0882
963211	AG1-170 C	1.0882	80/20	1.0882
963301	AG1-179 C	2.9621	80/20	2.9621
963311	AG1-180	1.4432	80/20	1.4432
963321	AG1-181 C O1	12.7838	80/20	12.7838
963361	AG1-185 O1	6.1852	80/20	6.1852
963641	AG1-215 C	0.5078	80/20	0.5078
964111	AG1-272 C	1.8698	80/20	1.8698
964121	AG1-273 C	1.8698	80/20	1.8698
964131	AG1-274 C	1.8698	80/20	1.8698
964241	AG1-285 C O1	11.0408	80/20	11.0408
964821	AG1-345 C	0.4370	80/20	0.4370
965191	AG1-384 C	1.8698	80/20	1.8698
965281	AG1-393 C	1.0882	80/20	1.0882
965451	AG1-413 C O1	4.4752	80/20	4.4752
965591	AG1-427 C	10.4190	80/20	10.4190
965601	AG1-428 C O1	2.4728	80/20	2.4728
965641	AG1-432 C O1	6.0360	80/20	6.0360
965721	AG1-440 C	6.0322	80/20	6.0322
965731	AG1-441 C	6.0322	80/20	6.0322
965771	AG1-445	3.4853	80/20	3.4853
965781	AG1-446	3.4853	80/20	3.4853
965831	AG1-451	1.0060	80/20	1.0060
966751	AG1-546 C	9.6048	80/20	9.6048
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.6036	80/20	0.6036
G-007A	G-007A	0.0288	Confirmed LTF	0.0288
VFT	VFT	0.0710	Confirmed LTF	0.0710
CALDERWOOD	CALDERWOOD	0.0934	Confirmed LTF	0.0934
NY	NY	0.0011	Confirmed LTF	0.0011
PRAIRIE	PRAIRIE	0.4391	Confirmed LTF	0.4391
CHEOAH	CHEOAH	0.0936	Confirmed LTF	0.0936
CBM-N	CBM-N	0.0120	Confirmed LTF	0.0120
COTTONWOOD	COTTONWOOD	0.3654	Confirmed LTF	0.3654
HAMLET	HAMLET	0.0635	Confirmed LTF	0.0635
GIBSON	GIBSON	0.0917	Confirmed LTF	0.0917
BLUEG	BLUEG	0.2951	Confirmed LTF	0.2951
TRIMBLE	TRIMBLE	0.0946	Confirmed LTF	0.0946
CATAWBA	CATAWBA	0.0644	Confirmed LTF	0.0644

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
169243570	314679	3CENTRAL	DVP	314722	3TWITTYS	DVP	1	DVP_P1-2: LN 1012-E	single	269.78	115.35	141.71	DC	71.1

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936485	AD2-063 C	90.0000	80/20	90.0000
963321	AG1-181 C O1	101.0900	80/20	101.0900
963361	AG1-185 O1	48.9100	80/20	48.9100
964241	AG1-285 C O1	75.0000	80/20	75.0000
965591	AG1-427 C	71.1000	80/20	71.1000

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
169243591	314722	3TWITTYS	DVP	959310	AF2-222 TAP	DVP	1	DVP_P1-2: LN 1012-E	single	331.82	112.58	134.01	DC	71.1

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925611	AC1-036 C	1.3567	80/20	1.3567
936485	AD2-063 C	89.9955	80/20	89.9955
963321	AG1-181 C O1	101.0849	80/20	101.0849
963361	AG1-185 O1	48.9076	80/20	48.9076
964111	AG1-272 C	15.4192	80/20	15.4192
964121	AG1-273 C	15.4192	80/20	15.4192
964131	AG1-274 C	15.4192	80/20	15.4192
964241	AG1-285 C O1	74.9962	80/20	74.9962
965191	AG1-384 C	15.4192	80/20	15.4192
965591	AG1-427 C	71.0964	80/20	71.0964
CALDERWOOD	CALDERWOOD	0.0025	Confirmed LTF	0.0025
NY	NY	0.0028	Confirmed LTF	0.0028
PRAIRIE	PRAIRIE	0.0129	Confirmed LTF	0.0129
CHEOAH	CHEOAH	0.0025	Confirmed LTF	0.0025
COTTONWOOD	COTTONWOOD	0.0105	Confirmed LTF	0.0105
HAMLET	HAMLET	0.0029	Confirmed LTF	0.0029
GIBSON	GIBSON	0.0027	Confirmed LTF	0.0027
BLUEG	BLUEG	0.0087	Confirmed LTF	0.0087
TRIMBLE	TRIMBLE	0.0028	Confirmed LTF	0.0028
CATAWBA	CATAWBA	0.0017	Confirmed LTF	0.0017

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
166980175	316115	AC1-105 TAP	DVP	314696	3SEDGE HILL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	130.15	137.12	DC	28.38

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.7646	50/50	0.7646
313853	3PONTONDP	1.0270	50/50	1.0270
314429	3JTRSVLE	0.6481	50/50	0.6481
314713	3PAMPLIN	1.0747	Adder	1.26
315161	1KERR 4	0.9067	50/50	0.9067
315162	1KERR 5	0.9067	50/50	0.9067
315163	1KERR 6	0.9067	50/50	0.9067
315164	1KERR 7	0.9067	50/50	0.9067
316118	AC1-105 C	26.2631	50/50	26.2631
316129	AC1-054 C	3.6751	Adder	4.32
316131	AB2-060 C	2.2037	50/50	2.2037
924022	AB2-043 E O1	4.3333	50/50	4.3333
924162	AB2-060 E OP	6.5731	50/50	6.5731
924301	AB2-077 C O1 (Suspended)	2.8934	50/50	2.8934
924302	AB2-077 E O1 (Suspended)	1.9290	50/50	1.9290
924311	AB2-078 C O1 (Suspended)	2.8934	50/50	2.8934
924312	AB2-078 E O1 (Suspended)	1.9290	50/50	1.9290
924321	AB2-079 C O1 (Suspended)	2.8934	50/50	2.8934
924322	AB2-079 E O1 (Suspended)	1.9290	50/50	1.9290
925611	AC1-036 C	0.2684	50/50	0.2684
925612	AC1-036 E	1.0189	50/50	1.0189
925785	AC1-054 E	1.6930	Adder	1.99
926274	AC1-105 E	12.9032	50/50	12.9032
927261	AC1-222 C	-1.9440	Adder	-2.29
934311	AD1-055 C	-1.3497	Adder	-1.59
935222	AD1-157 E	0.6626	Adder	0.78
936265	AD2-033 C	20.0273	50/50	20.0273
936266	AD2-033 E	13.3515	50/50	13.3515
936361	AD2-046 C O1	8.5850	50/50	8.5850
936362	AD2-046 E O1	3.9478	50/50	3.9478
936485	AD2-063 C	21.0465	50/50	21.0465
936486	AD2-063 E	14.0310	50/50	14.0310
938371	AE1-056 C	4.2848	Adder	5.04
938372	AE1-056 E	2.3412	Adder	2.75
939181	AE1-148 C	8.6800	50/50	8.6800
939182	AE1-148 E	5.7866	50/50	5.7866

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940661	AE2-053 O1	3.2148	50/50	3.2148
942451	AE2-258	3.6154	50/50	3.6154
942461	AE2-259 C O1	4.1560	Adder	4.89
942462	AE2-259 E O1	2.7707	Adder	3.26
943901	AF1-058 C	-1.0975	Adder	-1.29
943911	AF1-059	16.8253	50/50	16.8253
946301	AF1-294 C	6.5474	50/50	6.5474
946302	AF1-294 E	4.3649	50/50	4.3649
958211	AF2-115 C	3.8514	50/50	3.8514
958212	AF2-115 E	2.5676	50/50	2.5676
958801	AF2-171 C	13.3857	50/50	13.3857
958802	AF2-171 E	8.9238	50/50	8.9238
959311	AF2-222 C	19.0690	50/50	19.0690
959312	AF2-222 E	12.7762	50/50	12.7762
961791	AG1-021 C	3.0811	50/50	3.0811
961792	AG1-021 E	2.0541	50/50	2.0541
961891	AG1-030 C	23.1084	50/50	23.1084
961892	AG1-030 E	15.4056	50/50	15.4056
962041	AG1-048 C	19.2570	50/50	19.2570
962042	AG1-048 E	12.8380	50/50	12.8380
962441	AG1-093 C O1	70.0350	50/50	70.0350
962442	AG1-093 E O1	21.3150	50/50	21.3150
963171	AG1-166 C	3.0811	50/50	3.0811
963172	AG1-166 E	2.0541	50/50	2.0541
963181	AG1-167 C	3.0811	50/50	3.0811
963182	AG1-167 E	2.0541	50/50	2.0541
963191	AG1-168 C	3.0811	50/50	3.0811
963192	AG1-168 E	2.0541	50/50	2.0541
963201	AG1-169 C	3.0811	50/50	3.0811
963202	AG1-169 E	2.0541	50/50	2.0541
963211	AG1-170 C	3.0811	50/50	3.0811
963212	AG1-170 E	2.0541	50/50	2.0541
963301	AG1-179 C	2.0596	Adder	4.57
963311	AG1-180	1.0035	Adder	2.23
963321	AG1-181 C O1	20.8619	50/50	20.8619
963361	AG1-185 O1	10.0936	50/50	10.0936
963641	AG1-215 C	1.4379	50/50	1.4379
963642	AG1-215 E	2.1568	50/50	2.1568
964111	AG1-272 C	3.0507	50/50	3.0507
964112	AG1-272 E	0.9061	50/50	0.9061
964121	AG1-273 C	3.0507	50/50	3.0507
964122	AG1-273 E	0.9061	50/50	0.9061
964131	AG1-274 C	3.0507	50/50	3.0507
964132	AG1-274 E	0.9061	50/50	0.9061
964241	AG1-285 C O1	18.0293	50/50	18.0293
964242	AG1-285 E O1	12.0195	50/50	12.0195
964791	AG1-342 C	15.8415	50/50	15.8415
964792	AG1-342 E	12.4469	50/50	12.4469
964821	AG1-345 C	1.2324	50/50	1.2324
964822	AG1-345 E	0.8216	50/50	0.8216
965191	AG1-384 C	3.0507	50/50	3.0507
965192	AG1-384 E	0.9061	50/50	0.9061

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965281	AG1-393 C	3.0811	50/50	3.0811
965282	AG1-393 E	2.0541	50/50	2.0541
965451	AG1-413 C O1	7.0727	50/50	7.0727
965452	AG1-413 E O1	4.7152	50/50	4.7152
965591	AG1-427 C	17.0142	50/50	17.0142
965592	AG1-427 E	11.3667	50/50	11.3667
965601	AG1-428 C O1	1.7194	Adder	3.82
965602	AG1-428 E O1	1.1442	Adder	2.54
965641	AG1-432 C O1	4.4053	Adder	9.78
965642	AG1-432 E O1	2.9369	Adder	6.52
965721	AG1-440 C	2.4799	Adder	5.5
965722	AG1-440 E	1.6533	Adder	3.67
965731	AG1-441 C	2.4799	Adder	5.5
965732	AG1-441 E	1.6533	Adder	3.67
965771	AG1-445	1.4329	Adder	3.18
965781	AG1-446	1.4329	Adder	3.18
965831	AG1-451	0.7342	Adder	1.63
966751	AG1-546 C	4.0416	Adder	8.97
966752	AG1-546 E	2.1686	Adder	4.81
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4405	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2937	Adder	0.65
G-007A	G-007A	0.1175	Confirmed LTF	0.1175
VFT	VFT	0.3096	Confirmed LTF	0.3096
CALDERWOOD	CALDERWOOD	0.1218	Confirmed LTF	0.1218
PRAIRIE	PRAIRIE	0.5011	Confirmed LTF	0.5011
CHEOAH	CHEOAH	0.1231	Confirmed LTF	0.1231
CBM-N	CBM-N	0.0564	Confirmed LTF	0.0564
COTTONWOOD	COTTONWOOD	0.4599	Confirmed LTF	0.4599
HAMLET	HAMLET	0.1438	Confirmed LTF	0.1438
GIBSON	GIBSON	0.0994	Confirmed LTF	0.0994
BLUEG	BLUEG	0.3177	Confirmed LTF	0.3177
TRIMBLE	TRIMBLE	0.1013	Confirmed LTF	0.1013
CATAWBA	CATAWBA	0.1033	Confirmed LTF	0.1033

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
169243565	963320	AG1-181 TAP	DVP	314679	3CENTRAL	DVP	1	DVP_P1-2: LN 1012-E	single	269.78	116.76	143.12	DC	71.1

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936485	AD2-063 C	90.0000	80/20	90.0000
963321	AG1-181 C O1	101.0900	80/20	101.0900
963361	AG1-185 O1	48.9100	80/20	48.9100
964241	AG1-285 C O1	75.0000	80/20	75.0000
965591	AG1-427 C	71.1000	80/20	71.1000

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
166980270	314267	3CHASCTY2	DVP	314669	3BARNS J	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	97.77	104.74	DC	28.38

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.7646	50/50	0.7646
313853	3PONTONDP	1.0270	50/50	1.0270
314429	3JTRSVLE	0.6481	50/50	0.6481
314713	3PAMPLIN	1.0747	Adder	1.26
315161	1KERR 4	0.9067	50/50	0.9067
315162	1KERR 5	0.9067	50/50	0.9067
315163	1KERR 6	0.9067	50/50	0.9067
315164	1KERR 7	0.9067	50/50	0.9067
316129	AC1-054 C	3.6751	Adder	4.32
316131	AB2-060 C	2.2037	50/50	2.2037
924022	AB2-043 E O1	4.3333	50/50	4.3333
924162	AB2-060 E OP	6.5731	50/50	6.5731
924301	AB2-077 C O1 (Suspended)	2.8934	50/50	2.8934
924302	AB2-077 E O1 (Suspended)	1.9290	50/50	1.9290
924311	AB2-078 C O1 (Suspended)	2.8934	50/50	2.8934
924312	AB2-078 E O1 (Suspended)	1.9290	50/50	1.9290
924321	AB2-079 C O1 (Suspended)	2.8934	50/50	2.8934
924322	AB2-079 E O1 (Suspended)	1.9290	50/50	1.9290
925611	AC1-036 C	0.2684	50/50	0.2684
925612	AC1-036 E	1.0189	50/50	1.0189
925785	AC1-054 E	1.6930	Adder	1.99
927261	AC1-222 C	-1.9440	Adder	-2.29
934311	AD1-055 C	-1.3497	Adder	-1.59
935222	AD1-157 E	0.6626	Adder	0.78
936265	AD2-033 C	20.0273	50/50	20.0273
936266	AD2-033 E	13.3515	50/50	13.3515
936361	AD2-046 C O1	8.5850	50/50	8.5850
936362	AD2-046 E O1	3.9478	50/50	3.9478
936485	AD2-063 C	21.0465	50/50	21.0465
936486	AD2-063 E	14.0310	50/50	14.0310
938371	AE1-056 C	4.2848	Adder	5.04
938372	AE1-056 E	2.3412	Adder	2.75
939181	AE1-148 C	8.6800	50/50	8.6800
939182	AE1-148 E	5.7866	50/50	5.7866
940661	AE2-053 O1	3.2148	50/50	3.2148
942451	AE2-258	3.6154	50/50	3.6154

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942461	AE2-259 C O1	4.1560	Adder	4.89
942462	AE2-259 E O1	2.7707	Adder	3.26
943901	AF1-058 C	-1.0975	Adder	-1.29
943911	AF1-059	16.8253	50/50	16.8253
946281	AF1-292 C	0.4724	Adder	0.56
946282	AF1-292 E	0.3184	Adder	0.37
946301	AF1-294 C	6.5474	50/50	6.5474
946302	AF1-294 E	4.3649	50/50	4.3649
958211	AF2-115 C	3.8514	50/50	3.8514
958212	AF2-115 E	2.5676	50/50	2.5676
958801	AF2-171 C	13.3857	50/50	13.3857
958802	AF2-171 E	8.9238	50/50	8.9238
959311	AF2-222 C	19.0690	50/50	19.0690
959312	AF2-222 E	12.7762	50/50	12.7762
960081	AF2-299 C	0.7961	Adder	0.94
960082	AF2-299 E	0.5307	Adder	0.62
961791	AG1-021 C	3.0811	50/50	3.0811
961792	AG1-021 E	2.0541	50/50	2.0541
961891	AG1-030 C	23.1084	50/50	23.1084
961892	AG1-030 E	15.4056	50/50	15.4056
962041	AG1-048 C	19.2570	50/50	19.2570
962042	AG1-048 E	12.8380	50/50	12.8380
962443	AG1-093 BAT	11.9375	50/50	11.9375
963171	AG1-166 C	3.0811	50/50	3.0811
963172	AG1-166 E	2.0541	50/50	2.0541
963181	AG1-167 C	3.0811	50/50	3.0811
963182	AG1-167 E	2.0541	50/50	2.0541
963191	AG1-168 C	3.0811	50/50	3.0811
963192	AG1-168 E	2.0541	50/50	2.0541
963201	AG1-169 C	3.0811	50/50	3.0811
963202	AG1-169 E	2.0541	50/50	2.0541
963211	AG1-170 C	3.0811	50/50	3.0811
963212	AG1-170 E	2.0541	50/50	2.0541
963301	AG1-179 C	2.0596	Adder	4.57
963311	AG1-180	1.0035	Adder	2.23
963321	AG1-181 C O1	20.8619	50/50	20.8619
963361	AG1-185 O1	10.0936	50/50	10.0936
963641	AG1-215 C	1.4379	50/50	1.4379
963642	AG1-215 E	2.1568	50/50	2.1568
964111	AG1-272 C	3.0507	50/50	3.0507
964112	AG1-272 E	0.9061	50/50	0.9061
964121	AG1-273 C	3.0507	50/50	3.0507
964122	AG1-273 E	0.9061	50/50	0.9061
964131	AG1-274 C	3.0507	50/50	3.0507
964132	AG1-274 E	0.9061	50/50	0.9061
964241	AG1-285 C O1	18.0293	50/50	18.0293
964242	AG1-285 E O1	12.0195	50/50	12.0195
964793	AG1-342 BAT	3.3423	50/50	3.3423
964821	AG1-345 C	1.2324	50/50	1.2324
964822	AG1-345 E	0.8216	50/50	0.8216
965191	AG1-384 C	3.0507	50/50	3.0507
965192	AG1-384 E	0.9061	50/50	0.9061

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965281	AG1-393 C	3.0811	50/50	3.0811
965282	AG1-393 E	2.0541	50/50	2.0541
965451	AG1-413 C O1	7.0727	50/50	7.0727
965452	AG1-413 E O1	4.7152	50/50	4.7152
965591	AG1-427 C	17.0142	50/50	17.0142
965592	AG1-427 E	11.3667	50/50	11.3667
965601	AG1-428 C O1	1.7194	Adder	3.82
965602	AG1-428 E O1	1.1442	Adder	2.54
965641	AG1-432 C O1	4.4053	Adder	9.78
965642	AG1-432 E O1	2.9369	Adder	6.52
965721	AG1-440 C	2.4799	Adder	5.5
965722	AG1-440 E	1.6533	Adder	3.67
965731	AG1-441 C	2.4799	Adder	5.5
965732	AG1-441 E	1.6533	Adder	3.67
965771	AG1-445	1.4329	Adder	3.18
965781	AG1-446	1.4329	Adder	3.18
965831	AG1-451	0.7342	Adder	1.63
966621	AG1-532 C	0.2278	Adder	0.51
966622	AG1-532 E	0.1519	Adder	0.34
966751	AG1-546 C	4.0416	Adder	8.97
966752	AG1-546 E	2.1686	Adder	4.81
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4405	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2937	Adder	0.65
G-007A	G-007A	0.1175	Confirmed LTF	0.1175
VFT	VFT	0.3096	Confirmed LTF	0.3096
CALDERWOOD	CALDERWOOD	0.1218	Confirmed LTF	0.1218
PRAIRIE	PRAIRIE	0.5011	Confirmed LTF	0.5011
CHEOAH	CHEOAH	0.1231	Confirmed LTF	0.1231
CBM-N	CBM-N	0.0564	Confirmed LTF	0.0564
COTTONWOOD	COTTONWOOD	0.4599	Confirmed LTF	0.4599
HAMLET	HAMLET	0.1438	Confirmed LTF	0.1438
GIBSON	GIBSON	0.0994	Confirmed LTF	0.0994
BLUEG	BLUEG	0.3177	Confirmed LTF	0.3177
TRIMBLE	TRIMBLE	0.1013	Confirmed LTF	0.1013
CATAWBA	CATAWBA	0.1033	Confirmed LTF	0.1033

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
166980234	314665	3CLRK TAP	DVP	314699	3ISLND C	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	99.7	107.31	DC	15.82

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4229	50/50	0.4229
313853	3PONTONDP	0.2999	Adder	0.35
314713	3PAMPLIN	0.6573	Adder	0.77
315266	1PLYWOOD A	0.9917	50/50	0.9917
316118	AC1-105 C	2.4718	Adder	2.91
316129	AC1-054 C	-7.0449	Adder	-8.29
316131	AB2-060 C	1.1992	50/50	1.1992
924022	AB2-043 E O1	2.3969	50/50	2.3969
924162	AB2-060 E OP	3.5768	50/50	3.5768
924301	AB2-077 C O1 (Suspended)	1.9992	50/50	1.9992
924302	AB2-077 E O1 (Suspended)	1.3328	50/50	1.3328
924311	AB2-078 C O1 (Suspended)	1.9992	50/50	1.9992
924312	AB2-078 E O1 (Suspended)	1.3328	50/50	1.3328
924321	AB2-079 C O1 (Suspended)	1.9992	50/50	1.9992
924322	AB2-079 E O1 (Suspended)	1.3328	50/50	1.3328
925611	AC1-036 C	0.1533	50/50	0.1533
925612	AC1-036 E	0.5817	50/50	0.5817
926274	AC1-105 E	1.2144	Adder	1.43
927261	AC1-222 C	1.2514	Adder	1.47
927262	AC1-222 E	1.1913	Adder	1.4
934311	AD1-055 C	0.8689	Adder	1.02
934312	AD1-055 E	0.2241	Adder	0.26
935222	AD1-157 E	0.4052	Adder	0.48
936265	AD2-033 C	9.2391	50/50	9.2391
936266	AD2-033 E	6.1594	50/50	6.1594
936485	AD2-063 C	11.7639	50/50	11.7639
936486	AD2-063 E	7.8426	50/50	7.8426
938371	AE1-056 C	2.6206	Adder	3.08
938372	AE1-056 E	1.4319	Adder	1.68
940662	AE2-053 BAT	5.6696	50/50	5.6696
942451	AE2-258	1.9998	50/50	1.9998
942461	AE2-259 C O1	2.8346	Adder	3.33
942462	AE2-259 E O1	1.8897	Adder	2.22
943901	AF1-058 C	0.7075	Adder	0.83
943902	AF1-058 E	0.4716	Adder	0.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943911	AF1-059	6.4092	Adder	7.54
946301	AF1-294 C	1.9120	Adder	2.25
946302	AF1-294 E	1.2746	Adder	1.5
958211	AF2-115 C	1.1247	Adder	1.32
958212	AF2-115 E	0.7498	Adder	0.88
958801	AF2-171 C	6.7878	Adder	7.99
958802	AF2-171 E	4.5252	Adder	5.32
959311	AF2-222 C	10.9430	50/50	10.9430
959312	AF2-222 E	7.3318	50/50	7.3318
960061	AF2-297 C	2.8299	Adder	3.33
960062	AF2-297 E	1.8866	Adder	2.22
961791	AG1-021 C	0.4769	Adder	1.06
961792	AG1-021 E	0.3179	Adder	0.71
961891	AG1-030 C	3.9256	Adder	8.71
961892	AG1-030 E	2.6170	Adder	5.81
962041	AG1-048 C	2.9804	Adder	6.62
962042	AG1-048 E	1.9869	Adder	4.41
962441	AG1-093 C O1	3.4935	Adder	7.75
962442	AG1-093 E O1	1.0632	Adder	2.36
963171	AG1-166 C	0.4769	Adder	1.06
963172	AG1-166 E	0.3179	Adder	0.71
963181	AG1-167 C	0.4769	Adder	1.06
963182	AG1-167 E	0.3179	Adder	0.71
963191	AG1-168 C	0.4769	Adder	1.06
963192	AG1-168 E	0.3179	Adder	0.71
963201	AG1-169 C	0.4769	Adder	1.06
963202	AG1-169 E	0.3179	Adder	0.71
963211	AG1-170 C	0.4769	Adder	1.06
963212	AG1-170 E	0.3179	Adder	0.71
963301	AG1-179 C	0.7641	Adder	1.7
963311	AG1-180	0.3723	Adder	0.83
963321	AG1-181 C O1	11.8437	50/50	11.8437
963361	AG1-185 O1	5.7303	50/50	5.7303
963641	AG1-215 C	0.2225	Adder	0.49
963642	AG1-215 E	0.3338	Adder	0.74
964111	AG1-272 C	1.7417	50/50	1.7417
964112	AG1-272 E	0.5173	50/50	0.5173
964121	AG1-273 C	1.7417	50/50	1.7417
964122	AG1-273 E	0.5173	50/50	0.5173
964131	AG1-274 C	1.7417	50/50	1.7417
964132	AG1-274 E	0.5173	50/50	0.5173
964241	AG1-285 C O1	10.0455	50/50	10.0455
964242	AG1-285 E O1	6.6970	50/50	6.6970
964261	AG1-287 C	0.2812	Adder	0.62
964262	AG1-287 E	0.1875	Adder	0.42
964471	AG1-310 C	0.3757	Adder	0.83
964472	AG1-310 E	0.1850	Adder	0.41
964791	AG1-342 C	1.1283	Adder	2.5
964792	AG1-342 E	0.8865	Adder	1.97
964821	AG1-345 C	0.1914	Adder	0.42
964822	AG1-345 E	0.1276	Adder	0.28
965191	AG1-384 C	1.7417	50/50	1.7417

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965192	AG1-384 E	0.5173	50/50	0.5173
965281	AG1-393 C	0.4769	Adder	1.06
965282	AG1-393 E	0.3179	Adder	0.71
965451	AG1-413 C O1	1.4279	Adder	3.17
965452	AG1-413 E O1	0.9519	Adder	2.11
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O1	0.6379	Adder	1.42
965602	AG1-428 E O1	0.4245	Adder	0.94
965641	AG1-432 C O1	3.0047	Adder	6.67
965642	AG1-432 E O1	2.0031	Adder	4.45
965772	AG1-445 BAT	6.4462	50/50	6.4462
965782	AG1-446 BAT	6.4462	50/50	6.4462
965831	AG1-451	0.5008	Adder	1.11
966753	AG1-546 BAT	6.4143	50/50	6.4143
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3005	Adder	0.67
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2003	Adder	0.44
G-007A	G-007A	0.1654	Confirmed LTF	0.1654
VFT	VFT	0.4451	Confirmed LTF	0.4451
CALDERWOOD	CALDERWOOD	0.0984	Confirmed LTF	0.0984
PRAIRIE	PRAIRIE	0.2144	Confirmed LTF	0.2144
CHEOAH	CHEOAH	0.1026	Confirmed LTF	0.1026
CBM-N	CBM-N	0.0828	Confirmed LTF	0.0828
COTTONWOOD	COTTONWOOD	0.3360	Confirmed LTF	0.3360
HAMLET	HAMLET	0.3274	Confirmed LTF	0.3274
GIBSON	GIBSON	0.0229	Confirmed LTF	0.0229
BLUEG	BLUEG	0.0590	Confirmed LTF	0.0590
TRIMBLE	TRIMBLE	0.0178	Confirmed LTF	0.0178
CATAWBA	CATAWBA	0.1431	Confirmed LTF	0.1431

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
166980276	314669	3BARNJ	DVP	314684	3MT LREL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	96.91	103.88	DC	28.38

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.7646	50/50	0.7646
313853	3PONTONDP	1.0270	50/50	1.0270
314429	3JTRSVLE	0.6481	50/50	0.6481
314713	3PAMPLIN	1.0747	Adder	1.26
315161	1KERR 4	0.9067	50/50	0.9067
315162	1KERR 5	0.9067	50/50	0.9067
315163	1KERR 6	0.9067	50/50	0.9067
315164	1KERR 7	0.9067	50/50	0.9067
316129	AC1-054 C	3.6751	Adder	4.32
316131	AB2-060 C	2.2037	50/50	2.2037
924022	AB2-043 E O1	4.3333	50/50	4.3333
924162	AB2-060 E OP	6.5731	50/50	6.5731
924301	AB2-077 C O1 (Suspended)	2.8934	50/50	2.8934
924302	AB2-077 E O1 (Suspended)	1.9290	50/50	1.9290
924311	AB2-078 C O1 (Suspended)	2.8934	50/50	2.8934
924312	AB2-078 E O1 (Suspended)	1.9290	50/50	1.9290
924321	AB2-079 C O1 (Suspended)	2.8934	50/50	2.8934
924322	AB2-079 E O1 (Suspended)	1.9290	50/50	1.9290
925611	AC1-036 C	0.2684	50/50	0.2684
925612	AC1-036 E	1.0189	50/50	1.0189
925785	AC1-054 E	1.6930	Adder	1.99
927261	AC1-222 C	-1.9440	Adder	-2.29
934311	AD1-055 C	-1.3497	Adder	-1.59
935222	AD1-157 E	0.6626	Adder	0.78
936265	AD2-033 C	20.0273	50/50	20.0273
936266	AD2-033 E	13.3515	50/50	13.3515
936361	AD2-046 C O1	8.5850	50/50	8.5850
936362	AD2-046 E O1	3.9478	50/50	3.9478
936485	AD2-063 C	21.0465	50/50	21.0465
936486	AD2-063 E	14.0310	50/50	14.0310
938371	AE1-056 C	4.2848	Adder	5.04
938372	AE1-056 E	2.3412	Adder	2.75
939181	AE1-148 C	8.6800	50/50	8.6800
939182	AE1-148 E	5.7866	50/50	5.7866
940661	AE2-053 O1	3.2148	50/50	3.2148
942451	AE2-258	3.6154	50/50	3.6154

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942461	AE2-259 C O1	4.1560	Adder	4.89
942462	AE2-259 E O1	2.7707	Adder	3.26
943901	AF1-058 C	-1.0975	Adder	-1.29
943911	AF1-059	16.8253	50/50	16.8253
946281	AF1-292 C	0.4724	Adder	0.56
946282	AF1-292 E	0.3184	Adder	0.37
946301	AF1-294 C	6.5474	50/50	6.5474
946302	AF1-294 E	4.3649	50/50	4.3649
958211	AF2-115 C	3.8514	50/50	3.8514
958212	AF2-115 E	2.5676	50/50	2.5676
958801	AF2-171 C	13.3857	50/50	13.3857
958802	AF2-171 E	8.9238	50/50	8.9238
959311	AF2-222 C	19.0690	50/50	19.0690
959312	AF2-222 E	12.7762	50/50	12.7762
960081	AF2-299 C	0.7961	Adder	0.94
960082	AF2-299 E	0.5307	Adder	0.62
961791	AG1-021 C	3.0811	50/50	3.0811
961792	AG1-021 E	2.0541	50/50	2.0541
961891	AG1-030 C	23.1084	50/50	23.1084
961892	AG1-030 E	15.4056	50/50	15.4056
962041	AG1-048 C	19.2570	50/50	19.2570
962042	AG1-048 E	12.8380	50/50	12.8380
962443	AG1-093 BAT	11.9375	50/50	11.9375
963171	AG1-166 C	3.0811	50/50	3.0811
963172	AG1-166 E	2.0541	50/50	2.0541
963181	AG1-167 C	3.0811	50/50	3.0811
963182	AG1-167 E	2.0541	50/50	2.0541
963191	AG1-168 C	3.0811	50/50	3.0811
963192	AG1-168 E	2.0541	50/50	2.0541
963201	AG1-169 C	3.0811	50/50	3.0811
963202	AG1-169 E	2.0541	50/50	2.0541
963211	AG1-170 C	3.0811	50/50	3.0811
963212	AG1-170 E	2.0541	50/50	2.0541
963301	AG1-179 C	2.0596	Adder	4.57
963311	AG1-180	1.0035	Adder	2.23
963321	AG1-181 C O1	20.8619	50/50	20.8619
963361	AG1-185 O1	10.0936	50/50	10.0936
963641	AG1-215 C	1.4379	50/50	1.4379
963642	AG1-215 E	2.1568	50/50	2.1568
964111	AG1-272 C	3.0507	50/50	3.0507
964112	AG1-272 E	0.9061	50/50	0.9061
964121	AG1-273 C	3.0507	50/50	3.0507
964122	AG1-273 E	0.9061	50/50	0.9061
964131	AG1-274 C	3.0507	50/50	3.0507
964132	AG1-274 E	0.9061	50/50	0.9061
964241	AG1-285 C O1	18.0293	50/50	18.0293
964242	AG1-285 E O1	12.0195	50/50	12.0195
964793	AG1-342 BAT	3.3423	50/50	3.3423
964821	AG1-345 C	1.2324	50/50	1.2324
964822	AG1-345 E	0.8216	50/50	0.8216
965191	AG1-384 C	3.0507	50/50	3.0507
965192	AG1-384 E	0.9061	50/50	0.9061

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965281	AG1-393 C	3.0811	50/50	3.0811
965282	AG1-393 E	2.0541	50/50	2.0541
965451	AG1-413 C O1	7.0727	50/50	7.0727
965452	AG1-413 E O1	4.7152	50/50	4.7152
965591	AG1-427 C	17.0142	50/50	17.0142
965592	AG1-427 E	11.3667	50/50	11.3667
965601	AG1-428 C O1	1.7194	Adder	3.82
965602	AG1-428 E O1	1.1442	Adder	2.54
965641	AG1-432 C O1	4.4053	Adder	9.78
965642	AG1-432 E O1	2.9369	Adder	6.52
965721	AG1-440 C	2.4799	Adder	5.5
965722	AG1-440 E	1.6533	Adder	3.67
965731	AG1-441 C	2.4799	Adder	5.5
965732	AG1-441 E	1.6533	Adder	3.67
965771	AG1-445	1.4329	Adder	3.18
965781	AG1-446	1.4329	Adder	3.18
965831	AG1-451	0.7342	Adder	1.63
966621	AG1-532 C	0.2278	Adder	0.51
966622	AG1-532 E	0.1519	Adder	0.34
966751	AG1-546 C	4.0416	Adder	8.97
966752	AG1-546 E	2.1686	Adder	4.81
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4405	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2937	Adder	0.65
G-007A	G-007A	0.1175	Confirmed LTF	0.1175
VFT	VFT	0.3096	Confirmed LTF	0.3096
CALDERWOOD	CALDERWOOD	0.1218	Confirmed LTF	0.1218
PRAIRIE	PRAIRIE	0.5011	Confirmed LTF	0.5011
CHEOAH	CHEOAH	0.1231	Confirmed LTF	0.1231
CBM-N	CBM-N	0.0564	Confirmed LTF	0.0564
COTTONWOOD	COTTONWOOD	0.4599	Confirmed LTF	0.4599
HAMLET	HAMLET	0.1438	Confirmed LTF	0.1438
GIBSON	GIBSON	0.0994	Confirmed LTF	0.0994
BLUEG	BLUEG	0.3177	Confirmed LTF	0.3177
TRIMBLE	TRIMBLE	0.1013	Confirmed LTF	0.1013
CATAWBA	CATAWBA	0.1033	Confirmed LTF	0.1033

