



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-185
PAMPLIN-CHASE CITY 115 KV
48.91 MW Capacity / 0 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 an uprate to a planned Solar generating facility located in Charlotte, Virginia. This project is an increase to the Interconnection Customer's AG1-181 project, which will share the same point of interconnection. The AG1-185 queue position is a 0 MW uprate (48.91 MW Capacity uprate) to the previous project. The total installed facilities will have a capability of 150 MW with 150 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this uprate project is June 30, 2023. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-185
Project Name	PAMPLIN-CHASE CITY 115 KV
State	Virginia
County	Charlotte
Transmission Owner	Dominion
MFO	150
MWE	0
MWC	48.91
Fuel	Storage
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

AG1-185 will interconnect with the Dominion transmission system as an uprate to AG1-181, sharing the POI and Attachment Facilities.

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.

Costs provided are contingent on the AG1-181 project being built. Should the AG1-181 project withdraw from the Interconnection Queue, the AG1-185 project will assume the Attachment, Direct Connection, and Non-Direct Connection costs identified in the AG1-181 study report for connection to the Dominion system.

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

4.2 Secondary Point of Interconnection

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

The secondary POI for AG1-185 is a direct connect to the Central 115 kV substation.

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

5 Cost Summary

The AG1-185 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$ 0
Total System Network Upgrade Costs	\$ 357,452,000 ¹
Total Costs	\$ 357,452,000

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.

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.

6 Transmission Owner Scope of Work

AG1-185 "Pamplin-Chase City 115 kV" will interconnect with the Dominion transmission system as an uprate to AG1-181, sharing the POI and Attachment Facilities.

As AG1-185 is sharing the POI and Attachment Facilities with AG1-181, there are no associated interconnection costs for this project. Should the AG1-181 project withdraw from the Interconnection Queue, the AG1-185 project will assume the Attachment, Direct Connection, and Non-Direct Connection costs identified in the AG1-181 study report for connection to the Dominion system.

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.

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

Description	Total Cost
Total Physical Interconnection Costs	\$ 0

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.

This schedule will be more clearly identified in future study phases.

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 AG1-185 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).
2. 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.
3. 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.
4. 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 Interconnected Transmission Owner Requirements

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

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

11 Summer Peak - Load Flow Analysis - Primary POI

The Queue Project AG1-185 was evaluated as a 0.0 MW (Capacity 48.9 MW) injection as an uprate to AG1-181 which is tapping the Pamplin to Chase City 115 kV line in the Dominion area. Project AG1-185 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-185 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

11.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADIN G %	POST PROJE CT LOADIN G %	AC D C	MW IMPAC T
1683903 90	31372 5	6DRY BREAD	230. 0	DVP	31458 3	6LAKEVE W	230. 0	DVP	1	314435 6SAPON Y 230 940480 AE2-033 TAP 230 1	single	375.0599975 59	99.33	100.38	DC	3.92
1683903 91	31372 5	6DRY BREAD	230. 0	DVP	31458 3	6LAKEVE W	230. 0	DVP	1	DVP_P1 -2: LN 238-A	single	375.0599975 59	99.33	100.38	DC	3.92
1691495 74	31471 3	3PAMPLIN	115. 0	DVP	31472 6	3WILLIS	115. 0	DVP	1	DVP_P1 -2: LN 1012-B	single	331.8200073 24	90.09	104.83	DC	48.91
1691495 79	31471 5	3MADSO NV	115. 0	DVP	31471 3	3PAMPLIN	115. 0	DVP	1	DVP_P1 -2: LN 1012-B	single	331.8200073 24	85.43	100.17	DC	48.91
1699121 46	95931 0	AF2-222 TAP	115. 0	DVP	31471 5	3MADSO NV	115. 0	DVP	1	DVP_P1 -2: LN 1012-E	single	331.8200073 24	86.79	101.53	DC	48.91
1699121 47	95931 0	AF2-222 TAP	115. 0	DVP	31471 5	3MADSO NV	115. 0	DVP	1	DVP_P1 -2: LN 1012-D	single	331.8200073 24	86.82	101.56	DC	48.91

11.2 Multiple Facility Contingency

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

None

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADIN G %	POST PROJE CT LOADIN G %	AC D C	MW IMPAC T
1681344 41	2426 31	05EDAN 1	138. 0	AEP	2426 20	05DANVL2	138. 0	AEP	1	Base Case	single	275.0	112.89	113.89	DC	2.78
1683902 51	3137 07	6FORK UNION	230. 0	DVP	9610 60	AF2-397 TAP	230. 0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009 766	139.85	141.19	DC	8.88
1683902 52	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	136.05	137.39	DC	8.88
1683901 92	3137 55	3FLAT CREEK	115. 0	DVP	3147 07	3MORAN	115. 0	DVP	1	Base Case	single	203.979995 728	106.19	107.76	DC	3.21
1683902 73	3138 67	6BREMIST	230. 0	DVP	3137 07	6FORK UNION	230. 0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009 766	141.66	143.13	DC	9.71

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS T LOADING %	POST PROJECTIONS T LOADING %	ACDC	MW IMPACT
168390274	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	137.49	138.96	DC	9.71
168957456	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 68-A	single	239.888000488	115.22	116.77	DC	3.72
168957457	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 140	single	239.888000488	109.64	111.19	DC	3.72
168957401	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2201	single	182.641998291	192.14	194.96	DC	5.16
168957402	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 130	single	182.641998291	143.56	146.71	DC	5.76
168957403	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	176.81401062	130.98	133.91	DC	5.18
169149539	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	191.34	193.97	DC	15.03
169149540	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	191.36	193.99	DC	15.03
169149542	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	single	571.520019531	109.84	111.99	DC	12.27
169149497	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P1-2: LN 235-A	single	182.641998291	222.18	230.86	DC	15.85
169149499	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P1-2: LN 1045	single	182.641998291	153.07	157.96	DC	8.94
169149500	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	Base Case	single	176.81401062	130.46	136.25	DC	10.23
169149508	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 298	single	198.057998657	141.55	148.56	DC	13.88
169149510	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 1045	single	198.057998657	108.88	112.51	DC	7.2
169149518	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	single	559.299987793	192.25	194.94	DC	15.04
169149519	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B	single	559.299987793	192.28	194.97	DC	15.04
169149521	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	single	559.299987793	109.51	111.71	DC	12.28
169149567	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	single	226.727996826	124.71	128.4	DC	8.37
169149583	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.055999756	110.09	113.35	DC	8.35
169149545	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	674.91998291	170.83	172.51	DC	11.37
169149546	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	674.91998291	170.86	172.54	DC	11.37
168390187	314701	3LONEPN	115.0	DVP	313755	3FLAT CREEK	115.0	DVP	1	Base Case	single	203.979995728	106.19	107.76	DC	3.21
163601749	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-6: CAROLIN T122	breaker	199.0	160.5	164.37	DC	7.82
163601750	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 13002	breaker	199.0	134.09	135.64	DC	6.83

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS LOAD %	POST PROJECTIONS LOAD %	ACDC	MW IMPACT
163601751	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 102802	breaker	199.0	134.09	135.64	DC	6.83
163601962	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P1-2: LN 90	single	199.0	101.53	104.75	DC	6.41
163602624	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P7-1: LN 22-90	tower	199.0	157.55	161.36	DC	7.73
169149692	314702	3KERR	115.0	DVP	314673	3PALMERSPRNG	115.0	DVP	1	DVP_P1-2: LN 45	single	138.179992676	107.0	110.06	DC	4.24
169149693	314702	3KERR	115.0	DVP	314673	3PALMERSPRNG	115.0	DVP	1	EXT_304099 3WARREN TAP 115 304102 3GW KING TAP 115 1	single	138.179992676	106.42	109.49	DC	4.24
169149536	314707	3MORAN	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	single	203.979995728	102.76	104.33	DC	3.21
169149573	314713	3PAMPLIN	115.0	DVP	314726	3WILLIS	115.0	DVP	1	DVP_P1-2: LN 1012-D	single	331.820007324	117.21	131.95	DC	48.91
169149577	314715	3MADSON V	115.0	DVP	314713	3PAMPLIN	115.0	DVP	1	DVP_P1-2: LN 1012-D	single	331.820007324	112.55	127.29	DC	48.91
169149504	314726	3WILLIS	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	DVP_P1-2: LN 1012-B	single	205.86000061	172.89	196.65	DC	48.91
169149505	314726	3WILLIS	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	single	186.119995117	121.08	129.29	DC	15.27
169367847	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	143.82	145.29	DC	9.71
169367848	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	139.65	141.12	DC	9.71
169367864	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	single	269.779998779	133.76	135.37	DC	4.36
169367837	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	143.73	145.07	DC	8.88
169367838	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	139.94	141.28	DC	8.88
166917915	316115	AC1-105 TAP	115.0	DVP	314696	3SEGE HILL	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	103.89	106.38	DC	10.09
163601916	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-D	single	718.0	172.55	174.13	DC	11.37
163601917	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-C	single	718.0	172.57	174.16	DC	11.37
163180175	934620	AD1-088 TAP	230.0	DVP	962490	AG1-098 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	107.77	109.98	DC	15.49
169613402	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P1-2: LN 84	single	269.779998779	144.16	162.29	DC	48.91

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
169613403	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P1-2: LN 154-A	single	269.779998779	106.78	124.91	DC	48.91
169613404	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	Base Case	single	247.220001221	106.29	119.9	DC	33.64
169912169	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	147.3	148.64	DC	8.88
169912170	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	143.5	144.84	DC	8.88
163180120	962490	AG1-098 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	124.14	126.35	DC	15.49
169613424	963320	AG1-181 TAP	115.0	DVP	936480	AD2-063 TAP	115.0	DVP	1	DVP_P1-2: LN 84	single	269.779998779	110.8	128.93	DC	48.91
169912085	964240	AG1-285 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P1-2: LN 84	single	269.779998779	144.16	162.29	DC	48.91
169912086	964240	AG1-285 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P1-2: LN 154-A	single	269.779998779	106.75	124.88	DC	48.91
169912087	964240	AG1-285 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	Base Case	single	247.220001221	106.29	119.9	DC	33.64
169912120	965590	AG1-427 TAP	115.0	DVP	964240	AG1-285 TAP	115.0	DVP	1	DVP_P1-2: LN 84	single	269.779998779	144.16	162.29	DC	48.91
169912121	965590	AG1-427 TAP	115.0	DVP	964240	AG1-285 TAP	115.0	DVP	1	DVP_P1-2: LN 154-A	single	269.779998779	106.78	124.91	DC	48.91
169912122	965590	AG1-427 TAP	115.0	DVP	964240	AG1-285 TAP	115.0	DVP	1	Base Case	single	247.220001221	106.29	119.9	DC	33.64
169912179	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	147.27	148.61	DC	8.88
169912180	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	143.48	144.82	DC	8.88