11.6.9 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
166980216	314781	3BLACKBR	DVP	314788	3JONESTO	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	107.96	116.37	DC	25.3

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6786	50/50	0.6786
313853	3PONTONDP	0.5479	50/50	0.5479
314429	3JTRSVLE	0.3458	50/50	0.3458
314713	3PAMPLIN	1.1895	50/50	1.1895
316129	AC1-054 C	-3.5586	Adder	-4.19
316131	AB2-060 C	1.9221	50/50	1.9221
924022	AB2-043 E O1	3.8463	50/50	3.8463
924162	AB2-060 E OP	5.7331	50/50	5.7331
924301	AB2-077 C O1 (Suspended)	3.3240	50/50	3.3240
924302	AB2-077 E O1 (Suspended)	2.2160	50/50	2.2160
924311	AB2-078 C O1 (Suspended)	3.3240	50/50	3.3240
924312	AB2-078 E O1 (Suspended)	2.2160	50/50	2.2160
924321	AB2-079 C O1 (Suspended)	3.3240	50/50	3.3240
924322	AB2-079 E O1 (Suspended)	2.2160	50/50	2.2160
925611	AC1-036 C	0.2426	50/50	0.2426
925612	AC1-036 E	0.9209	50/50	0.9209
935221	AD1-157 C	0.1736	50/50	0.1736
935222	AD1-157 E	0.7334	50/50	0.7334
936265	AD2-033 C	14.6671	50/50	14.6671
936266	AD2-033 E	9.7781	50/50	9.7781
936485	AD2-063 C	18.7920	50/50	18.7920
936486	AD2-063 E	12.5280	50/50	12.5280
938371	AE1-056 C	4.7425	50/50	4.7425
938372	AE1-056 E	2.5913	50/50	2.5913
940662	AE2-053 BAT	2.9720	50/50	2.9720
942451	AE2-258	3.2090	50/50	3.2090
942461	AE2-259 C O1	4.1764	Adder	4.91
942462	AE2-259 E O1	2.7843	Adder	3.28
943911	AF1-059	13.6212	50/50	13.6212
946301	AF1-294 C	3.4930	50/50	3.4930
946302	AF1-294 E	2.3287	50/50	2.3287
958211	AF2-115 C	2.0547	50/50	2.0547
958212	AF2-115 E	1.3698	50/50	1.3698
958801	AF2-171 C	12.4101	50/50	12.4101
958802	AF2-171 E	8.2734	50/50	8.2734

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959311	AF2-222 C	17.2850	50/50	17.2850
959312	AF2-222 E	11.5809	50/50	11.5809
961791	AG1-021 C	1.6438	50/50	1.6438
961792	AG1-021 E	1.0958	50/50	1.0958
961891	AG1-030 C	13.6368	50/50	13.6368
961892	AG1-030 E	9.0912	50/50	9.0912
962041	AG1-048 C	10.2735	50/50	10.2735
962042	AG1-048 E	6.8490	50/50	6.8490
963171	AG1-166 C	1.6438	50/50	1.6438
963172	AG1-166 E	1.0958	50/50	1.0958
963181	AG1-167 C	1.6438	50/50	1.6438
963182	AG1-167 E	1.0958	50/50	1.0958
963191	AG1-168 C	1.6438	50/50	1.6438
963192	AG1-168 E	1.0958	50/50	1.0958
963201	AG1-169 C	1.6438	50/50	1.6438
963202	AG1-169 E	1.0958	50/50	1.0958
963211	AG1-170 C	1.6438	50/50	1.6438
963212	AG1-170 E	1.0958	50/50	1.0958
963301	AG1-179 C	3.4390	50/50	3.4390
963311	AG1-180	1.6756	50/50	1.6756
963321	AG1-181 C O1	18.7936	50/50	18.7936
963361	AG1-185 O1	9.0929	50/50	9.0929
963641	AG1-215 C	0.7671	50/50	0.7671
963642	AG1-215 E	1.1506	50/50	1.1506
964111	AG1-272 C	2.7573	50/50	2.7573
964112	AG1-272 E	0.8189	50/50	0.8189
964121	AG1-273 C	2.7573	50/50	2.7573
964122	AG1-273 E	0.8189	50/50	0.8189
964131	AG1-274 C	2.7573	50/50	2.7573
964132	AG1-274 E	0.8189	50/50	0.8189
964241	AG1-285 C O1	16.0687	50/50	16.0687
964242	AG1-285 E O1	10.7125	50/50	10.7125
964791	AG1-342 C	1.0172	Adder	2.26
964792	AG1-342 E	0.7992	Adder	1.77
964821	AG1-345 C	0.6599	50/50	0.6599
964822	AG1-345 E	0.4399	50/50	0.4399
965191	AG1-384 C	2.7573	50/50	2.7573
965192	AG1-384 E	0.8189	50/50	0.8189
965281	AG1-393 C	1.6438	50/50	1.6438
965282	AG1-393 E	1.0958	50/50	1.0958
965451	AG1-413 C O1	5.7258	50/50	5.7258
965452	AG1-413 E O1	3.8172	50/50	3.8172
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O1	2.8710	50/50	2.8710
965602	AG1-428 E O1	1.9106	50/50	1.9106
965641	AG1-432 C O1	4.4270	Adder	9.83
965642	AG1-432 E O1	2.9513	Adder	6.55
965772	AG1-445 BAT	3.3454	50/50	3.3454
965782	AG1-446 BAT	3.3454	50/50	3.3454
965831	AG1-451	0.7378	Adder	1.64
966753	AG1-546 BAT	1.7033	Merchant Transmission	1.7033

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4427	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2951	Adder	0.66
G-007A	G-007A	0.2062	Confirmed LTF	0.2062
VFT	VFT	0.5483	Confirmed LTF	0.5483
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
PRAIRIE	PRAIRIE	0.4314	Confirmed LTF	0.4314
CHEOAH	CHEOAH	0.1426	Confirmed LTF	0.1426
CBM-N	CBM-N	0.1008	Confirmed LTF	0.1008
COTTONWOOD	COTTONWOOD	0.4977	Confirmed LTF	0.4977
HAMLET	HAMLET	0.3182	Confirmed LTF	0.3182
GIBSON	GIBSON	0.0710	Confirmed LTF	0.0710
BLUEG	BLUEG	0.2153	Confirmed LTF	0.2153
TRIMBLE	TRIMBLE	0.0684	Confirmed LTF	0.0684
CATAWBA	CATAWBA	0.1614	Confirmed LTF	0.1614

11.6.10 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
168234320	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	129.39	130.65	DC	5.12

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

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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
166980206	313705	3KERRDP	DVP	314702	3KERR	DVP	1	DVP_P7-1: LN 171-1009	tower	195.0	105.43	113.54	DC	15.82

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4229	50/50	0.4229
313853	3PONTONDP	0.2999	Adder	0.35
314713	3PAMPLIN	0.6573	Adder	0.77
315266	1PLYWOOD A	0.9917	50/50	0.9917
316118	AC1-105 C	2.4718	Adder	2.91
316129	AC1-054 C	-7.0449	Adder	-8.29
316131	AB2-060 C	1.1992	50/50	1.1992
924022	AB2-043 E O1	2.3969	50/50	2.3969
924162	AB2-060 E OP	3.5768	50/50	3.5768
924301	AB2-077 C O1 (Suspended)	1.9992	50/50	1.9992
924302	AB2-077 E O1 (Suspended)	1.3328	50/50	1.3328
924311	AB2-078 C O1 (Suspended)	1.9992	50/50	1.9992
924312	AB2-078 E O1 (Suspended)	1.3328	50/50	1.3328
924321	AB2-079 C O1 (Suspended)	1.9992	50/50	1.9992
924322	AB2-079 E O1 (Suspended)	1.3328	50/50	1.3328
925611	AC1-036 C	0.1533	50/50	0.1533
925612	AC1-036 E	0.5817	50/50	0.5817
926274	AC1-105 E	1.2144	Adder	1.43
927261	AC1-222 C	1.2514	Adder	1.47
927262	AC1-222 E	1.1913	Adder	1.4
934311	AD1-055 C	0.8689	Adder	1.02
934312	AD1-055 E	0.2241	Adder	0.26
935222	AD1-157 E	0.4052	Adder	0.48
936265	AD2-033 C	9.2391	50/50	9.2391
936266	AD2-033 E	6.1594	50/50	6.1594
936485	AD2-063 C	11.7639	50/50	11.7639
936486	AD2-063 E	7.8426	50/50	7.8426
938371	AE1-056 C	2.6206	Adder	3.08
938372	AE1-056 E	1.4319	Adder	1.68
940662	AE2-053 BAT	5.6696	50/50	5.6696
942451	AE2-258	1.9998	50/50	1.9998
942461	AE2-259 C O1	2.8346	Adder	3.33
942462	AE2-259 E O1	1.8897	Adder	2.22
943901	AF1-058 C	0.7075	Adder	0.83
943902	AF1-058 E	0.4716	Adder	0.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943911	AF1-059	6.4092	Adder	7.54
946301	AF1-294 C	1.9120	Adder	2.25
946302	AF1-294 E	1.2746	Adder	1.5
958211	AF2-115 C	1.1247	Adder	1.32
958212	AF2-115 E	0.7498	Adder	0.88
958801	AF2-171 C	6.7878	Adder	7.99
958802	AF2-171 E	4.5252	Adder	5.32
959311	AF2-222 C	10.9430	50/50	10.9430
959312	AF2-222 E	7.3318	50/50	7.3318
960061	AF2-297 C	2.8299	Adder	3.33
960062	AF2-297 E	1.8866	Adder	2.22
961791	AG1-021 C	0.4769	Adder	1.06
961792	AG1-021 E	0.3179	Adder	0.71
961891	AG1-030 C	3.9256	Adder	8.71
961892	AG1-030 E	2.6170	Adder	5.81
962041	AG1-048 C	2.9804	Adder	6.62
962042	AG1-048 E	1.9869	Adder	4.41
962441	AG1-093 C O1	3.4935	Adder	7.75
962442	AG1-093 E O1	1.0632	Adder	2.36
963171	AG1-166 C	0.4769	Adder	1.06
963172	AG1-166 E	0.3179	Adder	0.71
963181	AG1-167 C	0.4769	Adder	1.06
963182	AG1-167 E	0.3179	Adder	0.71
963191	AG1-168 C	0.4769	Adder	1.06
963192	AG1-168 E	0.3179	Adder	0.71
963201	AG1-169 C	0.4769	Adder	1.06
963202	AG1-169 E	0.3179	Adder	0.71
963211	AG1-170 C	0.4769	Adder	1.06
963212	AG1-170 E	0.3179	Adder	0.71
963301	AG1-179 C	0.7641	Adder	1.7
963311	AG1-180	0.3723	Adder	0.83
963321	AG1-181 C O1	11.8437	50/50	11.8437
963361	AG1-185 O1	5.7303	50/50	5.7303
963641	AG1-215 C	0.2225	Adder	0.49
963642	AG1-215 E	0.3338	Adder	0.74
964111	AG1-272 C	1.7417	50/50	1.7417
964112	AG1-272 E	0.5173	50/50	0.5173
964121	AG1-273 C	1.7417	50/50	1.7417
964122	AG1-273 E	0.5173	50/50	0.5173
964131	AG1-274 C	1.7417	50/50	1.7417
964132	AG1-274 E	0.5173	50/50	0.5173
964241	AG1-285 C O1	10.0455	50/50	10.0455
964242	AG1-285 E O1	6.6970	50/50	6.6970
964261	AG1-287 C	0.2812	Adder	0.62
964262	AG1-287 E	0.1875	Adder	0.42
964471	AG1-310 C	0.3757	Adder	0.83
964472	AG1-310 E	0.1850	Adder	0.41
964791	AG1-342 C	1.1283	Adder	2.5
964792	AG1-342 E	0.8865	Adder	1.97
964821	AG1-345 C	0.1914	Adder	0.42
964822	AG1-345 E	0.1276	Adder	0.28
965191	AG1-384 C	1.7417	50/50	1.7417

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965192	AG1-384 E	0.5173	50/50	0.5173
965281	AG1-393 C	0.4769	Adder	1.06
965282	AG1-393 E	0.3179	Adder	0.71
965451	AG1-413 C O1	1.4279	Adder	3.17
965452	AG1-413 E O1	0.9519	Adder	2.11
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O1	0.6379	Adder	1.42
965602	AG1-428 E O1	0.4245	Adder	0.94
965641	AG1-432 C O1	3.0047	Adder	6.67
965642	AG1-432 E O1	2.0031	Adder	4.45
965772	AG1-445 BAT	6.4462	50/50	6.4462
965782	AG1-446 BAT	6.4462	50/50	6.4462
965831	AG1-451	0.5008	Adder	1.11
966753	AG1-546 BAT	6.4143	50/50	6.4143
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3005	Adder	0.67
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2003	Adder	0.44
G-007A	G-007A	0.1654	Confirmed LTF	0.1654
VFT	VFT	0.4451	Confirmed LTF	0.4451
CALDERWOOD	CALDERWOOD	0.0984	Confirmed LTF	0.0984
PRAIRIE	PRAIRIE	0.2144	Confirmed LTF	0.2144
CHEOAH	CHEOAH	0.1026	Confirmed LTF	0.1026
CBM-N	CBM-N	0.0828	Confirmed LTF	0.0828
COTTONWOOD	COTTONWOOD	0.3360	Confirmed LTF	0.3360
HAMLET	HAMLET	0.3274	Confirmed LTF	0.3274
GIBSON	GIBSON	0.0229	Confirmed LTF	0.0229
BLUEG	BLUEG	0.0590	Confirmed LTF	0.0590
TRIMBLE	TRIMBLE	0.0178	Confirmed LTF	0.0178
CATAWBA	CATAWBA	0.1431	Confirmed LTF	0.1431

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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
168518291	313707	6FORK UNION	DVP	961060	AF2-397 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	153.88	155.47	DC	10.53

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

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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
168518431	313725	6DRY BREAD	DVP	314583	6LAKEVEW	DVP	1	DVP_P1-2: LN 238-A	single	375.06	107.27	109.01	DC	6.52

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	12.0489	80/20	12.0489
313527	AB2-043 C	0.2911	80/20	0.2911
314429	3JTRSVLE	0.1505	80/20	0.1505
314572	3EMPORIA	1.0948	80/20	1.0948
314704	3LAWRENC	0.6548	80/20	0.6548
315158	1KERR 1	0.1517	80/20	0.1517
315159	1KERR 2	0.4247	80/20	0.4247
315160	1KERR 3	0.4247	80/20	0.4247
315161	1KERR 4	0.4247	80/20	0.4247
315162	1KERR 5	0.4247	80/20	0.4247
315163	1KERR 6	0.4247	80/20	0.4247
315164	1KERR 7	0.4247	80/20	0.4247
316087	AB2-174 C	2.3145	80/20	2.3145
316096	AB2-100 C1	4.0768	80/20	4.0768
316098	AB2-100 C2	4.0768	80/20	4.0768
316129	AC1-054 C	2.5570	80/20	2.5570
316131	AB2-060 C	0.8247	80/20	0.8247
923991	AB2-040 C O1	13.1226	80/20	13.1226
924301	AB2-077 C O1 (Suspended)	1.1296	80/20	1.1296
924311	AB2-078 C O1 (Suspended)	1.1296	80/20	1.1296
924321	AB2-079 C O1 (Suspended)	1.1296	80/20	1.1296
925611	AC1-036 C	0.1047	80/20	0.1047
935221	AD1-157 C	0.0759	80/20	0.0759
936265	AD2-033 C	6.3203	80/20	6.3203
936361	AD2-046 C O1	3.8168	80/20	3.8168
936485	AD2-063 C	8.0766	80/20	8.0766
938371	AE1-056 C	2.0731	80/20	2.0731
939181	AE1-148 C	3.8205	80/20	3.8205
940481	AE2-033 C	67.1808	80/20	67.1808
940661	AE2-053 O1	1.4150	80/20	1.4150
942451	AE2-258	1.3766	80/20	1.3766
942471	AE2-260 C O1	62.4253	80/20	62.4253
943911	AF1-059	27.2641	80/20	27.2641
946011	AF1-266	56.2356	80/20	56.2356
946281	AF1-292 C	4.3932	80/20	4.3932
946301	AF1-294 C	1.5201	80/20	1.5201
958211	AF2-115 C	0.8942	80/20	0.8942
958801	AF2-171 C	5.4000	80/20	5.4000
959311	AF2-222 C	7.4660	80/20	7.4660

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960081	AF2-299 C	7.4043	80/20	7.4043
961791	AG1-021 C	0.7153	80/20	0.7153
961891	AG1-030 C	5.9139	80/20	5.9139
962041	AG1-048 C	4.4708	80/20	4.4708
963171	AG1-166 C	0.7153	80/20	0.7153
963181	AG1-167 C	0.7153	80/20	0.7153
963191	AG1-168 C	0.7153	80/20	0.7153
963201	AG1-169 C	0.7153	80/20	0.7153
963211	AG1-170 C	0.7153	80/20	0.7153
963301	AG1-179 C	11.5730	80/20	11.5730
963311	AG1-180	5.6386	80/20	5.6386
963321	AG1-181 C O1	8.1014	80/20	8.1014
963361	AG1-185 O1	3.9196	80/20	3.9196
963641	AG1-215 C	0.3338	80/20	0.3338
964111	AG1-272 C	1.1898	80/20	1.1898
964121	AG1-273 C	1.1898	80/20	1.1898
964131	AG1-274 C	1.1898	80/20	1.1898
964241	AG1-285 C O1	6.9023	80/20	6.9023
964791	AG1-342 C	1.3915	80/20	1.3915
964821	AG1-345 C	0.2871	80/20	0.2871
965191	AG1-384 C	1.1898	80/20	1.1898
965281	AG1-393 C	0.7153	80/20	0.7153
965451	AG1-413 C O1	11.4608	80/20	11.4608
965591	AG1-427 C	6.5163	80/20	6.5163
965601	AG1-428 C O1	9.6613	80/20	9.6613
965721	AG1-440 C	2.7747	80/20	2.7747
965731	AG1-441 C	2.7747	80/20	2.7747
965771	AG1-445	1.6032	80/20	1.6032
965781	AG1-446	1.6032	80/20	1.6032
966621	AG1-532 C	3.9983	80/20	3.9983
966751	AG1-546 C	5.5243	80/20	5.5243
CALDERWOOD	CALDERWOOD	0.0626	Confirmed LTF	0.0626
NY	NY	0.0160	Confirmed LTF	0.0160
PRAIRIE	PRAIRIE	0.1963	Confirmed LTF	0.1963
CHEOAH	CHEOAH	0.0646	Confirmed LTF	0.0646
COTTONWOOD	COTTONWOOD	0.2373	Confirmed LTF	0.2373
HAMLET	HAMLET	0.1923	Confirmed LTF	0.1923
GIBSON	GIBSON	0.0317	Confirmed LTF	0.0317
BLUEG	BLUEG	0.0920	Confirmed LTF	0.0920
TRIMBLE	TRIMBLE	0.0295	Confirmed LTF	0.0295
CATAWBA	CATAWBA	0.0753	Confirmed LTF	0.0753

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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
168518232	313755	3FLAT CREEK	DVP	314707	3MORAN	DVP	1	Base Case	single	203.98	122.36	126.22	DC	7.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4009	80/20	0.4009
314429	3JTRSVLE	1.3977	80/20	1.3977
314704	3LAWRENC	0.1117	80/20	0.1117
315158	1KERR 1	0.1906	80/20	0.1906
315159	1KERR 2	0.5337	80/20	0.5337
315160	1KERR 3	0.5337	80/20	0.5337
315161	1KERR 4	0.5337	80/20	0.5337
315162	1KERR 5	0.5337	80/20	0.5337
315163	1KERR 6	0.5337	80/20	0.5337
315164	1KERR 7	0.5337	80/20	0.5337
316118	AC1-105 C	1.8185	80/20	1.8185
316129	AC1-054 C	2.5725	80/20	2.5725
316131	AB2-060 C	1.2911	80/20	1.2911
924301	AB2-077 C O1 (Suspended)	1.5502	80/20	1.5502
924311	AB2-078 C O1 (Suspended)	1.5502	80/20	1.5502
924321	AB2-079 C O1 (Suspended)	1.5502	80/20	1.5502
925611	AC1-036 C	0.0731	80/20	0.0731
936265	AD2-033 C	24.7221	80/20	24.7221
936361	AD2-046 C O1	4.9041	80/20	4.9041
936485	AD2-063 C	9.3060	80/20	9.3060
939181	AE1-148 C	4.9324	80/20	4.9324
940661	AE2-053 O1	1.8268	80/20	1.8268
942451	AE2-258	1.8956	80/20	1.8956
943911	AF1-059	8.9330	80/20	8.9330
946301	AF1-294 C	14.1193	80/20	14.1193
958211	AF2-115 C	8.3055	80/20	8.3055
961791	AG1-021 C	6.6444	80/20	6.6444
961891	AG1-030 C	43.7661	80/20	43.7661
962041	AG1-048 C	41.5275	80/20	41.5275
962441	AG1-093 C O1	4.8493	80/20	4.8493
963171	AG1-166 C	6.6444	80/20	6.6444
963181	AG1-167 C	6.6444	80/20	6.6444
963191	AG1-168 C	6.6444	80/20	6.6444
963201	AG1-169 C	6.6444	80/20	6.6444
963211	AG1-170 C	6.6444	80/20	6.6444
963301	AG1-179 C	2.4494	80/20	2.4494
963311	AG1-180	1.1934	80/20	1.1934
963321	AG1-181 C O1	6.6325	80/20	6.6325
963361	AG1-185 O1	3.2090	80/20	3.2090

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963641	AG1-215 C	3.1007	80/20	3.1007
964111	AG1-272 C	0.8308	80/20	0.8308
964121	AG1-273 C	0.8308	80/20	0.8308
964131	AG1-274 C	0.8308	80/20	0.8308
964241	AG1-285 C O1	8.4308	80/20	8.4308
964791	AG1-342 C	1.8711	80/20	1.8711
964821	AG1-345 C	2.6467	80/20	2.6467
965191	AG1-384 C	0.8308	80/20	0.8308
965281	AG1-393 C	6.6444	80/20	6.6444
965451	AG1-413 C O1	3.7551	80/20	3.7551
965591	AG1-427 C	7.8857	80/20	7.8857
965601	AG1-428 C O1	2.0448	80/20	2.0448
965721	AG1-440 C	3.2508	80/20	3.2508
965731	AG1-441 C	3.2508	80/20	3.2508
965771	AG1-445	1.8782	80/20	1.8782
965781	AG1-446	1.8782	80/20	1.8782
966751	AG1-546 C	5.3496	80/20	5.3496
WEC	WEC	0.0372	Confirmed LTF	0.0372
LGEE	LGEE	0.0760	Confirmed LTF	0.0760
CPL	CPL	0.5255	Confirmed LTF	0.5255
CBM-W2	CBM-W2	1.7830	Confirmed LTF	1.7830
NY	NY	0.0553	Confirmed LTF	0.0553
TVA	TVA	0.3458	Confirmed LTF	0.3458
SIGE	SIGE	0.0256	Confirmed LTF	0.0256
CBM-S2	CBM-S2	5.8255	Confirmed LTF	5.8255
CBM-S1	CBM-S1	0.0851	Confirmed LTF	0.0851
MEC	MEC	0.2320	Confirmed LTF	0.2320
LAGN	LAGN	0.4305	Confirmed LTF	0.4305
CBM-W1	CBM-W1	1.5422	Confirmed LTF	1.5422

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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
168518313	313867	6BREMODIST	DVP	313707	6FORK UNION	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	153.21	154.94	DC	11.48

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
163338987	313868	6CARTERV	DVP	933500	AC2-165 TAP	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	109.89	111.22	DC	13.0

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.7662	50/50	0.7662
314429	3JTRSVLE	0.4835	50/50	0.4835
314677	6BUCKING	0.8051	50/50	0.8051
314713	3PAMPLIN	2.0195	50/50	2.0195
315191	1BEARGRDN G1	14.2615	50/50	14.2615
315192	1BEARGRDN G2	14.2615	50/50	14.2615
315193	1BEARGRDN S1	18.4429	50/50	18.4429
924022	AB2-043 E O1	1.3542	Adder	1.59
924032	AB2-045 E	2.3814	50/50	2.3814
924162	AB2-060 E OP	2.1314	Adder	2.51
924301	AB2-077 C O1 (Suspended)	0.9345	Adder	1.1
924302	AB2-077 E O1 (Suspended)	0.6230	Adder	0.73
924311	AB2-078 C O1 (Suspended)	0.9345	Adder	1.1
924312	AB2-078 E O1 (Suspended)	0.6230	Adder	0.73
924321	AB2-079 C O1 (Suspended)	0.9345	Adder	1.1
924322	AB2-079 E O1 (Suspended)	0.6230	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)	0.7932	50/50	0.7932
932512	AC2-071 E (Withdrawn : 01/22/2021)	2.5326	50/50	2.5326
934625	AD1-088 C	10.6986	50/50	10.6986
934626	AD1-088 E	2.8020	50/50	2.8020
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	29.3769	50/50	29.3769
938822	AE1-108 E O1	13.1844	50/50	13.1844
941011	AE2-092 C	25.2830	50/50	25.2830
941012	AE2-092 E	16.8553	50/50	16.8553

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941791	AE2-182 C	1.7381	50/50	1.7381
941792	AE2-182 E	0.8091	50/50	0.8091
942451	AE2-258	1.1298	Adder	1.33
942461	AE2-259 C O1	15.0522	50/50	15.0522
942462	AE2-259 E O1	10.0348	50/50	10.0348
946291	AF1-293 C O1	39.5443	50/50	39.5443
946292	AF1-293 E O1	7.1136	50/50	7.1136
946301	AF1-294 C	4.8845	50/50	4.8845
946302	AF1-294 E	3.2564	50/50	3.2564
946591	AF1-323 C	9.4261	50/50	9.4261
946592	AF1-323 E	6.2841	50/50	6.2841
957912	AF2-085 BAT	1.8570	Merchant Transmission	1.8570
958131	AF2-107 C	4.3750	50/50	4.3750
958132	AF2-107 E	2.3975	50/50	2.3975
958211	AF2-115 C	2.8733	50/50	2.8733
958212	AF2-115 E	1.9155	50/50	1.9155
958503	AF2-144 BAT	2.6613	50/50	2.6613
958801	AF2-171 C	17.1603	50/50	17.1603
958802	AF2-171 E	11.4402	50/50	11.4402
959311	AF2-222 C	15.3100	50/50	15.3100
959312	AF2-222 E	10.2577	50/50	10.2577
960111	AF2-302 C	3.4277	50/50	3.4277
960112	AF2-302 E	2.2851	50/50	2.2851
961061	AF2-397 C	36.6545	50/50	36.6545
961062	AF2-397 E	24.4364	50/50	24.4364
961791	AG1-021 C	2.2986	50/50	2.2986
961792	AG1-021 E	1.5324	50/50	1.5324
961801	AG1-022 C	3.4277	50/50	3.4277
961802	AG1-022 E	2.2851	50/50	2.2851
961891	AG1-030 C	15.8319	50/50	15.8319
961892	AG1-030 E	10.5546	50/50	10.5546
962041	AG1-048 C	14.3663	50/50	14.3663
962042	AG1-048 E	9.5775	50/50	9.5775
962491	AG1-098 C O1	8.1622	50/50	8.1622
962492	AG1-098 E O1	5.4415	50/50	5.4415
963171	AG1-166 C	2.2986	50/50	2.2986
963172	AG1-166 E	1.5324	50/50	1.5324
963181	AG1-167 C	2.2986	50/50	2.2986
963182	AG1-167 E	1.5324	50/50	1.5324
963191	AG1-168 C	2.2986	50/50	2.2986
963192	AG1-168 E	1.5324	50/50	1.5324
963201	AG1-169 C	2.2986	50/50	2.2986
963202	AG1-169 E	1.5324	50/50	1.5324
963211	AG1-170 C	2.2986	50/50	2.2986
963212	AG1-170 E	1.5324	50/50	1.5324
963271	AG1-176 C O1	14.5637	50/50	14.5637
963272	AG1-176 E O1	9.7091	50/50	9.7091
963321	AG1-181 C O1	14.0576	50/50	14.0576
963361	AG1-185 O1	6.8014	50/50	6.8014
963641	AG1-215 C	1.0727	50/50	1.0727
963642	AG1-215 E	1.6090	50/50	1.6090
964111	AG1-272 C	2.2621	50/50	2.2621

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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 O1	17.0012	50/50	17.0012
964232	AG1-284 E O1	11.3341	50/50	11.3341
964241	AG1-285 C O1	8.1450	50/50	8.1450
964242	AG1-285 E O1	5.4300	50/50	5.4300
964821	AG1-345 C	0.9169	50/50	0.9169
964822	AG1-345 E	0.6113	50/50	0.6113
964841	AG1-347 C	9.1358	50/50	9.1358
964842	AG1-347 E	7.1782	50/50	7.1782
965191	AG1-384 C	2.2621	50/50	2.2621
965192	AG1-384 E	0.6719	50/50	0.6719
965281	AG1-393 C	2.2986	50/50	2.2986
965282	AG1-393 E	1.5324	50/50	1.5324
965581	AG1-426	6.4002	50/50	6.4002
965591	AG1-427 C	7.7911	50/50	7.7911
965592	AG1-427 E	5.2051	50/50	5.2051
965641	AG1-432 C O1	30.1044	50/50	30.1044
965642	AG1-432 E O1	20.0696	50/50	20.0696
965831	AG1-451	5.0174	50/50	5.0174
966251	AG1-494 C	0.7431	Adder	1.65
966252	AG1-494 E	1.1146	Adder	2.47
966791	AG1-550 O1	16.4475	50/50	16.4475
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0104	50/50	3.0104
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	2.0070	50/50	2.0070
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
O-066	O-066	4.9937	Confirmed LTF	4.9937
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
G-007	G-007	0.7865	Confirmed LTF	0.7865
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
168823456	314266	6NORTHAMPTON	DVP	936400	AD2-051 TAP	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	571.52	106.09	107.12	DC	5.88

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3482	80/20	9.3482
313527	AB2-043 C	0.2635	80/20	0.2635
313719	3CHESTNUT	0.6800	80/20	0.6800
314429	3JTRSVLE	0.1333	80/20	0.1333
314572	3EMPORIA	0.6240	80/20	0.6240
314623	3WITAKRS	0.1261	80/20	0.1261
314704	3LAWRENC	0.3599	80/20	0.3599
315126	1ROARAP2	1.5784	80/20	1.5784
315128	1ROARAP4	1.5063	80/20	1.5063
315131	1EDGECEMA (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315132	1EDGECEMB (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315136	1ROSEMG1	3.8526	80/20	3.8526
315137	1ROSEMS1	2.3890	80/20	2.3890
315138	1ROSEMG2	1.8056	80/20	1.8056
315139	1GASTONA	6.0576	80/20	6.0576
315141	1GASTONB	6.0576	80/20	6.0576
315158	1KERR 1	0.2406	80/20	0.2406
315159	1KERR 2	0.6736	80/20	0.6736
315160	1KERR 3	0.6736	80/20	0.6736
315161	1KERR 4	0.6736	80/20	0.6736
315162	1KERR 5	0.6736	80/20	0.6736
315163	1KERR 6	0.6736	80/20	0.6736
315164	1KERR 7	0.6736	80/20	0.6736
315293	1DOMTR9	-3.2350	Adder	-3.81
315294	1DOMTR10	-3.9644	Adder	-4.66
315606	3AA2-053SOLA	1.2789	80/20	1.2789
315607	3AA1-063SOLA	1.1578	80/20	1.1578
315608	3AA2-088SOLA	0.3358	80/20	0.3358
316020	AB2-059 C OP	0.9918	80/20	0.9918
316087	AB2-174 C	1.5774	80/20	1.5774
316096	AB2-100 C1	1.6877	80/20	1.6877
316098	AB2-100 C2	1.6877	80/20	1.6877
316129	AC1-054 C	6.4409	80/20	6.4409
316131	AB2-060 C	0.7464	80/20	0.7464
920591	AA2-165 C	0.0913	80/20	0.0913
922922	AB1-081 C OP	0.8415	80/20	0.8415
923991	AB2-040 C O1	10.1812	80/20	10.1812

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924301	AB2-077 C O1 (Suspended)	1.0495	80/20	1.0495
924311	AB2-078 C O1 (Suspended)	1.0495	80/20	1.0495
924321	AB2-079 C O1 (Suspended)	1.0495	80/20	1.0495
925591	AC1-034 C	4.0719	80/20	4.0719
925611	AC1-036 C	0.0939	80/20	0.0939
926070	AC1-086 C	43.1775	80/20	43.1775
926201	AC1-098 C	2.2605	80/20	2.2605
926211	AC1-099 C	0.7575	80/20	0.7575
927145	AC1-208 C	6.0536	80/20	6.0536
932631	AC2-084 C	3.2224	80/20	3.2224
934331	AD1-057 C O1	12.8767	80/20	12.8767
936265	AD2-033 C	5.6831	80/20	5.6831
936361	AD2-046 C O1	5.4499	80/20	5.4499
936485	AD2-063 C	7.2891	80/20	7.2891
939181	AE1-148 C	5.3455	80/20	5.3455
940481	AE2-033 C	28.0875	80/20	28.0875
940571	AE2-044 C	2.6670	80/20	2.6670
940661	AE2-053 O1	1.9798	80/20	1.9798
942451	AE2-258	1.2459	80/20	1.2459
942471	AE2-260 C O1	26.1001	80/20	26.1001
943911	AF1-059	16.2460	80/20	16.2460
944141	AF1-082	1.7145	80/20	1.7145
946011	AF1-266	23.5115	80/20	23.5115
946281	AF1-292 C	2.2861	80/20	2.2861
946301	AF1-294 C	1.3464	80/20	1.3464
958211	AF2-115 C	0.7920	80/20	0.7920
958801	AF2-171 C	4.7826	80/20	4.7826
959311	AF2-222 C	6.6870	80/20	6.6870
960081	AF2-299 C	3.8531	80/20	3.8531
961791	AG1-021 C	0.6336	80/20	0.6336
961891	AG1-030 C	5.2659	80/20	5.2659
962041	AG1-048 C	3.9600	80/20	3.9600
962571	AG1-106 C	12.0073	80/20	12.0073
963171	AG1-166 C	0.6336	80/20	0.6336
963181	AG1-167 C	0.6336	80/20	0.6336
963191	AG1-168 C	0.6336	80/20	0.6336
963201	AG1-169 C	0.6336	80/20	0.6336
963211	AG1-170 C	0.6336	80/20	0.6336
963301	AG1-179 C	6.5008	80/20	6.5008
963311	AG1-180	3.1673	80/20	3.1673
963321	AG1-181 C O1	7.2785	80/20	7.2785
963361	AG1-185 O1	3.5215	80/20	3.5215
963641	AG1-215 C	0.2957	80/20	0.2957
964111	AG1-272 C	1.0672	80/20	1.0672
964121	AG1-273 C	1.0672	80/20	1.0672
964131	AG1-274 C	1.0672	80/20	1.0672
964241	AG1-285 C O1	6.2348	80/20	6.2348
964501	AG1-313 C O1	2.4851	80/20	2.4851
964791	AG1-342 C	1.3863	80/20	1.3863
964801	AG1-343 C	1.8312	80/20	1.8312

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964821	AG1-345 C	0.2544	80/20	0.2544
965191	AG1-384 C	1.0672	80/20	1.0672
965281	AG1-393 C	0.6336	80/20	0.6336
965291	AG1-394 C	0.7217	80/20	0.7217
965451	AG1-413 C O1	6.8292	80/20	6.8292
965591	AG1-427 C	5.8849	80/20	5.8849
965601	AG1-428 C O1	5.4270	80/20	5.4270
965721	AG1-440 C	5.2830	80/20	5.2830
965731	AG1-441 C	5.2830	80/20	5.2830
965771	AG1-445	3.0524	80/20	3.0524
965781	AG1-446	3.0524	80/20	3.0524
966621	AG1-532 C	2.0806	80/20	2.0806
966751	AG1-546 C	14.6869	80/20	14.6869
966811	AG1-552 C	2.5061	80/20	2.5061
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2482	Confirmed LTF	0.2482
CPL	CPL	1.2381	Confirmed LTF	1.2381
CBM-W2	CBM-W2	5.1251	Confirmed LTF	5.1251
NY	NY	0.1637	Confirmed LTF	0.1637
TVA	TVA	0.9604	Confirmed LTF	0.9604
SIGE	SIGE	0.0801	Confirmed LTF	0.0801
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.2405	Confirmed LTF	0.2405
MEC	MEC	0.7103	Confirmed LTF	0.7103
LAGN	LAGN	1.1900	Confirmed LTF	1.1900
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

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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
163338941	314310	6JUDES F	DVP	314322	6MDLTHAN	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	118.52	119.85	DC	12.98

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.7657	50/50	0.7657
314333	6POWHATN	1.5975	50/50	1.5975
314429	3JTRSVLE	0.4832	50/50	0.4832
314677	6BUCKING	0.8048	50/50	0.8048
314713	3PAMPLIN	2.0181	50/50	2.0181
315191	1BEARGRDN G1	14.2573	50/50	14.2573
315192	1BEARGRDN G2	14.2573	50/50	14.2573
315193	1BEARGRDN S1	18.4374	50/50	18.4374
923862	AB2-026 E	4.5491	50/50	4.5491
924022	AB2-043 E O1	1.3522	Adder	1.59
924032	AB2-045 E	2.3806	50/50	2.3806
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)	0.7929	50/50	0.7929
932512	AC2-071 E (Withdrawn : 01/22/2021)	2.5317	50/50	2.5317
933501	AC2-165 C	39.2365	50/50	39.2365
933502	AC2-165 E	29.5306	50/50	29.5306
934625	AD1-088 C	10.6886	50/50	10.6886
934626	AD1-088 E	2.7994	50/50	2.7994
935221	AD1-157 C	0.2944	50/50	0.2944
935222	AD1-157 E	1.2442	50/50	1.2442
936265	AD2-033 C	10.6447	50/50	10.6447
936266	AD2-033 E	7.0964	50/50	7.0964
936485	AD2-063 C	10.2897	50/50	10.2897
936486	AD2-063 E	6.8598	50/50	6.8598
938371	AE1-056 C	8.0460	50/50	8.0460
938372	AE1-056 E	4.3962	50/50	4.3962
938561	AE1-075 C	1.3891	50/50	1.3891
938562	AE1-075 E	4.3290	50/50	4.3290
938821	AE1-108 C O1	29.3641	50/50	29.3641
938822	AE1-108 E O1	13.1786	50/50	13.1786
941011	AE2-092 C	25.2714	50/50	25.2714
941012	AE2-092 E	16.8476	50/50	16.8476
941791	AE2-182 C	1.7365	50/50	1.7365
941792	AE2-182 E	0.8084	50/50	0.8084
942451	AE2-258	1.1281	Adder	1.33
942461	AE2-259 C O1	15.0438	50/50	15.0438
942462	AE2-259 E O1	10.0292	50/50	10.0292
946291	AF1-293 C O1	39.5291	50/50	39.5291

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946292	AF1-293 E O1	7.1109	50/50	7.1109
946301	AF1-294 C	4.8812	50/50	4.8812
946302	AF1-294 E	3.2541	50/50	3.2541
946591	AF1-323 C	9.4218	50/50	9.4218
946592	AF1-323 E	6.2812	50/50	6.2812
958131	AF2-107 C	4.3708	50/50	4.3708
958132	AF2-107 E	2.3952	50/50	2.3952
958211	AF2-115 C	2.8713	50/50	2.8713
958212	AF2-115 E	1.9142	50/50	1.9142
958501	AF2-144 C	7.4840	50/50	7.4840
958502	AF2-144 E	4.9894	50/50	4.9894
958801	AF2-171 C	17.1486	50/50	17.1486
958802	AF2-171 E	11.4324	50/50	11.4324
959311	AF2-222 C	15.2960	50/50	15.2960
959312	AF2-222 E	10.2483	50/50	10.2483
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8971	50/50	6.8971
959532	AF2-244 E (Withdrawn : 01/06/2021)	4.1089	50/50	4.1089
960111	AF2-302 C	3.4261	50/50	3.4261
960112	AF2-302 E	2.2841	50/50	2.2841
961061	AF2-397 C	36.6436	50/50	36.6436
961062	AF2-397 E	24.4291	50/50	24.4291
961791	AG1-021 C	2.2970	50/50	2.2970
961792	AG1-021 E	1.5314	50/50	1.5314
961801	AG1-022 C	3.4261	50/50	3.4261
961802	AG1-022 E	2.2841	50/50	2.2841
961891	AG1-030 C	15.8193	50/50	15.8193
961892	AG1-030 E	10.5462	50/50	10.5462
962041	AG1-048 C	14.3565	50/50	14.3565
962042	AG1-048 E	9.5710	50/50	9.5710
962491	AG1-098 C O1	8.1525	50/50	8.1525
962492	AG1-098 E O1	5.4350	50/50	5.4350
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 O1	14.5511	50/50	14.5511
963272	AG1-176 E O1	9.7008	50/50	9.7008
963321	AG1-181 C O1	14.0444	50/50	14.0444
963361	AG1-185 O1	6.7951	50/50	6.7951
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964131	AG1-274 C	2.2600	50/50	2.2600
964132	AG1-274 E	0.6712	50/50	0.6712
964231	AG1-284 C O1	16.9953	50/50	16.9953
964232	AG1-284 E O1	11.3302	50/50	11.3302
964241	AG1-285 C O1	8.1345	50/50	8.1345
964242	AG1-285 E O1	5.4230	50/50	5.4230
964821	AG1-345 C	0.9162	50/50	0.9162
964822	AG1-345 E	0.6108	50/50	0.6108
964841	AG1-347 C	9.1280	50/50	9.1280
964842	AG1-347 E	7.1720	50/50	7.1720
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	6.3974	50/50	6.3974
965591	AG1-427 C	7.7812	50/50	7.7812
965592	AG1-427 E	5.1984	50/50	5.1984
965641	AG1-432 C O1	30.0876	50/50	30.0876
965642	AG1-432 E O1	20.0584	50/50	20.0584
965831	AG1-451	5.0146	50/50	5.0146
966791	AG1-550 O1	16.4427	50/50	16.4427
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0088	50/50	3.0088
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	2.0058	50/50	2.0058
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
O-066	O-066	5.0812	Confirmed LTF	5.0812
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
G-007	G-007	0.8001	Confirmed LTF	0.8001
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
163338936	314333	6POWHATN	DVP	314310	6JUDES F	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	118.64	119.96	DC	12.98

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.7657	50/50	0.7657
314333	6POWHATN	1.5975	50/50	1.5975
314429	3JTRSVLE	0.4832	50/50	0.4832
314677	6BUCKING	0.8048	50/50	0.8048
314713	3PAMPLIN	2.0181	50/50	2.0181
315191	1BEARGRDN G1	14.2573	50/50	14.2573
315192	1BEARGRDN G2	14.2573	50/50	14.2573
315193	1BEARGRDN S1	18.4374	50/50	18.4374
923862	AB2-026 E	4.5491	50/50	4.5491
924022	AB2-043 E O1	1.3522	Adder	1.59
924032	AB2-045 E	2.3806	50/50	2.3806
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)	0.7929	50/50	0.7929
932512	AC2-071 E (Withdrawn : 01/22/2021)	2.5317	50/50	2.5317
933501	AC2-165 C	39.2365	50/50	39.2365
933502	AC2-165 E	29.5306	50/50	29.5306
934625	AD1-088 C	10.6886	50/50	10.6886
934626	AD1-088 E	2.7994	50/50	2.7994
935221	AD1-157 C	0.2944	50/50	0.2944
935222	AD1-157 E	1.2442	50/50	1.2442
936265	AD2-033 C	10.6447	50/50	10.6447
936266	AD2-033 E	7.0964	50/50	7.0964
936485	AD2-063 C	10.2897	50/50	10.2897
936486	AD2-063 E	6.8598	50/50	6.8598
938371	AE1-056 C	8.0460	50/50	8.0460
938372	AE1-056 E	4.3962	50/50	4.3962
938561	AE1-075 C	1.3891	50/50	1.3891
938562	AE1-075 E	4.3290	50/50	4.3290
938821	AE1-108 C O1	29.3641	50/50	29.3641
938822	AE1-108 E O1	13.1786	50/50	13.1786
941011	AE2-092 C	25.2714	50/50	25.2714
941012	AE2-092 E	16.8476	50/50	16.8476
941791	AE2-182 C	1.7365	50/50	1.7365
941792	AE2-182 E	0.8084	50/50	0.8084
942451	AE2-258	1.1281	Adder	1.33
942461	AE2-259 C O1	15.0438	50/50	15.0438
942462	AE2-259 E O1	10.0292	50/50	10.0292
946291	AF1-293 C O1	39.5291	50/50	39.5291

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946292	AF1-293 E O1	7.1109	50/50	7.1109
946301	AF1-294 C	4.8812	50/50	4.8812
946302	AF1-294 E	3.2541	50/50	3.2541
946591	AF1-323 C	9.4218	50/50	9.4218
946592	AF1-323 E	6.2812	50/50	6.2812
958131	AF2-107 C	4.3708	50/50	4.3708
958132	AF2-107 E	2.3952	50/50	2.3952
958211	AF2-115 C	2.8713	50/50	2.8713
958212	AF2-115 E	1.9142	50/50	1.9142
958501	AF2-144 C	7.4840	50/50	7.4840
958502	AF2-144 E	4.9894	50/50	4.9894
958801	AF2-171 C	17.1486	50/50	17.1486
958802	AF2-171 E	11.4324	50/50	11.4324
959311	AF2-222 C	15.2960	50/50	15.2960
959312	AF2-222 E	10.2483	50/50	10.2483
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8971	50/50	6.8971
959532	AF2-244 E (Withdrawn : 01/06/2021)	4.1089	50/50	4.1089
960111	AF2-302 C	3.4261	50/50	3.4261
960112	AF2-302 E	2.2841	50/50	2.2841
961061	AF2-397 C	36.6436	50/50	36.6436
961062	AF2-397 E	24.4291	50/50	24.4291
961791	AG1-021 C	2.2970	50/50	2.2970
961792	AG1-021 E	1.5314	50/50	1.5314
961801	AG1-022 C	3.4261	50/50	3.4261
961802	AG1-022 E	2.2841	50/50	2.2841
961891	AG1-030 C	15.8193	50/50	15.8193
961892	AG1-030 E	10.5462	50/50	10.5462
962041	AG1-048 C	14.3565	50/50	14.3565
962042	AG1-048 E	9.5710	50/50	9.5710
962491	AG1-098 C O1	8.1525	50/50	8.1525
962492	AG1-098 E O1	5.4350	50/50	5.4350
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 O1	14.5511	50/50	14.5511
963272	AG1-176 E O1	9.7008	50/50	9.7008
963321	AG1-181 C O1	14.0444	50/50	14.0444
963361	AG1-185 O1	6.7951	50/50	6.7951
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964131	AG1-274 C	2.2600	50/50	2.2600
964132	AG1-274 E	0.6712	50/50	0.6712
964231	AG1-284 C O1	16.9953	50/50	16.9953
964232	AG1-284 E O1	11.3302	50/50	11.3302
964241	AG1-285 C O1	8.1345	50/50	8.1345
964242	AG1-285 E O1	5.4230	50/50	5.4230
964821	AG1-345 C	0.9162	50/50	0.9162
964822	AG1-345 E	0.6108	50/50	0.6108
964841	AG1-347 C	9.1280	50/50	9.1280
964842	AG1-347 E	7.1720	50/50	7.1720
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	6.3974	50/50	6.3974
965591	AG1-427 C	7.7812	50/50	7.7812
965592	AG1-427 E	5.1984	50/50	5.1984
965641	AG1-432 C O1	30.0876	50/50	30.0876
965642	AG1-432 E O1	20.0584	50/50	20.0584
965831	AG1-451	5.0146	50/50	5.0146
966791	AG1-550 O1	16.4427	50/50	16.4427
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0088	50/50	3.0088
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	2.0058	50/50	2.0058
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
O-066	O-066	5.0812	Confirmed LTF	5.0812
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
G-007	G-007	0.8001	Confirmed LTF	0.8001
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
163338835	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	155.14	156.05	DC	16.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	15.9455	50/50	15.9455
313719	3CHESTNUT	1.3128	50/50	1.3128
314435	6SAPONY	1.6670	50/50	1.6670
314572	3EMPORIA	1.1087	50/50	1.1087
314623	3WITAKRS	0.2342	50/50	0.2342
314704	3LAWRENC	0.6439	50/50	0.6439
315126	1ROARAP2	2.4418	50/50	2.4418
315128	1ROARAP4	2.3301	50/50	2.3301
315131	1EDGECEMA (Deactivation : 22/04/2019)	8.3731	Adder	9.85
315132	1EDGECEMB (Deactivation : 22/04/2019)	9.8507	50/50	9.8507
315136	1ROSEMG1	4.5526	50/50	4.5526
315137	1ROSEMS1	2.8231	50/50	2.8231
315138	1ROSEMG2	2.1337	50/50	2.1337
315139	1GASTONA	7.0342	50/50	7.0342
315141	1GASTONB	7.0342	50/50	7.0342
315606	3AA2-053SOLA	2.6601	50/50	2.6601
315607	3AA1-063SOLA	1.9920	50/50	1.9920
316087	AB2-174 C	2.7335	50/50	2.7335
316088	AB2-174 E	15.6758	50/50	15.6758
316096	AB2-100 C1	3.0147	50/50	3.0147
316097	AB2-100 E1	9.4114	50/50	9.4114
316098	AB2-100 C2	3.0147	50/50	3.0147
316099	AB2-100 E2	9.4114	50/50	9.4114
316129	AC1-054 C	10.1945	50/50	10.1945
900672	V4-068 E	0.1993	Adder	0.23
917332	Z2-043 E	0.6197	Adder	0.73
917342	Z2-044 E	0.6361	50/50	0.6361
917512	Z2-088 E OP1	5.4041	Adder	6.36
918492	AA1-063AE OP	5.9534	50/50	5.9534
919692	AA2-053 E OP	6.9228	50/50	6.9228
919702	AA2-057 E OP	3.9278	50/50	3.9278
920042	AA2-088 E OP	7.8586	Adder	9.25
920591	AA2-165 C	0.1762	50/50	0.1762
920592	AA2-165 E	0.5398	50/50	0.5398
922923	AB1-081 E OP	3.4203	Adder	4.02
923262	AB1-132 C OP (Suspended)	34.0469	50/50	34.0469
923263	AB1-132 E OP (Suspended)	14.5915	50/50	14.5915

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923573	AB1-173 E OP	2.4865	50/50	2.4865
923852	AB2-025 E	4.7471	50/50	4.7471
923991	AB2-040 C O1	17.3664	50/50	17.3664
923992	AB2-040 E O1	14.2088	50/50	14.2088
924022	AB2-043 E O1	2.1548	Adder	2.54
924152	AB2-059 E OP	4.8454	Adder	5.7
924162	AB2-060 E OP	3.2111	Adder	3.78
924301	AB2-077 C O1 (Suspended)	1.5117	Adder	1.78
924302	AB2-077 E O1 (Suspended)	1.0078	Adder	1.19
924311	AB2-078 C O1 (Suspended)	1.5117	Adder	1.78
924312	AB2-078 E O1 (Suspended)	1.0078	Adder	1.19
924321	AB2-079 C O1 (Suspended)	1.5117	Adder	1.78
924322	AB2-079 E O1 (Suspended)	1.0078	Adder	1.19
925591	AC1-034 C	6.0923	Adder	7.17
925592	AC1-034 E	4.5960	Adder	5.41
925612	AC1-036 E	0.5109	Adder	0.6
925785	AC1-054 E	4.6963	50/50	4.6963
926070	AC1-086 C	50.1381	50/50	50.1381
926071	AC1-086 E	22.8195	50/50	22.8195
926201	AC1-098 C	6.5680	50/50	6.5680
926202	AC1-098 E	3.9128	50/50	3.9128
926211	AC1-099 C	2.2010	50/50	2.2010
926212	AC1-099 E	1.2926	50/50	1.2926
927024	AC1-189 C	5.1940	Adder	6.11
927025	AC1-189 E	2.5873	Adder	3.04
927145	AC1-208 C	11.7132	50/50	11.7132
927146	AC1-208 E	5.1800	50/50	5.1800
932631	AC2-084 C	9.3628	50/50	9.3628
932632	AC2-084 E	4.6116	50/50	4.6116
934331	AD1-057 C O1	16.7913	50/50	16.7913
934332	AD1-057 E O1	8.9572	50/50	8.9572
936265	AD2-033 C	8.1576	Adder	9.6
936266	AD2-033 E	5.4384	Adder	6.4
936361	AD2-046 C O1	7.6307	Adder	8.98
936362	AD2-046 E O1	3.5090	Adder	4.13
936485	AD2-063 C	10.4935	Adder	12.35
936486	AD2-063 E	6.9957	Adder	8.23
939181	AE1-148 C	7.4927	Adder	8.81
939182	AE1-148 E	4.9951	Adder	5.88
940481	AE2-033 C	65.8511	50/50	65.8511
940482	AE2-033 E	44.3940	50/50	44.3940
940541	AE2-040	12.0209	50/50	12.0209
940571	AE2-044 C	3.9903	Adder	4.69
940572	AE2-044 E	1.7101	Adder	2.01
940661	AE2-053 O1	2.7751	Adder	3.26
942451	AE2-258	1.7978	Adder	2.12
942471	AE2-260 C O1	48.8774	50/50	48.8774

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942472	AE2-260 E O1	69.3266	50/50	69.3266
943911	AF1-059	28.7720	50/50	28.7720
944141	AF1-082	2.5652	Adder	3.02
946011	AF1-266	55.1225	50/50	55.1225
946281	AF1-292 C	4.1202	50/50	4.1202
946282	AF1-292 E	2.7776	50/50	2.7776
957521	AF2-046 C	10.5987	Adder	12.47
957522	AF2-046 E	5.3312	Adder	6.27
957861	AF2-080 C	4.7174	Adder	5.55
957862	AF2-080 E	2.0912	Adder	2.46
959311	AF2-222 C	9.5736	Adder	11.26
959312	AF2-222 E	6.4143	Adder	7.55
960081	AF2-299 C	6.9441	50/50	6.9441
960082	AF2-299 E	4.6294	50/50	4.6294
961671	AG1-007 C	0.4819	Adder	1.07
961672	AG1-007 E	0.2691	Adder	0.6
961681	AG1-008 C	5.6285	Adder	12.49
961682	AG1-008 E	2.8143	Adder	6.25
962571	AG1-106 C	13.9430	50/50	13.9430
962572	AG1-106 E	6.3230	50/50	6.3230
963301	AG1-179 C	11.5979	50/50	11.5979
963311	AG1-180	5.6508	50/50	5.6508
963321	AG1-181 C O1	5.5351	Adder	12.29
963361	AG1-185 O1	2.6780	Adder	5.94
964111	AG1-272 C	0.8107	Adder	1.8
964112	AG1-272 E	0.2408	Adder	0.53
964121	AG1-273 C	0.8107	Adder	1.8
964122	AG1-273 E	0.2408	Adder	0.53
964131	AG1-274 C	0.8107	Adder	1.8
964132	AG1-274 E	0.2408	Adder	0.53
964241	AG1-285 C O1	4.7603	Adder	10.57
964242	AG1-285 E O1	3.1735	Adder	7.04
964501	AG1-313 C O1	8.4920	50/50	8.4920
964502	AG1-313 E O1	5.6613	50/50	5.6613
964801	AG1-343 C	2.4025	Adder	5.33
964802	AG1-343 E	1.8877	Adder	4.19
965191	AG1-384 C	0.8107	Adder	1.8
965192	AG1-384 E	0.2408	Adder	0.53
965291	AG1-394 C	0.8460	Adder	1.88
965292	AG1-394 E	0.5640	Adder	1.25
965451	AG1-413 C O1	12.0947	50/50	12.0947
965452	AG1-413 E O1	8.0631	50/50	8.0631
965591	AG1-427 C	4.4929	Adder	9.97
965592	AG1-427 E	3.0016	Adder	6.66
965601	AG1-428 C O1	9.6821	50/50	9.6821
965602	AG1-428 E O1	6.4433	50/50	6.4433
965711	AG1-439 C O1	8.6618	Adder	19.23
965712	AG1-439 E O1	5.7745	Adder	12.82
965721	AG1-440 C	8.5239	50/50	8.5239
965722	AG1-440 E	5.6826	50/50	5.6826
965731	AG1-441 C	8.5239	50/50	8.5239
965732	AG1-441 E	5.6826	50/50	5.6826

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965761	AG1-444 O1	4.6196	Adder	10.25
965771	AG1-445	4.9249	50/50	4.9249
965781	AG1-446	4.9249	50/50	4.9249
966621	AG1-532 C	3.7498	50/50	3.7498
966622	AG1-532 E	2.4999	50/50	2.4999
966751	AG1-546 C	23.1721	50/50	23.1721
966752	AG1-546 E	12.4334	50/50	12.4334
966811	AG1-552 C	3.8769	50/50	3.8769
966812	AG1-552 E	1.6615	50/50	1.6615
WEC	WEC	0.2731	Confirmed LTF	0.2731
LGEE	LGEE	0.5617	Confirmed LTF	0.5617
CPL	CPL	3.0965	Confirmed LTF	3.0965
CBM-W2	CBM-W2	11.8362	Confirmed LTF	11.8362
NY	NY	0.3583	Confirmed LTF	0.3583
TVA	TVA	2.2232	Confirmed LTF	2.2232
O-066	O-066	5.0744	Confirmed LTF	5.0744
SIGE	SIGE	0.1791	Confirmed LTF	0.1791
CBM-S2	CBM-S2	34.3163	Confirmed LTF	34.3163
CBM-S1	CBM-S1	0.5556	Confirmed LTF	0.5556
G-007	G-007	0.7991	Confirmed LTF	0.7991
MEC	MEC	1.6271	Confirmed LTF	1.6271
LAGN	LAGN	2.7650	Confirmed LTF	2.7650
AA2-074	AA2-074	2.0452	LTF	2.0452
CBM-W1	CBM-W1	11.4403	Confirmed LTF	11.4403

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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
169033576	314559	3CAROLNA	DVP	314561	6CAROLNA	DVP	1	DVP_P1-2: LN 68-A	single	239.89	132.77	135.35	DC	6.19

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.1583	80/20	9.1583
313527	AB2-043 C	0.2767	80/20	0.2767
313719	3CHESTNUT	0.6686	80/20	0.6686
314429	3JTRSVLE	0.1425	80/20	0.1425
314572	3EMPORIA	0.3133	80/20	0.3133
314582	3KELFORD	0.2006	80/20	0.2006
314589	3MURPHYS	0.1129	80/20	0.1129
314623	3WITAKRS	0.0694	80/20	0.0694
314704	3LAWRENC	0.1513	80/20	0.1513
315115	1S HAMPT1	2.4343	80/20	2.4343
315126	1ROARAP2	3.2338	80/20	3.2338
315128	1ROARAP4	3.0859	80/20	3.0859
315158	1KERR 1	0.3617	80/20	0.3617
315159	1KERR 2	1.0128	80/20	1.0128
315160	1KERR 3	1.0128	80/20	1.0128
315161	1KERR 4	1.0128	80/20	1.0128
315162	1KERR 5	1.0128	80/20	1.0128
315163	1KERR 6	1.0128	80/20	1.0128
315164	1KERR 7	1.0128	80/20	1.0128
315606	3AA2-053SOLA	2.9990	80/20	2.9990
315607	3AA1-063SOLA	2.9020	80/20	2.9020
315608	3AA2-088SOLA	1.7420	80/20	1.7420
316087	AB2-174 C	1.2565	80/20	1.2565
316103	AB2-015 C	14.5285	80/20	14.5285
316129	AC1-054 C	11.8223	80/20	11.8223
316131	AB2-060 C	0.7844	80/20	0.7844
316140	AB2-099 C (Suspended)	0.3725	80/20	0.3725
920591	AA2-165 C	0.0898	80/20	0.0898
923991	AB2-040 C O1	9.9744	80/20	9.9744
924301	AB2-077 C O1 (Suspended)	1.1269	80/20	1.1269
924311	AB2-078 C O1 (Suspended)	1.1269	80/20	1.1269
924321	AB2-079 C O1 (Suspended)	1.1269	80/20	1.1269
925611	AC1-036 C	0.0993	80/20	0.0993
926201	AC1-098 C	5.1546	80/20	5.1546
926211	AC1-099 C	1.7273	80/20	1.7273
927145	AC1-208 C	10.1194	80/20	10.1194
932631	AC2-084 C	7.3480	80/20	7.3480
935221	AD1-157 C	0.0717	80/20	0.0717
936265	AD2-033 C	6.0029	80/20	6.0029

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936361	AD2-046 C O1	7.8298	80/20	7.8298
936485	AD2-063 C	7.6716	80/20	7.6716
938371	AE1-056 C	1.9594	80/20	1.9594
938771	AE1-103 C	6.1020	80/20	6.1020
939181	AE1-148 C	7.6064	80/20	7.6064
940661	AE2-053 O1	2.8172	80/20	2.8172
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0703	80/20	0.0703
942451	AE2-258	1.3082	80/20	1.3082
943171	AE2-346 C	0.8941	80/20	0.8941
943911	AF1-059	8.8526	80/20	8.8526
946281	AF1-292 C	0.7553	80/20	0.7553
946301	AF1-294 C	1.4395	80/20	1.4395
957521	AF2-046 C	19.9560	80/20	19.9560
958211	AF2-115 C	0.8468	80/20	0.8468
958801	AF2-171 C	5.1111	80/20	5.1111
959311	AF2-222 C	7.0820	80/20	7.0820
960081	AF2-299 C	1.2731	80/20	1.2731
961091	AF2-400 C	0.7845	80/20	0.7845
961681	AG1-008 C	19.9960	80/20	19.9960
961791	AG1-021 C	0.6774	80/20	0.6774
961891	AG1-030 C	5.6061	80/20	5.6061
961931	AG1-036 C	1.2171	80/20	1.2171
961941	AG1-037 C	0.3193	80/20	0.3193
962041	AG1-048 C	4.2337	80/20	4.2337
962331	AG1-082 C	1.2773	80/20	1.2773
962341	AG1-083 C	1.2773	80/20	1.2773
962351	AG1-084 C	0.7200	80/20	0.7200
962361	AG1-085 C	0.7200	80/20	0.7200
963171	AG1-166 C	0.6774	80/20	0.6774
963181	AG1-167 C	0.6774	80/20	0.6774
963191	AG1-168 C	0.6774	80/20	0.6774
963201	AG1-169 C	0.6774	80/20	0.6774
963211	AG1-170 C	0.6774	80/20	0.6774
963301	AG1-179 C	2.9574	80/20	2.9574
963311	AG1-180	1.4409	80/20	1.4409
963321	AG1-181 C O1	7.6889	80/20	7.6889
963361	AG1-185 O1	3.7201	80/20	3.7201
963641	AG1-215 C	0.3161	80/20	0.3161
964111	AG1-272 C	1.1289	80/20	1.1289
964121	AG1-273 C	1.1289	80/20	1.1289
964131	AG1-274 C	1.1289	80/20	1.1289
964241	AG1-285 C O1	6.5573	80/20	6.5573
964501	AG1-313 C O1	7.6739	80/20	7.6739
964791	AG1-342 C	1.4230	80/20	1.4230
964801	AG1-343 C	9.7545	80/20	9.7545
964821	AG1-345 C	0.2719	80/20	0.2719
965191	AG1-384 C	1.1289	80/20	1.1289
965281	AG1-393 C	0.6774	80/20	0.6774
965291	AG1-394 C	3.4868	80/20	3.4868
965451	AG1-413 C O1	3.7213	80/20	3.7213
965591	AG1-427 C	6.1907	80/20	6.1907
965601	AG1-428 C O1	2.4689	80/20	2.4689

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	8.7340	80/20	8.7340
965731	AG1-441 C	8.7340	80/20	8.7340
965771	AG1-445	5.0463	80/20	5.0463
965781	AG1-446	5.0463	80/20	5.0463
966621	AG1-532 C	0.6874	80/20	0.6874
966751	AG1-546 C	27.3941	80/20	27.3941
966811	AG1-552 C	5.1344	80/20	5.1344
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
SIGE	SIGE	0.0194	Confirmed LTF	0.0194
CBM-S2	CBM-S2	1.7226	Confirmed LTF	1.7226
CBM-S1	CBM-S1	0.0338	Confirmed LTF	0.0338
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

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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
169033681	314561	6CAROLNA	DVP	314599	6ROA VAL	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	548.02	109.29	110.36	DC	5.88

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3482	80/20	9.3482
313527	AB2-043 C	0.2635	80/20	0.2635
313719	3CHESTNUT	0.6800	80/20	0.6800
314429	3JTRSVLE	0.1333	80/20	0.1333
314572	3EMPORIA	0.6240	80/20	0.6240
314623	3WITAKRS	0.1261	80/20	0.1261
314704	3LAWRENC	0.3599	80/20	0.3599
315126	1ROARAP2	1.5784	80/20	1.5784
315128	1ROARAP4	1.5063	80/20	1.5063
315131	1EDGECEMA (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315132	1EDGECEMB (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315136	1ROSEMG1	3.8526	80/20	3.8526
315137	1ROSEMS1	2.3890	80/20	2.3890
315138	1ROSEMG2	1.8056	80/20	1.8056
315139	1GASTONA	6.0576	80/20	6.0576
315141	1GASTONB	6.0576	80/20	6.0576
315158	1KERR 1	0.2406	80/20	0.2406
315159	1KERR 2	0.6736	80/20	0.6736
315160	1KERR 3	0.6736	80/20	0.6736
315161	1KERR 4	0.6736	80/20	0.6736
315162	1KERR 5	0.6736	80/20	0.6736
315163	1KERR 6	0.6736	80/20	0.6736
315164	1KERR 7	0.6736	80/20	0.6736
315293	1DOMTR9	-3.2350	Adder	-3.81
315294	1DOMTR10	-3.9644	Adder	-4.66
315606	3AA2-053SOLA	1.2789	80/20	1.2789
315607	3AA1-063SOLA	1.1578	80/20	1.1578
315608	3AA2-088SOLA	0.3358	80/20	0.3358
316020	AB2-059 C OP	0.9918	80/20	0.9918
316087	AB2-174 C	1.5774	80/20	1.5774
316096	AB2-100 C1	1.6877	80/20	1.6877
316098	AB2-100 C2	1.6877	80/20	1.6877
316129	AC1-054 C	6.4409	80/20	6.4409
316131	AB2-060 C	0.7464	80/20	0.7464
920591	AA2-165 C	0.0913	80/20	0.0913
922922	AB1-081 C OP	0.8415	80/20	0.8415
923991	AB2-040 C O1	10.1812	80/20	10.1812

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924301	AB2-077 C O1 (Suspended)	1.0495	80/20	1.0495
924311	AB2-078 C O1 (Suspended)	1.0495	80/20	1.0495
924321	AB2-079 C O1 (Suspended)	1.0495	80/20	1.0495
925591	AC1-034 C	4.0719	80/20	4.0719
925611	AC1-036 C	0.0939	80/20	0.0939
926070	AC1-086 C	43.1775	80/20	43.1775
926201	AC1-098 C	2.2605	80/20	2.2605
926211	AC1-099 C	0.7575	80/20	0.7575
927145	AC1-208 C	6.0536	80/20	6.0536
932631	AC2-084 C	3.2224	80/20	3.2224
934331	AD1-057 C O1	12.8767	80/20	12.8767
936265	AD2-033 C	5.6831	80/20	5.6831
936361	AD2-046 C O1	5.4499	80/20	5.4499
936485	AD2-063 C	7.2891	80/20	7.2891
939181	AE1-148 C	5.3455	80/20	5.3455
940481	AE2-033 C	28.0875	80/20	28.0875
940571	AE2-044 C	2.6670	80/20	2.6670
940661	AE2-053 O1	1.9798	80/20	1.9798
942451	AE2-258	1.2459	80/20	1.2459
942471	AE2-260 C O1	26.1001	80/20	26.1001
943911	AF1-059	16.2460	80/20	16.2460
944141	AF1-082	1.7145	80/20	1.7145
946011	AF1-266	23.5115	80/20	23.5115
946281	AF1-292 C	2.2861	80/20	2.2861
946301	AF1-294 C	1.3464	80/20	1.3464
958211	AF2-115 C	0.7920	80/20	0.7920
958801	AF2-171 C	4.7826	80/20	4.7826
959311	AF2-222 C	6.6870	80/20	6.6870
960081	AF2-299 C	3.8531	80/20	3.8531
961791	AG1-021 C	0.6336	80/20	0.6336
961891	AG1-030 C	5.2659	80/20	5.2659
962041	AG1-048 C	3.9600	80/20	3.9600
962571	AG1-106 C	12.0073	80/20	12.0073
963171	AG1-166 C	0.6336	80/20	0.6336
963181	AG1-167 C	0.6336	80/20	0.6336
963191	AG1-168 C	0.6336	80/20	0.6336
963201	AG1-169 C	0.6336	80/20	0.6336
963211	AG1-170 C	0.6336	80/20	0.6336
963301	AG1-179 C	6.5008	80/20	6.5008
963311	AG1-180	3.1673	80/20	3.1673
963321	AG1-181 C O1	7.2785	80/20	7.2785
963361	AG1-185 O1	3.5215	80/20	3.5215
963641	AG1-215 C	0.2957	80/20	0.2957
964111	AG1-272 C	1.0672	80/20	1.0672
964121	AG1-273 C	1.0672	80/20	1.0672
964131	AG1-274 C	1.0672	80/20	1.0672
964241	AG1-285 C O1	6.2348	80/20	6.2348
964501	AG1-313 C O1	2.4851	80/20	2.4851
964791	AG1-342 C	1.3863	80/20	1.3863
964801	AG1-343 C	1.8312	80/20	1.8312