11.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168134640	242620	05DANVL2	138.0	AEP	242631	05EDAN 1	138.0	AEP	1	Base Case	operation	275.0	103.3	104.29	DC	5.12
168134438	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	operation	275.0	131.01	131.46	DC	2.78
168390249	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	166.99	168.33	DC	8.88
168390253	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	Base Case	operation	661.760009766	112.51	113.55	DC	6.91
168390497	313708	3FORK UNION	115.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P1-2: LN 2193	operation	269.779998779	108.48	108.93	DC	2.71
168390266	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	175.52	176.05	DC	5.82
168390403	313825	3PLYWOOD	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 33	operation	141.0	105.2	107.19	DC	6.19
168390271	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	166.34	167.8	DC	9.71
168390275	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	Base Case	operation	661.760009766	114.13	115.27	DC	7.55
168692903	314267	3CHASCTY 2	115.0	DVP	314681	3CHASCTY	115.0	DVP	21	DVP_P1-2: LN 158	operation	449.320007324	112.11	118.54	DC	28.88
168390261	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	175.57	176.11	DC	5.82
168957453	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 68-A	operation	239.888000488	158.97	159.67	DC	3.72
168957455	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	Base Case	operation	226.539993286	116.13	116.81	DC	3.42
168957399	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2201	operation	182.641998291	232.67	233.94	DC	5.16
168957400	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operation	176.81401062	171.54	174.47	DC	5.18
168390466	314563	6CLUBHSE	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operation	375.059997559	118.93	119.4	DC	3.94
168957638	314563	6CLUBHSE	230.0	DVP	314562	3CLUBHSE	115.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operation	182.641998291	110.76	112.86	DC	7.24
168957639	314563	6CLUBHSE	230.0	DVP	314562	3CLUBHSE	115.0	DVP	1	DVP_P1-2: LN 238-A	operation	182.641998291	110.76	112.86	DC	7.24
169149537	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	255.46	258.09	DC	15.03
169149541	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	operation	571.520019531	153.4	155.54	DC	12.27

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 PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169149628	314679	3CENTRAL	115.0	DVP	314722	3TWITTYS	115.0	DVP	1	DVP_P1-2: LN 1012-E	operation	269.779998779	91.66	109.79	DC	48.91
169149686	314679	3CENTRAL	115.0	DVP	963320	AG1-181 TAP	115.0	DVP	1	Base Case	operation	247.220001221	89.54	100.91	DC	28.11
169149830	314681	3CHASCTY	115.0	DVP	314708	3NORVIEW	115.0	DVP	1	DVP_P1-2: LN 298	operation	326.179992676	100.59	102.71	DC	6.92
169149495	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P1-2: LN 235-A	operation	182.641998291	333.87	342.54	DC	15.85
169149498	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	Base Case	operation	176.81401062	207.15	212.94	DC	10.23
169149506	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 298	operation	198.057998657	239.97	246.97	DC	13.88
169149509	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	Base Case	operation	193.734008789	152.25	156.5	DC	8.24
169149516	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	559.299987793	258.71	261.4	DC	15.04
169149520	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	operation	559.299987793	152.02	154.21	DC	12.28
169149565	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	operation	226.727996826	192.26	195.95	DC	8.37
169149568	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	Base Case	operation	223.531997681	111.52	113.74	DC	4.96
169149581	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	operation	256.055999756	169.73	172.98	DC	8.35
169149543	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	674.91998291	227.9	229.58	DC	11.37
169149547	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	Base Case	operation	509.480010986	112.45	113.72	DC	6.46
163601957	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P1-2: LN 90	operation	199.0	128.18	131.38	DC	6.41
163601958	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	Base Case	operation	191.0	122.1	125.03	DC	5.65
169149689	314702	3KERR	115.0	DVP	314673	3PALMERSP RNG	115.0	DVP	1	DVP_P1-2: LN 45	operation	138.179992676	121.81	123.2	DC	4.24
169149833	314708	3NORVIEW	115.0	DVP	314721	3SO HILL	115.0	DVP	1	DVP_P1-2: LN 298	operation	326.179992676	99.67	101.79	DC	6.92
169149571	314713	3PAMPLIN	115.0	DVP	314726	3WILLIS	115.0	DVP	1	DVP_P1-2: LN 1012-D	operation	331.820007324	186.26	201.0	DC	48.91
169149738	314714	3PERTH	115.0	DVP	942750	AE2-291 TAP	115.0	DVP	1	DVP_P1-2: LN 556-D	operation	285.760009766	104.65	105.2	DC	3.48
169149576	314715	3MADSON V	115.0	DVP	314713	3PAMPLIN	115.0	DVP	1	DVP_P1-2: LN 1012-D	operation	331.820007324	170.47	185.21	DC	48.91
169149823	314721	3SO HILL	115.0	DVP	943910	AF1-059 TAP	115.0	DVP	1	DVP_P1-2: LN 298	operation	299.859985352	100.08	102.39	DC	6.92
169149681	314722	3TWITTYS	115.0	DVP	314679	3CENTRAL	115.0	DVP	1	Base Case	operation	247.220001221	91.08	102.44	DC	28.11
169149501	314726	3WILLIS	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	DVP_P1-2: LN 1012-B	operation	205.86000061	274.48	298.24	DC	48.91
169149503	314726	3WILLIS	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	operation	186.119995117	179.5	187.7	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 PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169367845	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	168.5	169.97	DC	9.71
169367849	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	Base Case	operation	661.760009766	116.29	117.44	DC	7.55
169367863	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	operation	269.779998779	164.0	164.73	DC	4.36
169367835	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	165.36	166.7	DC	8.88
169367839	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	Base Case	operation	661.760009766	114.32	115.36	DC	6.91
169367879	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 40-A	operation	331.820007324	120.49	123.58	DC	10.29
169367881	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	Base Case	operation	331.820007324	104.16	106.82	DC	8.86
163601911	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-D	operation	718.0	231.58	233.16	DC	11.37
163601921	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	Base Case	operation	542.0	124.18	125.37	DC	6.46
169613502	934620	AD1-088 TAP	230.0	DVP	962490	AG1-098 TAP	230.0	DVP	1	DVP_P1-2: LN 298	operation	571.520019531	118.3	120.73	DC	13.88
169613400	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P1-2: LN 84	operation	269.779998779	229.09	247.22	DC	48.91
169613401	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	Base Case	operation	247.220001221	163.02	176.62	DC	33.64
169149809	959310	AF2-222 TAP	115.0	DVP	314722	3TWITTYS	115.0	DVP	1	DVP_P1-2: LN 1045	operation	331.820007324	95.43	104.39	DC	29.72
169912144	959310	AF2-222 TAP	115.0	DVP	314715	3MADSONV	115.0	DVP	1	DVP_P1-2: LN 1012-E	operation	331.820007324	126.62	141.36	DC	48.91
169912167	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	176.49	177.83	DC	8.88
169912171	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	Base Case	operation	661.760009766	118.46	119.5	DC	6.91
169149761	961890	AG1-030 TAP	115.0	DVP	314706	3MARTIN TAP	115.0	DVP	1	DVP_P1-2: LN 154-A	operation	269.779998779	100.93	103.98	DC	8.24
169149638	962490	AG1-098 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P1-2: LN 298	operation	571.520019531	138.53	140.96	DC	13.88
169613550	963270	AG1-176 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P1-2: LN 298	operation	571.520019531	101.57	103.99	DC	13.88
169912208	963270	AG1-176 TAP	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	176.63	177.17	DC	5.82
169149623	963320	AG1-181 TAP	115.0	DVP	314679	3CENTRAL	115.0	DVP	1	DVP_P1-2: LN 1012-E	operation	269.779998779	93.07	111.2	DC	48.91
169613421	963320	AG1-181 TAP	115.0	DVP	936480	AD2-063 TAP	115.0	DVP	1	DVP_P1-2: LN 84	operation	269.779998779	173.5	191.63	DC	48.91

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169613423	963320	AG1-181 TAP	115.0	DVP	936480	AD2-063 TAP	115.0	DVP	1	Base Case	operation	247.220001221	114.32	127.93	DC	33.64
169912083	964240	AG1-285 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P1-2: LN 84	operation	269.779998779	229.09	247.22	DC	48.91
169912084	964240	AG1-285 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	Base Case	operation	247.220001221	163.02	176.62	DC	33.64
168692613	964840	AG1-347 TAP	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	176.64	177.17	DC	5.82
169912118	965590	AG1-427 TAP	115.0	DVP	964240	AG1-285 TAP	115.0	DVP	1	DVP_P1-2: LN 84	operation	269.779998779	229.09	247.22	DC	48.91
169912119	965590	AG1-427 TAP	115.0	DVP	964240	AG1-285 TAP	115.0	DVP	1	Base Case	operation	247.220001221	163.02	176.62	DC	33.64
169912177	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	173.18	174.52	DC	8.88
169912181	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	Base Case	operation	661.760009766	117.25	118.3	DC	6.91

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
168134441	5	05EDAN 1 138.0 kV - 05DANVL2 138.0 kV Ckt 1	<u>AEP</u> n6124 (533) : PJM Network Upgrade n6124. Increasing the Danville East Danville 138 kV circuit summer rating to 572/572/572 MVA will still require us to rebuild the line. 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
168390274,168390273	8	6BREMOMDIST 230.0 kV - 6FORK UNION 230.0 kV Ckt 1	<u>DVP</u> dom-202 (1589) : Rebuild 1.63 miles of 230 kV Line 2028 from Fork Union to Breomo Dist with 2-636 ACSR. Project Type : FAC Cost : \$2,445,000 Time Estimate : 30-36 Months	\$2,445,000
168957456,168957457	9	3CAROLNA 115.0 kV - 6CAROLNA 230.0 kV Ckt 1	<u>DVP</u> n6113 (1543) : Add additional 230/115 kV transformer at Carolina substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
168390390,168390391	1	6DRY BREAD 230.0 kV - 6LAKEVIEW 230.0 kV Ckt 1	<u>DVP</u> b3121 (1329) : 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 Time Estimate : N/A Months	\$0
169367864	24	6BREMO 230.0 kV - 3BREMO 115.0 kV Ckt 1	<u>DVP</u> b2989 (1320) : PJM Baseline Upgrade b2989. Install a second 230 -115 kV Transformer(224 MVA) approximately 1 mile north of Breomo and tie 230 kV Line #2028(Breomo Charlottesville) and 115 kV Line #91 (Breomo-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 Breomo substation for the interim until the new substation is complete. The baseline project has an projected in-service date of 10/31/2019. Project Type : CON Cost : \$0	\$0

ID	Idx	Facility	Upgrade Description	Cost
169149692,169149693	20	3KERR 115.0 kV - 3PALMERSPRNG 115.0 kV Ckt 1	<u>DVP</u> dom-352 (1739) : Reconductor 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
169149504,169149505	22	3WILLIS 115.0 kV - 3FARMVIL 115.0 kV Ckt 1	<u>DVP</u> dom-271 (1658) : 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
169613403,169613402,169613404	29	AD2-063 TAP 115.0 kV - J1046 TAP 345.0 kV Ckt 1		
169912087,169912086,169912085	33	AG1-285 TAP 115.0 kV - 3CHASCTY 115.0 kV Ckt 1		
169912120,169912121,169912122	34	J1046 TAP 345.0 kV - AG1-285 TAP 115.0 kV Ckt 1		
169613424	32	AG1-181 TAP 115.0 kV - AD2-063 TAP 115.0 kV Ckt 1		
168390187	18	3LONEPN 115.0 kV - 3FLAT CREEK 115.0 kV Ckt 1		
169149574,169149573	2	3PAMPLIN 115.0 kV - 3WILLIS 115.0 kV Ckt 1		
168390192	7	3FLAT CREEK 115.0 kV - 3MORAN 115.0 kV Ckt 1		
169149536	21	3MORAN 115.0 kV - 3FARMVIL 115.0 kV Ckt 1		
169149577,169149579	3	3MADSONV 115.0 kV - 3PAMPLIN 115.0 kV Ckt 1		
169912146,169912147	4	AF2-222 TAP 115.0 kV - 3MADSONV 115.0 kV Ckt 1		

ID	Idx	Facility	Upgrade Description	Cost
169149546,169149545	17	6SEDGE 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
163180120	31	AG1-098 TAP 230.0 kV - 6CLOVER 230.0 kV Ckt 1	<u>DVP</u> dom-343 (1730) : 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
163601962,163601749,163601750,163601751,163602624	19	3KERR 115.0 kV - 3GW KING TAP 115.0 kV Ckt 1	<u>DVP</u> n6115 (1332) : 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>CPLE</u> The external (i.e. Non-PJM) Transmission Owner, CPLE, will not evaluate this violation until the impact study phase.	\$6,123,000
163601916,163601917	27	AC1-221 TAP 230.0 kV - 6PERSON230 T 230.0 kV Ckt 1	<u>DVP</u> n6449 (1339) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-636 ACSR. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months dom-259 (1646) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-795 ACSR. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months dom-387 (1774) : 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	\$9,000,000
163180175	28	AD1-088 TAP 230.0 kV - AG1-098 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-391 (1778) : Rebuild 8.936 miles of 230 kV line 235 from AD1-088 Tap to AG1-098 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$22,340,000 Time Estimate : 36-40 Months	\$22,340,000

ID	Idx	Facility	Upgrade Description	Cost
169149542,169 149539,169149 540	11	6BUCKING 230.0 kV - 6BREMO 230.0 kV Ckt 1	<u>DVP</u> n6219 (1370) : Rebuild 15.51 miles of 230 kV Line 298 from Buckingham to Bremono with 2-636 ACSR. Project Type : FAC Cost : \$23,265,000 Time Estimate : 30-36 Months dom-337 (1724) : 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
169149519,169 149518,169149 521	14	6FARMVIL 230.0 kV - 6BUCKING 230.0 kV Ckt 1	<u>DVP</u> n6245 (1372) : Rebuild 12.76 miles of 230 kV Line 298 from Buckingham to Farmville with 2-636 ACSR. Project Type : FAC Cost : \$19,140,000 Time Estimate : 30-36 Months dom-346 (1733) : 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
169367838,169 367837	25	6MTEAGLE 230.0 kV - 6CHARLV 230.0 kV Ckt 1	<u>DVP</u> n6184 (1576) : Rebuild 6.47 miles of 230 kV Line 2028 from Mt Eagle to Charlottesville with 2-636 ACSR. Project Type : FAC Cost : \$16,175,000 Time Estimate : 30-36 Months	\$16,175,000
169149510,169 149508	13	3FARMVIL 115.0 kV - 6FARMVIL 230.0 kV Ckt 1	<u>DVP</u> dom-089 (1435) : Add additional 230/115 kV transformer at Farmville substation Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169149499,169 149500,169149 497	12	3FARMVIL 115.0 kV - 6FARMVIL 230.0 kV Ckt 2		
168957401,168 957403,168957 402	10	3CLUBHSE 115.0 kV - 6CLUBHSE 230.0 kV Ckt 1	n6114 (1544) : Add additional 230/115 kV transformer at Clubhouse substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000

ID	Idx	Facility	Upgrade Description	Cost
169149567	15	3SEEDGE HILL 115.0 kV - 6SEEDGE HILL 230.0 kV Ckt 1	<u>DVP</u> dom-046 (1385) : Add additional 230/115 kV transformer at Sedge Hill substation.	\$6,000,000
169149583	16	3SEEDGE HILL 115.0 kV - 6SEEDGE HILL 230.0 kV Ckt 2	Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	
168390252,168 390251	6	6FORK UNION 230.0 kV - AF2- 397 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-198 (1585) : Rebuild 5 miles of 230 kV Line 2028 from Fork Union to AF2-397 Tap with 2-636 ACSR. Project Type : FAC Cost : \$7,500,000 Time Estimate : 30-36 Months	\$7,500,000
169367847,169 367848	23	6BREMO 230.0 kV - 6BREMODIST 230.0 kV Ckt 1	<u>DVP</u> n5873 (1538) : 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	\$500,000
166917915	26	AC1-105 TAP 115.0 kV - 3SEEDGE HILL 115.0 kV Ckt 1	<u>DVP</u> dom-341 (1728) : 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
169912169,169 912170	30	AF2-397 TAP 230.0 kV - AG1- 550 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-409 (1796) : Rebuild 5.6 miles of 230 kV Line 2028 from AG1-550 Tap to AF2-397 Tap with 2-636 ACSR 150 C. Project Type : FAC Cost : \$14,000,000 Time Estimate : 36-40 Months	\$14,000,000
169912180,169 912179	35	AG1-550 TAP 230.0 kV - 6MTEAGLE 230.0 kV Ckt 1	<u>DVP</u> dom-421 (1808) : Rebuild 6.5 miles of 230 kV Line 2028 from AG1-550 Tap to Mt Eagle with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$16,250,000 Time Estimate : 30-36 Months	\$16,250,000
			TOTAL COST	\$357,452,000

11.6 Flow Gate Details - Primary POI

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

11.6.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168390391	313725	6DRY BREAD	DVP	314583	6LAKEVEW	DVP	1	DVP_P1-2: LN 238-A	single	375.06	99.33	100.38	DC	3.92

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

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
169149573	314713	3PAMPLIN	DVP	314726	3WILLIS	DVP	1	DVP_P1-2: LN 1012-D	single	331.82	117.21	131.95	DC	48.91

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

11.6.3 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
169149577	314715	3MADSONV	DVP	314713	3PAMPLIN	DVP	1	DVP_P1-2: LN 1012-D	single	331.82	112.55	127.29	DC	48.91

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

11.6.4 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
169912147	959310	AF2-222 TAP	DVP	314715	3MADSONV	DVP	1	DVP_P1-2: LN 1012-D	single	331.82	86.82	101.56	DC	48.91

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
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

11.6.5 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
168134441	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	Base Case	single	275.0	112.89	113.89	DC	2.78

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.1842	80/20	0.1842
313719	3CHESTNUT	0.4469	80/20	0.4469
314582	3KELFORD	0.1172	80/20	0.1172
314623	3WITAKRS	0.0865	80/20	0.0865
314704	3LAWRENC	0.0949	80/20	0.0949
315126	1ROARAP2	0.4438	80/20	0.4438
315128	1ROARAP4	0.4236	80/20	0.4236
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.9075	80/20	3.9075
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.9075	80/20	3.9075
315136	1ROSEMG1	0.6763	80/20	0.6763
315137	1ROSEMS1	0.4194	80/20	0.4194
315138	1ROSEMG2	0.3170	80/20	0.3170
315153	1CLOVER1	4.0240	80/20	4.0240
315154	1CLOVER2	3.9839	80/20	3.9839
315158	1KERR 1	0.1606	80/20	0.1606
315159	1KERR 2	0.4497	80/20	0.4497
315160	1KERR 3	0.4497	80/20	0.4497
315161	1KERR 4	0.4497	80/20	0.4497
315162	1KERR 5	0.4497	80/20	0.4497
315163	1KERR 6	0.4497	80/20	0.4497
315164	1KERR 7	0.4497	80/20	0.4497
315266	1PLYWOOD A	0.5013	80/20	0.5013
315601	1CONETOE2SOL	0.5282	80/20	0.5282
315606	3AA2-053SOLA	0.4777	80/20	0.4777
316020	AB2-059 C OP	0.7003	80/20	0.7003
316118	AC1-105 C	2.3764	80/20	2.3764
316123	AC1-075 C	0.3286	80/20	0.3286
316129	AC1-054 C	2.7848	80/20	2.7848
316131	AB2-060 C	0.5267	80/20	0.5267
920591	AA2-165 C	0.0600	80/20	0.0600
922922	AB1-081 C OP	0.5942	80/20	0.5942
924301	AB2-077 C O1 (Suspended)	0.7475	80/20	0.7475
924311	AB2-078 C O1 (Suspended)	0.7475	80/20	0.7475
924321	AB2-079 C O1 (Suspended)	0.7475	80/20	0.7475
925591	AC1-034 C	2.8749	80/20	2.8749
925611	AC1-036 C	0.0760	80/20	0.0760
926023	AC1-080 C	0.1098	80/20	0.1098
926051	AC1-083 C O1	4.8138	80/20	4.8138