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964821	AG1-345 C	0.2544	80/20	0.2544
965191	AG1-384 C	1.0672	80/20	1.0672
965281	AG1-393 C	0.6336	80/20	0.6336
965291	AG1-394 C	0.7217	80/20	0.7217
965451	AG1-413 C O1	6.8292	80/20	6.8292
965591	AG1-427 C	5.8849	80/20	5.8849
965601	AG1-428 C O1	5.4270	80/20	5.4270
965721	AG1-440 C	5.2830	80/20	5.2830
965731	AG1-441 C	5.2830	80/20	5.2830
965771	AG1-445	3.0524	80/20	3.0524
965781	AG1-446	3.0524	80/20	3.0524
966621	AG1-532 C	2.0806	80/20	2.0806
966751	AG1-546 C	14.6869	80/20	14.6869
966811	AG1-552 C	2.5061	80/20	2.5061
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2482	Confirmed LTF	0.2482
CPL	CPL	1.2381	Confirmed LTF	1.2381
CBM-W2	CBM-W2	5.1251	Confirmed LTF	5.1251
NY	NY	0.1637	Confirmed LTF	0.1637
TVA	TVA	0.9604	Confirmed LTF	0.9604
SIGE	SIGE	0.0801	Confirmed LTF	0.0801
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.2405	Confirmed LTF	0.2405
MEC	MEC	0.7103	Confirmed LTF	0.7103
LAGN	LAGN	1.1900	Confirmed LTF	1.1900
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

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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
169033521	314562	3CLUBHSE	DVP	314563	6CLUBHSE	DVP	1	DVP_P1-2: LN 2201	single	182.64	216.44	221.16	DC	8.62

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	1.9760	80/20	1.9760
957521	AF2-046 C	7.4161	80/20	7.4161
958211	AF2-115 C	1.1624	80/20	1.1624
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	0.9299	80/20	0.9299
961891	AG1-030 C	7.7229	80/20	7.7229
961931	AG1-036 C	0.5625	80/20	0.5625
961941	AG1-037 C	0.1955	80/20	0.1955
962041	AG1-048 C	5.8118	80/20	5.8118
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
962441	AG1-093 C O1	5.3728	80/20	5.3728
962571	AG1-106 C	2.7843	80/20	2.7843
963171	AG1-166 C	0.9299	80/20	0.9299
963181	AG1-167 C	0.9299	80/20	0.9299
963191	AG1-168 C	0.9299	80/20	0.9299
963201	AG1-169 C	0.9299	80/20	0.9299
963211	AG1-170 C	0.9299	80/20	0.9299
963301	AG1-179 C	12.9655	80/20	12.9655
963311	AG1-180	6.3171	80/20	6.3171

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O1	10.6630	80/20	10.6630
963361	AG1-185 O1	5.1590	80/20	5.1590
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
964241	AG1-285 C O1	9.1275	80/20	9.1275
964501	AG1-313 C O1	3.2212	80/20	3.2212
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
965191	AG1-384 C	1.5637	80/20	1.5637
965281	AG1-393 C	0.9299	80/20	0.9299
965291	AG1-394 C	0.9982	80/20	0.9982
965451	AG1-413 C O1	13.0729	80/20	13.0729
965591	AG1-427 C	8.6159	80/20	8.6159
965601	AG1-428 C O1	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
163338840	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	147.73	148.54	DC	14.91

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	7.9657	Adder	9.37
933992	AD1-023 E	4.3365	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
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 O1	4.9612	Adder	11.01
963361	AG1-185 O1	2.4004	Adder	5.33
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
964241	AG1-285 C O1	4.2670	Adder	9.47
964242	AG1-285 E O1	2.8447	Adder	6.31
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 O1	6.4026	50/50	6.4026
964502	AG1-313 E O1	4.2684	50/50	4.2684
964801	AG1-343 C	5.8664	50/50	5.8664
964802	AG1-343 E	4.6093	50/50	4.6093
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 O1	11.1643	50/50	11.1643
965452	AG1-413 E O1	7.4429	50/50	7.4429
965591	AG1-427 C	4.0275	Adder	8.94
965592	AG1-427 E	2.6907	Adder	5.97
965601	AG1-428 C O1	8.9810	50/50	8.9810
965602	AG1-428 E O1	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
965751	AG1-443 O1	2.0528	Adder	4.56
965761	AG1-444 O1	14.8896	50/50	14.8896

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

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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
169033637	314579	6HORNRTN	DVP	934330	AD1-057 TAP	DVP	1	DVP_P1-2: LN 238-A	single	441.8	125.03	126.2	DC	5.17

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.4310	80/20	9.4310
313527	AB2-043 C	0.2306	80/20	0.2306
314572	3EMPORIA	0.6295	80/20	0.6295
314582	3KELFORD	0.1655	80/20	0.1655
314589	3MURPHYS	0.0598	80/20	0.0598
314704	3LAWRENC	0.3570	80/20	0.3570
315115	1S HAMPT1	0.8023	80/20	0.8023
315126	1ROARAP2	1.5926	80/20	1.5926
315128	1ROARAP4	1.5198	80/20	1.5198
315136	1ROSEMG1	4.9736	80/20	4.9736
315137	1ROSEMS1	3.0842	80/20	3.0842
315138	1ROSEMG2	2.3310	80/20	2.3310
315139	1GASTONA	6.1774	80/20	6.1774
315141	1GASTONB	6.1774	80/20	6.1774
315158	1KERR 1	0.2031	80/20	0.2031
315159	1KERR 2	0.5688	80/20	0.5688
315160	1KERR 3	0.5688	80/20	0.5688
315161	1KERR 4	0.5688	80/20	0.5688
315162	1KERR 5	0.5688	80/20	0.5688
315163	1KERR 6	0.5688	80/20	0.5688
315164	1KERR 7	0.5688	80/20	0.5688
315602	1HOLLOMANSOL	0.7974	80/20	0.7974
315606	3AA2-053SOLA	1.5807	80/20	1.5807
315607	3AA1-063SOLA	1.3712	80/20	1.3712
315608	3AA2-088SOLA	0.7227	80/20	0.7227
316087	AB2-174 C	1.5913	80/20	1.5913
316096	AB2-100 C1	1.7163	80/20	1.7163
316098	AB2-100 C2	1.7163	80/20	1.7163
316103	AB2-015 C	4.4390	80/20	4.4390
316129	AC1-054 C	6.0845	80/20	6.0845
316131	AB2-060 C	0.6539	80/20	0.6539
316140	AB2-099 C (Suspended)	0.3673	80/20	0.3673
923991	AB2-040 C O1	10.2714	80/20	10.2714
924301	AB2-077 C O1 (Suspended)	0.9127	80/20	0.9127
924311	AB2-078 C O1 (Suspended)	0.9127	80/20	0.9127
924321	AB2-079 C O1 (Suspended)	0.9127	80/20	0.9127
925591	AC1-034 C	-5.3987	Adder	-6.35
925611	AC1-036 C	0.0835	80/20	0.0835
926070	AC1-086 C	44.0310	80/20	44.0310

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933991	AD1-023 C	5.1111	80/20	5.1111
934521	AD1-076 C	17.8598	80/20	17.8598
936265	AD2-033 C	5.0333	80/20	5.0333
936361	AD2-046 C O1	4.6268	80/20	4.6268
936401	AD2-051 C O1	5.3076	80/20	5.3076
936485	AD2-063 C	6.4125	80/20	6.4125
938221	AE1-035 C	0.1994	80/20	0.1994
938771	AE1-103 C	1.5408	80/20	1.5408
939181	AE1-148 C	4.5436	80/20	4.5436
940481	AE2-033 C	28.5557	80/20	28.5557
940661	AE2-053 O1	1.6828	80/20	1.6828
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1034	80/20	0.1034
942451	AE2-258	1.0906	80/20	1.0906
942471	AE2-260 C O1	26.5335	80/20	26.5335
943171	AE2-346 C	0.8815	80/20	0.8815
943911	AF1-059	15.7430	80/20	15.7430
946011	AF1-266	23.9033	80/20	23.9033
946281	AF1-292 C	2.3063	80/20	2.3063
957521	AF2-046 C	11.4780	80/20	11.4780
959311	AF2-222 C	5.9580	80/20	5.9580
960081	AF2-299 C	3.8870	80/20	3.8870
961091	AF2-400 C	0.2397	80/20	0.2397
961681	AG1-008 C	11.5010	80/20	11.5010
961891	AG1-030 C	4.7403	80/20	4.7403
961931	AG1-036 C	0.8882	80/20	0.8882
961941	AG1-037 C	0.3148	80/20	0.3148
962331	AG1-082 C	1.2593	80/20	1.2593
962341	AG1-083 C	1.2593	80/20	1.2593
962351	AG1-084 C	1.0590	80/20	1.0590
962361	AG1-085 C	1.0590	80/20	1.0590
962571	AG1-106 C	12.2447	80/20	12.2447
963301	AG1-179 C	6.4075	80/20	6.4075
963311	AG1-180	3.1219	80/20	3.1219
963321	AG1-181 C O1	6.4516	80/20	6.4516
963361	AG1-185 O1	3.1214	80/20	3.1214
964111	AG1-272 C	0.9486	80/20	0.9486
964121	AG1-273 C	0.9486	80/20	0.9486
964131	AG1-274 C	0.9486	80/20	0.9486
964241	AG1-285 C O1	5.4765	80/20	5.4765
964491	AG1-312 C O1	10.1315	80/20	10.1315
964501	AG1-313 C O1	4.4867	80/20	4.4867
964801	AG1-343 C	4.3221	80/20	4.3221
965191	AG1-384 C	0.9486	80/20	0.9486
965291	AG1-394 C	1.4972	80/20	1.4972
965451	AG1-413 C O1	6.6178	80/20	6.6178
965591	AG1-427 C	5.1711	80/20	5.1711
965601	AG1-428 C O1	5.3491	80/20	5.3491
965691	AG1-437 C O1	4.4274	80/20	4.4274
965701	AG1-438 C O1	4.4274	80/20	4.4274
965721	AG1-440 C	4.6998	80/20	4.6998
965731	AG1-441 C	4.6998	80/20	4.6998
965741	AG1-442 O1	2.5826	80/20	2.5826

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965751	AG1-443 O1	2.5826	80/20	2.5826
965771	AG1-445	2.7154	80/20	2.7154
965781	AG1-446	2.7154	80/20	2.7154
966621	AG1-532 C	2.0990	80/20	2.0990
966751	AG1-546 C	14.0055	80/20	14.0055
966811	AG1-552 C	2.5287	80/20	2.5287
G-007A	G-007A	0.2973	Confirmed LTF	0.2973
VFT	VFT	0.7869	Confirmed LTF	0.7869
CALDERWOOD	CALDERWOOD	0.6541	Confirmed LTF	0.6541
PRAIRIE	PRAIRIE	2.2911	Confirmed LTF	2.2911
CHEOAH	CHEOAH	0.6702	Confirmed LTF	0.6702
CBM-N	CBM-N	0.1404	Confirmed LTF	0.1404
COTTONWOOD	COTTONWOOD	2.4423	Confirmed LTF	2.4423
HAMLET	HAMLET	1.4414	Confirmed LTF	1.4414
GIBSON	GIBSON	0.4062	Confirmed LTF	0.4062
BLUEG	BLUEG	1.2534	Confirmed LTF	1.2534
TRIMBLE	TRIMBLE	0.3979	Confirmed LTF	0.3979
CATAWBA	CATAWBA	0.6983	Confirmed LTF	0.6983

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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
168823420	314599	6ROA VAL	DVP	314266	6NORTHAMPTON	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	548.02	109.23	110.31	DC	5.88

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3482	80/20	9.3482
313527	AB2-043 C	0.2635	80/20	0.2635
313719	3CHESTNUT	0.6800	80/20	0.6800
314429	3JTRSVLE	0.1333	80/20	0.1333
314572	3EMPORIA	0.6240	80/20	0.6240
314623	3WITAKRS	0.1261	80/20	0.1261
314704	3LAWRENC	0.3599	80/20	0.3599
315126	1ROARAP2	1.5784	80/20	1.5784
315128	1ROARAP4	1.5063	80/20	1.5063
315131	1EDGECEMA (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315132	1EDGECEMB (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315136	1ROSEMG1	3.8526	80/20	3.8526
315137	1ROSEMS1	2.3890	80/20	2.3890
315138	1ROSEMG2	1.8056	80/20	1.8056
315139	1GASTONA	6.0576	80/20	6.0576
315141	1GASTONB	6.0576	80/20	6.0576
315158	1KERR 1	0.2406	80/20	0.2406
315159	1KERR 2	0.6736	80/20	0.6736
315160	1KERR 3	0.6736	80/20	0.6736
315161	1KERR 4	0.6736	80/20	0.6736
315162	1KERR 5	0.6736	80/20	0.6736
315163	1KERR 6	0.6736	80/20	0.6736
315164	1KERR 7	0.6736	80/20	0.6736
315293	1DOMTR9	-3.2350	Adder	-3.81
315294	1DOMTR10	-3.9644	Adder	-4.66
315606	3AA2-053SOLA	1.2789	80/20	1.2789
315607	3AA1-063SOLA	1.1578	80/20	1.1578
315608	3AA2-088SOLA	0.3358	80/20	0.3358
316020	AB2-059 C OP	0.9918	80/20	0.9918
316087	AB2-174 C	1.5774	80/20	1.5774
316096	AB2-100 C1	1.6877	80/20	1.6877
316098	AB2-100 C2	1.6877	80/20	1.6877
316129	AC1-054 C	6.4409	80/20	6.4409
316131	AB2-060 C	0.7464	80/20	0.7464
920591	AA2-165 C	0.0913	80/20	0.0913
922922	AB1-081 C OP	0.8415	80/20	0.8415
923991	AB2-040 C O1	10.1812	80/20	10.1812

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924301	AB2-077 C O1 (Suspended)	1.0495	80/20	1.0495
924311	AB2-078 C O1 (Suspended)	1.0495	80/20	1.0495
924321	AB2-079 C O1 (Suspended)	1.0495	80/20	1.0495
925591	AC1-034 C	4.0719	80/20	4.0719
925611	AC1-036 C	0.0939	80/20	0.0939
926070	AC1-086 C	43.1775	80/20	43.1775
926201	AC1-098 C	2.2605	80/20	2.2605
926211	AC1-099 C	0.7575	80/20	0.7575
927145	AC1-208 C	6.0536	80/20	6.0536
932631	AC2-084 C	3.2224	80/20	3.2224
934331	AD1-057 C O1	12.8767	80/20	12.8767
936265	AD2-033 C	5.6831	80/20	5.6831
936361	AD2-046 C O1	5.4499	80/20	5.4499
936485	AD2-063 C	7.2891	80/20	7.2891
939181	AE1-148 C	5.3455	80/20	5.3455
940481	AE2-033 C	28.0875	80/20	28.0875
940571	AE2-044 C	2.6670	80/20	2.6670
940661	AE2-053 O1	1.9798	80/20	1.9798
942451	AE2-258	1.2459	80/20	1.2459
942471	AE2-260 C O1	26.1001	80/20	26.1001
943911	AF1-059	16.2460	80/20	16.2460
944141	AF1-082	1.7145	80/20	1.7145
946011	AF1-266	23.5115	80/20	23.5115
946281	AF1-292 C	2.2861	80/20	2.2861
946301	AF1-294 C	1.3464	80/20	1.3464
958211	AF2-115 C	0.7920	80/20	0.7920
958801	AF2-171 C	4.7826	80/20	4.7826
959311	AF2-222 C	6.6870	80/20	6.6870
960081	AF2-299 C	3.8531	80/20	3.8531
961791	AG1-021 C	0.6336	80/20	0.6336
961891	AG1-030 C	5.2659	80/20	5.2659
962041	AG1-048 C	3.9600	80/20	3.9600
962571	AG1-106 C	12.0073	80/20	12.0073
963171	AG1-166 C	0.6336	80/20	0.6336
963181	AG1-167 C	0.6336	80/20	0.6336
963191	AG1-168 C	0.6336	80/20	0.6336
963201	AG1-169 C	0.6336	80/20	0.6336
963211	AG1-170 C	0.6336	80/20	0.6336
963301	AG1-179 C	6.5008	80/20	6.5008
963311	AG1-180	3.1673	80/20	3.1673
963321	AG1-181 C O1	7.2785	80/20	7.2785
963361	AG1-185 O1	3.5215	80/20	3.5215
963641	AG1-215 C	0.2957	80/20	0.2957
964111	AG1-272 C	1.0672	80/20	1.0672
964121	AG1-273 C	1.0672	80/20	1.0672
964131	AG1-274 C	1.0672	80/20	1.0672
964241	AG1-285 C O1	6.2348	80/20	6.2348
964501	AG1-313 C O1	2.4851	80/20	2.4851
964791	AG1-342 C	1.3863	80/20	1.3863
964801	AG1-343 C	1.8312	80/20	1.8312

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964821	AG1-345 C	0.2544	80/20	0.2544
965191	AG1-384 C	1.0672	80/20	1.0672
965281	AG1-393 C	0.6336	80/20	0.6336
965291	AG1-394 C	0.7217	80/20	0.7217
965451	AG1-413 C O1	6.8292	80/20	6.8292
965591	AG1-427 C	5.8849	80/20	5.8849
965601	AG1-428 C O1	5.4270	80/20	5.4270
965721	AG1-440 C	5.2830	80/20	5.2830
965731	AG1-441 C	5.2830	80/20	5.2830
965771	AG1-445	3.0524	80/20	3.0524
965781	AG1-446	3.0524	80/20	3.0524
966621	AG1-532 C	2.0806	80/20	2.0806
966751	AG1-546 C	14.6869	80/20	14.6869
966811	AG1-552 C	2.5061	80/20	2.5061
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2482	Confirmed LTF	0.2482
CPL	CPL	1.2381	Confirmed LTF	1.2381
CBM-W2	CBM-W2	5.1251	Confirmed LTF	5.1251
NY	NY	0.1637	Confirmed LTF	0.1637
TVA	TVA	0.9604	Confirmed LTF	0.9604
SIGE	SIGE	0.0801	Confirmed LTF	0.0801
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.2405	Confirmed LTF	0.2405
MEC	MEC	0.7103	Confirmed LTF	0.7103
LAGN	LAGN	1.1900	Confirmed LTF	1.1900
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

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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
169243479	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P1-2: LN 556-C	single	571.52	216.06	219.24	DC	18.18

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
964931	AG1-357 C	36.0672	80/20	36.0672
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
CPL	CPL	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
166980238	314681	3CHASCTY	DVP	314781	3BLACKBR	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	103.6	112.01	DC	25.3

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6786	50/50	0.6786
313853	3PONTONDP	0.5479	50/50	0.5479
314429	3JTRSVLE	0.3458	50/50	0.3458
314713	3PAMPLIN	1.1895	50/50	1.1895
316129	AC1-054 C	-3.5586	Adder	-4.19
316131	AB2-060 C	1.9221	50/50	1.9221
924022	AB2-043 E O1	3.8463	50/50	3.8463
924162	AB2-060 E OP	5.7331	50/50	5.7331
925611	AC1-036 C	0.2426	50/50	0.2426
925612	AC1-036 E	0.9209	50/50	0.9209
935221	AD1-157 C	0.1736	50/50	0.1736
935222	AD1-157 E	0.7334	50/50	0.7334
936265	AD2-033 C	14.6671	50/50	14.6671
936266	AD2-033 E	9.7781	50/50	9.7781
936485	AD2-063 C	18.7920	50/50	18.7920
936486	AD2-063 E	12.5280	50/50	12.5280
938371	AE1-056 C	4.7425	50/50	4.7425
938372	AE1-056 E	2.5913	50/50	2.5913
940662	AE2-053 BAT	2.9720	50/50	2.9720
942451	AE2-258	3.2090	50/50	3.2090
942461	AE2-259 C O1	4.1764	Adder	4.91
942462	AE2-259 E O1	2.7843	Adder	3.28
943911	AF1-059	13.6212	50/50	13.6212
946301	AF1-294 C	3.4930	50/50	3.4930
946302	AF1-294 E	2.3287	50/50	2.3287
958211	AF2-115 C	2.0547	50/50	2.0547
958212	AF2-115 E	1.3698	50/50	1.3698
958801	AF2-171 C	12.4101	50/50	12.4101
958802	AF2-171 E	8.2734	50/50	8.2734
959311	AF2-222 C	17.2850	50/50	17.2850
959312	AF2-222 E	11.5809	50/50	11.5809
961791	AG1-021 C	1.6438	50/50	1.6438
961792	AG1-021 E	1.0958	50/50	1.0958
961891	AG1-030 C	13.6368	50/50	13.6368
961892	AG1-030 E	9.0912	50/50	9.0912
962041	AG1-048 C	10.2735	50/50	10.2735
962042	AG1-048 E	6.8490	50/50	6.8490
963171	AG1-166 C	1.6438	50/50	1.6438
963172	AG1-166 E	1.0958	50/50	1.0958
963181	AG1-167 C	1.6438	50/50	1.6438
963182	AG1-167 E	1.0958	50/50	1.0958

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963191	AG1-168 C	1.6438	50/50	1.6438
963192	AG1-168 E	1.0958	50/50	1.0958
963201	AG1-169 C	1.6438	50/50	1.6438
963202	AG1-169 E	1.0958	50/50	1.0958
963211	AG1-170 C	1.6438	50/50	1.6438
963212	AG1-170 E	1.0958	50/50	1.0958
963301	AG1-179 C	3.4390	50/50	3.4390
963311	AG1-180	1.6756	50/50	1.6756
963321	AG1-181 C O1	18.7936	50/50	18.7936
963361	AG1-185 O1	9.0929	50/50	9.0929
963641	AG1-215 C	0.7671	50/50	0.7671
963642	AG1-215 E	1.1506	50/50	1.1506
964111	AG1-272 C	2.7573	50/50	2.7573
964112	AG1-272 E	0.8189	50/50	0.8189
964121	AG1-273 C	2.7573	50/50	2.7573
964122	AG1-273 E	0.8189	50/50	0.8189
964131	AG1-274 C	2.7573	50/50	2.7573
964132	AG1-274 E	0.8189	50/50	0.8189
964241	AG1-285 C O1	16.0687	50/50	16.0687
964242	AG1-285 E O1	10.7125	50/50	10.7125
964791	AG1-342 C	1.0172	Adder	2.26
964792	AG1-342 E	0.7992	Adder	1.77
964821	AG1-345 C	0.6599	50/50	0.6599
964822	AG1-345 E	0.4399	50/50	0.4399
965191	AG1-384 C	2.7573	50/50	2.7573
965192	AG1-384 E	0.8189	50/50	0.8189
965281	AG1-393 C	1.6438	50/50	1.6438
965282	AG1-393 E	1.0958	50/50	1.0958
965451	AG1-413 C O1	5.7258	50/50	5.7258
965452	AG1-413 E O1	3.8172	50/50	3.8172
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O1	2.8710	50/50	2.8710
965602	AG1-428 E O1	1.9106	50/50	1.9106
965641	AG1-432 C O1	4.4270	Adder	9.83
965642	AG1-432 E O1	2.9513	Adder	6.55
965772	AG1-445 BAT	3.3454	50/50	3.3454
965782	AG1-446 BAT	3.3454	50/50	3.3454
965831	AG1-451	0.7378	Adder	1.64
966753	AG1-546 BAT	1.7033	Merchant Transmission	1.7033
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4427	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2951	Adder	0.66
G-007A	G-007A	0.2062	Confirmed LTF	0.2062
VFT	VFT	0.5483	Confirmed LTF	0.5483
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
PRAIRIE	PRAIRIE	0.4314	Confirmed LTF	0.4314
CHEOAH	CHEOAH	0.1426	Confirmed LTF	0.1426
CBM-N	CBM-N	0.1008	Confirmed LTF	0.1008
COTTONWOOD	COTTONWOOD	0.4977	Confirmed LTF	0.4977

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
HAMLET	HAMLET	0.3182	Confirmed LTF	0.3182
GIBSON	GIBSON	0.0710	Confirmed LTF	0.0710
BLUEG	BLUEG	0.2153	Confirmed LTF	0.2153
TRIMBLE	TRIMBLE	0.0684	Confirmed LTF	0.0684
CATAWBA	CATAWBA	0.1614	Confirmed LTF	0.1614

11.6.29 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
166980228	314682	3BUGGS I	DVP	314665	3CLRK TAP	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	101.05	108.66	DC	15.82

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4229	50/50	0.4229
313853	3PONTONDP	0.2999	Adder	0.35
314713	3PAMPLIN	0.6573	Adder	0.77
315266	1PLYWOOD A	0.9917	50/50	0.9917
316118	AC1-105 C	2.4718	Adder	2.91
316129	AC1-054 C	-7.0449	Adder	-8.29
316131	AB2-060 C	1.1992	50/50	1.1992
924022	AB2-043 E O1	2.3969	50/50	2.3969
924162	AB2-060 E OP	3.5768	50/50	3.5768
924301	AB2-077 C O1 (Suspended)	1.9992	50/50	1.9992
924302	AB2-077 E O1 (Suspended)	1.3328	50/50	1.3328
924311	AB2-078 C O1 (Suspended)	1.9992	50/50	1.9992
924312	AB2-078 E O1 (Suspended)	1.3328	50/50	1.3328
924321	AB2-079 C O1 (Suspended)	1.9992	50/50	1.9992
924322	AB2-079 E O1 (Suspended)	1.3328	50/50	1.3328
925611	AC1-036 C	0.1533	50/50	0.1533
925612	AC1-036 E	0.5817	50/50	0.5817
926274	AC1-105 E	1.2144	Adder	1.43
927261	AC1-222 C	1.2514	Adder	1.47
927262	AC1-222 E	1.1913	Adder	1.4
934311	AD1-055 C	0.8689	Adder	1.02
934312	AD1-055 E	0.2241	Adder	0.26
935222	AD1-157 E	0.4052	Adder	0.48
936265	AD2-033 C	9.2391	50/50	9.2391
936266	AD2-033 E	6.1594	50/50	6.1594
936485	AD2-063 C	11.7639	50/50	11.7639
936486	AD2-063 E	7.8426	50/50	7.8426
938371	AE1-056 C	2.6206	Adder	3.08
938372	AE1-056 E	1.4319	Adder	1.68
940662	AE2-053 BAT	5.6696	50/50	5.6696
942451	AE2-258	1.9998	50/50	1.9998
942461	AE2-259 C O1	2.8346	Adder	3.33
942462	AE2-259 E O1	1.8897	Adder	2.22
943901	AF1-058 C	0.7075	Adder	0.83
943902	AF1-058 E	0.4716	Adder	0.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943911	AF1-059	6.4092	Adder	7.54
946301	AF1-294 C	1.9120	Adder	2.25
946302	AF1-294 E	1.2746	Adder	1.5
958211	AF2-115 C	1.1247	Adder	1.32
958212	AF2-115 E	0.7498	Adder	0.88
958801	AF2-171 C	6.7878	Adder	7.99
958802	AF2-171 E	4.5252	Adder	5.32
959311	AF2-222 C	10.9430	50/50	10.9430
959312	AF2-222 E	7.3318	50/50	7.3318
960061	AF2-297 C	2.8299	Adder	3.33
960062	AF2-297 E	1.8866	Adder	2.22
961791	AG1-021 C	0.4769	Adder	1.06
961792	AG1-021 E	0.3179	Adder	0.71
961891	AG1-030 C	3.9256	Adder	8.71
961892	AG1-030 E	2.6170	Adder	5.81
962041	AG1-048 C	2.9804	Adder	6.62
962042	AG1-048 E	1.9869	Adder	4.41
962441	AG1-093 C O1	3.4935	Adder	7.75
962442	AG1-093 E O1	1.0632	Adder	2.36
963171	AG1-166 C	0.4769	Adder	1.06
963172	AG1-166 E	0.3179	Adder	0.71
963181	AG1-167 C	0.4769	Adder	1.06
963182	AG1-167 E	0.3179	Adder	0.71
963191	AG1-168 C	0.4769	Adder	1.06
963192	AG1-168 E	0.3179	Adder	0.71
963201	AG1-169 C	0.4769	Adder	1.06
963202	AG1-169 E	0.3179	Adder	0.71
963211	AG1-170 C	0.4769	Adder	1.06
963212	AG1-170 E	0.3179	Adder	0.71
963301	AG1-179 C	0.7641	Adder	1.7
963311	AG1-180	0.3723	Adder	0.83
963321	AG1-181 C O1	11.8437	50/50	11.8437
963361	AG1-185 O1	5.7303	50/50	5.7303
963641	AG1-215 C	0.2225	Adder	0.49
963642	AG1-215 E	0.3338	Adder	0.74
964111	AG1-272 C	1.7417	50/50	1.7417
964112	AG1-272 E	0.5173	50/50	0.5173
964121	AG1-273 C	1.7417	50/50	1.7417
964122	AG1-273 E	0.5173	50/50	0.5173
964131	AG1-274 C	1.7417	50/50	1.7417
964132	AG1-274 E	0.5173	50/50	0.5173
964241	AG1-285 C O1	10.0455	50/50	10.0455
964242	AG1-285 E O1	6.6970	50/50	6.6970
964261	AG1-287 C	0.2812	Adder	0.62
964262	AG1-287 E	0.1875	Adder	0.42
964471	AG1-310 C	0.3757	Adder	0.83
964472	AG1-310 E	0.1850	Adder	0.41
964791	AG1-342 C	1.1283	Adder	2.5
964792	AG1-342 E	0.8865	Adder	1.97
964821	AG1-345 C	0.1914	Adder	0.42
964822	AG1-345 E	0.1276	Adder	0.28
965191	AG1-384 C	1.7417	50/50	1.7417

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965192	AG1-384 E	0.5173	50/50	0.5173
965281	AG1-393 C	0.4769	Adder	1.06
965282	AG1-393 E	0.3179	Adder	0.71
965451	AG1-413 C O1	1.4279	Adder	3.17
965452	AG1-413 E O1	0.9519	Adder	2.11
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O1	0.6379	Adder	1.42
965602	AG1-428 E O1	0.4245	Adder	0.94
965641	AG1-432 C O1	3.0047	Adder	6.67
965642	AG1-432 E O1	2.0031	Adder	4.45
965772	AG1-445 BAT	6.4462	50/50	6.4462
965782	AG1-446 BAT	6.4462	50/50	6.4462
965831	AG1-451	0.5008	Adder	1.11
966753	AG1-546 BAT	6.4143	50/50	6.4143
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3005	Adder	0.67
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2003	Adder	0.44
G-007A	G-007A	0.1654	Confirmed LTF	0.1654
VFT	VFT	0.4451	Confirmed LTF	0.4451
CALDERWOOD	CALDERWOOD	0.0984	Confirmed LTF	0.0984
PRAIRIE	PRAIRIE	0.2144	Confirmed LTF	0.2144
CHEOAH	CHEOAH	0.1026	Confirmed LTF	0.1026
CBM-N	CBM-N	0.0828	Confirmed LTF	0.0828
COTTONWOOD	COTTONWOOD	0.3360	Confirmed LTF	0.3360
HAMLET	HAMLET	0.3274	Confirmed LTF	0.3274
GIBSON	GIBSON	0.0229	Confirmed LTF	0.0229
BLUEG	BLUEG	0.0590	Confirmed LTF	0.0590
TRIMBLE	TRIMBLE	0.0178	Confirmed LTF	0.0178
CATAWBA	CATAWBA	0.1431	Confirmed LTF	0.1431

11.6.30 Index 30

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
166980236	314683	3CLRKVILLE	DVP	314869	3BURLING	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	103.98	112.38	DC	25.3

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6786	50/50	0.6786
313853	3PONTONDP	0.5479	50/50	0.5479
314429	3JTRSVLE	0.3458	50/50	0.3458
314713	3PAMPLIN	1.1895	50/50	1.1895
316129	AC1-054 C	-3.5586	Adder	-4.19
316131	AB2-060 C	1.9221	50/50	1.9221
924022	AB2-043 E O1	3.8463	50/50	3.8463
924162	AB2-060 E OP	5.7331	50/50	5.7331
924301	AB2-077 C O1 (Suspended)	3.3240	50/50	3.3240
924302	AB2-077 E O1 (Suspended)	2.2160	50/50	2.2160
924311	AB2-078 C O1 (Suspended)	3.3240	50/50	3.3240
924312	AB2-078 E O1 (Suspended)	2.2160	50/50	2.2160
924321	AB2-079 C O1 (Suspended)	3.3240	50/50	3.3240
924322	AB2-079 E O1 (Suspended)	2.2160	50/50	2.2160
925611	AC1-036 C	0.2426	50/50	0.2426
925612	AC1-036 E	0.9209	50/50	0.9209
935221	AD1-157 C	0.1736	50/50	0.1736
935222	AD1-157 E	0.7334	50/50	0.7334
936265	AD2-033 C	14.6671	50/50	14.6671
936266	AD2-033 E	9.7781	50/50	9.7781
936485	AD2-063 C	18.7920	50/50	18.7920
936486	AD2-063 E	12.5280	50/50	12.5280
938371	AE1-056 C	4.7425	50/50	4.7425
938372	AE1-056 E	2.5913	50/50	2.5913
940662	AE2-053 BAT	2.9720	50/50	2.9720
942451	AE2-258	3.2090	50/50	3.2090
942461	AE2-259 C O1	4.1764	Adder	4.91
942462	AE2-259 E O1	2.7843	Adder	3.28
943911	AF1-059	13.6212	50/50	13.6212
946301	AF1-294 C	3.4930	50/50	3.4930
946302	AF1-294 E	2.3287	50/50	2.3287
958211	AF2-115 C	2.0547	50/50	2.0547
958212	AF2-115 E	1.3698	50/50	1.3698
958801	AF2-171 C	12.4101	50/50	12.4101
958802	AF2-171 E	8.2734	50/50	8.2734