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926070	AC1-086 C	5.7146	Adder	6.72
926201	AC1-098 C	2.2161	80/20	2.2161
926211	AC1-099 C	0.7426	80/20	0.7426
927024	AC1-189 C	3.2991	80/20	3.2991
927145	AC1-208 C	3.3345	80/20	3.3345
927251	AC1-221 C	1.5567	80/20	1.5567
927261	AC1-222 C	1.5377	80/20	1.5377
932631	AC2-084 C	3.1592	80/20	3.1592
932761	AC2-100 C	3.5824	80/20	3.5824
933941	AD1-017 C	0.9628	80/20	0.9628
934311	AD1-055 C	1.0677	80/20	1.0677
934331	AD1-057 C O1	3.7840	80/20	3.7840
934341	AD1-058 C	3.9023	80/20	3.9023
934615	AD1-087 C	2.5329	80/20	2.5329
934991	AD1-131 C	1.2794	80/20	1.2794
935171	AD1-152 C O1	2.7821	80/20	2.7821
936161	AD2-022 C O1	11.2746	80/20	11.2746
936171	AD2-023 C O1	6.5769	80/20	6.5769
936265	AD2-033 C	4.4546	80/20	4.4546
936361	AD2-046 C O1	3.6639	80/20	3.6639
936485	AD2-063 C	5.3595	80/20	5.3595
937481	AD2-202 C O1	0.7419	80/20	0.7419
939181	AE1-148 C	3.5991	80/20	3.5991
940081	AE1-250 C	16.2585	80/20	16.2585
940571	AE2-044 C	1.8830	80/20	1.8830
940661	AE2-053 O1	1.3330	80/20	1.3330
942451	AE2-258	0.8710	80/20	0.8710
943901	AF1-058 C	0.8488	80/20	0.8488
943911	AF1-059	5.6822	80/20	5.6822
944141	AF1-082	1.2105	80/20	1.2105
957861	AF2-080 C	2.9963	80/20	2.9963
959311	AF2-222 C	5.5290	80/20	5.5290
959511	AF2-242 C	2.4903	80/20	2.4903
959751	AF2-266	2.8885	80/20	2.8885
960061	AF2-297 C	3.3950	80/20	3.3950
961671	AG1-007 C	0.4947	80/20	0.4947
962441	AG1-093 C O1	6.3370	80/20	6.3370
962561	AG1-105 C O1	3.7230	80/20	3.7230
962571	AG1-106 C	0.8423	Adder	1.87
963301	AG1-179 C	1.8691	80/20	1.8691
963311	AG1-180	0.9107	80/20	0.9107
963321	AG1-181 C O1	5.7460	80/20	5.7460
963361	AG1-185 O1	2.7800	80/20	2.7800
964111	AG1-272 C	0.8635	80/20	0.8635
964121	AG1-273 C	0.8635	80/20	0.8635
964131	AG1-274 C	0.8635	80/20	0.8635
964241	AG1-285 C O1	4.5142	80/20	4.5142
964261	AG1-287 C	0.6366	80/20	0.6366
964471	AG1-310 C	0.8802	80/20	0.8802
964501	AG1-313 C O1	1.5034	80/20	1.5034
964791	AG1-342 C	1.6887	80/20	1.6887
965191	AG1-384 C	0.8635	80/20	0.8635

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965451	AG1-413 C O1	2.3886	80/20	2.3886
965591	AG1-427 C	4.2717	80/20	4.2717
965601	AG1-428 C O1	1.5604	80/20	1.5604
965711	AG1-439 C O1	9.4755	80/20	9.4755
965721	AG1-440 C	2.9669	80/20	2.9669
965731	AG1-441 C	2.9669	80/20	2.9669
965761	AG1-444 O1	5.0536	80/20	5.0536
965771	AG1-445	1.7142	80/20	1.7142
965781	AG1-446	1.7142	80/20	1.7142
966751	AG1-546 C	6.0407	80/20	6.0407
966801	AG1-551 C	0.7983	80/20	0.7983
966811	AG1-552 C	0.7047	80/20	0.7047
CPLE	CPLE	5.1024	Confirmed LTF	5.1024
G-007A	G-007A	0.9734	Confirmed LTF	0.9734
VFT	VFT	2.5800	Confirmed LTF	2.5800
PRAIRIE	PRAIRIE	1.5575	Confirmed LTF	1.5575
TVA	TVA	0.1064	Confirmed LTF	0.1064
CBM-S2	CBM-S2	44.8085	Confirmed LTF	44.8085
CBM-N	CBM-N	0.4656	Confirmed LTF	0.4656
GIBSON	GIBSON	0.5635	Confirmed LTF	0.5635
BLUEG	BLUEG	2.0172	Confirmed LTF	2.0172
TRIMBLE	TRIMBLE	0.6572	Confirmed LTF	0.6572
LAGN	LAGN	0.3465	Confirmed LTF	0.3465
AA2-074	AA2-074	3.3570	LTF	3.3570

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
168390251	313707	6FORK UNION	DVP	961060	AF2-397 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	139.85	141.19	DC	8.88

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

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

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

11.6.7 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
168390192	313755	3FLAT CREEK	DVP	314707	3MORAN	DVP	1	Base Case	single	203.98	106.19	107.76	DC	3.21

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

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
168390273	313867	6BREMODIST	DVP	313707	6FORK UNION	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	141.66	143.13	DC	9.71

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
168957456	314559	3CAROLNA	DVP	314561	6CAROLNA	DVP	1	DVP_P1-2: LN 68-A	single	239.89	115.22	116.77	DC	3.72

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

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
168957401	314562	3CLUBHSE	DVP	314563	6CLUBHSE	DVP	1	DVP_P1-2: LN 2201	single	182.64	192.14	194.96	DC	5.16

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
169149540	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P1-2: LN 556-B	single	571.52	191.36	193.99	DC	15.03

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169149497	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	2	DVP_P1-2: LN 235-A	single	182.64	222.18	230.86	DC	15.85

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

11.6.13 Index 13

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169149508	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	1	DVP_P1-2: LN 298	single	198.06	141.55	148.56	DC	13.88

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

11.6.14 Index 14

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169149519	314692	6FARMVIL	DVP	314677	6BUCKING	DVP	1	DVP_P1-2: LN 556-B	single	559.3	192.28	194.97	DC	15.04

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169149567	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	single	226.73	124.71	128.4	DC	8.37

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
169149583	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.06	110.09	113.35	DC	8.35

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
169149546	314697	6SEGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-C	single	674.92	170.86	172.54	DC	11.37

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
168390187	314701	3LONEPN	DVP	313755	3FLAT CREEK	DVP	1	Base Case	single	203.98	106.19	107.76	DC	3.21

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
163601749	314702	3KERR	DVP	304102	3GW KING TAP	CPL	1	DVP_P4-6: CAROLIN T122	breaker	199.0	160.5	164.37	DC	7.82

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
169149692	314702	3KERR	DVP	314673	3PALMERSPRNG	DVP	1	DVP_P1-2: LN 45	single	138.18	107.0	110.06	DC	4.24

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
169149536	314707	3MORAN	DVP	314691	3FARMVIL	DVP	1	Base Case	single	203.98	102.76	104.33	DC	3.21

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

11.6.22 Index 22

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
169149504	314726	3WILLIS	DVP	314691	3FARMVIL	DVP	1	DVP_P1-2: LN 1012-B	single	205.86	172.89	196.65	DC	48.91

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
938371	AE1-056 C	38.7965	80/20	38.7965
942461	AE2-259 C O1	59.9946	80/20	59.9946
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
965641	AG1-432 C O1	119.9892	80/20	119.9892
965831	AG1-451	19.9982	80/20	19.9982
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	11.9989	80/20	11.9989
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

11.6.23 Index 23

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169367847	314747	6BREMO	DVP	313867	6BREMODIST	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	143.82	145.29	DC	9.71

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

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

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

11.6.24 Index 24

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169367864	314747	6BREMO	DVP	314744	3BREMO	DVP	1	DVP_P1-2: LN 2193	single	269.78	133.76	135.37	DC	4.36

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

11.6.25 Index 25

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169367837	314765	6MTEAGLE	DVP	314749	6CHARLVL	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	143.73	145.07	DC	8.88

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166917915	316115	AC1-105 TAP	DVP	314696	3SEGE HILL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	103.89	106.38	DC	10.09

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

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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
163601917	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-C	single	718.0	172.57	174.16	DC	11.37

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

11.6.28 Index 28

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
163180175	934620	AD1-088 TAP	DVP	962490	AG1-098 TAP	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	107.77	109.98	DC	15.49

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

11.6.29 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
169613402	936480	AD2-063 TAP	DVP	965590	AG1-427 TAP	DVP	1	DVP_P1-2: LN 84	single	269.78	144.16	162.29	DC	48.91

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
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
169912169	961060	AF2-397 TAP	DVP	966790	AG1-550 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	147.3	148.64	DC	8.88

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

11.6.31 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
163180120	962490	AG1-098 TAP	DVP	314686	6CLOVER	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	124.14	126.35	DC	15.49

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
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

11.6.32 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
169613424	963320	AG1-181 TAP	DVP	936480	AD2-063 TAP	DVP	1	DVP_P1-2: LN 84	single	269.78	110.8	128.93	DC	48.91

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
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
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

11.6.33 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
169912085	964240	AG1-285 TAP	DVP	314681	3CHASCTY	DVP	1	DVP_P1-2: LN 84	single	269.78	144.16	162.29	DC	48.91

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

11.6.34 Index 34

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
169912120	965590	AG1-427 TAP	DVP	964240	AG1-285 TAP	DVP	1	DVP_P1-2: LN 84	single	269.78	144.16	162.29	DC	48.91

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

11.6.35 Index 35

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
169912179	966790	AG1-550 TAP	DVP	314765	6MTEAGLE	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	147.27	148.61	DC	8.88

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

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

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

11.7 Queue Dependencies

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

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA2-053	Carolina-Jackson 115kV	In Service
AA2-074	CPLE-PJM	Confirmed
AA2-088	Boykins-Handsome 115kV	In Service
AA2-165	Hornertown-Whitakers 115kV	In Service
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-015	Franklin 115kV	Engineering and Procurement
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-045	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
AB2-174	Emporia-Trego 115kV	In Service
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-042	Altavista-Mt. Airy 69kV	Engineering and Procurement
AC1-054	Kerr Dam-Eatons Ferry 115 kV	Engineering and Procurement
AC1-075	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-080	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-083	Smith Mountain-Bearskin 138kV	Active
AC1-086	Thelma 230kV	Active
AC1-098	Dawson-South Justice 115kV	Engineering and Procurement
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-116	Mount Eagle 34.5kV	Engineering and Procurement
AC1-131	PJM-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

Queue Number	Project Name	Status
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
AD1-055	Crystal Hill-Halifax 115 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-058	Halifax-Person 230 kV	Engineering and Procurement
AD1-087	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
AD2-063	Central-Chase City 115kV	Active
AD2-202	Clover-Sedge Hill 230kV	Active
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
AE2-044	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
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

Queue Number	Project Name	Status
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-085	Midlothian 34.5 kV	Engineering and Procurement
AF2-107	Clifford 138 kV	
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	
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-Riverville 138 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
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

Queue Number	Project Name	Status
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
AG1-313	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
AG1-439	Chinquapin 230 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 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	Parmeale 12.5 kV	Active
AG1-552	Carolina 13.2 kV	Active
AG1-557	Curdsville DP 115 kV	Withdrawn

11.8 Contingency Descriptions - Primary POI

Contingency Name	Contingency Definition
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 - 3SKIPPER 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_P1-2: LN 1012-B	CONTINGENCY 'DVP_P1-2: LN 1012-B' OPEN BRANCH FROM BUS 963320 TO BUS 936480 CKT 1 /* AG1-181 TAP 115.00 - AD2-063 TAP 115.00 OPEN BUS 936480 /* ISLAND: AD2-063 TAP 115.00 OPEN BUS 936481 /* ISLAND: AD2-063 MAIN115.00 OPEN BUS 936482 /* ISLAND: AD2-063 COL234.500 OPEN BUS 936483 /* ISLAND: AD2-063 TER 13.800 OPEN BUS 936484 /* ISLAND: AD2-063 COL134.500 OPEN BUS 936485 /* ISLAND: AD2-063 C 0.5500 OPEN BUS 936486 /* ISLAND: AD2-063 E 0.5500 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
314333 6POWHATN 230 933500 AC2-165 TAP 230 1	CONTINGENCY '314333 6POWHATN 230 933500 AC2-165 TAP 230 1' OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 END
DVP_P1-3: 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

Contingency Name	Contingency Definition
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
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_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
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_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

Contingency Name	Contingency Definition
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_P4-6: CAROLIN T122	CONTINGENCY 'DVP_P4-6: CAROLIN T122' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 315126 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP2 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 315128 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP4 14.400 OPEN BUS 315126 /* ISLAND: 1ROARAP2 14.400 OPEN BUS 315128 /* ISLAND: 1ROARAP4 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314578 CKT 1 /* 3CAROLNA 115.00 - 3HORNRTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 OPEN BUS 314559 /* 3CAROLNA 115.00 KV OPEN BUS 314835 /* ISLAND: 3CAROL_1 115.00 END
DVP_P1-2: LN 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

Contingency Name	Contingency Definition
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	
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
DVP_P1-2: LN 556-D	CONTINGENCY 'DVP_P1-2: LN 556-D' OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-055 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P1-2: LN 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

Contingency Name	Contingency Definition
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 - 6BREMOMDIST 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMOMDIST 230.00 - 6BREMO 230.00 OPEN BUS 313867 /* ISLAND: 6BREMOMDIST 230.00 END
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

Contingency Name	Contingency Definition
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
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

Contingency Name	Contingency Definition
DVP_P1-2: LN 33	CONTINGENCY 'DVP_P1-2: LN 33' OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 /* 3CHASCTY2 115.00 - 3BARN J 115.00 OPEN BRANCH FROM BUS 314669 TO BUS 314684 CKT 1 /* 3BARN 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 /* 3SEGE HILL 115.00 - AC1-105 TAP 115.00 OPEN BUS 314669 /* ISLAND: 3BARN 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
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
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 - Primary POI

The following Breakers are overdutied:

None

12.1 System Reinforcements - Short Circuit

None

13 Summer Peak - Load Flow Analysis - Secondary POI

The Queue Project AG1-185 was evaluated as a 0.0 MW (Capacity 48.9 MW) injection as an uprate to AG1-181 which is a direct connection to the Central 115 kV substation in the Dominion area. Project AG1-185 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-185 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

13.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE T LOADIN G %	POST PROJE T LOADIN G %	AC D C	MW IMPAC T
174829452	959310	AF2-222 TAP	115.0	DVP	314715	3MADSON V	115.0	DVP	1	DVP_P1-2: LN 1012-E-1	single	331.820007324	86.79	101.53	DC	48.91

13.2 Multiple Facility Contingency

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE T LOADIN G %	POST PROJE T LOADIN G %	AC D C	MW IMPAC T
174009827	314268	6BRIERY	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P4-2: 219322	breaker	699.0	98.55	100.82	DC	15.88
174208508	314268	6BRIERY	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P4-2: 210622	breaker	699.0	98.55	100.82	DC	15.88
166917916	316115	AC1-105 TAP	115.0	DVP	314696	3SEDGE HILL	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	406.0	97.58	100.33	DC	11.18
174009818	939180	AE1-148 TAP	115.0	DVP	314702	3KERR	115.0	DVP	1	DVP_P4-2: 3612	breaker	398.600006104	97.41	101.79	DC	17.46
171454306	964840	AG1-347 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	98.56	100.83	DC	15.88
174009800	964840	AG1-347 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P4-2: 210622	breaker	699.0	98.56	100.83	DC	15.88
174208471	964840	AG1-347 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P4-2: 219322	breaker	699.0	98.56	100.83	DC	15.88

13.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE T LOADIN G %	POST PROJE T LOADIN G %	AC D C	MW IMPAC T
168134441	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	single	275.0	114.57	115.57	DC	2.76
168390251	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	141.07	142.44	DC	9.04

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS T LOADING %	POST PROJECTIONS T LOADING %	ACDC	MW IMPACT
168390390	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	3144356SAPONY230940480AE2-033TAP 2301	single	375.059997559	120.92	121.95	DC	3.86
168390192	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	Base Case	single	203.979995728	112.63	114.09	DC	2.99
163180485	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P7-1: LN 181-2027	tower	809.0	137.6	138.82	DC	9.88
168390273	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	3143336POWHA TN 230933500AC2-165TAP 2301	single	661.760009766	142.97	144.46	DC	9.88
174009767	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P4-2: 202712	breaker	809.0	137.55	138.77	DC	9.88
174009840	314267	3CHASCTY2	115.0	DVP	314681	3CHASCTY	115.0	DVP	Z1	DVP_P4-2: 1T158	breaker	582.0	104.75	109.62	DC	28.34
174405570	314267	3CHASCTY2	115.0	DVP	314669	3BARN SJ	115.0	DVP	1	DVP_P4-2: 15832	breaker	406.0	116.02	119.58	DC	14.5
174405571	314267	3CHASCTY2	115.0	DVP	314669	3BARN SJ	115.0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	406.0	114.31	117.85	DC	14.44
168957456	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 68-A	single	239.888000488	119.51	121.03	DC	3.67
174208394	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P4-2: L5T68	breaker	288.600006104	147.11	147.68	DC	3.67
168957401	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2201	single	182.641998291	196.99	199.77	DC	5.08
168957403	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	176.81401062	136.08	138.96	DC	5.11
168390468	314563	6CLUBHSE	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	3144356SAPONY230940480AE2-033TAP 2301	single	375.059997559	104.01	105.05	DC	3.88
174405572	314669	3BARN SJ	115.0	DVP	962560	AG1-105 TAP	115.0	DVP	1	DVP_P4-2: 15832	breaker	406.0	115.15	118.72	DC	14.5
174405573	314669	3BARN SJ	115.0	DVP	962560	AG1-105 TAP	115.0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	406.0	113.44	116.99	DC	14.44
174208480	314675	3BRODNA X	115.0	DVP	314676	3BRUNWICK	115.0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	104.71	107.07	DC	9.45
174405605	314675	3BRODNA X	115.0	DVP	314676	3BRUNWICK	115.0	DVP	1	DVP_P4-2: 15832	breaker	400.0	104.17	106.53	DC	9.42
174208465	314676	3BRUNWICK	115.0	DVP	314704	3LAWRENC	115.0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	104.7	107.07	DC	9.45
174405591	314676	3BRUNWICK	115.0	DVP	314704	3LAWRENC	115.0	DVP	1	DVP_P4-2: 15832	breaker	400.0	104.16	106.52	DC	9.42
169149542	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	single	571.520019531	111.83	114.02	DC	12.51