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959311	AF2-222 C	17.2850	50/50	17.2850
959312	AF2-222 E	11.5809	50/50	11.5809
961791	AG1-021 C	1.6438	50/50	1.6438
961792	AG1-021 E	1.0958	50/50	1.0958
961891	AG1-030 C	13.6368	50/50	13.6368
961892	AG1-030 E	9.0912	50/50	9.0912
962041	AG1-048 C	10.2735	50/50	10.2735
962042	AG1-048 E	6.8490	50/50	6.8490
963171	AG1-166 C	1.6438	50/50	1.6438
963172	AG1-166 E	1.0958	50/50	1.0958
963181	AG1-167 C	1.6438	50/50	1.6438
963182	AG1-167 E	1.0958	50/50	1.0958
963191	AG1-168 C	1.6438	50/50	1.6438
963192	AG1-168 E	1.0958	50/50	1.0958
963201	AG1-169 C	1.6438	50/50	1.6438
963202	AG1-169 E	1.0958	50/50	1.0958
963211	AG1-170 C	1.6438	50/50	1.6438
963212	AG1-170 E	1.0958	50/50	1.0958
963301	AG1-179 C	3.4390	50/50	3.4390
963311	AG1-180	1.6756	50/50	1.6756
963321	AG1-181 C O1	18.7936	50/50	18.7936
963361	AG1-185 O1	9.0929	50/50	9.0929
963641	AG1-215 C	0.7671	50/50	0.7671
963642	AG1-215 E	1.1506	50/50	1.1506
964111	AG1-272 C	2.7573	50/50	2.7573
964112	AG1-272 E	0.8189	50/50	0.8189
964121	AG1-273 C	2.7573	50/50	2.7573
964122	AG1-273 E	0.8189	50/50	0.8189
964131	AG1-274 C	2.7573	50/50	2.7573
964132	AG1-274 E	0.8189	50/50	0.8189
964241	AG1-285 C O1	16.0687	50/50	16.0687
964242	AG1-285 E O1	10.7125	50/50	10.7125
964791	AG1-342 C	1.0172	Adder	2.26
964792	AG1-342 E	0.7992	Adder	1.77
964821	AG1-345 C	0.6599	50/50	0.6599
964822	AG1-345 E	0.4399	50/50	0.4399
965191	AG1-384 C	2.7573	50/50	2.7573
965192	AG1-384 E	0.8189	50/50	0.8189
965281	AG1-393 C	1.6438	50/50	1.6438
965282	AG1-393 E	1.0958	50/50	1.0958
965451	AG1-413 C O1	5.7258	50/50	5.7258
965452	AG1-413 E O1	3.8172	50/50	3.8172
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O1	2.8710	50/50	2.8710
965602	AG1-428 E O1	1.9106	50/50	1.9106
965641	AG1-432 C O1	4.4270	Adder	9.83
965642	AG1-432 E O1	2.9513	Adder	6.55
965772	AG1-445 BAT	3.3454	50/50	3.3454
965782	AG1-446 BAT	3.3454	50/50	3.3454
965831	AG1-451	0.7378	Adder	1.64
966753	AG1-546 BAT	1.7033	Merchant Transmission	1.7033

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4427	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2951	Adder	0.66
G-007A	G-007A	0.2062	Confirmed LTF	0.2062
VFT	VFT	0.5483	Confirmed LTF	0.5483
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
PRAIRIE	PRAIRIE	0.4314	Confirmed LTF	0.4314
CHEOAH	CHEOAH	0.1426	Confirmed LTF	0.1426
CBM-N	CBM-N	0.1008	Confirmed LTF	0.1008
COTTONWOOD	COTTONWOOD	0.4977	Confirmed LTF	0.4977
HAMLET	HAMLET	0.3182	Confirmed LTF	0.3182
GIBSON	GIBSON	0.0710	Confirmed LTF	0.0710
BLUEG	BLUEG	0.2153	Confirmed LTF	0.2153
TRIMBLE	TRIMBLE	0.0684	Confirmed LTF	0.0684
CATAWBA	CATAWBA	0.1614	Confirmed LTF	0.1614

11.6.31 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
166980253	314684	3MT LREL	DVP	316115	AC1-105 TAP	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	101.0	107.97	DC	28.38

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.7646	50/50	0.7646
313853	3PONTONDP	1.0270	50/50	1.0270
314429	3JTRSVLE	0.6481	50/50	0.6481
314713	3PAMPLIN	1.0747	Adder	1.26
315161	1KERR 4	0.9067	50/50	0.9067
315162	1KERR 5	0.9067	50/50	0.9067
315163	1KERR 6	0.9067	50/50	0.9067
315164	1KERR 7	0.9067	50/50	0.9067
316129	AC1-054 C	3.6751	Adder	4.32
316131	AB2-060 C	2.2037	50/50	2.2037
924022	AB2-043 E O1	4.3333	50/50	4.3333
924162	AB2-060 E OP	6.5731	50/50	6.5731
924301	AB2-077 C O1 (Suspended)	2.8934	50/50	2.8934
924302	AB2-077 E O1 (Suspended)	1.9290	50/50	1.9290
924311	AB2-078 C O1 (Suspended)	2.8934	50/50	2.8934
924312	AB2-078 E O1 (Suspended)	1.9290	50/50	1.9290
924321	AB2-079 C O1 (Suspended)	2.8934	50/50	2.8934
924322	AB2-079 E O1 (Suspended)	1.9290	50/50	1.9290
925611	AC1-036 C	0.2684	50/50	0.2684
925612	AC1-036 E	1.0189	50/50	1.0189
925785	AC1-054 E	1.6930	Adder	1.99
927261	AC1-222 C	-1.9440	Adder	-2.29
934311	AD1-055 C	-1.3497	Adder	-1.59
935222	AD1-157 E	0.6626	Adder	0.78
936265	AD2-033 C	20.0273	50/50	20.0273
936266	AD2-033 E	13.3515	50/50	13.3515
936361	AD2-046 C O1	8.5850	50/50	8.5850
936362	AD2-046 E O1	3.9478	50/50	3.9478
936485	AD2-063 C	21.0465	50/50	21.0465
936486	AD2-063 E	14.0310	50/50	14.0310
938371	AE1-056 C	4.2848	Adder	5.04
938372	AE1-056 E	2.3412	Adder	2.75
939181	AE1-148 C	8.6800	50/50	8.6800
939182	AE1-148 E	5.7866	50/50	5.7866
940661	AE2-053 O1	3.2148	50/50	3.2148
942451	AE2-258	3.6154	50/50	3.6154

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942461	AE2-259 C O1	4.1560	Adder	4.89
942462	AE2-259 E O1	2.7707	Adder	3.26
943901	AF1-058 C	-1.0975	Adder	-1.29
943911	AF1-059	16.8253	50/50	16.8253
946301	AF1-294 C	6.5474	50/50	6.5474
946302	AF1-294 E	4.3649	50/50	4.3649
958211	AF2-115 C	3.8514	50/50	3.8514
958212	AF2-115 E	2.5676	50/50	2.5676
958801	AF2-171 C	13.3857	50/50	13.3857
958802	AF2-171 E	8.9238	50/50	8.9238
959311	AF2-222 C	19.0690	50/50	19.0690
959312	AF2-222 E	12.7762	50/50	12.7762
961791	AG1-021 C	3.0811	50/50	3.0811
961792	AG1-021 E	2.0541	50/50	2.0541
961891	AG1-030 C	23.1084	50/50	23.1084
961892	AG1-030 E	15.4056	50/50	15.4056
962041	AG1-048 C	19.2570	50/50	19.2570
962042	AG1-048 E	12.8380	50/50	12.8380
962443	AG1-093 BAT	11.9375	50/50	11.9375
963171	AG1-166 C	3.0811	50/50	3.0811
963172	AG1-166 E	2.0541	50/50	2.0541
963181	AG1-167 C	3.0811	50/50	3.0811
963182	AG1-167 E	2.0541	50/50	2.0541
963191	AG1-168 C	3.0811	50/50	3.0811
963192	AG1-168 E	2.0541	50/50	2.0541
963201	AG1-169 C	3.0811	50/50	3.0811
963202	AG1-169 E	2.0541	50/50	2.0541
963211	AG1-170 C	3.0811	50/50	3.0811
963212	AG1-170 E	2.0541	50/50	2.0541
963301	AG1-179 C	2.0596	Adder	4.57
963311	AG1-180	1.0035	Adder	2.23
963321	AG1-181 C O1	20.8619	50/50	20.8619
963361	AG1-185 O1	10.0936	50/50	10.0936
963641	AG1-215 C	1.4379	50/50	1.4379
963642	AG1-215 E	2.1568	50/50	2.1568
964111	AG1-272 C	3.0507	50/50	3.0507
964112	AG1-272 E	0.9061	50/50	0.9061
964121	AG1-273 C	3.0507	50/50	3.0507
964122	AG1-273 E	0.9061	50/50	0.9061
964131	AG1-274 C	3.0507	50/50	3.0507
964132	AG1-274 E	0.9061	50/50	0.9061
964241	AG1-285 C O1	18.0293	50/50	18.0293
964242	AG1-285 E O1	12.0195	50/50	12.0195
964791	AG1-342 C	15.8415	50/50	15.8415
964792	AG1-342 E	12.4469	50/50	12.4469
964821	AG1-345 C	1.2324	50/50	1.2324
964822	AG1-345 E	0.8216	50/50	0.8216
965191	AG1-384 C	3.0507	50/50	3.0507
965192	AG1-384 E	0.9061	50/50	0.9061
965281	AG1-393 C	3.0811	50/50	3.0811
965282	AG1-393 E	2.0541	50/50	2.0541
965451	AG1-413 C O1	7.0727	50/50	7.0727

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965452	AG1-413 E O1	4.7152	50/50	4.7152
965591	AG1-427 C	17.0142	50/50	17.0142
965592	AG1-427 E	11.3667	50/50	11.3667
965601	AG1-428 C O1	1.7194	Adder	3.82
965602	AG1-428 E O1	1.1442	Adder	2.54
965641	AG1-432 C O1	4.4053	Adder	9.78
965642	AG1-432 E O1	2.9369	Adder	6.52
965721	AG1-440 C	2.4799	Adder	5.5
965722	AG1-440 E	1.6533	Adder	3.67
965731	AG1-441 C	2.4799	Adder	5.5
965732	AG1-441 E	1.6533	Adder	3.67
965771	AG1-445	1.4329	Adder	3.18
965781	AG1-446	1.4329	Adder	3.18
965831	AG1-451	0.7342	Adder	1.63
966751	AG1-546 C	4.0416	Adder	8.97
966752	AG1-546 E	2.1686	Adder	4.81
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4405	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2937	Adder	0.65
G-007A	G-007A	0.1175	Confirmed LTF	0.1175
VFT	VFT	0.3096	Confirmed LTF	0.3096
CALDERWOOD	CALDERWOOD	0.1218	Confirmed LTF	0.1218
PRAIRIE	PRAIRIE	0.5011	Confirmed LTF	0.5011
CHEOAH	CHEOAH	0.1231	Confirmed LTF	0.1231
CBM-N	CBM-N	0.0564	Confirmed LTF	0.0564
COTTONWOOD	COTTONWOOD	0.4599	Confirmed LTF	0.4599
HAMLET	HAMLET	0.1438	Confirmed LTF	0.1438
GIBSON	GIBSON	0.0994	Confirmed LTF	0.0994
BLUEG	BLUEG	0.3177	Confirmed LTF	0.3177
TRIMBLE	TRIMBLE	0.1013	Confirmed LTF	0.1013
CATAWBA	CATAWBA	0.1033	Confirmed LTF	0.1033

11.6.32 Index 32

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
169243437	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	2	DVP_P1-2: LN 235-A	single	182.64	263.8	273.44	DC	17.61

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1970	80/20	2.1970
313527	AB2-043 C	0.6200	80/20	0.6200
314429	3JTRSVLE	1.1615	80/20	1.1615
314572	3EMPORIA	0.1428	80/20	0.1428
314704	3LAWRENC	0.1773	80/20	0.1773
315158	1KERR 1	0.3023	80/20	0.3023
315159	1KERR 2	0.8464	80/20	0.8464
315160	1KERR 3	0.8464	80/20	0.8464
315161	1KERR 4	0.8464	80/20	0.8464
315162	1KERR 5	0.8464	80/20	0.8464
315163	1KERR 6	0.8464	80/20	0.8464
315164	1KERR 7	0.8464	80/20	0.8464
315266	1PLYWOOD A	0.5826	80/20	0.5826
316087	AB2-174 C	0.3670	80/20	0.3670
316118	AC1-105 C	3.1833	80/20	3.1833
316129	AC1-054 C	4.1416	80/20	4.1416
316131	AB2-060 C	1.8663	80/20	1.8663
923991	AB2-040 C O1	2.3927	80/20	2.3927
924301	AB2-077 C O1 (Suspended)	2.4036	80/20	2.4036
924311	AB2-078 C O1 (Suspended)	2.4036	80/20	2.4036
924321	AB2-079 C O1 (Suspended)	2.4036	80/20	2.4036
925611	AC1-036 C	0.4665	80/20	0.4665
927261	AC1-222 C	1.3197	80/20	1.3197
934311	AD1-055 C	0.9163	80/20	0.9163
935221	AD1-157 C	0.7121	80/20	0.7121
936265	AD2-033 C	24.7775	80/20	24.7775
936361	AD2-046 C O1	7.7284	80/20	7.7284
936485	AD2-063 C	23.4252	80/20	23.4252
938371	AE1-056 C	19.4582	80/20	19.4582
939181	AE1-148 C	7.7609	80/20	7.7609
940661	AE2-053 O1	2.8744	80/20	2.8744
942451	AE2-258	2.9317	80/20	2.9317
942461	AE2-259 C O1	36.8346	80/20	36.8346
943901	AF1-058 C	0.7463	80/20	0.7463
943911	AF1-059	13.9793	80/20	13.9793
946281	AF1-292 C	0.5181	80/20	0.5181
946301	AF1-294 C	11.7333	80/20	11.7333
958211	AF2-115 C	6.9020	80/20	6.9020
958801	AF2-171 C	41.2074	80/20	41.2074

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959311	AF2-222 C	36.0450	80/20	36.0450
960061	AF2-297 C	2.9851	80/20	2.9851
960081	AF2-299 C	0.8732	80/20	0.8732
961791	AG1-021 C	5.5216	80/20	5.5216
961891	AG1-030 C	37.7604	80/20	37.7604
962041	AG1-048 C	34.5098	80/20	34.5098
962441	AG1-093 C O1	8.4888	80/20	8.4888
963171	AG1-166 C	5.5216	80/20	5.5216
963181	AG1-167 C	5.5216	80/20	5.5216
963191	AG1-168 C	5.5216	80/20	5.5216
963201	AG1-169 C	5.5216	80/20	5.5216
963211	AG1-170 C	5.5216	80/20	5.5216
963301	AG1-179 C	3.8659	80/20	3.8659
963311	AG1-180	1.8835	80/20	1.8835
963321	AG1-181 C O1	32.7592	80/20	32.7592
963361	AG1-185 O1	15.8498	80/20	15.8498
963641	AG1-215 C	2.5767	80/20	2.5767
964111	AG1-272 C	5.3022	80/20	5.3022
964121	AG1-273 C	5.3022	80/20	5.3022
964131	AG1-274 C	5.3022	80/20	5.3022
964241	AG1-285 C O1	18.3810	80/20	18.3810
964261	AG1-287 C	0.5597	80/20	0.5597
964471	AG1-310 C	0.7473	80/20	0.7473
964791	AG1-342 C	3.0915	80/20	3.0915
964821	AG1-345 C	2.2020	80/20	2.2020
965191	AG1-384 C	5.3022	80/20	5.3022
965281	AG1-393 C	5.5216	80/20	5.5216
965451	AG1-413 C O1	5.8764	80/20	5.8764
965591	AG1-427 C	17.6058	80/20	17.6058
965601	AG1-428 C O1	3.2273	80/20	3.2273
965641	AG1-432 C O1	73.6692	80/20	73.6692
965721	AG1-440 C	5.1777	80/20	5.1777
965731	AG1-441 C	5.1777	80/20	5.1777
965771	AG1-445	2.9916	80/20	2.9916
965781	AG1-446	2.9916	80/20	2.9916
965831	AG1-451	12.2782	80/20	12.2782
966621	AG1-532 C	0.4715	80/20	0.4715
966751	AG1-546 C	8.6364	80/20	8.6364
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	7.3669	80/20	7.3669
WEC	WEC	0.0813	Confirmed LTF	0.0813
LGEE	LGEE	0.1659	Confirmed LTF	0.1659
CPL	CPL	1.2422	Confirmed LTF	1.2422
CBM-W2	CBM-W2	4.0768	Confirmed LTF	4.0768
NY	NY	0.1233	Confirmed LTF	0.1233
TVA	TVA	0.7980	Confirmed LTF	0.7980
SIGE	SIGE	0.0565	Confirmed LTF	0.0565
CBM-S2	CBM-S2	13.8748	Confirmed LTF	13.8748
CBM-S1	CBM-S1	0.1953	Confirmed LTF	0.1953
MEC	MEC	0.5180	Confirmed LTF	0.5180
LAGN	LAGN	0.9958	Confirmed LTF	0.9958
CBM-W1	CBM-W1	3.3508	Confirmed LTF	3.3508

11.6.33 Index 33

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
169243448	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	1	DVP_P1-2: LN 298	single	198.06	174.1	181.69	DC	15.04

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5190	80/20	0.5190
314429	3JTRSVLE	1.0409	80/20	1.0409
314704	3LAWRENC	0.1400	80/20	0.1400
315158	1KERR 1	0.2388	80/20	0.2388
315159	1KERR 2	0.6685	80/20	0.6685
315160	1KERR 3	0.6685	80/20	0.6685
315161	1KERR 4	0.6685	80/20	0.6685
315162	1KERR 5	0.6685	80/20	0.6685
315163	1KERR 6	0.6685	80/20	0.6685
315164	1KERR 7	0.6685	80/20	0.6685
316118	AC1-105 C	1.9644	80/20	1.9644
316129	AC1-054 C	3.1577	80/20	3.1577
316131	AB2-060 C	1.5710	80/20	1.5710
924301	AB2-077 C O1 (Suspended)	2.0004	80/20	2.0004
924311	AB2-078 C O1 (Suspended)	2.0004	80/20	2.0004
924321	AB2-079 C O1 (Suspended)	2.0004	80/20	2.0004
925611	AC1-036 C	0.4104	80/20	0.4104
935221	AD1-157 C	0.6410	80/20	0.6410
936265	AD2-033 C	21.6637	80/20	21.6637
936361	AD2-046 C O1	6.1935	80/20	6.1935
936485	AD2-063 C	20.1177	80/20	20.1177
938371	AE1-056 C	17.5166	80/20	17.5166
939181	AE1-148 C	6.2354	80/20	6.2354
940661	AE2-053 O1	2.3094	80/20	2.3094
942451	AE2-258	2.4541	80/20	2.4541
942461	AE2-259 C O1	33.4608	80/20	33.4608
943911	AF1-059	11.3951	80/20	11.3951
946301	AF1-294 C	10.5152	80/20	10.5152
958211	AF2-115 C	6.1854	80/20	6.1854
958801	AF2-171 C	36.9198	80/20	36.9198
959311	AF2-222 C	31.8180	80/20	31.8180
961791	AG1-021 C	4.9483	80/20	4.9483
961891	AG1-030 C	33.6627	80/20	33.6627
962041	AG1-048 C	30.9270	80/20	30.9270
962441	AG1-093 C O1	5.2385	80/20	5.2385
963171	AG1-166 C	4.9483	80/20	4.9483
963181	AG1-167 C	4.9483	80/20	4.9483
963191	AG1-168 C	4.9483	80/20	4.9483
963201	AG1-169 C	4.9483	80/20	4.9483

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	4.9483	80/20	4.9483
963301	AG1-179 C	3.0910	80/20	3.0910
963311	AG1-180	1.5060	80/20	1.5060
963321	AG1-181 C O1	28.6883	80/20	28.6883
963361	AG1-185 O1	13.8802	80/20	13.8802
963641	AG1-215 C	2.3092	80/20	2.3092
964111	AG1-272 C	4.6644	80/20	4.6644
964121	AG1-273 C	4.6644	80/20	4.6644
964131	AG1-274 C	4.6644	80/20	4.6644
964241	AG1-285 C O1	15.6870	80/20	15.6870
964791	AG1-342 C	2.2108	80/20	2.2108
964821	AG1-345 C	1.9730	80/20	1.9730
965191	AG1-384 C	4.6644	80/20	4.6644
965281	AG1-393 C	4.9483	80/20	4.9483
965451	AG1-413 C O1	4.7901	80/20	4.7901
965591	AG1-427 C	15.0419	80/20	15.0419
965601	AG1-428 C O1	2.5804	80/20	2.5804
965641	AG1-432 C O1	66.9216	80/20	66.9216
965721	AG1-440 C	4.0478	80/20	4.0478
965731	AG1-441 C	4.0478	80/20	4.0478
965771	AG1-445	2.3387	80/20	2.3387
965781	AG1-446	2.3387	80/20	2.3387
965831	AG1-451	11.1536	80/20	11.1536
966751	AG1-546 C	6.5405	80/20	6.5405
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.6922	80/20	6.6922
WEC	WEC	0.0236	Confirmed LTF	0.0236
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPLE	CPLE	0.2361	Confirmed LTF	0.2361
CBM-W2	CBM-W2	0.9498	Confirmed LTF	0.9498
NY	NY	0.0321	Confirmed LTF	0.0321
TVA	TVA	0.1736	Confirmed LTF	0.1736
SIGE	SIGE	0.0158	Confirmed LTF	0.0158
CBM-S2	CBM-S2	2.5056	Confirmed LTF	2.5056
CBM-S1	CBM-S1	0.0441	Confirmed LTF	0.0441
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2135	Confirmed LTF	0.2135
CBM-W1	CBM-W1	0.9954	Confirmed LTF	0.9954

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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
169243458	314692	6FARMVIL	DVP	314677	6BUCKING	DVP	1	DVP_P1-2: LN 556-C	single	559.3	217.52	220.77	DC	18.19

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
964931	AG1-357 C	36.0840	80/20	36.0840
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
169243507	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	single	226.73	155.2	161.51	DC	14.3

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
246843	05SMG1	0.5805	80/20	0.5805
246844	05SMG2	1.5779	80/20	1.5779
246845	05SMG3	0.9892	80/20	0.9892
246846	05SMG4	1.5534	80/20	1.5534
246847	05SMG5	0.6050	80/20	0.6050
247284	05LEESVG	0.7296	80/20	0.7296
313527	AB2-043 C	0.6460	80/20	0.6460
314429	3JTRSVLE	0.2980	80/20	0.2980
314704	3LAWRENC	0.1696	80/20	0.1696
315156	1HALLBR1	1.3548	80/20	1.3548
315158	1KERR 1	0.3699	80/20	0.3699
315159	1KERR 2	1.0357	80/20	1.0357
315160	1KERR 3	1.0357	80/20	1.0357
315161	1KERR 4	1.0357	80/20	1.0357
315162	1KERR 5	1.0357	80/20	1.0357
315163	1KERR 6	1.0357	80/20	1.0357
315164	1KERR 7	1.0357	80/20	1.0357
315266	1PLYWOOD A	3.6058	80/20	3.6058
316118	AC1-105 C	17.1934	80/20	17.1934
316123	AC1-075 C	2.2966	80/20	2.2966
316129	AC1-054 C	4.6827	80/20	4.6827
316131	AB2-060 C	1.8286	80/20	1.8286
924301	AB2-077 C O1 (Suspended)	2.6800	80/20	2.6800
924311	AB2-078 C O1 (Suspended)	2.6800	80/20	2.6800
924321	AB2-079 C O1 (Suspended)	2.6800	80/20	2.6800
925611	AC1-036 C	0.2218	80/20	0.2218
925661	AC1-042 C	2.1728	80/20	2.1728
926023	AC1-080 C	0.7675	80/20	0.7675
926645	AC1-145 C	0.4081	80/20	0.4081
927261	AC1-222 C	12.1290	80/20	12.1290
934311	AD1-055 C	8.4214	80/20	8.4214
935221	AD1-157 C	0.1446	80/20	0.1446
936265	AD2-033 C	13.5587	80/20	13.5587
936361	AD2-046 C O1	9.1138	80/20	9.1138
936485	AD2-063 C	17.6553	80/20	17.6553
938371	AE1-056 C	3.9510	80/20	3.9510
939181	AE1-148 C	9.0914	80/20	9.0914

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939941	AE1-230 C	0.9802	80/20	0.9802
940661	AE2-053 O1	3.3672	80/20	3.3672
941801	AE2-185 C	4.9010	80/20	4.9010
941821	AE2-187 C	4.9010	80/20	4.9010
942451	AE2-258	3.0548	80/20	3.0548
942461	AE2-259 C O1	3.4716	80/20	3.4716
942671	AE2-283 C	5.3911	80/20	5.3911
942751	AE2-291 C	19.2878	80/20	19.2878
942761	AE2-292 C O1	24.0152	80/20	24.0152
943901	AF1-058 C	6.8587	80/20	6.8587
943911	AF1-059	14.0170	80/20	14.0170
945081	AF1-173	1.8992	80/20	1.8992
946301	AF1-294 C	3.0108	80/20	3.0108
958211	AF2-115 C	1.7711	80/20	1.7711
958801	AF2-171 C	10.7010	80/20	10.7010
959311	AF2-222 C	15.7000	80/20	15.7000
960061	AF2-297 C	27.4349	80/20	27.4349
961121	AF2-403	1.0891	80/20	1.0891
961791	AG1-021 C	1.4168	80/20	1.4168
961891	AG1-030 C	12.0555	80/20	12.0555
962041	AG1-048 C	8.8552	80/20	8.8552
962441	AG1-093 C O1	45.8491	80/20	45.8491
963171	AG1-166 C	1.4168	80/20	1.4168
963181	AG1-167 C	1.4168	80/20	1.4168
963191	AG1-168 C	1.4168	80/20	1.4168
963201	AG1-169 C	1.4168	80/20	1.4168
963211	AG1-170 C	1.4168	80/20	1.4168
963301	AG1-179 C	3.7689	80/20	3.7689
963311	AG1-180	1.8363	80/20	1.8363
963321	AG1-181 C O1	17.3096	80/20	17.3096
963361	AG1-185 O1	8.3749	80/20	8.3749
963601	AG1-209 C	0.3812	80/20	0.3812
963641	AG1-215 C	0.6612	80/20	0.6612
964111	AG1-272 C	2.5210	80/20	2.5210
964121	AG1-273 C	2.5210	80/20	2.5210
964131	AG1-274 C	2.5210	80/20	2.5210
964141	AG1-275 C	1.6337	80/20	1.6337
964151	AG1-276 C	1.6337	80/20	1.6337
964241	AG1-285 C O1	15.1590	80/20	15.1590
964251	AG1-286 C	0.6223	80/20	0.6223
964261	AG1-287 C	5.1440	80/20	5.1440
964471	AG1-310 C	6.8684	80/20	6.8684
964791	AG1-342 C	10.6934	80/20	10.6934
964821	AG1-345 C	0.5693	80/20	0.5693
965191	AG1-384 C	2.5210	80/20	2.5210
965281	AG1-393 C	1.4168	80/20	1.4168
965451	AG1-413 C O1	5.8922	80/20	5.8922
965591	AG1-427 C	14.2996	80/20	14.2996
965601	AG1-428 C O1	3.1464	80/20	3.1464
965641	AG1-432 C O1	6.9432	80/20	6.9432
965721	AG1-440 C	6.1934	80/20	6.1934
965731	AG1-441 C	6.1934	80/20	6.1934

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965771	AG1-445	3.5784	80/20	3.5784
965781	AG1-446	3.5784	80/20	3.5784
965831	AG1-451	1.1572	80/20	1.1572
966691	AG1-539 C	10.0851	80/20	10.0851
966751	AG1-546 C	9.6117	80/20	9.6117
966761	AG1-547 C	4.4300	80/20	4.4300
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.6943	80/20	0.6943
WEC	WEC	0.0164	Confirmed LTF	0.0164
LGEE	LGEE	0.0509	Confirmed LTF	0.0509
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
NY	NY	0.0547	Confirmed LTF	0.0547
PRAIRIE	PRAIRIE	0.0827	Confirmed LTF	0.0827
SIGE	SIGE	0.0181	Confirmed LTF	0.0181
CHEOAH	CHEOAH	0.1496	Confirmed LTF	0.1496
COTTONWOOD	COTTONWOOD	0.4284	Confirmed LTF	0.4284
HAMLET	HAMLET	0.6809	Confirmed LTF	0.6809
CATAWBA	CATAWBA	0.3041	Confirmed LTF	0.3041
CBM-W1	CBM-W1	0.7290	Confirmed LTF	0.7290

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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
169243523	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.06	137.01	142.58	DC	14.26

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
246843	05SMG1	0.5788	80/20	0.5788
246844	05SMG2	1.5733	80/20	1.5733
246845	05SMG3	0.9864	80/20	0.9864
246846	05SMG4	1.5489	80/20	1.5489
246847	05SMG5	0.6032	80/20	0.6032
247284	05LEESVG	0.7274	80/20	0.7274
313527	AB2-043 C	0.6441	80/20	0.6441
314429	3JTRSVLE	0.2972	80/20	0.2972
314704	3LAWRENC	0.1691	80/20	0.1691
315156	1HALLBR1	1.3508	80/20	1.3508
315158	1KERR 1	0.3688	80/20	0.3688
315159	1KERR 2	1.0326	80/20	1.0326
315160	1KERR 3	1.0326	80/20	1.0326
315161	1KERR 4	1.0326	80/20	1.0326
315162	1KERR 5	1.0326	80/20	1.0326
315163	1KERR 6	1.0326	80/20	1.0326
315164	1KERR 7	1.0326	80/20	1.0326
315266	1PLYWOOD A	3.5951	80/20	3.5951
316118	AC1-105 C	17.1420	80/20	17.1420
316123	AC1-075 C	2.2897	80/20	2.2897
316129	AC1-054 C	4.6689	80/20	4.6689
316131	AB2-060 C	1.8231	80/20	1.8231
924301	AB2-077 C O1 (Suspended)	2.6719	80/20	2.6719
924311	AB2-078 C O1 (Suspended)	2.6719	80/20	2.6719
924321	AB2-079 C O1 (Suspended)	2.6719	80/20	2.6719
925611	AC1-036 C	0.2212	80/20	0.2212
925661	AC1-042 C	2.1663	80/20	2.1663
926023	AC1-080 C	0.7652	80/20	0.7652
926645	AC1-145 C	0.4069	80/20	0.4069
927261	AC1-222 C	12.0926	80/20	12.0926
934311	AD1-055 C	8.3962	80/20	8.3962
935221	AD1-157 C	0.1442	80/20	0.1442
936265	AD2-033 C	13.5182	80/20	13.5182
936361	AD2-046 C O1	9.0864	80/20	9.0864
936485	AD2-063 C	17.6022	80/20	17.6022
938371	AE1-056 C	3.9394	80/20	3.9394
939181	AE1-148 C	9.0639	80/20	9.0639

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939941	AE1-230 C	0.9773	80/20	0.9773
940661	AE2-053 O1	3.3570	80/20	3.3570
941801	AE2-185 C	4.8863	80/20	4.8863
941821	AE2-187 C	4.8863	80/20	4.8863
942451	AE2-258	3.0456	80/20	3.0456
942461	AE2-259 C O1	3.4614	80/20	3.4614
942671	AE2-283 C	5.3749	80/20	5.3749
942751	AE2-291 C	19.2303	80/20	19.2303
942761	AE2-292 C O1	23.9436	80/20	23.9436
943901	AF1-058 C	6.8382	80/20	6.8382
943911	AF1-059	13.9753	80/20	13.9753
945081	AF1-173	1.8934	80/20	1.8934
946301	AF1-294 C	3.0019	80/20	3.0019
958211	AF2-115 C	1.7658	80/20	1.7658
958801	AF2-171 C	10.6686	80/20	10.6686
959311	AF2-222 C	15.6530	80/20	15.6530
960061	AF2-297 C	27.3528	80/20	27.3528
961121	AF2-403	1.0858	80/20	1.0858
961791	AG1-021 C	1.4126	80/20	1.4126
961891	AG1-030 C	12.0195	80/20	12.0195
962041	AG1-048 C	8.8290	80/20	8.8290
962441	AG1-093 C O1	45.7120	80/20	45.7120
963171	AG1-166 C	1.4126	80/20	1.4126
963181	AG1-167 C	1.4126	80/20	1.4126
963191	AG1-168 C	1.4126	80/20	1.4126
963201	AG1-169 C	1.4126	80/20	1.4126
963211	AG1-170 C	1.4126	80/20	1.4126
963301	AG1-179 C	3.7578	80/20	3.7578
963311	AG1-180	1.8309	80/20	1.8309
963321	AG1-181 C O1	17.2581	80/20	17.2581
963361	AG1-185 O1	8.3499	80/20	8.3499
963601	AG1-209 C	0.3800	80/20	0.3800
963641	AG1-215 C	0.6592	80/20	0.6592
964111	AG1-272 C	2.5135	80/20	2.5135
964121	AG1-273 C	2.5135	80/20	2.5135
964131	AG1-274 C	2.5135	80/20	2.5135
964141	AG1-275 C	1.6288	80/20	1.6288
964151	AG1-276 C	1.6288	80/20	1.6288
964241	AG1-285 C O1	15.1132	80/20	15.1132
964251	AG1-286 C	0.6204	80/20	0.6204
964261	AG1-287 C	5.1287	80/20	5.1287
964471	AG1-310 C	6.8479	80/20	6.8479
964791	AG1-342 C	10.6614	80/20	10.6614
964821	AG1-345 C	0.5676	80/20	0.5676
965191	AG1-384 C	2.5135	80/20	2.5135
965281	AG1-393 C	1.4126	80/20	1.4126
965451	AG1-413 C O1	5.8747	80/20	5.8747
965591	AG1-427 C	14.2570	80/20	14.2570
965601	AG1-428 C O1	3.1371	80/20	3.1371
965641	AG1-432 C O1	6.9228	80/20	6.9228
965721	AG1-440 C	6.1749	80/20	6.1749
965731	AG1-441 C	6.1749	80/20	6.1749

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965771	AG1-445	3.5677	80/20	3.5677
965781	AG1-446	3.5677	80/20	3.5677
965831	AG1-451	1.1538	80/20	1.1538
966691	AG1-539 C	10.0550	80/20	10.0550
966751	AG1-546 C	9.5834	80/20	9.5834
966761	AG1-547 C	4.4167	80/20	4.4167
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.6923	80/20	0.6923
WEC	WEC	0.0161	Confirmed LTF	0.0161
LGEE	LGEE	0.0503	Confirmed LTF	0.0503
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
NY	NY	0.0553	Confirmed LTF	0.0553
PRAIRIE	PRAIRIE	0.0827	Confirmed LTF	0.0827
SIGE	SIGE	0.0180	Confirmed LTF	0.0180
CHEOAH	CHEOAH	0.1496	Confirmed LTF	0.1496
COTTONWOOD	COTTONWOOD	0.4284	Confirmed LTF	0.4284
HAMLET	HAMLET	0.6791	Confirmed LTF	0.6791
CATAWBA	CATAWBA	0.3035	Confirmed LTF	0.3035
CBM-W1	CBM-W1	0.7150	Confirmed LTF	0.7150

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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
169243486	314697	6SEGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-C	single	674.92	195.51	197.93	DC	16.29

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
166980218	314699	3ISLND C	DVP	313705	3KERRDP	DVP	1	DVP_P7-1: LN 171-1009	tower	202.0	102.66	110.5	DC	15.82