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 D C	MW IMPA CT
174009718	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P4-2: 556T591	break er	699.0	210.54	212.72	DC	15.3
175031650	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	571.520019531	191.65	194.32	DC	15.28
173824587	314679	3CENTRAL	115.0	DVP	936480	AD2-063 TAP	115.0	DVP	1	DVP_P4-2: 8442	break er	349.0	137.41	151.42	DC	48.91
174829424	314679	3CENTRAL	115.0	DVP	936480	AD2-063 TAP	115.0	DVP	1	DVP_P1-2: LN 84	single	269.779998779	110.8	128.93	DC	48.91
174208481	314681	3CHASCTY	115.0	DVP	314708	3NORVIEW	115.0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	112.77	115.14	DC	9.45
169149497	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P1-2: LN 235-A	single	182.641998291	232.06	240.94	DC	16.22
169149500	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	Base Case	single	176.81401062	137.19	143.12	DC	10.48
174009706	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P4-6: CHASE C T342	break er	208.699996948	381.8	394.78	DC	27.08
174009707	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P4-6: CHASE C T342	break er	221.399993896	289.87	299.72	DC	21.81
175031619	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 298-B	single	198.057998657	149.89	157.08	DC	14.23
174009717	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	DVP_P4-2: 556T591	break er	684.0	214.24	216.47	DC	15.3
175031635	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	559.299987793	192.56	195.29	DC	15.29
175031637	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	Base Case	single	559.299987793	111.55	113.78	DC	12.51
174208467	314693	3FRMAND	115.0	DVP	314565	3CLUBHSE71	115.0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	104.09	106.45	DC	9.45
174405595	314693	3FRMAND	115.0	DVP	314565	3CLUBHSE71	115.0	DVP	1	DVP_P4-2: 15832	break er	400.0	103.55	105.9	DC	9.42
175839443	314694	3GRIT	115.0	DVP	314712	3OTTER R	115.0	DVP	1	DVP_P1-2: LN 556-B-C	single	285.760009766	111.86	113.07	DC	3.46
175839444	314694	3GRIT	115.0	DVP	314712	3OTTER R	115.0	DVP	1	DVP_P1-2: LN 556-B-A	single	285.760009766	111.9	113.11	DC	3.46
169149583	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.055999756	107.29	110.5	DC	8.2
175228127	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-C	single	674.91998291	167.27	168.96	DC	11.38
175839367	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	674.91998291	167.39	169.08	DC	11.38
168390187	314701	3LONEPN	115.0	DVP	313755	3FLAT CREEK	115.0	DVP	1	Base Case	single	203.979995728	112.63	114.09	DC	2.99
163601749	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-6: CAROLIN T122	break er	199.0	172.54	176.36	DC	7.71
163601750	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 13002	break er	199.0	144.83	146.36	DC	6.73

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS LOAD %	POST PROJECTIONS LOAD %	ACDC	MW IMPACT
163601962	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P1-2: LN 90	single	199.0	107.15	110.32	DC	6.32
163602624	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P7-1: LN 22-90	tower	199.0	172.86	176.63	DC	7.62
169149692	314702	3KERR	115.0	DVP	314673	3PALMERSPRNG	115.0	DVP	1	DVP_P1-2: LN 45	single	138.179992676	115.47	118.49	DC	4.18
174208463	314704	3LAWRENC	115.0	DVP	314693	3FRMAN D	115.0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	104.94	107.3	DC	9.45
169149536	314707	3MORAN	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	single	203.979995728	109.2	110.66	DC	2.99
174208483	314708	3NORVIE W	115.0	DVP	314721	3SO HILL	115.0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	112.0	114.36	DC	9.45
174405640	314712	3OTTER R	115.0	DVP	314666	3ALTVSTA	115.0	DVP	1	DVP_P4-2: 556T591	breaker	342.0	113.42	113.88	DC	3.46
174405641	314712	3OTTER R	115.0	DVP	314666	3ALTVSTA	115.0	DVP	1	DVP_P4-2: 511T556	breaker	342.0	113.42	113.88	DC	3.46
175839433	314712	3OTTER R	115.0	DVP	314666	3ALTVSTA	115.0	DVP	1	DVP_P1-2: LN 556-B-C	single	269.779998779	111.15	112.43	DC	3.46
175839434	314712	3OTTER R	115.0	DVP	314666	3ALTVSTA	115.0	DVP	1	DVP_P1-2: LN 556-B-A	single	269.779998779	111.19	112.47	DC	3.46
174009738	314715	3MADSON V	115.0	DVP	314713	3PAMPLIN	115.0	DVP	1	DVP_P4-6: CHASE CT342	breaker	406.0	139.28	151.32	DC	48.91
174208476	314721	3SO HILL	115.0	DVP	943910	AF1-059 TAP	115.0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	105.75	108.11	DC	9.45
169149505	314726	3WILLIS	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	single	186.119995117	127.55	136.11	DC	15.94
163180470	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	DVP_P7-1: LN 181-2027	tower	809.0	139.37	140.59	DC	9.88
169367847	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	145.13	146.63	DC	9.88
169367864	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	single	269.779998779	134.93	136.57	DC	4.43
174009763	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	DVP_P4-2: 202712	breaker	809.0	139.32	140.54	DC	9.88
169367837	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	144.95	146.31	DC	9.04
166917915	316115	AC1-105 TAP	115.0	DVP	314696	3SEGE HILL	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	103.26	105.7	DC	9.93
174009799	316115	AC1-105 TAP	115.0	DVP	314696	3SEGE HILL	115.0	DVP	1	DVP_P4-2: 3612	breaker	406.0	100.97	105.67	DC	19.13

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS LOAD %	POST PROJECTIONS LOAD %	ACDC	MW IMPACT
173396590	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-B-C	single	718.0	169.2	170.79	DC	11.38
173396591	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-B-B	single	718.0	169.3	170.89	DC	11.38
171454275	934620	AD1-088 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	111.97	114.24	DC	15.88
174009766	934620	AD1-088 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P4-2: 219322	breaker	699.0	111.97	114.24	DC	15.88
164018647	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	125.43	135.25	DC	34.29
164018648	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P2-2: BREMO B4	bus	349.0	115.73	125.19	DC	32.99
166917911	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P7-1: LN 181-2027	tower	349.0	118.53	128.01	DC	33.09
166917912	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P7-1: LN 5-2028-A	tower	349.0	117.5	127.01	DC	33.21
169613403	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P1-2: LN 154-A	single	269.779998779	106.78	124.91	DC	48.91
169613404	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	Base Case	single	247.220001221	105.73	119.07	DC	32.97
172904218	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P7-1: LN 5-2028-B	tower	349.0	117.5	127.01	DC	33.21
172904220	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P7-1: LN 5-2028-D	tower	349.0	117.5	127.01	DC	33.21
172904221	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	349.0	117.5	127.01	DC	33.21
175839438	942750	AE2-291 TAP	115.0	DVP	314694	3GRIT	115.0	DVP	1	DVP_P1-2: LN 556-B-C	single	285.760009766	112.91	114.12	DC	3.46
175839439	942750	AE2-291 TAP	115.0	DVP	314694	3GRIT	115.0	DVP	1	DVP_P1-2: LN 556-B-A	single	285.760009766	112.95	114.16	DC	3.46
174208478	943910	AF1-059 TAP	115.0	DVP	314675	3BRODNAX	115.0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	105.31	107.67	DC	9.45
174405603	943910	AF1-059 TAP	115.0	DVP	314675	3BRODNAX	115.0	DVP	1	DVP_P4-2: 15832	breaker	400.0	104.77	107.13	DC	9.42
175031695	961060	AF2-397 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	148.47	149.84	DC	9.04
172903708	965590	AG1-427 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	123.79	133.61	DC	34.29
172903709	965590	AG1-427 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P2-2: BREMO B4	bus	349.0	115.73	125.19	DC	32.99

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
172904165	965590	AG1-427 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P7-1: LN 181-2027	tower	349.0	118.53	128.01	DC	33.09
172904166	965590	AG1-427 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P7-1: LN 5-2028-B	tower	349.0	117.5	127.01	DC	33.21
172904167	965590	AG1-427 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P7-1: LN 5-2028-D	tower	349.0	117.5	127.01	DC	33.21
172904168	965590	AG1-427 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	349.0	117.5	127.01	DC	33.21
172904169	965590	AG1-427 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P7-1: LN 5-2028-A	tower	349.0	117.5	127.01	DC	33.21
174829410	965590	AG1-427 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	DVP_P1-2: LN 154-A	single	269.779998779	106.75	124.88	DC	48.91
174829411	965590	AG1-427 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	Base Case	single	247.220001221	105.73	119.07	DC	32.97
174009716	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P4-2: 511T556	breaker	684.0	214.22	216.45	DC	15.3
175031643	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	559.299987793	192.56	195.29	DC	15.29
175031645	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	single	559.299987793	111.55	113.78	DC	12.51

13.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168134640	242620	05DANVL2	138.0	AEP	242631	05EDAN 1	138.0	AEP	1	Base Case	operation	275.0	102.64	103.62	DC	5.09
168134438	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	operation	275.0	132.29	132.74	DC	2.76
168390249	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	169.05	170.42	DC	9.04
168390253	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	Base Case	operation	661.760009766	113.13	114.2	DC	7.03

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168390497	313708	3FORK UNION	115.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P1-2: LN 2193	operation	269.779998779	108.4	108.86	DC	2.76
175031749	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	571.520019531	168.55	169.13	DC	6.18
175228260	313825	3PLYWOOD	115.0	DVP	314696	3SEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 33-A	operation	141.0	111.57	113.52	DC	6.09
168390271	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	167.9	169.39	DC	9.88
168390275	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	Base Case	operation	661.760009766	115.52	116.68	DC	7.68
168692903	314267	3CHASCTY 2	115.0	DVP	314681	3CHASCTY	115.0	DVP	Z1	DVP_P1-2: LN 158	operation	449.320007324	130.99	137.3	DC	28.34
175031754	314267	3CHASCTY 2	115.0	DVP	314681	3CHASCTY	115.0	DVP	Z1	Base Case	operation	411.720001221	92.49	100.23	DC	31.89
175433379	314267	3CHASCTY 2	115.0	DVP	314669	3BARNES J	115.0	DVP	1	DVP_P1-2: LN 158	operation	331.820007324	97.19	100.01	DC	9.38
175031747	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	571.520019531	168.59	169.16	DC	6.18
175031770	314268	6BRIERY	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 298-A	operation	571.520019531	116.1	118.88	DC	15.89
168957453	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 68-A	operation	239.888000488	161.04	161.73	DC	3.67
168957455	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	Base Case	operation	226.539993286	119.28	119.95	DC	3.37
168957399	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2201	operation	182.641998291	242.98	244.23	DC	5.08
168957400	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operation	176.81401062	182.35	185.24	DC	5.11
168390466	314563	6CLUBHSE	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	3144356SAPONY 230 940480 AE2-033 TAP 230 1	operation	375.059997559	147.6	148.06	DC	3.88
168957639	314563	6CLUBHSE	230.0	DVP	314562	3CLUBHSE	115.0	DVP	1	DVP_P1-2: LN 238-A	operation	182.641998291	130.87	132.94	DC	7.14
169149795	314675	3BRODNA X	115.0	DVP	314676	3BRUNWICK	115.0	DVP	1	DVP_P1-2: LN 158	operation	299.859985352	105.4	107.49	DC	6.25
169149541	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	operation	571.520019531	155.81	158.0	DC	12.51
175031649	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	571.520019531	255.56	258.23	DC	15.28
174829422	314679	3CENTRAL	115.0	DVP	936480	AD2-063 TAP	115.0	DVP	1	DVP_P1-2: LN 84	operation	269.779998779	173.5	191.63	DC	48.91
174829423	314679	3CENTRAL	115.0	DVP	936480	AD2-063 TAP	115.0	DVP	1	Base Case	operation	247.220001221	113.76	127.1	DC	32.97
174829532	314679	3CENTRAL	115.0	DVP	314722	3TWITTYS	115.0	DVP	1	DVP_P1-2: LN 1012-E-1	operation	269.779998779	91.66	109.79	DC	48.91
169149831	314681	3CHASCTY	115.0	DVP	314708	3NORVIEW	115.0	DVP	1	DVP_P1-2: LN 158	operation	326.179992676	107.9	109.82	DC	6.25

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
175228235	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	DVP_P1-2: LN 158	operation	331.820007324	110.79	113.62	DC	9.38
175031759	314686	6CLOVER	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	571.520019531	144.8	145.37	DC	6.18
169149495	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P1-2: LN 235-A	operation	182.641998291	357.79	366.65	DC	16.22
169149498	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	Base Case	operation	176.81401062	220.08	226.01	DC	10.48
169149509	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	Base Case	operation	193.734008789	161.76	166.12	DC	8.44
175031618	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 298-B	operation	198.057998657	258.02	265.2	DC	14.23
175031634	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	559.299987793	262.69	265.42	DC	15.29
175031636	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	Base Case	operation	559.299987793	155.42	157.66	DC	12.51
175839441	314694	3GRIT	115.0	DVP	314712	3OTTER R	115.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	285.760009766	141.8	142.34	DC	3.46
169149566	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 31-A	operation	226.727996826	155.56	158.19	DC	5.99
169149568	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	Base Case	operation	223.531997681	110.28	111.27	DC	4.88
169149581	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	operation	256.055999756	171.62	174.81	DC	8.2
169149547	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	Base Case	operation	509.480010986	110.23	111.5	DC	6.45
175228126	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	674.91998291	221.73	223.41	DC	11.38
163601957	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P1-2: LN 90	operation	199.0	138.11	141.27	DC	6.32
163601958	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	Base Case	operation	191.0	131.23	134.12	DC	5.57
169149689	314702	3KERR	115.0	DVP	314673	3PALMERSP RNG	115.0	DVP	1	DVP_P1-2: LN 45	operation	138.179992676	133.25	134.61	DC	4.18
169149834	314708	3NORVIE W	115.0	DVP	314721	3SO HILL	115.0	DVP	1	DVP_P1-2: LN 158	operation	326.179992676	106.95	108.87	DC	6.25
175839431	314712	3OTTER R	115.0	DVP	314666	3ALTVSTA	115.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	269.779998779	142.86	143.43	DC	3.46
174829613	314714	3PERTH	115.0	DVP	942750	AE2-291 TAP	115.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	285.760009766	101.63	102.17	DC	3.46
169149824	314721	3SO HILL	115.0	DVP	943910	AF1-059 TAP	115.0	DVP	1	DVP_P1-2: LN 158	operation	299.859985352	108.0	110.09	DC	6.25
169149681	314722	3TWITTYS	115.0	DVP	314679	3CENTRAL	115.0	DVP	1	Base Case	operation	247.220001221	91.08	102.94	DC	29.34
169149503	314726	3WILLIS	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	operation	186.119995117	182.99	191.55	DC	15.94
169367845	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	170.06	171.55	DC	9.88
169367849	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	Base Case	operation	661.760009766	117.68	118.84	DC	7.68

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169367863	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	operation	269.779998779	161.94	162.68	DC	4.43
169367835	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	170.27	171.64	DC	9.04
169367839	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	Base Case	operation	661.760009766	115.59	116.65	DC	7.03
169367881	316115	AC1-105 TAP	115.0	DVP	314696	3SEGE HILL	115.0	DVP	1	Base Case	operation	331.820007324	101.59	104.22	DC	8.72
163601921	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	Base Case	operation	542.0	122.07	123.26	DC	6.45
173396585	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-B-C	operation	718.0	225.42	227.0	DC	11.38
175031718	934620	AD1-088 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P1-2: LN 298-A	operation	571.520019531	132.53	135.31	DC	15.89
175031743	934620	AD1-088 TAP	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	571.520019531	153.42	153.99	DC	6.18
169613401	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	Base Case	operation	247.220001221	162.46	175.79	DC	32.97
175839436	942750	AE2-291 TAP	115.0	DVP	314694	3GRIT	115.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	285.760009766	142.85	143.39	DC	3.46
169149788	943910	AF1-059 TAP	115.0	DVP	314675	3BRODNAX	115.0	DVP	1	DVP_P1-2: LN 158	operation	299.859985352	106.21	108.29	DC	6.25
174829451	959310	AF2-222 TAP	115.0	DVP	314715	3MADSONV	115.0	DVP	1	DVP_P1-2: LN 1012-E-1	operation	331.820007324	126.62	141.36	DC	48.91
175031694	961060	AF2-397 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	177.88	179.25	DC	9.04
175031696	961060	AF2-397 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	Base Case	operation	661.760009766	119.04	120.1	DC	7.03
175433302	962560	AG1-105 TAP	115.0	DVP	314684	3MT LREL	115.0	DVP	1	DVP_P1-2: LN 158	operation	331.820007324	112.59	115.41	DC	9.38
175031737	964840	AG1-347 TAP	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	571.520019531	153.42	153.99	DC	6.18
175031741	964840	AG1-347 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P1-2: LN 298-A	operation	571.520019531	116.11	118.89	DC	15.89
174829409	965590	AG1-427 TAP	115.0	DVP	314681	3CHASCTY	115.0	DVP	1	Base Case	operation	247.220001221	162.46	175.79	DC	32.97
175031642	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	559.299987793	258.8	261.53	DC	15.29
175031644	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	operation	559.299987793	155.42	157.65	DC	12.51

13.5 Flow Gate Details - Secondary POI

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

13.5.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
174829452	959310	AF2-222 TAP	DVP	314715	3MADSONV	DVP	1	DVP_P1-2: LN 1012-E-1	single	331.82	86.79	101.53	DC	48.91

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 O2	101.0849	80/20	101.0849
963361	AG1-185 O2	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

13.5.2 Index 2

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174208508	314268	6BRIERY	DVP	964840	AG1-347 TAP	DVP	1	DVP_P4-2: 210622	breaker	699.0	98.55	100.82	DC	15.88

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	1.6096	50/50	1.6096
314713	3PAMPLIN	4.9033	50/50	4.9033
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	4.7609	50/50	4.7609
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	1.7383	50/50	1.7383
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0632	50/50	5.0632
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0230	50/50	3.0230
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	19.5486	50/50	19.5486
938372	AE1-056 E	10.6812	50/50	10.6812
939181	AE1-148 C	6.9525	50/50	6.9525

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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	37.3446	50/50	37.3446
942462	AE2-259 E O1	24.8964	50/50	24.8964
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7346	50/50	11.7346
946302	AF1-294 E	7.8231	50/50	7.8231
958211	AF2-115 C	6.9027	50/50	6.9027
958212	AF2-115 E	4.6018	50/50	4.6018
958801	AF2-171 C	41.2011	50/50	41.2011
958802	AF2-171 E	27.4674	50/50	27.4674
959311	AF2-222 C	35.5040	50/50	35.5040
959312	AF2-222 E	23.7877	50/50	23.7877
961791	AG1-021 C	5.5222	50/50	5.5222
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5651	50/50	37.5651
961892	AG1-030 E	25.0434	50/50	25.0434
962041	AG1-048 C	34.5135	50/50	34.5135
962042	AG1-048 E	23.0090	50/50	23.0090
962491	AG1-098 C O2	16.6673	50/50	16.6673
962492	AG1-098 E O2	11.1115	50/50	11.1115
962561	AG1-105 C O2	6.7818	50/50	6.7818
962562	AG1-105 E O2	4.5212	50/50	4.5212
963171	AG1-166 C	5.5222	50/50	5.5222
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5222	50/50	5.5222
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5222	50/50	5.5222
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5222	50/50	5.5222
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5222	50/50	5.5222
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O2	72.3655	50/50	72.3655
963272	AG1-176 E O2	48.2436	50/50	48.2436
963321	AG1-181 C O2	32.8199	50/50	32.8199
963361	AG1-185 O2	15.8791	50/50	15.8791
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8655	50/50	3.8655
964111	AG1-272 C	5.2047	50/50	5.2047
964112	AG1-272 E	1.5459	50/50	1.5459
964121	AG1-273 C	5.2047	50/50	5.2047
964122	AG1-273 E	1.5459	50/50	1.5459
964131	AG1-274 C	5.2047	50/50	5.2047
964132	AG1-274 E	1.5459	50/50	1.5459
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679
964843	AG1-347 BAT	2.5358	50/50	2.5358
964931	AG1-357 C O2	29.6676	50/50	29.6676
964932	AG1-357 E O2	19.7784	50/50	19.7784
965191	AG1-384 C	5.2047	50/50	5.2047

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965192	AG1-384 E	1.5459	50/50	1.5459
965281	AG1-393 C	5.5222	50/50	5.5222
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O2	5.5753	50/50	5.5753
965452	AG1-413 E O2	3.7169	50/50	3.7169
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O2	74.6892	50/50	74.6892
965642	AG1-432 E O2	49.7928	50/50	49.7928
965831	AG1-451	12.4482	50/50	12.4482
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	9.0684	50/50	9.0684
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	6.0456	50/50	6.0456
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