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4229	50/50	0.4229
313853	3PONTONDP	0.2999	Adder	0.35
314713	3PAMPLIN	0.6573	Adder	0.77
315266	1PLYWOOD A	0.9917	50/50	0.9917
316118	AC1-105 C	2.4718	Adder	2.91
316129	AC1-054 C	-7.0449	Adder	-8.29
316131	AB2-060 C	1.1992	50/50	1.1992
924022	AB2-043 E O1	2.3969	50/50	2.3969
924162	AB2-060 E OP	3.5768	50/50	3.5768
924301	AB2-077 C O1 (Suspended)	1.9992	50/50	1.9992
924302	AB2-077 E O1 (Suspended)	1.3328	50/50	1.3328
924311	AB2-078 C O1 (Suspended)	1.9992	50/50	1.9992
924312	AB2-078 E O1 (Suspended)	1.3328	50/50	1.3328
924321	AB2-079 C O1 (Suspended)	1.9992	50/50	1.9992
924322	AB2-079 E O1 (Suspended)	1.3328	50/50	1.3328
925611	AC1-036 C	0.1533	50/50	0.1533
925612	AC1-036 E	0.5817	50/50	0.5817
926274	AC1-105 E	1.2144	Adder	1.43
927261	AC1-222 C	1.2514	Adder	1.47
927262	AC1-222 E	1.1913	Adder	1.4
934311	AD1-055 C	0.8689	Adder	1.02
934312	AD1-055 E	0.2241	Adder	0.26
935222	AD1-157 E	0.4052	Adder	0.48
936265	AD2-033 C	9.2391	50/50	9.2391
936266	AD2-033 E	6.1594	50/50	6.1594
936485	AD2-063 C	11.7639	50/50	11.7639
936486	AD2-063 E	7.8426	50/50	7.8426
938371	AE1-056 C	2.6206	Adder	3.08
938372	AE1-056 E	1.4319	Adder	1.68
940662	AE2-053 BAT	5.6696	50/50	5.6696
942451	AE2-258	1.9998	50/50	1.9998
942461	AE2-259 C O1	2.8346	Adder	3.33
942462	AE2-259 E O1	1.8897	Adder	2.22
943901	AF1-058 C	0.7075	Adder	0.83
943902	AF1-058 E	0.4716	Adder	0.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943911	AF1-059	6.4092	Adder	7.54
946301	AF1-294 C	1.9120	Adder	2.25
946302	AF1-294 E	1.2746	Adder	1.5
958211	AF2-115 C	1.1247	Adder	1.32
958212	AF2-115 E	0.7498	Adder	0.88
958801	AF2-171 C	6.7878	Adder	7.99
958802	AF2-171 E	4.5252	Adder	5.32
959311	AF2-222 C	10.9430	50/50	10.9430
959312	AF2-222 E	7.3318	50/50	7.3318
960061	AF2-297 C	2.8299	Adder	3.33
960062	AF2-297 E	1.8866	Adder	2.22
961791	AG1-021 C	0.4769	Adder	1.06
961792	AG1-021 E	0.3179	Adder	0.71
961891	AG1-030 C	3.9256	Adder	8.71
961892	AG1-030 E	2.6170	Adder	5.81
962041	AG1-048 C	2.9804	Adder	6.62
962042	AG1-048 E	1.9869	Adder	4.41
962441	AG1-093 C O1	3.4935	Adder	7.75
962442	AG1-093 E O1	1.0632	Adder	2.36
963171	AG1-166 C	0.4769	Adder	1.06
963172	AG1-166 E	0.3179	Adder	0.71
963181	AG1-167 C	0.4769	Adder	1.06
963182	AG1-167 E	0.3179	Adder	0.71
963191	AG1-168 C	0.4769	Adder	1.06
963192	AG1-168 E	0.3179	Adder	0.71
963201	AG1-169 C	0.4769	Adder	1.06
963202	AG1-169 E	0.3179	Adder	0.71
963211	AG1-170 C	0.4769	Adder	1.06
963212	AG1-170 E	0.3179	Adder	0.71
963301	AG1-179 C	0.7641	Adder	1.7
963311	AG1-180	0.3723	Adder	0.83
963321	AG1-181 C O1	11.8437	50/50	11.8437
963361	AG1-185 O1	5.7303	50/50	5.7303
963641	AG1-215 C	0.2225	Adder	0.49
963642	AG1-215 E	0.3338	Adder	0.74
964111	AG1-272 C	1.7417	50/50	1.7417
964112	AG1-272 E	0.5173	50/50	0.5173
964121	AG1-273 C	1.7417	50/50	1.7417
964122	AG1-273 E	0.5173	50/50	0.5173
964131	AG1-274 C	1.7417	50/50	1.7417
964132	AG1-274 E	0.5173	50/50	0.5173
964241	AG1-285 C O1	10.0455	50/50	10.0455
964242	AG1-285 E O1	6.6970	50/50	6.6970
964261	AG1-287 C	0.2812	Adder	0.62
964262	AG1-287 E	0.1875	Adder	0.42
964471	AG1-310 C	0.3757	Adder	0.83
964472	AG1-310 E	0.1850	Adder	0.41
964791	AG1-342 C	1.1283	Adder	2.5
964792	AG1-342 E	0.8865	Adder	1.97
964821	AG1-345 C	0.1914	Adder	0.42
964822	AG1-345 E	0.1276	Adder	0.28
965191	AG1-384 C	1.7417	50/50	1.7417

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965192	AG1-384 E	0.5173	50/50	0.5173
965281	AG1-393 C	0.4769	Adder	1.06
965282	AG1-393 E	0.3179	Adder	0.71
965451	AG1-413 C O1	1.4279	Adder	3.17
965452	AG1-413 E O1	0.9519	Adder	2.11
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O1	0.6379	Adder	1.42
965602	AG1-428 E O1	0.4245	Adder	0.94
965641	AG1-432 C O1	3.0047	Adder	6.67
965642	AG1-432 E O1	2.0031	Adder	4.45
965772	AG1-445 BAT	6.4462	50/50	6.4462
965782	AG1-446 BAT	6.4462	50/50	6.4462
965831	AG1-451	0.5008	Adder	1.11
966753	AG1-546 BAT	6.4143	50/50	6.4143
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3005	Adder	0.67
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2003	Adder	0.44
G-007A	G-007A	0.1654	Confirmed LTF	0.1654
VFT	VFT	0.4451	Confirmed LTF	0.4451
CALDERWOOD	CALDERWOOD	0.0984	Confirmed LTF	0.0984
PRAIRIE	PRAIRIE	0.2144	Confirmed LTF	0.2144
CHEOAH	CHEOAH	0.1026	Confirmed LTF	0.1026
CBM-N	CBM-N	0.0828	Confirmed LTF	0.0828
COTTONWOOD	COTTONWOOD	0.3360	Confirmed LTF	0.3360
HAMLET	HAMLET	0.3274	Confirmed LTF	0.3274
GIBSON	GIBSON	0.0229	Confirmed LTF	0.0229
BLUEG	BLUEG	0.0590	Confirmed LTF	0.0590
TRIMBLE	TRIMBLE	0.0178	Confirmed LTF	0.0178
CATAWBA	CATAWBA	0.1431	Confirmed LTF	0.1431

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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
168518227	314701	3LONEPN	DVP	313755	3FLAT CREEK	DVP	1	Base Case	single	203.98	122.36	126.22	DC	7.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4009	80/20	0.4009
314429	3JTRSVLE	1.3977	80/20	1.3977
314704	3LAWRENC	0.1117	80/20	0.1117
315158	1KERR 1	0.1906	80/20	0.1906
315159	1KERR 2	0.5337	80/20	0.5337
315160	1KERR 3	0.5337	80/20	0.5337
315161	1KERR 4	0.5337	80/20	0.5337
315162	1KERR 5	0.5337	80/20	0.5337
315163	1KERR 6	0.5337	80/20	0.5337
315164	1KERR 7	0.5337	80/20	0.5337
316118	AC1-105 C	1.8185	80/20	1.8185
316129	AC1-054 C	2.5725	80/20	2.5725
316131	AB2-060 C	1.2911	80/20	1.2911
924301	AB2-077 C O1 (Suspended)	1.5502	80/20	1.5502
924311	AB2-078 C O1 (Suspended)	1.5502	80/20	1.5502
924321	AB2-079 C O1 (Suspended)	1.5502	80/20	1.5502
925611	AC1-036 C	0.0731	80/20	0.0731
936265	AD2-033 C	24.7221	80/20	24.7221
936361	AD2-046 C O1	4.9041	80/20	4.9041
936485	AD2-063 C	9.3060	80/20	9.3060
939181	AE1-148 C	4.9324	80/20	4.9324
940661	AE2-053 O1	1.8268	80/20	1.8268
942451	AE2-258	1.8956	80/20	1.8956
943911	AF1-059	8.9330	80/20	8.9330
946301	AF1-294 C	14.1193	80/20	14.1193
958211	AF2-115 C	8.3055	80/20	8.3055
961791	AG1-021 C	6.6444	80/20	6.6444
961891	AG1-030 C	43.7661	80/20	43.7661
962041	AG1-048 C	41.5275	80/20	41.5275
962441	AG1-093 C O1	4.8493	80/20	4.8493
963171	AG1-166 C	6.6444	80/20	6.6444
963181	AG1-167 C	6.6444	80/20	6.6444
963191	AG1-168 C	6.6444	80/20	6.6444
963201	AG1-169 C	6.6444	80/20	6.6444
963211	AG1-170 C	6.6444	80/20	6.6444
963301	AG1-179 C	2.4494	80/20	2.4494
963311	AG1-180	1.1934	80/20	1.1934
963321	AG1-181 C O1	6.6325	80/20	6.6325
963361	AG1-185 O1	3.2090	80/20	3.2090

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963641	AG1-215 C	3.1007	80/20	3.1007
964111	AG1-272 C	0.8308	80/20	0.8308
964121	AG1-273 C	0.8308	80/20	0.8308
964131	AG1-274 C	0.8308	80/20	0.8308
964241	AG1-285 C O1	8.4308	80/20	8.4308
964791	AG1-342 C	1.8711	80/20	1.8711
964821	AG1-345 C	2.6467	80/20	2.6467
965191	AG1-384 C	0.8308	80/20	0.8308
965281	AG1-393 C	6.6444	80/20	6.6444
965451	AG1-413 C O1	3.7551	80/20	3.7551
965591	AG1-427 C	7.8857	80/20	7.8857
965601	AG1-428 C O1	2.0448	80/20	2.0448
965721	AG1-440 C	3.2508	80/20	3.2508
965731	AG1-441 C	3.2508	80/20	3.2508
965771	AG1-445	1.8782	80/20	1.8782
965781	AG1-446	1.8782	80/20	1.8782
966751	AG1-546 C	5.3496	80/20	5.3496
WEC	WEC	0.0372	Confirmed LTF	0.0372
LGEE	LGEE	0.0760	Confirmed LTF	0.0760
CPL	CPL	0.5255	Confirmed LTF	0.5255
CBM-W2	CBM-W2	1.7830	Confirmed LTF	1.7830
NY	NY	0.0553	Confirmed LTF	0.0553
TVA	TVA	0.3458	Confirmed LTF	0.3458
SIGE	SIGE	0.0256	Confirmed LTF	0.0256
CBM-S2	CBM-S2	5.8255	Confirmed LTF	5.8255
CBM-S1	CBM-S1	0.0851	Confirmed LTF	0.0851
MEC	MEC	0.2320	Confirmed LTF	0.2320
LAGN	LAGN	0.4305	Confirmed LTF	0.4305
CBM-W1	CBM-W1	1.5422	Confirmed LTF	1.5422

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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
163825709	314702	3KERR	DVP	304102	3GW KING TAP	CPL	1	DVP_P4-6: CAROLIN T122	breaker	199.0	186.03	196.74	DC	21.66

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	3.7689	Adder	4.43
942462	AE2-259 E O1	2.5126	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
962441	AG1-093 C O1	3.5138	Adder	7.8
962442	AG1-093 E O1	1.0694	Adder	2.37
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 O1	16.1673	50/50	16.1673
963361	AG1-185 O1	7.8222	50/50	7.8222
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
964241	AG1-285 C O1	13.7527	50/50	13.7527
964242	AG1-285 E O1	9.1685	50/50	9.1685
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
965191	AG1-384 C	2.3755	50/50	2.3755
965192	AG1-384 E	0.7055	50/50	0.7055

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965281	AG1-393 C	0.6462	Adder	1.43
965282	AG1-393 E	0.4308	Adder	0.96
965451	AG1-413 C O1	2.4036	Adder	5.34
965452	AG1-413 E O1	1.6024	Adder	3.56
965591	AG1-427 C	12.9843	50/50	12.9843
965592	AG1-427 E	8.6745	50/50	8.6745
965601	AG1-428 C O1	1.2922	Adder	2.87
965602	AG1-428 E O1	0.8600	Adder	1.91
965641	AG1-432 C O1	3.9950	Adder	8.87
965642	AG1-432 E O1	2.6634	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	0.6658	Adder	1.48
966751	AG1-546 C	34.7517	50/50	34.7517
966752	AG1-546 E	18.6468	50/50	18.6468
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3995	Adder	0.89
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2663	Adder	0.59
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

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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
169243632	314702	3KERR	DVP	314673	3PALMERSPRNG	DVP	1	DVP_P1-2: LN 45	single	138.18	122.96	128.06	DC	7.04

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
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
963321	AG1-181 C O1	8.7625	80/20	8.7625
963361	AG1-185 O1	4.2395	80/20	4.2395

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
964241	AG1-285 C O1	7.4595	80/20	7.4595
964791	AG1-342 C	1.6188	80/20	1.6188
964821	AG1-345 C	0.3114	80/20	0.3114
965191	AG1-384 C	1.2873	80/20	1.2873
965281	AG1-393 C	0.7758	80/20	0.7758
965451	AG1-413 C O1	2.1488	80/20	2.1488
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

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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
169243476	314707	3MORAN	DVP	314691	3FARMVIL	DVP	1	Base Case	single	203.98	118.93	122.79	DC	7.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4009	80/20	0.4009
314429	3JTRSVLE	1.3977	80/20	1.3977
314704	3LAWRENC	0.1117	80/20	0.1117
315158	1KERR 1	0.1906	80/20	0.1906
315159	1KERR 2	0.5337	80/20	0.5337
315160	1KERR 3	0.5337	80/20	0.5337
315161	1KERR 4	0.5337	80/20	0.5337
315162	1KERR 5	0.5337	80/20	0.5337
315163	1KERR 6	0.5337	80/20	0.5337
315164	1KERR 7	0.5337	80/20	0.5337
316118	AC1-105 C	1.8185	80/20	1.8185
316129	AC1-054 C	2.5725	80/20	2.5725
316131	AB2-060 C	1.2911	80/20	1.2911
924301	AB2-077 C O1 (Suspended)	1.5502	80/20	1.5502
924311	AB2-078 C O1 (Suspended)	1.5502	80/20	1.5502
924321	AB2-079 C O1 (Suspended)	1.5502	80/20	1.5502
925611	AC1-036 C	0.0731	80/20	0.0731
936265	AD2-033 C	24.7221	80/20	24.7221
936361	AD2-046 C O1	4.9041	80/20	4.9041
936485	AD2-063 C	9.3060	80/20	9.3060
939181	AE1-148 C	4.9324	80/20	4.9324
940661	AE2-053 O1	1.8268	80/20	1.8268
942451	AE2-258	1.8956	80/20	1.8956
943911	AF1-059	8.9330	80/20	8.9330
946301	AF1-294 C	14.1193	80/20	14.1193
958211	AF2-115 C	8.3055	80/20	8.3055
961791	AG1-021 C	6.6444	80/20	6.6444
961891	AG1-030 C	43.7661	80/20	43.7661
962041	AG1-048 C	41.5275	80/20	41.5275
962441	AG1-093 C O1	4.8493	80/20	4.8493
963171	AG1-166 C	6.6444	80/20	6.6444
963181	AG1-167 C	6.6444	80/20	6.6444
963191	AG1-168 C	6.6444	80/20	6.6444
963201	AG1-169 C	6.6444	80/20	6.6444
963211	AG1-170 C	6.6444	80/20	6.6444
963301	AG1-179 C	2.4494	80/20	2.4494
963311	AG1-180	1.1934	80/20	1.1934
963321	AG1-181 C O1	6.6325	80/20	6.6325
963361	AG1-185 O1	3.2090	80/20	3.2090

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963641	AG1-215 C	3.1007	80/20	3.1007
964111	AG1-272 C	0.8308	80/20	0.8308
964121	AG1-273 C	0.8308	80/20	0.8308
964131	AG1-274 C	0.8308	80/20	0.8308
964241	AG1-285 C O1	8.4308	80/20	8.4308
964791	AG1-342 C	1.8711	80/20	1.8711
964821	AG1-345 C	2.6467	80/20	2.6467
965191	AG1-384 C	0.8308	80/20	0.8308
965281	AG1-393 C	6.6444	80/20	6.6444
965451	AG1-413 C O1	3.7551	80/20	3.7551
965591	AG1-427 C	7.8857	80/20	7.8857
965601	AG1-428 C O1	2.0448	80/20	2.0448
965721	AG1-440 C	3.2508	80/20	3.2508
965731	AG1-441 C	3.2508	80/20	3.2508
965771	AG1-445	1.8782	80/20	1.8782
965781	AG1-446	1.8782	80/20	1.8782
966751	AG1-546 C	5.3496	80/20	5.3496
WEC	WEC	0.0372	Confirmed LTF	0.0372
LGEE	LGEE	0.0760	Confirmed LTF	0.0760
CPL	CPL	0.5255	Confirmed LTF	0.5255
CBM-W2	CBM-W2	1.7830	Confirmed LTF	1.7830
NY	NY	0.0553	Confirmed LTF	0.0553
TVA	TVA	0.3458	Confirmed LTF	0.3458
SIGE	SIGE	0.0256	Confirmed LTF	0.0256
CBM-S2	CBM-S2	5.8255	Confirmed LTF	5.8255
CBM-S1	CBM-S1	0.0851	Confirmed LTF	0.0851
MEC	MEC	0.2320	Confirmed LTF	0.2320
LAGN	LAGN	0.4305	Confirmed LTF	0.4305
CBM-W1	CBM-W1	1.5422	Confirmed LTF	1.5422

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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
169243513	314713	3PAMPLIN	DVP	314726	3WILLIS	DVP	1	DVP_P1-2: LN 1012-D	single	331.82	150.53	171.96	DC	71.09

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925611	AC1-036 C	1.3567	80/20	1.3567
935221	AD1-157 C	1.4198	80/20	1.4198
936485	AD2-063 C	89.9919	80/20	89.9919
938371	AE1-056 C	38.7965	80/20	38.7965
958801	AF2-171 C	89.9919	80/20	89.9919
959311	AF2-222 C	99.9910	80/20	99.9910
963321	AG1-181 C O1	101.0809	80/20	101.0809
963361	AG1-185 O1	48.9056	80/20	48.9056
964111	AG1-272 C	15.4186	80/20	15.4186
964121	AG1-273 C	15.4186	80/20	15.4186
964131	AG1-274 C	15.4186	80/20	15.4186
965191	AG1-384 C	15.4186	80/20	15.4186
965591	AG1-427 C	71.0936	80/20	71.0936
CALDERWOOD	CALDERWOOD	0.0045	Confirmed LTF	0.0045
NY	NY	0.0050	Confirmed LTF	0.0050
PRAIRIE	PRAIRIE	0.0232	Confirmed LTF	0.0232
CHEOAH	CHEOAH	0.0045	Confirmed LTF	0.0045
COTTONWOOD	COTTONWOOD	0.0189	Confirmed LTF	0.0189
HAMLET	HAMLET	0.0052	Confirmed LTF	0.0052
GIBSON	GIBSON	0.0049	Confirmed LTF	0.0049
BLUEG	BLUEG	0.0156	Confirmed LTF	0.0156
TRIMBLE	TRIMBLE	0.0050	Confirmed LTF	0.0050
CATAWBA	CATAWBA	0.0032	Confirmed LTF	0.0032

11.6.44 Index 44

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
169243681	314714	3PERTH	DVP	942750	AE2-291 TAP	DVP	1	DVP_P1-2: LN 556-C	single	285.76	102.05	103.94	DC	5.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2342	80/20	0.2342
314429	3JTRSVLE	0.1582	80/20	0.1582
315153	1CLOVER1	5.6497	80/20	5.6497
315154	1CLOVER2	5.5934	80/20	5.5934
315158	1KERR 1	0.1479	80/20	0.1479
315159	1KERR 2	0.4140	80/20	0.4140
315160	1KERR 3	0.4140	80/20	0.4140
315161	1KERR 4	0.4140	80/20	0.4140
315162	1KERR 5	0.4140	80/20	0.4140
315163	1KERR 6	0.4140	80/20	0.4140
315164	1KERR 7	0.4140	80/20	0.4140
315266	1PLYWOOD A	1.0279	80/20	1.0279
316118	AC1-105 C	4.9149	80/20	4.9149
316123	AC1-075 C	2.6596	80/20	2.6596
316131	AB2-060 C	0.6693	80/20	0.6693
924301	AB2-077 C O1 (Suspended)	0.9595	80/20	0.9595
924311	AB2-078 C O1 (Suspended)	0.9595	80/20	0.9595
924321	AB2-079 C O1 (Suspended)	0.9595	80/20	0.9595
925611	AC1-036 C	0.0950	80/20	0.0950
925661	AC1-042 C	-2.7383	Adder	-3.22
926023	AC1-080 C	0.8889	80/20	0.8889
927261	AC1-222 C	5.0515	80/20	5.0515
934311	AD1-055 C	3.5074	80/20	3.5074
934615	AD1-087 C	3.5498	80/20	3.5498
934625	AD1-088 C	4.8388	80/20	4.8388
935171	AD1-152 C O1	3.8990	80/20	3.8990
935221	AD1-157 C	0.0853	80/20	0.0853
936265	AD2-033 C	5.5895	80/20	5.5895
936361	AD2-046 C O1	3.5702	80/20	3.5702
936485	AD2-063 C	6.7725	80/20	6.7725
937481	AD2-202 C O1	1.0397	80/20	1.0397
938371	AE1-056 C	2.3296	80/20	2.3296
939181	AE1-148 C	3.5473	80/20	3.5473
940661	AE2-053 O1	1.3138	80/20	1.3138
941791	AE2-182 C	0.7861	80/20	0.7861
942451	AE2-258	1.1076	80/20	1.1076
942461	AE2-259 C O1	3.1770	80/20	3.1770
943901	AF1-058 C	1.9088	80/20	1.9088
943911	AF1-059	5.6494	80/20	5.6494

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
945811	AF1-246 C O1	3.4070	80/20	3.4070
946301	AF1-294 C	1.5978	80/20	1.5978
957481	AF2-042 C	24.3360	80/20	24.3360
958211	AF2-115 C	0.9399	80/20	0.9399
958801	AF2-171 C	5.6511	80/20	5.6511
959311	AF2-222 C	6.8930	80/20	6.8930
959751	AF2-266	4.0555	80/20	4.0555
960061	AF2-297 C	7.6354	80/20	7.6354
961791	AG1-021 C	0.7519	80/20	0.7519
961891	AG1-030 C	5.8698	80/20	5.8698
962041	AG1-048 C	4.6995	80/20	4.6995
962441	AG1-093 C O1	13.1063	80/20	13.1063
962491	AG1-098 C O1	5.5507	80/20	5.5507
962561	AG1-105 C O1	5.0178	80/20	5.0178
963171	AG1-166 C	0.7519	80/20	0.7519
963181	AG1-167 C	0.7519	80/20	0.7519
963191	AG1-168 C	0.7519	80/20	0.7519
963201	AG1-169 C	0.7519	80/20	0.7519
963211	AG1-170 C	0.7519	80/20	0.7519
963271	AG1-176 C O1	5.9076	80/20	5.9076
963321	AG1-181 C O1	7.2006	80/20	7.2006
963361	AG1-185 O1	3.4839	80/20	3.4839
963641	AG1-215 C	0.3509	80/20	0.3509
964111	AG1-272 C	1.0791	80/20	1.0791
964121	AG1-273 C	1.0791	80/20	1.0791
964131	AG1-274 C	1.0791	80/20	1.0791
964241	AG1-285 C O1	5.7157	80/20	5.7157
964261	AG1-287 C	1.4316	80/20	1.4316
964471	AG1-310 C	3.2918	80/20	3.2918
964791	AG1-342 C	3.1669	80/20	3.1669
964821	AG1-345 C	0.3012	80/20	0.3012
964841	AG1-347 C	3.6820	80/20	3.6820
964931	AG1-357 C	9.7344	80/20	9.7344
965191	AG1-384 C	1.0791	80/20	1.0791
965281	AG1-393 C	0.7519	80/20	0.7519
965451	AG1-413 C O1	2.3748	80/20	2.3748
965591	AG1-427 C	5.4072	80/20	5.4072
965641	AG1-432 C O1	6.3540	80/20	6.3540
965721	AG1-440 C	2.5690	80/20	2.5690
965731	AG1-441 C	2.5690	80/20	2.5690
965771	AG1-445	1.4843	80/20	1.4843
965781	AG1-446	1.4843	80/20	1.4843
965831	AG1-451	1.0590	80/20	1.0590
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.6354	80/20	0.6354
CPLE	CPLE	1.2333	Confirmed LTF	1.2333
G-007A	G-007A	0.2374	Confirmed LTF	0.2374
VFT	VFT	0.6256	Confirmed LTF	0.6256
PRAIRIE	PRAIRIE	0.4856	Confirmed LTF	0.4856
CBM-S2	CBM-S2	10.8785	Confirmed LTF	10.8785
CBM-N	CBM-N	0.1116	Confirmed LTF	0.1116
GIBSON	GIBSON	0.1638	Confirmed LTF	0.1638

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
BLUEG	BLUEG	0.5781	Confirmed LTF	0.5781
TRIMBLE	TRIMBLE	0.1881	Confirmed LTF	0.1881
LAGN	LAGN	0.0350	Confirmed LTF	0.0350

11.6.45 Index 45

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
169243517	314715	3MADSONV	DVP	314713	3PAMPLIN	DVP	1	DVP_P1-2: LN 1012-D	single	331.82	145.88	167.31	DC	71.1

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925611	AC1-036 C	1.3567	80/20	1.3567
936485	AD2-063 C	89.9955	80/20	89.9955
958801	AF2-171 C	89.9955	80/20	89.9955
959311	AF2-222 C	99.9950	80/20	99.9950
963321	AG1-181 C O1	101.0849	80/20	101.0849
963361	AG1-185 O1	48.9076	80/20	48.9076
964111	AG1-272 C	15.4192	80/20	15.4192
964121	AG1-273 C	15.4192	80/20	15.4192
964131	AG1-274 C	15.4192	80/20	15.4192
965191	AG1-384 C	15.4192	80/20	15.4192
965591	AG1-427 C	71.0964	80/20	71.0964
CALDERWOOD	CALDERWOOD	0.0025	Confirmed LTF	0.0025
NY	NY	0.0028	Confirmed LTF	0.0028
PRAIRIE	PRAIRIE	0.0129	Confirmed LTF	0.0129
CHEOAH	CHEOAH	0.0025	Confirmed LTF	0.0025
COTTONWOOD	COTTONWOOD	0.0105	Confirmed LTF	0.0105
HAMLET	HAMLET	0.0029	Confirmed LTF	0.0029
GIBSON	GIBSON	0.0027	Confirmed LTF	0.0027
BLUEG	BLUEG	0.0087	Confirmed LTF	0.0087
TRIMBLE	TRIMBLE	0.0028	Confirmed LTF	0.0028
CATAWBA	CATAWBA	0.0017	Confirmed LTF	0.0017

11.6.46 Index 46

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
169243445	314726	3WILLIS	DVP	314691	3FARMVIL	DVP	1	Base Case	single	186.12	149.98	156.65	DC	12.41

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
963301	AG1-179 C	1.8776	80/20	1.8776
963311	AG1-180	0.9148	80/20	0.9148
963321	AG1-181 C O1	31.5593	80/20	31.5593
963361	AG1-185 O1	15.2692	80/20	15.2692
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
964241	AG1-285 C O1	12.7485	80/20	12.7485
964791	AG1-342 C	1.4298	80/20	1.4298
965191	AG1-384 C	5.3637	80/20	5.3637
965451	AG1-413 C O1	2.8781	80/20	2.8781
965591	AG1-427 C	12.4098	80/20	12.4098
965601	AG1-428 C O1	1.5674	80/20	1.5674
965641	AG1-432 C O1	100.0992	80/20	100.0992

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	10.0099	80/20	10.0099
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

11.6.47 Index 47

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
163338973	314747	6BREMO	DVP	313868	6CARTERV	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	111.04	112.37	DC	13.0

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.7662	50/50	0.7662
314429	3JTRSVLE	0.4835	50/50	0.4835
314677	6BUCKING	0.8051	50/50	0.8051
314713	3PAMPLIN	2.0195	50/50	2.0195
315191	1BEARGRDN G1	14.2615	50/50	14.2615
315192	1BEARGRDN G2	14.2615	50/50	14.2615
315193	1BEARGRDN S1	18.4429	50/50	18.4429
924022	AB2-043 E O1	1.3542	Adder	1.59
924032	AB2-045 E	2.3814	50/50	2.3814
924162	AB2-060 E OP	2.1314	Adder	2.51
924301	AB2-077 C O1 (Suspended)	0.9345	Adder	1.1
924302	AB2-077 E O1 (Suspended)	0.6230	Adder	0.73
924311	AB2-078 C O1 (Suspended)	0.9345	Adder	1.1
924312	AB2-078 E O1 (Suspended)	0.6230	Adder	0.73
924321	AB2-079 C O1 (Suspended)	0.9345	Adder	1.1
924322	AB2-079 E O1 (Suspended)	0.6230	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)	0.7932	50/50	0.7932
932512	AC2-071 E (Withdrawn : 01/22/2021)	2.5326	50/50	2.5326
934625	AD1-088 C	10.6986	50/50	10.6986
934626	AD1-088 E	2.8020	50/50	2.8020
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	29.3769	50/50	29.3769
938822	AE1-108 E O1	13.1844	50/50	13.1844
941011	AE2-092 C	25.2830	50/50	25.2830
941012	AE2-092 E	16.8553	50/50	16.8553

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941791	AE2-182 C	1.7381	50/50	1.7381
941792	AE2-182 E	0.8091	50/50	0.8091
942451	AE2-258	1.1298	Adder	1.33
942461	AE2-259 C O1	15.0522	50/50	15.0522
942462	AE2-259 E O1	10.0348	50/50	10.0348
946291	AF1-293 C O1	39.5443	50/50	39.5443
946292	AF1-293 E O1	7.1136	50/50	7.1136
946301	AF1-294 C	4.8845	50/50	4.8845
946302	AF1-294 E	3.2564	50/50	3.2564
946591	AF1-323 C	9.4261	50/50	9.4261
946592	AF1-323 E	6.2841	50/50	6.2841
957912	AF2-085 BAT	1.8570	Merchant Transmission	1.8570
958131	AF2-107 C	4.3750	50/50	4.3750
958132	AF2-107 E	2.3975	50/50	2.3975
958211	AF2-115 C	2.8733	50/50	2.8733
958212	AF2-115 E	1.9155	50/50	1.9155
958503	AF2-144 BAT	2.6613	50/50	2.6613
958801	AF2-171 C	17.1603	50/50	17.1603
958802	AF2-171 E	11.4402	50/50	11.4402
959311	AF2-222 C	15.3100	50/50	15.3100
959312	AF2-222 E	10.2577	50/50	10.2577
960111	AF2-302 C	3.4277	50/50	3.4277
960112	AF2-302 E	2.2851	50/50	2.2851
961061	AF2-397 C	36.6545	50/50	36.6545
961062	AF2-397 E	24.4364	50/50	24.4364
961791	AG1-021 C	2.2986	50/50	2.2986
961792	AG1-021 E	1.5324	50/50	1.5324
961801	AG1-022 C	3.4277	50/50	3.4277
961802	AG1-022 E	2.2851	50/50	2.2851
961891	AG1-030 C	15.8319	50/50	15.8319
961892	AG1-030 E	10.5546	50/50	10.5546
962041	AG1-048 C	14.3663	50/50	14.3663
962042	AG1-048 E	9.5775	50/50	9.5775
962491	AG1-098 C O1	8.1622	50/50	8.1622
962492	AG1-098 E O1	5.4415	50/50	5.4415
963171	AG1-166 C	2.2986	50/50	2.2986
963172	AG1-166 E	1.5324	50/50	1.5324
963181	AG1-167 C	2.2986	50/50	2.2986
963182	AG1-167 E	1.5324	50/50	1.5324
963191	AG1-168 C	2.2986	50/50	2.2986
963192	AG1-168 E	1.5324	50/50	1.5324
963201	AG1-169 C	2.2986	50/50	2.2986
963202	AG1-169 E	1.5324	50/50	1.5324
963211	AG1-170 C	2.2986	50/50	2.2986
963212	AG1-170 E	1.5324	50/50	1.5324
963271	AG1-176 C O1	14.5637	50/50	14.5637
963272	AG1-176 E O1	9.7091	50/50	9.7091
963321	AG1-181 C O1	14.0576	50/50	14.0576
963361	AG1-185 O1	6.8014	50/50	6.8014
963641	AG1-215 C	1.0727	50/50	1.0727
963642	AG1-215 E	1.6090	50/50	1.6090
964111	AG1-272 C	2.2621	50/50	2.2621

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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 O1	17.0012	50/50	17.0012
964232	AG1-284 E O1	11.3341	50/50	11.3341
964241	AG1-285 C O1	8.1450	50/50	8.1450
964242	AG1-285 E O1	5.4300	50/50	5.4300
964821	AG1-345 C	0.9169	50/50	0.9169
964822	AG1-345 E	0.6113	50/50	0.6113
964841	AG1-347 C	9.1358	50/50	9.1358
964842	AG1-347 E	7.1782	50/50	7.1782
965191	AG1-384 C	2.2621	50/50	2.2621
965192	AG1-384 E	0.6719	50/50	0.6719
965281	AG1-393 C	2.2986	50/50	2.2986
965282	AG1-393 E	1.5324	50/50	1.5324
965581	AG1-426	6.4002	50/50	6.4002
965591	AG1-427 C	7.7911	50/50	7.7911
965592	AG1-427 E	5.2051	50/50	5.2051
965641	AG1-432 C O1	30.1044	50/50	30.1044
965642	AG1-432 E O1	20.0696	50/50	20.0696
965831	AG1-451	5.0174	50/50	5.0174
966251	AG1-494 C	0.7431	Adder	1.65
966252	AG1-494 E	1.1146	Adder	2.47
966791	AG1-550 O1	16.4475	50/50	16.4475
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0104	50/50	3.0104
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	2.0070	50/50	2.0070
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
O-066	O-066	4.9937	Confirmed LTF	4.9937
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
G-007	G-007	0.7865	Confirmed LTF	0.7865
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

11.6.48 Index 48

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
169459147	314747	6BREMO	DVP	313867	6BREMODIST	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	155.37	157.11	DC	11.48

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
169459164	314747	6BREMO	DVP	314744	3BREMO	DVP	1	DVP_P1-2: LN 2193	single	269.78	143.97	145.91	DC	5.25

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
169459137	314765	6MTEAGLE	DVP	314749	6CHARLVL	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	157.75	159.34	DC	10.53

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

11.6.51 Index 51

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
166980222	314788	3JONESTO	DVP	314683	3CLRKVILLE	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	106.6	115.01	DC	25.3

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6786	50/50	0.6786
313853	3PONTONDP	0.5479	50/50	0.5479
314429	3JTRSVLE	0.3458	50/50	0.3458
314713	3PAMPLIN	1.1895	50/50	1.1895
316129	AC1-054 C	-3.5586	Adder	-4.19
316131	AB2-060 C	1.9221	50/50	1.9221
924022	AB2-043 E O1	3.8463	50/50	3.8463
924162	AB2-060 E OP	5.7331	50/50	5.7331
924301	AB2-077 C O1 (Suspended)	3.3240	50/50	3.3240
924302	AB2-077 E O1 (Suspended)	2.2160	50/50	2.2160
924311	AB2-078 C O1 (Suspended)	3.3240	50/50	3.3240
924312	AB2-078 E O1 (Suspended)	2.2160	50/50	2.2160
924321	AB2-079 C O1 (Suspended)	3.3240	50/50	3.3240
924322	AB2-079 E O1 (Suspended)	2.2160	50/50	2.2160
925611	AC1-036 C	0.2426	50/50	0.2426
925612	AC1-036 E	0.9209	50/50	0.9209
935221	AD1-157 C	0.1736	50/50	0.1736
935222	AD1-157 E	0.7334	50/50	0.7334
936265	AD2-033 C	14.6671	50/50	14.6671
936266	AD2-033 E	9.7781	50/50	9.7781
936485	AD2-063 C	18.7920	50/50	18.7920
936486	AD2-063 E	12.5280	50/50	12.5280
938371	AE1-056 C	4.7425	50/50	4.7425
938372	AE1-056 E	2.5913	50/50	2.5913
940662	AE2-053 BAT	2.9720	50/50	2.9720
942451	AE2-258	3.2090	50/50	3.2090
942461	AE2-259 C O1	4.1764	Adder	4.91
942462	AE2-259 E O1	2.7843	Adder	3.28
943911	AF1-059	13.6212	50/50	13.6212
946301	AF1-294 C	3.4930	50/50	3.4930
946302	AF1-294 E	2.3287	50/50	2.3287
958211	AF2-115 C	2.0547	50/50	2.0547
958212	AF2-115 E	1.3698	50/50	1.3698
958801	AF2-171 C	12.4101	50/50	12.4101
958802	AF2-171 E	8.2734	50/50	8.2734

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959311	AF2-222 C	17.2850	50/50	17.2850
959312	AF2-222 E	11.5809	50/50	11.5809
961791	AG1-021 C	1.6438	50/50	1.6438
961792	AG1-021 E	1.0958	50/50	1.0958
961891	AG1-030 C	13.6368	50/50	13.6368
961892	AG1-030 E	9.0912	50/50	9.0912
962041	AG1-048 C	10.2735	50/50	10.2735
962042	AG1-048 E	6.8490	50/50	6.8490
963171	AG1-166 C	1.6438	50/50	1.6438
963172	AG1-166 E	1.0958	50/50	1.0958
963181	AG1-167 C	1.6438	50/50	1.6438
963182	AG1-167 E	1.0958	50/50	1.0958
963191	AG1-168 C	1.6438	50/50	1.6438
963192	AG1-168 E	1.0958	50/50	1.0958
963201	AG1-169 C	1.6438	50/50	1.6438
963202	AG1-169 E	1.0958	50/50	1.0958
963211	AG1-170 C	1.6438	50/50	1.6438
963212	AG1-170 E	1.0958	50/50	1.0958
963301	AG1-179 C	3.4390	50/50	3.4390
963311	AG1-180	1.6756	50/50	1.6756
963321	AG1-181 C O1	18.7936	50/50	18.7936
963361	AG1-185 O1	9.0929	50/50	9.0929
963641	AG1-215 C	0.7671	50/50	0.7671
963642	AG1-215 E	1.1506	50/50	1.1506
964111	AG1-272 C	2.7573	50/50	2.7573
964112	AG1-272 E	0.8189	50/50	0.8189
964121	AG1-273 C	2.7573	50/50	2.7573
964122	AG1-273 E	0.8189	50/50	0.8189
964131	AG1-274 C	2.7573	50/50	2.7573
964132	AG1-274 E	0.8189	50/50	0.8189
964241	AG1-285 C O1	16.0687	50/50	16.0687
964242	AG1-285 E O1	10.7125	50/50	10.7125
964791	AG1-342 C	1.0172	Adder	2.26
964792	AG1-342 E	0.7992	Adder	1.77
964821	AG1-345 C	0.6599	50/50	0.6599
964822	AG1-345 E	0.4399	50/50	0.4399
965191	AG1-384 C	2.7573	50/50	2.7573
965192	AG1-384 E	0.8189	50/50	0.8189
965281	AG1-393 C	1.6438	50/50	1.6438
965282	AG1-393 E	1.0958	50/50	1.0958
965451	AG1-413 C O1	5.7258	50/50	5.7258
965452	AG1-413 E O1	3.8172	50/50	3.8172
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O1	2.8710	50/50	2.8710
965602	AG1-428 E O1	1.9106	50/50	1.9106
965641	AG1-432 C O1	4.4270	Adder	9.83
965642	AG1-432 E O1	2.9513	Adder	6.55
965772	AG1-445 BAT	3.3454	50/50	3.3454
965782	AG1-446 BAT	3.3454	50/50	3.3454
965831	AG1-451	0.7378	Adder	1.64
966753	AG1-546 BAT	1.7033	Merchant Transmission	1.7033

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4427	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2951	Adder	0.66
G-007A	G-007A	0.2062	Confirmed LTF	0.2062
VFT	VFT	0.5483	Confirmed LTF	0.5483
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
PRAIRIE	PRAIRIE	0.4314	Confirmed LTF	0.4314
CHEOAH	CHEOAH	0.1426	Confirmed LTF	0.1426
CBM-N	CBM-N	0.1008	Confirmed LTF	0.1008
COTTONWOOD	COTTONWOOD	0.4977	Confirmed LTF	0.4977
HAMLET	HAMLET	0.3182	Confirmed LTF	0.3182
GIBSON	GIBSON	0.0710	Confirmed LTF	0.0710
BLUEG	BLUEG	0.2153	Confirmed LTF	0.2153
TRIMBLE	TRIMBLE	0.0684	Confirmed LTF	0.0684
CATAWBA	CATAWBA	0.1614	Confirmed LTF	0.1614

11.6.52 Index 52

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
166980240	314869	3BURLING	DVP	314682	3BUGGS I	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	102.88	111.29	DC	25.3

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6786	50/50	0.6786
313853	3PONTONDP	0.5479	50/50	0.5479
314429	3JTRSVLE	0.3458	50/50	0.3458
314713	3PAMPLIN	1.1895	50/50	1.1895
316129	AC1-054 C	-3.5586	Adder	-4.19
316131	AB2-060 C	1.9221	50/50	1.9221
924022	AB2-043 E O1	3.8463	50/50	3.8463
924162	AB2-060 E OP	5.7331	50/50	5.7331
924301	AB2-077 C O1 (Suspended)	3.3240	50/50	3.3240
924302	AB2-077 E O1 (Suspended)	2.2160	50/50	2.2160
924311	AB2-078 C O1 (Suspended)	3.3240	50/50	3.3240
924312	AB2-078 E O1 (Suspended)	2.2160	50/50	2.2160
924321	AB2-079 C O1 (Suspended)	3.3240	50/50	3.3240
924322	AB2-079 E O1 (Suspended)	2.2160	50/50	2.2160
925611	AC1-036 C	0.2426	50/50	0.2426
925612	AC1-036 E	0.9209	50/50	0.9209
935221	AD1-157 C	0.1736	50/50	0.1736
935222	AD1-157 E	0.7334	50/50	0.7334
936265	AD2-033 C	14.6671	50/50	14.6671
936266	AD2-033 E	9.7781	50/50	9.7781
936485	AD2-063 C	18.7920	50/50	18.7920
936486	AD2-063 E	12.5280	50/50	12.5280
938371	AE1-056 C	4.7425	50/50	4.7425
938372	AE1-056 E	2.5913	50/50	2.5913
940662	AE2-053 BAT	2.9720	50/50	2.9720
942451	AE2-258	3.2090	50/50	3.2090
942461	AE2-259 C O1	4.1764	Adder	4.91
942462	AE2-259 E O1	2.7843	Adder	3.28
943911	AF1-059	13.6212	50/50	13.6212
946301	AF1-294 C	3.4930	50/50	3.4930
946302	AF1-294 E	2.3287	50/50	2.3287
958211	AF2-115 C	2.0547	50/50	2.0547
958212	AF2-115 E	1.3698	50/50	1.3698
958801	AF2-171 C	12.4101	50/50	12.4101
958802	AF2-171 E	8.2734	50/50	8.2734

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959311	AF2-222 C	17.2850	50/50	17.2850
959312	AF2-222 E	11.5809	50/50	11.5809
961791	AG1-021 C	1.6438	50/50	1.6438
961792	AG1-021 E	1.0958	50/50	1.0958
961891	AG1-030 C	13.6368	50/50	13.6368
961892	AG1-030 E	9.0912	50/50	9.0912
962041	AG1-048 C	10.2735	50/50	10.2735
962042	AG1-048 E	6.8490	50/50	6.8490
963171	AG1-166 C	1.6438	50/50	1.6438
963172	AG1-166 E	1.0958	50/50	1.0958
963181	AG1-167 C	1.6438	50/50	1.6438
963182	AG1-167 E	1.0958	50/50	1.0958
963191	AG1-168 C	1.6438	50/50	1.6438
963192	AG1-168 E	1.0958	50/50	1.0958
963201	AG1-169 C	1.6438	50/50	1.6438
963202	AG1-169 E	1.0958	50/50	1.0958
963211	AG1-170 C	1.6438	50/50	1.6438
963212	AG1-170 E	1.0958	50/50	1.0958
963301	AG1-179 C	3.4390	50/50	3.4390
963311	AG1-180	1.6756	50/50	1.6756
963321	AG1-181 C O1	18.7936	50/50	18.7936
963361	AG1-185 O1	9.0929	50/50	9.0929
963641	AG1-215 C	0.7671	50/50	0.7671
963642	AG1-215 E	1.1506	50/50	1.1506
964111	AG1-272 C	2.7573	50/50	2.7573
964112	AG1-272 E	0.8189	50/50	0.8189
964121	AG1-273 C	2.7573	50/50	2.7573
964122	AG1-273 E	0.8189	50/50	0.8189
964131	AG1-274 C	2.7573	50/50	2.7573
964132	AG1-274 E	0.8189	50/50	0.8189
964241	AG1-285 C O1	16.0687	50/50	16.0687
964242	AG1-285 E O1	10.7125	50/50	10.7125
964791	AG1-342 C	1.0172	Adder	2.26
964792	AG1-342 E	0.7992	Adder	1.77
964821	AG1-345 C	0.6599	50/50	0.6599
964822	AG1-345 E	0.4399	50/50	0.4399
965191	AG1-384 C	2.7573	50/50	2.7573
965192	AG1-384 E	0.8189	50/50	0.8189
965281	AG1-393 C	1.6438	50/50	1.6438
965282	AG1-393 E	1.0958	50/50	1.0958
965451	AG1-413 C O1	5.7258	50/50	5.7258
965452	AG1-413 E O1	3.8172	50/50	3.8172
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O1	2.8710	50/50	2.8710
965602	AG1-428 E O1	1.9106	50/50	1.9106
965641	AG1-432 C O1	4.4270	Adder	9.83
965642	AG1-432 E O1	2.9513	Adder	6.55
965772	AG1-445 BAT	3.3454	50/50	3.3454
965782	AG1-446 BAT	3.3454	50/50	3.3454
965831	AG1-451	0.7378	Adder	1.64
966753	AG1-546 BAT	1.7033	Merchant Transmission	1.7033

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4427	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2951	Adder	0.66
G-007A	G-007A	0.2062	Confirmed LTF	0.2062
VFT	VFT	0.5483	Confirmed LTF	0.5483
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
PRAIRIE	PRAIRIE	0.4314	Confirmed LTF	0.4314
CHEOAH	CHEOAH	0.1426	Confirmed LTF	0.1426
CBM-N	CBM-N	0.1008	Confirmed LTF	0.1008
COTTONWOOD	COTTONWOOD	0.4977	Confirmed LTF	0.4977
HAMLET	HAMLET	0.3182	Confirmed LTF	0.3182
GIBSON	GIBSON	0.0710	Confirmed LTF	0.0710
BLUEG	BLUEG	0.2153	Confirmed LTF	0.2153
TRIMBLE	TRIMBLE	0.0684	Confirmed LTF	0.0684
CATAWBA	CATAWBA	0.1614	Confirmed LTF	0.1614

11.6.53 Index 53

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
163825877	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-C	single	718.0	195.75	198.02	DC	16.29

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
163338951	933500	AC2-165 TAP	DVP	314333	6POWHATN	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	116.85	118.17	DC	13.0

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.7662	50/50	0.7662
314429	3JTRSVLE	0.4835	50/50	0.4835
314677	6BUCKING	0.8051	50/50	0.8051
314713	3PAMPLIN	2.0195	50/50	2.0195
315191	1BEARGRDN G1	14.2615	50/50	14.2615
315192	1BEARGRDN G2	14.2615	50/50	14.2615
315193	1BEARGRDN S1	18.4429	50/50	18.4429
924022	AB2-043 E O1	1.3542	Adder	1.59
924032	AB2-045 E	2.3814	50/50	2.3814
924162	AB2-060 E OP	2.1314	Adder	2.51
924301	AB2-077 C O1 (Suspended)	0.9345	Adder	1.1
924302	AB2-077 E O1 (Suspended)	0.6230	Adder	0.73
924311	AB2-078 C O1 (Suspended)	0.9345	Adder	1.1
924312	AB2-078 E O1 (Suspended)	0.6230	Adder	0.73
924321	AB2-079 C O1 (Suspended)	0.9345	Adder	1.1
924322	AB2-079 E O1 (Suspended)	0.6230	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)	0.7932	50/50	0.7932
932512	AC2-071 E (Withdrawn : 01/22/2021)	2.5326	50/50	2.5326
933501	AC2-165 C	39.2445	50/50	39.2445
933502	AC2-165 E	29.5367	50/50	29.5367
934625	AD1-088 C	10.6986	50/50	10.6986
934626	AD1-088 E	2.8020	50/50	2.8020
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	29.3769	50/50	29.3769
938822	AE1-108 E O1	13.1844	50/50	13.1844

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941011	AE2-092 C	25.2830	50/50	25.2830
941012	AE2-092 E	16.8553	50/50	16.8553
941791	AE2-182 C	1.7381	50/50	1.7381
941792	AE2-182 E	0.8091	50/50	0.8091
942451	AE2-258	1.1298	Adder	1.33
942461	AE2-259 C O1	15.0522	50/50	15.0522
942462	AE2-259 E O1	10.0348	50/50	10.0348
946291	AF1-293 C O1	39.5443	50/50	39.5443
946292	AF1-293 E O1	7.1136	50/50	7.1136
946301	AF1-294 C	4.8845	50/50	4.8845
946302	AF1-294 E	3.2564	50/50	3.2564
946591	AF1-323 C	9.4261	50/50	9.4261
946592	AF1-323 E	6.2841	50/50	6.2841
957912	AF2-085 BAT	1.8570	Merchant Transmission	1.8570
958131	AF2-107 C	4.3750	50/50	4.3750
958132	AF2-107 E	2.3975	50/50	2.3975
958211	AF2-115 C	2.8733	50/50	2.8733
958212	AF2-115 E	1.9155	50/50	1.9155
958503	AF2-144 BAT	2.6613	50/50	2.6613
958801	AF2-171 C	17.1603	50/50	17.1603
958802	AF2-171 E	11.4402	50/50	11.4402
959311	AF2-222 C	15.3100	50/50	15.3100
959312	AF2-222 E	10.2577	50/50	10.2577
960111	AF2-302 C	3.4277	50/50	3.4277
960112	AF2-302 E	2.2851	50/50	2.2851
961061	AF2-397 C	36.6545	50/50	36.6545
961062	AF2-397 E	24.4364	50/50	24.4364
961791	AG1-021 C	2.2986	50/50	2.2986
961792	AG1-021 E	1.5324	50/50	1.5324
961801	AG1-022 C	3.4277	50/50	3.4277
961802	AG1-022 E	2.2851	50/50	2.2851
961891	AG1-030 C	15.8319	50/50	15.8319
961892	AG1-030 E	10.5546	50/50	10.5546
962041	AG1-048 C	14.3663	50/50	14.3663
962042	AG1-048 E	9.5775	50/50	9.5775
962491	AG1-098 C O1	8.1622	50/50	8.1622
962492	AG1-098 E O1	5.4415	50/50	5.4415
963171	AG1-166 C	2.2986	50/50	2.2986
963172	AG1-166 E	1.5324	50/50	1.5324
963181	AG1-167 C	2.2986	50/50	2.2986
963182	AG1-167 E	1.5324	50/50	1.5324
963191	AG1-168 C	2.2986	50/50	2.2986
963192	AG1-168 E	1.5324	50/50	1.5324
963201	AG1-169 C	2.2986	50/50	2.2986
963202	AG1-169 E	1.5324	50/50	1.5324
963211	AG1-170 C	2.2986	50/50	2.2986
963212	AG1-170 E	1.5324	50/50	1.5324
963271	AG1-176 C O1	14.5637	50/50	14.5637
963272	AG1-176 E O1	9.7091	50/50	9.7091
963321	AG1-181 C O1	14.0576	50/50	14.0576
963361	AG1-185 O1	6.8014	50/50	6.8014
963641	AG1-215 C	1.0727	50/50	1.0727

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963642	AG1-215 E	1.6090	50/50	1.6090
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 O1	17.0012	50/50	17.0012
964232	AG1-284 E O1	11.3341	50/50	11.3341
964241	AG1-285 C O1	8.1450	50/50	8.1450
964242	AG1-285 E O1	5.4300	50/50	5.4300
964821	AG1-345 C	0.9169	50/50	0.9169
964822	AG1-345 E	0.6113	50/50	0.6113
964841	AG1-347 C	9.1358	50/50	9.1358
964842	AG1-347 E	7.1782	50/50	7.1782
965191	AG1-384 C	2.2621	50/50	2.2621
965192	AG1-384 E	0.6719	50/50	0.6719
965281	AG1-393 C	2.2986	50/50	2.2986
965282	AG1-393 E	1.5324	50/50	1.5324
965581	AG1-426	6.4002	50/50	6.4002
965591	AG1-427 C	7.7911	50/50	7.7911
965592	AG1-427 E	5.2051	50/50	5.2051
965641	AG1-432 C O1	30.1044	50/50	30.1044
965642	AG1-432 E O1	20.0696	50/50	20.0696
965831	AG1-451	5.0174	50/50	5.0174
966251	AG1-494 C	0.7431	Adder	1.65
966252	AG1-494 E	1.1146	Adder	2.47
966791	AG1-550 O1	16.4475	50/50	16.4475
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0104	50/50	3.0104
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	2.0070	50/50	2.0070
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
O-066	O-066	4.9937	Confirmed LTF	4.9937
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
G-007	G-007	0.7865	Confirmed LTF	0.7865
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
163338575	934620	AD1-088 TAP	DVP	962490	AG1-098 TAP	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	134.52	138.52	DC	27.99

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5789	50/50	0.5789
313853	3PONTONDP	1.8407	50/50	1.8407
314429	3JTRSVLE	1.1616	50/50	1.1616
314677	6BUCKING	1.6095	50/50	1.6095
314713	3PAMPLIN	4.9032	50/50	4.9032
315161	1KERR 4	0.7452	50/50	0.7452
315162	1KERR 5	0.7452	50/50	0.7452
315163	1KERR 6	0.7452	50/50	0.7452
315164	1KERR 7	0.7452	50/50	0.7452
316131	AB2-060 C	1.7524	50/50	1.7524
924022	AB2-043 E O1	3.2808	50/50	3.2808
924032	AB2-045 E	4.7608	50/50	4.7608
924162	AB2-060 E OP	5.2270	50/50	5.2270
924301	AB2-077 C O1 (Suspended)	2.2313	50/50	2.2313
924302	AB2-077 E O1 (Suspended)	1.4875	50/50	1.4875
924311	AB2-078 C O1 (Suspended)	2.2313	50/50	2.2313
924312	AB2-078 E O1 (Suspended)	1.4875	50/50	1.4875
924321	AB2-079 C O1 (Suspended)	2.2313	50/50	2.2313
924322	AB2-079 E O1 (Suspended)	1.4875	50/50	1.4875
925611	AC1-036 C	0.4580	50/50	0.4580
925612	AC1-036 E	1.7382	50/50	1.7382
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0631	50/50	5.0631
934625	AD1-088 C	63.1640	50/50	63.1640
934626	AD1-088 E	16.5430	50/50	16.5430
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0229	50/50	3.0229
936265	AD2-033 C	24.1714	50/50	24.1714
936266	AD2-033 E	16.1143	50/50	16.1143
936361	AD2-046 C O1	6.9048	50/50	6.9048
936362	AD2-046 E O1	3.1752	50/50	3.1752
936485	AD2-063 C	22.4433	50/50	22.4433
936486	AD2-063 E	14.9622	50/50	14.9622

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938371	AE1-056 C	19.5482	50/50	19.5482
938372	AE1-056 E	10.6810	50/50	10.6810
939181	AE1-148 C	6.9525	50/50	6.9525
939182	AE1-148 E	4.6350	50/50	4.6350
940661	AE2-053 O1	2.5750	50/50	2.5750
941791	AE2-182 C	10.2619	50/50	10.2619
941792	AE2-182 E	4.7771	50/50	4.7771
942451	AE2-258	2.7372	50/50	2.7372
942461	AE2-259 C O1	37.3440	50/50	37.3440
942462	AE2-259 E O1	24.8960	50/50	24.8960
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7343	50/50	11.7343
946302	AF1-294 E	7.8229	50/50	7.8229
958211	AF2-115 C	6.9026	50/50	6.9026
958212	AF2-115 E	4.6017	50/50	4.6017
958801	AF2-171 C	41.2002	50/50	41.2002
958802	AF2-171 E	27.4668	50/50	27.4668
959311	AF2-222 C	35.5030	50/50	35.5030
959312	AF2-222 E	23.7870	50/50	23.7870
961791	AG1-021 C	5.5220	50/50	5.5220
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5642	50/50	37.5642
961892	AG1-030 E	25.0428	50/50	25.0428
962041	AG1-048 C	34.5128	50/50	34.5128
962042	AG1-048 E	23.0085	50/50	23.0085
963171	AG1-166 C	5.5220	50/50	5.5220
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5220	50/50	5.5220
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5220	50/50	5.5220
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5220	50/50	5.5220
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5220	50/50	5.5220
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O1	78.3861	50/50	78.3861
963272	AG1-176 E O1	52.2574	50/50	52.2574
963321	AG1-181 C O1	32.0091	50/50	32.0091
963361	AG1-185 O1	15.4869	50/50	15.4869
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8654	50/50	3.8654
964111	AG1-272 C	5.2046	50/50	5.2046
964112	AG1-272 E	1.5458	50/50	1.5458
964121	AG1-273 C	5.2046	50/50	5.2046
964122	AG1-273 E	1.5458	50/50	1.5458
964131	AG1-274 C	5.2046	50/50	5.2046
964132	AG1-274 E	1.5458	50/50	1.5458
964241	AG1-285 C O1	17.4997	50/50	17.4997
964242	AG1-285 E O1	11.6665	50/50	11.6665
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679
964841	AG1-347 C	48.8992	50/50	48.8992

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964842	AG1-347 E	38.4208	50/50	38.4208
965191	AG1-384 C	5.2046	50/50	5.2046
965192	AG1-384 E	1.5458	50/50	1.5458
965281	AG1-393 C	5.5220	50/50	5.5220
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O1	5.3401	50/50	5.3401
965452	AG1-413 E O1	3.5601	50/50	3.5601
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O1	74.6880	50/50	74.6880
965642	AG1-432 E O1	49.7920	50/50	49.7920
965831	AG1-451	12.4480	50/50	12.4480
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	7.4688	50/50	7.4688
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	4.9792	50/50	4.9792
WEC	WEC	0.0233	Confirmed LTF	0.0233
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPLE	CPLE	0.2539	Confirmed LTF	0.2539
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677
NY	NY	0.0420	Confirmed LTF	0.0420
TVA	TVA	0.1806	Confirmed LTF	0.1806
O-066	O-066	0.5855	Confirmed LTF	0.5855
SIGE	SIGE	0.0177	Confirmed LTF	0.0177
CBM-S2	CBM-S2	2.6726	Confirmed LTF	2.6726
CBM-S1	CBM-S1	0.0456	Confirmed LTF	0.0456
G-007	G-007	0.0924	Confirmed LTF	0.0924
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2223	Confirmed LTF	0.2223
CBM-W1	CBM-W1	0.9814	Confirmed LTF	0.9814

11.6.56 Index 56

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
169033673	936400	AD2-051 TAP	DVP	314569	6EARLEYS	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	571.52	113.61	114.64	DC	5.88

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3482	80/20	9.3482
313527	AB2-043 C	0.2635	80/20	0.2635
313719	3CHESTNUT	0.6800	80/20	0.6800
314429	3JTRSVLE	0.1333	80/20	0.1333
314572	3EMPORIA	0.6240	80/20	0.6240
314623	3WITAKRS	0.1261	80/20	0.1261
314704	3LAWRENC	0.3599	80/20	0.3599
315126	1ROARAP2	1.5784	80/20	1.5784
315128	1ROARAP4	1.5063	80/20	1.5063
315131	1EDGECEMA (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315132	1EDGECEMB (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315136	1ROSEMG1	3.8526	80/20	3.8526
315137	1ROSEMS1	2.3890	80/20	2.3890
315138	1ROSEMG2	1.8056	80/20	1.8056
315139	1GASTONA	6.0576	80/20	6.0576
315141	1GASTONB	6.0576	80/20	6.0576
315158	1KERR 1	0.2406	80/20	0.2406
315159	1KERR 2	0.6736	80/20	0.6736
315160	1KERR 3	0.6736	80/20	0.6736
315161	1KERR 4	0.6736	80/20	0.6736
315162	1KERR 5	0.6736	80/20	0.6736
315163	1KERR 6	0.6736	80/20	0.6736
315164	1KERR 7	0.6736	80/20	0.6736
315293	1DOMTR9	-3.2350	Adder	-3.81
315294	1DOMTR10	-3.9644	Adder	-4.66
315606	3AA2-053SOLA	1.2789	80/20	1.2789
315607	3AA1-063SOLA	1.1578	80/20	1.1578
315608	3AA2-088SOLA	0.3358	80/20	0.3358
316020	AB2-059 C OP	0.9918	80/20	0.9918
316087	AB2-174 C	1.5774	80/20	1.5774
316096	AB2-100 C1	1.6877	80/20	1.6877
316098	AB2-100 C2	1.6877	80/20	1.6877
316129	AC1-054 C	6.4409	80/20	6.4409
316131	AB2-060 C	0.7464	80/20	0.7464
920591	AA2-165 C	0.0913	80/20	0.0913
922922	AB1-081 C OP	0.8415	80/20	0.8415
923991	AB2-040 C O1	10.1812	80/20	10.1812

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924301	AB2-077 C O1 (Suspended)	1.0495	80/20	1.0495
924311	AB2-078 C O1 (Suspended)	1.0495	80/20	1.0495
924321	AB2-079 C O1 (Suspended)	1.0495	80/20	1.0495
925591	AC1-034 C	4.0719	80/20	4.0719
925611	AC1-036 C	0.0939	80/20	0.0939
926070	AC1-086 C	43.1775	80/20	43.1775
926201	AC1-098 C	2.2605	80/20	2.2605
926211	AC1-099 C	0.7575	80/20	0.7575
927145	AC1-208 C	6.0536	80/20	6.0536
932631	AC2-084 C	3.2224	80/20	3.2224
934331	AD1-057 C O1	12.8767	80/20	12.8767
936265	AD2-033 C	5.6831	80/20	5.6831
936361	AD2-046 C O1	5.4499	80/20	5.4499
936401	AD2-051 C O1	43.0623	80/20	43.0623
936485	AD2-063 C	7.2891	80/20	7.2891
939181	AE1-148 C	5.3455	80/20	5.3455
940481	AE2-033 C	28.0875	80/20	28.0875
940571	AE2-044 C	2.6670	80/20	2.6670
940661	AE2-053 O1	1.9798	80/20	1.9798
942451	AE2-258	1.2459	80/20	1.2459
942471	AE2-260 C O1	26.1001	80/20	26.1001
943911	AF1-059	16.2460	80/20	16.2460
944141	AF1-082	1.7145	80/20	1.7145
946011	AF1-266	23.5115	80/20	23.5115
946281	AF1-292 C	2.2861	80/20	2.2861
946301	AF1-294 C	1.3464	80/20	1.3464
958211	AF2-115 C	0.7920	80/20	0.7920
958801	AF2-171 C	4.7826	80/20	4.7826
959311	AF2-222 C	6.6870	80/20	6.6870
960081	AF2-299 C	3.8531	80/20	3.8531
961791	AG1-021 C	0.6336	80/20	0.6336
961891	AG1-030 C	5.2659	80/20	5.2659
962041	AG1-048 C	3.9600	80/20	3.9600
962571	AG1-106 C	12.0073	80/20	12.0073
963171	AG1-166 C	0.6336	80/20	0.6336
963181	AG1-167 C	0.6336	80/20	0.6336
963191	AG1-168 C	0.6336	80/20	0.6336
963201	AG1-169 C	0.6336	80/20	0.6336
963211	AG1-170 C	0.6336	80/20	0.6336
963301	AG1-179 C	6.5008	80/20	6.5008
963311	AG1-180	3.1673	80/20	3.1673
963321	AG1-181 C O1	7.2785	80/20	7.2785
963361	AG1-185 O1	3.5215	80/20	3.5215
963641	AG1-215 C	0.2957	80/20	0.2957
964111	AG1-272 C	1.0672	80/20	1.0672
964121	AG1-273 C	1.0672	80/20	1.0672
964131	AG1-274 C	1.0672	80/20	1.0672
964241	AG1-285 C O1	6.2348	80/20	6.2348
964501	AG1-313 C O1	2.4851	80/20	2.4851
964791	AG1-342 C	1.3863	80/20	1.3863

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964801	AG1-343 C	1.8312	80/20	1.8312
964821	AG1-345 C	0.2544	80/20	0.2544
965191	AG1-384 C	1.0672	80/20	1.0672
965281	AG1-393 C	0.6336	80/20	0.6336
965291	AG1-394 C	0.7217	80/20	0.7217
965451	AG1-413 C O1	6.8292	80/20	6.8292
965591	AG1-427 C	5.8849	80/20	5.8849
965601	AG1-428 C O1	5.4270	80/20	5.4270
965721	AG1-440 C	5.2830	80/20	5.2830
965731	AG1-441 C	5.2830	80/20	5.2830
965771	AG1-445	3.0524	80/20	3.0524
965781	AG1-446	3.0524	80/20	3.0524
966621	AG1-532 C	2.0806	80/20	2.0806
966751	AG1-546 C	14.6869	80/20	14.6869
966811	AG1-552 C	2.5061	80/20	2.5061
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2482	Confirmed LTF	0.2482
CPL	CPL	1.2381	Confirmed LTF	1.2381
CBM-W2	CBM-W2	5.1251	Confirmed LTF	5.1251
NY	NY	0.1637	Confirmed LTF	0.1637
TVA	TVA	0.9604	Confirmed LTF	0.9604
SIGE	SIGE	0.0801	Confirmed LTF	0.0801
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.2405	Confirmed LTF	0.2405
MEC	MEC	0.7103	Confirmed LTF	0.7103
LAGN	LAGN	1.1900	Confirmed LTF	1.1900
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

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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
163338820	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	156.08	156.9	DC	14.91

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
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
918512	AA1-065 E OP	3.1563	Adder	3.71
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
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	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	7.9657	Adder	9.37
933992	AD1-023 E	4.3365	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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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	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
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
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 O1	4.9612	Adder	11.01
963361	AG1-185 O1	2.4004	Adder	5.33
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
964241	AG1-285 C O1	4.2670	Adder	9.47
964242	AG1-285 E O1	2.8447	Adder	6.31
964491	AG1-312 C O1	7.5745	Adder	16.81
964492	AG1-312 E O1	1.8936	Adder	4.2
964501	AG1-313 C O1	6.4026	50/50	6.4026
964502	AG1-313 E O1	4.2684	50/50	4.2684
964801	AG1-343 C	2.6428	Adder	5.87
964802	AG1-343 E	2.0765	Adder	4.61
965191	AG1-384 C	0.7266	Adder	1.61
965192	AG1-384 E	0.2158	Adder	0.48
965291	AG1-394 C	0.9050	Adder	2.01
965292	AG1-394 E	0.6033	Adder	1.34
965451	AG1-413 C O1	11.1643	50/50	11.1643
965452	AG1-413 E O1	7.4429	50/50	7.4429
965591	AG1-427 C	4.0275	Adder	8.94
965592	AG1-427 E	2.6907	Adder	5.97
965601	AG1-428 C O1	8.9810	50/50	8.9810
965602	AG1-428 E O1	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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

11.6.58 Index 58

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
170028966	959310	AF2-222 TAP	DVP	314715	3MADSONV	DVP	1	DVP_P1-2: LN 1012-E	single	331.82	142.72	164.14	DC	71.1

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925611	AC1-036 C	1.3567	80/20	1.3567
936485	AD2-063 C	89.9955	80/20	89.9955
959311	AF2-222 C	99.9950	80/20	99.9950
963321	AG1-181 C O1	101.0849	80/20	101.0849
963361	AG1-185 O1	48.9076	80/20	48.9076
964111	AG1-272 C	15.4192	80/20	15.4192
964121	AG1-273 C	15.4192	80/20	15.4192
964131	AG1-274 C	15.4192	80/20	15.4192
964241	AG1-285 C O1	74.9962	80/20	74.9962
965191	AG1-384 C	15.4192	80/20	15.4192
965591	AG1-427 C	71.0964	80/20	71.0964
CALDERWOOD	CALDERWOOD	0.0025	Confirmed LTF	0.0025
NY	NY	0.0028	Confirmed LTF	0.0028
PRAIRIE	PRAIRIE	0.0129	Confirmed LTF	0.0129
CHEOAH	CHEOAH	0.0025	Confirmed LTF	0.0025
COTTONWOOD	COTTONWOOD	0.0105	Confirmed LTF	0.0105
HAMLET	HAMLET	0.0029	Confirmed LTF	0.0029
GIBSON	GIBSON	0.0027	Confirmed LTF	0.0027
BLUEG	BLUEG	0.0087	Confirmed LTF	0.0087
TRIMBLE	TRIMBLE	0.0028	Confirmed LTF	0.0028
CATAWBA	CATAWBA	0.0017	Confirmed LTF	0.0017

11.6.59 Index 59

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
170028989	961060	AF2-397 TAP	DVP	966790	AG1-550 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	161.32	162.92	DC	10.53

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

11.6.60 Index 60

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
163338520	962490	AG1-098 TAP	DVP	314686	6CLOVER	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	150.9	154.9	DC	27.99

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5789	50/50	0.5789
313853	3PONTONDP	1.8407	50/50	1.8407
314429	3JTRSVLE	1.1616	50/50	1.1616
314677	6BUCKING	1.6095	50/50	1.6095
314713	3PAMPLIN	4.9032	50/50	4.9032
315161	1KERR 4	0.7452	50/50	0.7452
315162	1KERR 5	0.7452	50/50	0.7452
315163	1KERR 6	0.7452	50/50	0.7452
315164	1KERR 7	0.7452	50/50	0.7452
316131	AB2-060 C	1.7524	50/50	1.7524
924022	AB2-043 E O1	3.2808	50/50	3.2808
924032	AB2-045 E	4.7608	50/50	4.7608
924162	AB2-060 E OP	5.2270	50/50	5.2270
924301	AB2-077 C O1 (Suspended)	2.2313	50/50	2.2313
924302	AB2-077 E O1 (Suspended)	1.4875	50/50	1.4875
924311	AB2-078 C O1 (Suspended)	2.2313	50/50	2.2313
924312	AB2-078 E O1 (Suspended)	1.4875	50/50	1.4875
924321	AB2-079 C O1 (Suspended)	2.2313	50/50	2.2313
924322	AB2-079 E O1 (Suspended)	1.4875	50/50	1.4875
925611	AC1-036 C	0.4580	50/50	0.4580
925612	AC1-036 E	1.7382	50/50	1.7382
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0631	50/50	5.0631
934625	AD1-088 C	63.1640	50/50	63.1640
934626	AD1-088 E	16.5430	50/50	16.5430
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0229	50/50	3.0229
936265	AD2-033 C	24.1714	50/50	24.1714
936266	AD2-033 E	16.1143	50/50	16.1143
936361	AD2-046 C O1	6.9048	50/50	6.9048
936362	AD2-046 E O1	3.1752	50/50	3.1752
936485	AD2-063 C	22.4433	50/50	22.4433
936486	AD2-063 E	14.9622	50/50	14.9622

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938371	AE1-056 C	19.5482	50/50	19.5482
938372	AE1-056 E	10.6810	50/50	10.6810
939181	AE1-148 C	6.9525	50/50	6.9525
939182	AE1-148 E	4.6350	50/50	4.6350
940661	AE2-053 O1	2.5750	50/50	2.5750
941791	AE2-182 C	10.2619	50/50	10.2619
941792	AE2-182 E	4.7771	50/50	4.7771
942451	AE2-258	2.7372	50/50	2.7372
942461	AE2-259 C O1	37.3440	50/50	37.3440
942462	AE2-259 E O1	24.8960	50/50	24.8960
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7343	50/50	11.7343
946302	AF1-294 E	7.8229	50/50	7.8229
958211	AF2-115 C	6.9026	50/50	6.9026
958212	AF2-115 E	4.6017	50/50	4.6017
958801	AF2-171 C	41.2002	50/50	41.2002
958802	AF2-171 E	27.4668	50/50	27.4668
959311	AF2-222 C	35.5030	50/50	35.5030
959312	AF2-222 E	23.7870	50/50	23.7870
961791	AG1-021 C	5.5220	50/50	5.5220
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5642	50/50	37.5642
961892	AG1-030 E	25.0428	50/50	25.0428
962041	AG1-048 C	34.5128	50/50	34.5128
962042	AG1-048 E	23.0085	50/50	23.0085
962491	AG1-098 C O1	68.9970	50/50	68.9970
962492	AG1-098 E O1	45.9980	50/50	45.9980
963171	AG1-166 C	5.5220	50/50	5.5220
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5220	50/50	5.5220
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5220	50/50	5.5220
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5220	50/50	5.5220
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5220	50/50	5.5220
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O1	78.3861	50/50	78.3861
963272	AG1-176 E O1	52.2574	50/50	52.2574
963321	AG1-181 C O1	32.0091	50/50	32.0091
963361	AG1-185 O1	15.4869	50/50	15.4869
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8654	50/50	3.8654
964111	AG1-272 C	5.2046	50/50	5.2046
964112	AG1-272 E	1.5458	50/50	1.5458
964121	AG1-273 C	5.2046	50/50	5.2046
964122	AG1-273 E	1.5458	50/50	1.5458
964131	AG1-274 C	5.2046	50/50	5.2046
964132	AG1-274 E	1.5458	50/50	1.5458
964241	AG1-285 C O1	17.4997	50/50	17.4997
964242	AG1-285 E O1	11.6665	50/50	11.6665
964821	AG1-345 C	2.2018	50/50	2.2018

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964822	AG1-345 E	1.4679	50/50	1.4679
964841	AG1-347 C	48.8992	50/50	48.8992
964842	AG1-347 E	38.4208	50/50	38.4208
965191	AG1-384 C	5.2046	50/50	5.2046
965192	AG1-384 E	1.5458	50/50	1.5458
965281	AG1-393 C	5.5220	50/50	5.5220
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O1	5.3401	50/50	5.3401
965452	AG1-413 E O1	3.5601	50/50	3.5601
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O1	74.6880	50/50	74.6880
965642	AG1-432 E O1	49.7920	50/50	49.7920
965831	AG1-451	12.4480	50/50	12.4480
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	7.4688	50/50	7.4688
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	4.9792	50/50	4.9792
WEC	WEC	0.0233	Confirmed LTF	0.0233
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPLE	CPLE	0.2539	Confirmed LTF	0.2539
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677
NY	NY	0.0420	Confirmed LTF	0.0420
TVA	TVA	0.1806	Confirmed LTF	0.1806
O-066	O-066	0.5855	Confirmed LTF	0.5855
SIGE	SIGE	0.0177	Confirmed LTF	0.0177
CBM-S2	CBM-S2	2.6726	Confirmed LTF	2.6726
CBM-S1	CBM-S1	0.0456	Confirmed LTF	0.0456
G-007	G-007	0.0924	Confirmed LTF	0.0924
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2223	Confirmed LTF	0.2223
CBM-W1	CBM-W1	0.9814	Confirmed LTF	0.9814

11.6.61 Index 61

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
163338596	963270	AG1-176 TAP	DVP	934620	AD1-088 TAP	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	121.02	125.02	DC	27.99

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5789	50/50	0.5789
313853	3PONTONDP	1.8407	50/50	1.8407
314429	3JTRSVLE	1.1616	50/50	1.1616
314677	6BUCKING	1.6095	50/50	1.6095
314713	3PAMPLIN	4.9032	50/50	4.9032
315161	1KERR 4	0.7452	50/50	0.7452
315162	1KERR 5	0.7452	50/50	0.7452
315163	1KERR 6	0.7452	50/50	0.7452
315164	1KERR 7	0.7452	50/50	0.7452
316131	AB2-060 C	1.7524	50/50	1.7524
924022	AB2-043 E O1	3.2808	50/50	3.2808
924032	AB2-045 E	4.7608	50/50	4.7608
924162	AB2-060 E OP	5.2270	50/50	5.2270
924301	AB2-077 C O1 (Suspended)	2.2313	50/50	2.2313
924302	AB2-077 E O1 (Suspended)	1.4875	50/50	1.4875
924311	AB2-078 C O1 (Suspended)	2.2313	50/50	2.2313
924312	AB2-078 E O1 (Suspended)	1.4875	50/50	1.4875
924321	AB2-079 C O1 (Suspended)	2.2313	50/50	2.2313
924322	AB2-079 E O1 (Suspended)	1.4875	50/50	1.4875
925611	AC1-036 C	0.4580	50/50	0.4580
925612	AC1-036 E	1.7382	50/50	1.7382
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0631	50/50	5.0631
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0229	50/50	3.0229
936265	AD2-033 C	24.1714	50/50	24.1714
936266	AD2-033 E	16.1143	50/50	16.1143
936361	AD2-046 C O1	6.9048	50/50	6.9048
936362	AD2-046 E O1	3.1752	50/50	3.1752
936485	AD2-063 C	22.4433	50/50	22.4433
936486	AD2-063 E	14.9622	50/50	14.9622
938371	AE1-056 C	19.5482	50/50	19.5482
938372	AE1-056 E	10.6810	50/50	10.6810

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939181	AE1-148 C	6.9525	50/50	6.9525
939182	AE1-148 E	4.6350	50/50	4.6350
940661	AE2-053 O1	2.5750	50/50	2.5750
942451	AE2-258	2.7372	50/50	2.7372
942461	AE2-259 C O1	37.3440	50/50	37.3440
942462	AE2-259 E O1	24.8960	50/50	24.8960
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7343	50/50	11.7343
946302	AF1-294 E	7.8229	50/50	7.8229
958211	AF2-115 C	6.9026	50/50	6.9026
958212	AF2-115 E	4.6017	50/50	4.6017
958801	AF2-171 C	41.2002	50/50	41.2002
958802	AF2-171 E	27.4668	50/50	27.4668
959311	AF2-222 C	35.5030	50/50	35.5030
959312	AF2-222 E	23.7870	50/50	23.7870
961791	AG1-021 C	5.5220	50/50	5.5220
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5642	50/50	37.5642
961892	AG1-030 E	25.0428	50/50	25.0428
962041	AG1-048 C	34.5128	50/50	34.5128
962042	AG1-048 E	23.0085	50/50	23.0085
963171	AG1-166 C	5.5220	50/50	5.5220
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5220	50/50	5.5220
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5220	50/50	5.5220
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5220	50/50	5.5220
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5220	50/50	5.5220
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O1	78.3861	50/50	78.3861
963272	AG1-176 E O1	52.2574	50/50	52.2574
963321	AG1-181 C O1	32.0091	50/50	32.0091
963361	AG1-185 O1	15.4869	50/50	15.4869
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8654	50/50	3.8654
964111	AG1-272 C	5.2046	50/50	5.2046
964112	AG1-272 E	1.5458	50/50	1.5458
964121	AG1-273 C	5.2046	50/50	5.2046
964122	AG1-273 E	1.5458	50/50	1.5458
964131	AG1-274 C	5.2046	50/50	5.2046
964132	AG1-274 E	1.5458	50/50	1.5458
964241	AG1-285 C O1	17.4997	50/50	17.4997
964242	AG1-285 E O1	11.6665	50/50	11.6665
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679
964841	AG1-347 C	48.8992	50/50	48.8992
964842	AG1-347 E	38.4208	50/50	38.4208
965191	AG1-384 C	5.2046	50/50	5.2046
965192	AG1-384 E	1.5458	50/50	1.5458
965281	AG1-393 C	5.5220	50/50	5.5220

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O1	5.3401	50/50	5.3401
965452	AG1-413 E O1	3.5601	50/50	3.5601
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O1	74.6880	50/50	74.6880
965642	AG1-432 E O1	49.7920	50/50	49.7920
965831	AG1-451	12.4480	50/50	12.4480
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	7.4688	50/50	7.4688
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	4.9792	50/50	4.9792
WEC	WEC	0.0233	Confirmed LTF	0.0233
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPL	CPL	0.2539	Confirmed LTF	0.2539
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677
NY	NY	0.0420	Confirmed LTF	0.0420
TVA	TVA	0.1806	Confirmed LTF	0.1806
O-066	O-066	0.5855	Confirmed LTF	0.5855
SIGE	SIGE	0.0177	Confirmed LTF	0.0177
CBM-S2	CBM-S2	2.6726	Confirmed LTF	2.6726
CBM-S1	CBM-S1	0.0456	Confirmed LTF	0.0456
G-007	G-007	0.0924	Confirmed LTF	0.0924
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2223	Confirmed LTF	0.2223
CBM-W1	CBM-W1	0.9814	Confirmed LTF	0.9814

11.6.62 Index 62

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
170028905	964240	AG1-285 TAP	DVP	314681	3CHASCTY	DVP	1	DVP_P1-2: LN 84	single	269.78	212.95	239.3	DC	71.09

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925611	AC1-036 C	1.3567	80/20	1.3567
935221	AD1-157 C	1.4198	80/20	1.4198
936485	AD2-063 C	89.9919	80/20	89.9919
938371	AE1-056 C	38.7965	80/20	38.7965
958801	AF2-171 C	89.9919	80/20	89.9919
959311	AF2-222 C	99.9910	80/20	99.9910
963321	AG1-181 C O1	101.0809	80/20	101.0809
963361	AG1-185 O1	48.9056	80/20	48.9056
964111	AG1-272 C	15.4186	80/20	15.4186
964121	AG1-273 C	15.4186	80/20	15.4186
964131	AG1-274 C	15.4186	80/20	15.4186
964241	AG1-285 C O1	74.9932	80/20	74.9932
965191	AG1-384 C	15.4186	80/20	15.4186
965591	AG1-427 C	71.0936	80/20	71.0936
CALDERWOOD	CALDERWOOD	0.0045	Confirmed LTF	0.0045
NY	NY	0.0050	Confirmed LTF	0.0050
PRAIRIE	PRAIRIE	0.0232	Confirmed LTF	0.0232
CHEOAH	CHEOAH	0.0045	Confirmed LTF	0.0045
COTTONWOOD	COTTONWOOD	0.0189	Confirmed LTF	0.0189
HAMLET	HAMLET	0.0052	Confirmed LTF	0.0052
GIBSON	GIBSON	0.0049	Confirmed LTF	0.0049
BLUEG	BLUEG	0.0156	Confirmed LTF	0.0156
TRIMBLE	TRIMBLE	0.0050	Confirmed LTF	0.0050
CATAWBA	CATAWBA	0.0032	Confirmed LTF	0.0032

11.6.63 Index 63

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
163338632	964840	AG1-347 TAP	DVP	963270	AG1-176 TAP	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	102.35	106.35	DC	27.99

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5789	50/50	0.5789
313853	3PONTONDP	1.8407	50/50	1.8407
314429	3JTRSVLE	1.1616	50/50	1.1616
314677	6BUCKING	1.6095	50/50	1.6095
314713	3PAMPLIN	4.9032	50/50	4.9032
315161	1KERR 4	0.7452	50/50	0.7452
315162	1KERR 5	0.7452	50/50	0.7452
315163	1KERR 6	0.7452	50/50	0.7452
315164	1KERR 7	0.7452	50/50	0.7452
316131	AB2-060 C	1.7524	50/50	1.7524
924022	AB2-043 E O1	3.2808	50/50	3.2808
924032	AB2-045 E	4.7608	50/50	4.7608
924162	AB2-060 E OP	5.2270	50/50	5.2270
924301	AB2-077 C O1 (Suspended)	2.2313	50/50	2.2313
924302	AB2-077 E O1 (Suspended)	1.4875	50/50	1.4875
924311	AB2-078 C O1 (Suspended)	2.2313	50/50	2.2313
924312	AB2-078 E O1 (Suspended)	1.4875	50/50	1.4875
924321	AB2-079 C O1 (Suspended)	2.2313	50/50	2.2313
924322	AB2-079 E O1 (Suspended)	1.4875	50/50	1.4875
925611	AC1-036 C	0.4580	50/50	0.4580
925612	AC1-036 E	1.7382	50/50	1.7382
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0631	50/50	5.0631
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0229	50/50	3.0229
936265	AD2-033 C	24.1714	50/50	24.1714
936266	AD2-033 E	16.1143	50/50	16.1143
936361	AD2-046 C O1	6.9048	50/50	6.9048
936362	AD2-046 E O1	3.1752	50/50	3.1752
936485	AD2-063 C	22.4433	50/50	22.4433
936486	AD2-063 E	14.9622	50/50	14.9622
938371	AE1-056 C	19.5482	50/50	19.5482
938372	AE1-056 E	10.6810	50/50	10.6810

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939181	AE1-148 C	6.9525	50/50	6.9525
939182	AE1-148 E	4.6350	50/50	4.6350
940661	AE2-053 O1	2.5750	50/50	2.5750
942451	AE2-258	2.7372	50/50	2.7372
942461	AE2-259 C O1	37.3440	50/50	37.3440
942462	AE2-259 E O1	24.8960	50/50	24.8960
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7343	50/50	11.7343
946302	AF1-294 E	7.8229	50/50	7.8229
958211	AF2-115 C	6.9026	50/50	6.9026
958212	AF2-115 E	4.6017	50/50	4.6017
958801	AF2-171 C	41.2002	50/50	41.2002
958802	AF2-171 E	27.4668	50/50	27.4668
959311	AF2-222 C	35.5030	50/50	35.5030
959312	AF2-222 E	23.7870	50/50	23.7870
961791	AG1-021 C	5.5220	50/50	5.5220
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5642	50/50	37.5642
961892	AG1-030 E	25.0428	50/50	25.0428
962041	AG1-048 C	34.5128	50/50	34.5128
962042	AG1-048 E	23.0085	50/50	23.0085
963171	AG1-166 C	5.5220	50/50	5.5220
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5220	50/50	5.5220
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5220	50/50	5.5220
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5220	50/50	5.5220
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5220	50/50	5.5220
963212	AG1-170 E	3.6814	50/50	3.6814
963321	AG1-181 C O1	32.0091	50/50	32.0091
963361	AG1-185 O1	15.4869	50/50	15.4869
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8654	50/50	3.8654
964111	AG1-272 C	5.2046	50/50	5.2046
964112	AG1-272 E	1.5458	50/50	1.5458
964121	AG1-273 C	5.2046	50/50	5.2046
964122	AG1-273 E	1.5458	50/50	1.5458
964131	AG1-274 C	5.2046	50/50	5.2046
964132	AG1-274 E	1.5458	50/50	1.5458
964241	AG1-285 C O1	17.4997	50/50	17.4997
964242	AG1-285 E O1	11.6665	50/50	11.6665
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679
964841	AG1-347 C	48.8992	50/50	48.8992
964842	AG1-347 E	38.4208	50/50	38.4208
965191	AG1-384 C	5.2046	50/50	5.2046
965192	AG1-384 E	1.5458	50/50	1.5458
965281	AG1-393 C	5.5220	50/50	5.5220
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O1	5.3401	50/50	5.3401

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965452	AG1-413 E O1	3.5601	50/50	3.5601
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O1	74.6880	50/50	74.6880
965642	AG1-432 E O1	49.7920	50/50	49.7920
965831	AG1-451	12.4480	50/50	12.4480
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	7.4688	50/50	7.4688
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	4.9792	50/50	4.9792
WEC	WEC	0.0233	Confirmed LTF	0.0233
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPLE	CPLE	0.2539	Confirmed LTF	0.2539
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677
NY	NY	0.0420	Confirmed LTF	0.0420
TVA	TVA	0.1806	Confirmed LTF	0.1806
O-066	O-066	0.5855	Confirmed LTF	0.5855
SIGE	SIGE	0.0177	Confirmed LTF	0.0177
CBM-S2	CBM-S2	2.6726	Confirmed LTF	2.6726
CBM-S1	CBM-S1	0.0456	Confirmed LTF	0.0456
G-007	G-007	0.0924	Confirmed LTF	0.0924
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2223	Confirmed LTF	0.2223
CBM-W1	CBM-W1	0.9814	Confirmed LTF	0.9814

11.6.64 Index 64

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
170028940	965590	AG1-427 TAP	DVP	964240	AG1-285 TAP	DVP	1	DVP_P1-2: LN 84	single	269.78	185.15	211.5	DC	71.09

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925611	AC1-036 C	1.3567	80/20	1.3567
935221	AD1-157 C	1.4198	80/20	1.4198
936485	AD2-063 C	89.9919	80/20	89.9919
938371	AE1-056 C	38.7965	80/20	38.7965
958801	AF2-171 C	89.9919	80/20	89.9919
959311	AF2-222 C	99.9910	80/20	99.9910
963321	AG1-181 C O1	101.0809	80/20	101.0809
963361	AG1-185 O1	48.9056	80/20	48.9056
964111	AG1-272 C	15.4186	80/20	15.4186
964121	AG1-273 C	15.4186	80/20	15.4186
964131	AG1-274 C	15.4186	80/20	15.4186
965191	AG1-384 C	15.4186	80/20	15.4186
965591	AG1-427 C	71.0936	80/20	71.0936
CALDERWOOD	CALDERWOOD	0.0045	Confirmed LTF	0.0045
NY	NY	0.0050	Confirmed LTF	0.0050
PRAIRIE	PRAIRIE	0.0232	Confirmed LTF	0.0232
CHEOAH	CHEOAH	0.0045	Confirmed LTF	0.0045
COTTONWOOD	COTTONWOOD	0.0189	Confirmed LTF	0.0189
HAMLET	HAMLET	0.0052	Confirmed LTF	0.0052
GIBSON	GIBSON	0.0049	Confirmed LTF	0.0049
BLUEG	BLUEG	0.0156	Confirmed LTF	0.0156
TRIMBLE	TRIMBLE	0.0050	Confirmed LTF	0.0050
CATAWBA	CATAWBA	0.0032	Confirmed LTF	0.0032

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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
170028999	966790	AG1-550 TAP	DVP	314765	6MTEAGLE	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	161.29	162.89	DC	10.53

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
AA1-063A	Carolina–Seaboard 115kV	In Service
AA1-065	Earleys 230kV	In Service
AA1-067	Everetts 34.5kV	In Service
AA2-053	Carolina-Jackson 115kV	In Service
AA2-057	Hornertown-Whitakers 115kV	In Service
AA2-074	CPL-E-PJM	Confirmed
AA2-088	Boykins-Handsome 115kV	In Service
AA2-165	Hornertown-Whitakers 115kV	In Service
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
AB1-132	Thelma 230kV	Suspended
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-015	Franklin 115kV	Engineering and Procurement
AB2-025	Sapony 34.5kV	In Service
AB2-026	Powhatan 34.5kV	In Service
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-045	Buckingham 34.5kV	In Service
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

Queue Number	Project Name	Status
AC1-131	PJM-CPLE	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
AC2-071	Buckingham 35kV	Withdrawn
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
AD1-055	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	Boydton DP-Kerr Dam 115 kV	Active
AD2-051	Earleys – Northampton 230kV	Active
AD2-063	Central-Chase City 115kV	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
AE1-075	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
AE1-230	Shockoe 69 kV	Active
AE1-250	Smith Mountain-E. Danville 138 kV	Active
AE2-033	Clubhouse-Sappony 230 kV	Active
AE2-040	Sappony 34.5 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-053	Kerr Dam-Ridge Road 115 kV	Active
AE2-092	Kidds Store-Sherwood 115 kV	Active
AE2-151	Earleys 34.5kV	Withdrawn
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
AE2-258	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

Queue Number	Project Name	Status
AE2-346	Ahoskie 34.5 kV	Active
AF1-058	Welco 34.5 kV	Engineering and Procurement
AF1-059	Brodnax-South Hill 115 kV	Active
AF1-082	Heartsease-Mayo Dunbar DP	Active
AF1-173	Gretna DP-Shockoe DP 69 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
AF2-046	Tunis-Mapleton 115 kV	Active
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-085	Midlothian 34.5 kV	Engineering and Procurement
AF2-107	Clifford 138 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
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	Active
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
AG1-030	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-Riverville138 kV	Active
AG1-124	Gladstone 138 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

Queue Number	Project Name	Status
AG1-176	Briery-Clover 230 kV	Active
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 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
AG1-272	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
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-Rawlings 500 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
AG1-432	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
AG1-451	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
AG1-532	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	Parmele 12.5 kV	Active

Queue Number	Project Name	Status
AG1-552	Carolina 13.2 kV	Active
AG1-557	Curdsville DP 115 kV	Withdrawn
V4-068	Murphy's 34.5kV	In Service
Z2-043	Kelford 34.5kV	In Service
Z2-044	Whitakers 34.5kV	In Service
Z2-088	Tarboro-Everetts 230kV	In Service

11.8 Contingency Descriptions

Contingency Name	Contingency Definition
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_P7-1: LN 137-1041	CONTINGENCY 'DVP_P7-1: LN 137-1041' /* . OPEN BRANCH FROM BUS 313849 TO BUS 939180 CKT 1 /* 3RIDGERD 115.00 - AE1-148 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 939180 CKT 1 /* 3KERR 115.00 - AE1-148 TAP 115.00 OPEN BUS 939180 /* ISLAND: AE1-148 TAP 115.00 OPEN BUS 939181 /* ISLAND: AE1-148 C 115.00 OPEN BUS 939182 /* ISLAND: AE1-148 E 115.00 OPEN BRANCH FROM BUS 313757 TO BUS 314674 CKT 1 /* 3CLOUD 115.00 - 3BOYDTON 115.00 OPEN BRANCH FROM BUS 314255 TO BUS 314674 CKT 1 /* 3BOYDPLK 115.00 - 3BOYDTON 115.00 OPEN BUS 314674 /* ISLAND: 3BOYDTON 115.00 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
DVP_P1-2: LN 130	CONTINGENCY 'DVP_P1-2: LN 130' 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 - 3SKIPPERS 115.00 OPEN BUS 314595 /* ISLAND: 3PL HILL 115.00 OPEN BUS 314600 /* ISLAND: 3PLHITP 115.00 END

Contingency Name	Contingency Definition
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
DVP_P1-3: 6SEEDGE HILL-TX#1	CONTINGENCY 'DVP_P1-3: 6SEEDGE HILL-TX#1' OPEN BRANCH FROM BUS 314696 TO BUS 314697 CKT 1 /* 3SEEDGE HILL 115.00 - 6SEEDGE HILL 230.00 END
DVP_P1-2: LN 40-A	CONTINGENCY 'DVP_P1-2: LN 40-A' OPEN BRANCH FROM BUS 314675 TO BUS 943910 CKT 1 /* 3BRODNAX 115.00 - AF1-059 TAP 115.00 END
DVP_P7-1: LN 171-1009	CONTINGENCY 'DVP_P7-1: LN 171-1009' /* . OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 /* 3HERBERT 115.00 - 3CHASCTY 115.00 OPEN BRANCH FROM BUS 313849 TO BUS 314267 CKT 1 /* 3RIDGERD 115.00 - 3CHASCTY2 115.00 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
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

Contingency Name	Contingency Definition
DVP_P1-2: LN 1045	CONTINGENCY 'DVP_P1-2: LN 1045' OPEN BRANCH FROM BUS 313898 TO BUS 314267 CKT 1 /* 3BUTCHER CRK115.00 - 3CHASCTY2 115.00 END
DVP_P4-2: 102802	CONTINGENCY 'DVP_P4-2: 102802' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 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 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 END
DVP_P1-2: LN 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 END
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 /* 6DRY BREAD 230.00 - 6CLUBHSE 230.00 END
DVP_P1-2: LN 45	CONTINGENCY 'DVP_P1-2: LN 45' OPEN BUS 304099 /* ISLAND: 3WARREN TAP 115.00 OPEN BUS 304100 /* ISLAND: 3HEND
314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1	CONTINGENCY '314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1' OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 END
DVP_P1-3: 6SEEDGE HILL-TX#2	CONTINGENCY 'DVP_P1-3: 6SEEDGE HILL-TX#2' OPEN BRANCH FROM BUS 314696 TO BUS 314697 CKT 2 /* 3SEEDGE HILL 115.00 - 6SEEDGE HILL 230.00 END

Contingency Name	Contingency Definition
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
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
DVP_P7-1: LN 54-2012-B	CONTINGENCY 'DVP_P7-1: LN 54-2012-B' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* AD2-051 TAP - 6EARLEYS 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 54-2012-A	CONTINGENCY 'DVP_P7-1: LN 54-2012-A' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 OPEN BUS 314266 /* ISLAND: 6NORTHAMPTON230.00 END
DVP_P1-2: LN 2056-A	CONTINGENCY 'DVP_P1-2: LN 2056-A' OPEN BRANCH FROM BUS 313845 TO BUS 934330 CKT 1 /* 6HATHAWAY 230.00 - AD1-057 TAP 230.00 END
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

Contingency Name	Contingency Definition
DVP_P1-2: LN 1012-E	CONTINGENCY 'DVP_P1-2: LN 1012-E' OPEN BRANCH FROM BUS 964240 TO BUS 314681 CKT 1 /* AG1-285 TAP 115.00 - 3CHASCTY 115.00 END
DVP_P1-2: LN 1012-D	CONTINGENCY 'DVP_P1-2: LN 1012-D' OPEN BRANCH FROM BUS 965590 TO BUS 964240 CKT 1 /* AG1-181 TAP 115.00 - AG1-285 TAP 115.00 END
DVP_P1-2: LN 296-A	CONTINGENCY 'DVP_P1-2: LN 296-A' OPEN BRANCH FROM BUS 304070 TO BUS 927250 CKT 1 /* 6PERSON230 T230.00 - AC1-221 TAP 230.00 END
DVP_P1-2: LN 84	CONTINGENCY 'DVP_P1-2: LN 84' OPEN BRANCH FROM BUS 314521 TO BUS 314713 CKT 1 /* 3PAMPL_1 115.00 - 3PAMPLIN 115.00 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 /* 3FARMVIL 115.00 - 3WILLIS 115.00 OPEN BRANCH FROM BUS 314713 TO BUS 314726 CKT 1 /* 3PAMPLIN 115.00 - 3WILLIS 115.00 OPEN BUS 314521 /* ISLAND: 3PAMPL_1 115.00 OPEN BUS 314726 /* ISLAND: 3WILLIS 115.00 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
DVP_P1-2: LN 140	CONTINGENCY 'DVP_P1-2: LN 140' OPEN BRANCH FROM BUS 313720 TO BUS 314526 CKT 1 /* 3NEWSOMS 115.00 - 3HANDSOM 115.00 OPEN BRANCH FROM BUS 314526 TO BUS 314534 CKT 1 /* 3HANDSOM 115.00 - 3S HAMPT 115.00 OPEN BUS 314526 /* ISLAND: 3HANDSOM 115.00 END

Contingency Name	Contingency Definition
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
DVP_P1-2: LN 68-A	CONTINGENCY 'DVP_P1-2: LN 68-A' OPEN BRANCH FROM BUS 313737 TO BUS 314527 CKT 1 /* 3COPELD DP 115.00 - 3HOLLAND 115.00 OPEN BRANCH FROM BUS 313737 TO BUS 961850 CKT 1 /* 3COPELD DP 115.00 - 3SUFFOLK 115.00 OPEN BRANCH FROM BUS 314527 TO BUS 938770 CKT 1 /* 3HOLLAND 115.00 - AE1-103 TAP 115.00 OPEN BUS 313737 /* ISLAND: 3COPELD DP 115.00 OPEN BUS 314527 /* ISLAND: 3HOLLAND 115.00 END
Base Case	
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
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
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_P1-2: LN 31-A	CONTINGENCY 'DVP_P1-2: LN 31-A' OPEN BRANCH FROM BUS 314666 TO BUS 314712 CKT 1 /* 3ALTVSTA 115.00 - 3OTTER R 115.00 OPEN BRANCH FROM BUS 314694 TO BUS 314712 CKT 1 /* 3GRIT 115.00 - 3OTTER R 115.00 OPEN BRANCH FROM BUS 314694 TO BUS 942750 CKT 1 /* 3GRIT 115.00 - AE2-291 TAP 115.00 OPEN BUS 314694 /* ISLAND: 3GRIT 115.00 OPEN BUS 314712 /* ISLAND: 3OTTER R 115.00 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 - 3SKIPPERS 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

Contingency Name	Contingency Definition
DVP_P1-2: LN 71	CONTINGENCY 'DVP_P1-2: LN 71' OPEN BRANCH FROM BUS 314516 TO BUS 314676 CKT 1 /* 3BRUNWICK_1 115.00 - 3BRUNWICK 115.00 OPEN BRANCH FROM BUS 314562 TO BUS 314565 CKT Z1 /* 3CLUBHSE 115.00 - 3CLUBHSE71 115.00 OPEN BRANCH FROM BUS 314565 TO BUS 314693 CKT 1 /* 3CLUBHSE71 115.00 - 3FRMAN D 115.00 OPEN BRANCH FROM BUS 314565 TO BUS 314850 CKT 1 /* 3CLUBHSE71 115.00 - 3CLUBHSE71_1115.00 OPEN BRANCH FROM BUS 314675 TO BUS 314676 CKT 1 /* 3BRODNAX 115.00 - 3BRUNWICK 115.00 OPEN BRANCH FROM BUS 314676 TO BUS 314704 CKT 1 /* 3BRUNWICK 115.00 - 3LAWRENC 115.00 OPEN BRANCH FROM BUS 314693 TO BUS 314704 CKT 1 /* 3FRMAN D 115.00 - 3LAWRENC 115.00 OPEN BUS 314516 /* ISLAND: 3BRUNWICK_1 115.00 OPEN BUS 314565 /* ISLAND: 3CLUBHSE71 115.00 OPEN BUS 314676 /* ISLAND: 3BRUNWICK 115.00 OPEN BUS 314782 /* ISLAND: 2BRUNWICK 69.000 OPEN BUS 314785 /* ISLAND: 2DANLTWN 69.000 OPEN BUS 314786 /* ISLAND: 2GASBURG 69.000 OPEN BUS 314787 /* ISLAND: 2BRUNWICK2 69.000 OPEN BUS 314872 /* ISLAND: 2BRUNSWICKDP69.000 OPEN BUS 314693 /* ISLAND: 3FRMAN D 115.00 OPEN BUS 314704 /* ISLAND: 3LAWRENC 115.00 OPEN BUS 314850 /* ISLAND: 3CLUBHSE71_1115.00 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_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 962490 CKT 1 /* 6CLOVER 230.00 - AG1-098 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
EXT_304099 3WARREN TAP 115 304102 3GW KING TAP 115 1	CONTINGENCY 'EXT_304099 3WARREN TAP 115 304102 3GW KING TAP 115 1' OPEN BRANCH FROM BUS 304099 TO BUS 304102 CKT 1 END
DVP_P1-2: LN 235-A	CONTINGENCY 'DVP_P1-2: LN 235-A' 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 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 END

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_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_P1-2: LN 33	CONTINGENCY 'DVP_P1-2: LN 33' OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 /* 3CHASCTY2 115.00 - 3BARNES J 115.00 OPEN BRANCH FROM BUS 314669 TO BUS 314684 CKT 1 /* 3BARNES J 115.00 - 3MT LREL 115.00 OPEN BRANCH FROM BUS 314684 TO BUS 316115 CKT 1 /* 3MT LREL 115.00 - AC1-105 TAP 115.00 OPEN BRANCH FROM BUS 314696 TO BUS 316115 CKT 1 /* 3SEEDGE HILL 115.00 - AC1-105 TAP 115.00 OPEN BUS 314669 /* ISLAND: 3BARNES J 115.00 OPEN BUS 314684 /* ISLAND: 3MT LREL 115.00 OPEN BUS 316115 /* ISLAND: AC1-105 TAP 115.00 OPEN BUS 316116 /* ISLAND: AC1-105 MAIN115.00 OPEN BUS 316117 /* ISLAND: AC1-105 COL 34.500 OPEN BUS 316118 /* ISLAND: AC1-105 C 0.5750 OPEN BUS 926274 /* ISLAND: AC1-105 E 0.5750 END

Contingency Name	Contingency Definition
DVP_P1-4: 3CHASCTY2_3CHASCTY_Z1	CONTINGENCY 'DVP_P1-4: 3CHASCTY2_3CHASCTY_Z1' OPEN BRANCH FROM BUS 314267 TO BUS 314681 CKT Z1 /* 3CHASCTY2 115.00 - 3CHASCTY 115.00 END
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 158	CONTINGENCY 'DVP_P1-2: LN 158' 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 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_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

Contingency Name	Contingency Definition
DVP_P1-2: LN 154-A	CONTINGENCY 'DVP_P1-2: LN 154-A' OPEN BRANCH FROM BUS 314713 TO BUS 314715 CKT 1 /* 3PAMPLIN 115.00 - 3MADSONV 115.00 OPEN BRANCH FROM BUS 314715 TO BUS 959310 CKT 1 /* 3MADSONV 115.00 - AF2-222 TAP 115.00 OPEN BUS 314715 /* ISLAND: 3MADSONV 115.00 END

12 Short Circuit Analysis

The following Breakers are overdutied

None.

12.1 System Reinforcements - Short Circuit

None.

13 Affected Systems

13.1 TVA

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

13.2 Duke Energy Progress

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

14 Attachment 1: One Line Diagram