13.5.3 Index 3

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174009799	316115	AC1-105 TAP	DVP	314696	3SEGE HILL	DVP	1	DVP_P4-2: 3612	breaker	406.0	100.97	105.67	DC	19.13

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	1.1660	50/50	1.1660
313853	3PONTONDP	0.8336	50/50	0.8336
314429	3JTRSVLE	0.5261	50/50	0.5261
315160	1KERR 3	0.7605	50/50	0.7605
315161	1KERR 4	0.7605	50/50	0.7605
315162	1KERR 5	0.7605	50/50	0.7605
315163	1KERR 6	0.7605	50/50	0.7605
315164	1KERR 7	0.7605	50/50	0.7605
316118	AC1-105 C	27.6435	50/50	27.6435
316131	AB2-060 C	3.2970	50/50	3.2970
924022	AB2-043 E O1	6.6084	50/50	6.6084
924162	AB2-060 E OP	9.8342	50/50	9.8342
925611	AC1-036 C	0.5306	50/50	0.5306
925612	AC1-036 E	2.0138	50/50	2.0138
926274	AC1-105 E	13.5814	50/50	13.5814
927261	AC1-222 C	-1.6635	Adder	-1.96
934311	AD1-055 C	-1.1550	Adder	-1.36
936265	AD2-033 C	24.3032	50/50	24.3032
936266	AD2-033 E	16.2022	50/50	16.2022
936361	AD2-046 C O1	5.3460	Adder	6.29
936362	AD2-046 E O1	2.4584	Adder	2.89
936485	AD2-063 C	35.1927	50/50	35.1927
936486	AD2-063 E	23.4618	50/50	23.4618
939181	AE1-148 C	9.1708	50/50	9.1708
939182	AE1-148 E	6.1139	50/50	6.1139
940661	AE2-053 O1	3.3966	50/50	3.3966
942451	AE2-258	5.5135	50/50	5.5135
943901	AF1-058 C	-0.9393	Adder	-1.11
946301	AF1-294 C	5.3145	50/50	5.3145
946302	AF1-294 E	3.5430	50/50	3.5430
958211	AF2-115 C	3.1262	50/50	3.1262
958212	AF2-115 E	2.0841	50/50	2.0841
961791	AG1-021 C	2.5009	50/50	2.5009
961792	AG1-021 E	1.6673	50/50	1.6673
961891	AG1-030 C	21.4002	50/50	21.4002
961892	AG1-030 E	14.2668	50/50	14.2668
962041	AG1-048 C	15.6307	50/50	15.6307
962042	AG1-048 E	10.4205	50/50	10.4205
962491	AG1-098 C O2	27.8820	50/50	27.8820
962492	AG1-098 E O2	18.5880	50/50	18.5880
962561	AG1-105 C O2	38.7348	50/50	38.7348
962562	AG1-105 E O2	25.8232	50/50	25.8232

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963171	AG1-166 C	2.5009	50/50	2.5009
963172	AG1-166 E	1.6673	50/50	1.6673
963181	AG1-167 C	2.5009	50/50	2.5009
963182	AG1-167 E	1.6673	50/50	1.6673
963191	AG1-168 C	2.5009	50/50	2.5009
963192	AG1-168 E	1.6673	50/50	1.6673
963201	AG1-169 C	2.5009	50/50	2.5009
963202	AG1-169 E	1.6673	50/50	1.6673
963211	AG1-170 C	2.5009	50/50	2.5009
963212	AG1-170 E	1.6673	50/50	1.6673
963321	AG1-181 C O2	39.5292	50/50	39.5292
963361	AG1-185 O2	19.1253	50/50	19.1253
963641	AG1-215 C	1.1671	50/50	1.1671
963642	AG1-215 E	1.7506	50/50	1.7506
964111	AG1-272 C	6.0297	50/50	6.0297
964112	AG1-272 E	1.7909	50/50	1.7909
964121	AG1-273 C	6.0297	50/50	6.0297
964122	AG1-273 E	1.7909	50/50	1.7909
964131	AG1-274 C	6.0297	50/50	6.0297
964132	AG1-274 E	1.7909	50/50	1.7909
964791	AG1-342 C	17.4742	50/50	17.4742
964792	AG1-342 E	13.7297	50/50	13.7297
964821	AG1-345 C	1.0052	50/50	1.0052
964822	AG1-345 E	0.6701	50/50	0.6701
964931	AG1-357 C O2	42.5508	50/50	42.5508
964932	AG1-357 E O2	28.3672	50/50	28.3672
965191	AG1-384 C	6.0297	50/50	6.0297
965192	AG1-384 E	1.7909	50/50	1.7909
965281	AG1-393 C	2.5009	50/50	2.5009
965282	AG1-393 E	1.6673	50/50	1.6673
965591	AG1-427 C	27.8022	50/50	27.8022
965592	AG1-427 E	18.5739	50/50	18.5739
965721	AG1-440 C	2.0443	Adder	4.54
965722	AG1-440 E	1.3629	Adder	3.03
965731	AG1-441 C	2.0443	Adder	4.54
965732	AG1-441 E	1.3629	Adder	3.03
965771	AG1-445	1.1811	Adder	2.62
965781	AG1-446	1.1811	Adder	2.62
G-007A	G-007A	0.0791	Confirmed LTF	0.0791
VFT	VFT	0.2129	Confirmed LTF	0.2129
CALDERWOOD	CALDERWOOD	0.1049	Confirmed LTF	0.1049
PRAIRIE	PRAIRIE	0.4339	Confirmed LTF	0.4339
CHEOAH	CHEOAH	0.1061	Confirmed LTF	0.1061
CBM-N	CBM-N	0.0384	Confirmed LTF	0.0384
COTTONWOOD	COTTONWOOD	0.3969	Confirmed LTF	0.3969
HAMLET	HAMLET	0.1288	Confirmed LTF	0.1288
GIBSON	GIBSON	0.0857	Confirmed LTF	0.0857
BLUEG	BLUEG	0.2726	Confirmed LTF	0.2726
TRIMBLE	TRIMBLE	0.0874	Confirmed LTF	0.0874
CATAWBA	CATAWBA	0.0889	Confirmed LTF	0.0889

13.5.4 Index 4

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174009818	939180	AE1-148 TAP	DVP	314702	3KERR	DVP	1	DVP_P4-2: 3612	breaker	398.6	97.41	101.79	DC	17.46

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	1.0645	50/50	1.0645
313853	3PONTONDP	0.7831	50/50	0.7831
314429	3JTRSVLE	0.4942	50/50	0.4942
314713	3PAMPLIN	0.6079	Adder	0.72
316118	AC1-105 C	3.7084	50/50	3.7084
316129	AC1-054 C	-5.3447	Adder	-6.29
316131	AB2-060 C	3.0117	50/50	3.0117
924022	AB2-043 E O1	6.0330	50/50	6.0330
924162	AB2-060 E OP	8.9833	50/50	8.9833
925611	AC1-036 C	0.4844	50/50	0.4844
925612	AC1-036 E	1.8384	50/50	1.8384
926274	AC1-105 E	1.8220	50/50	1.8220
935222	AD1-157 E	0.3748	Adder	0.44
936265	AD2-033 C	22.3743	50/50	22.3743
936266	AD2-033 E	14.9162	50/50	14.9162
936485	AD2-063 C	32.1282	50/50	32.1282
936486	AD2-063 E	21.4188	50/50	21.4188
938371	AE1-056 C	2.4237	Adder	2.85
938372	AE1-056 E	1.3243	Adder	1.56
939181	AE1-148 C	38.0144	50/50	38.0144
939182	AE1-148 E	25.3429	50/50	25.3429
940661	AE2-053 O1	14.0794	50/50	14.0794
942451	AE2-258	5.0334	50/50	5.0334
942461	AE2-259 C O1	3.7480	Adder	4.41
942462	AE2-259 E O1	2.4987	Adder	2.94
946301	AF1-294 C	4.9924	50/50	4.9924
946302	AF1-294 E	3.3283	50/50	3.3283
958211	AF2-115 C	2.9367	50/50	2.9367
958212	AF2-115 E	1.9578	50/50	1.9578
958801	AF2-171 C	5.6220	Adder	6.61
958802	AF2-171 E	3.7480	Adder	4.41
959311	AF2-222 C	6.2458	Adder	7.35
959312	AF2-222 E	4.1847	Adder	4.92
961791	AG1-021 C	2.3494	50/50	2.3494
961792	AG1-021 E	1.5662	50/50	1.5662
961891	AG1-030 C	19.9539	50/50	19.9539
961892	AG1-030 E	13.3026	50/50	13.3026
962041	AG1-048 C	14.6835	50/50	14.6835
962042	AG1-048 E	9.7890	50/50	9.7890
962491	AG1-098 C O2	25.4977	50/50	25.4977
962492	AG1-098 E O2	16.9985	50/50	16.9985
962561	AG1-105 C O2	12.1302	50/50	12.1302

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962562	AG1-105 E O2	8.0868	50/50	8.0868
963171	AG1-166 C	2.3494	50/50	2.3494
963172	AG1-166 E	1.5662	50/50	1.5662
963181	AG1-167 C	2.3494	50/50	2.3494
963182	AG1-167 E	1.5662	50/50	1.5662
963191	AG1-168 C	2.3494	50/50	2.3494
963192	AG1-168 E	1.5662	50/50	1.5662
963201	AG1-169 C	2.3494	50/50	2.3494
963202	AG1-169 E	1.5662	50/50	1.5662
963211	AG1-170 C	2.3494	50/50	2.3494
963212	AG1-170 E	1.5662	50/50	1.5662
963321	AG1-181 C O2	36.0871	50/50	36.0871
963361	AG1-185 O2	17.4599	50/50	17.4599
963641	AG1-215 C	1.0964	50/50	1.0964
963642	AG1-215 E	1.6446	50/50	1.6446
964111	AG1-272 C	5.5046	50/50	5.5046
964112	AG1-272 E	1.6350	50/50	1.6350
964121	AG1-273 C	5.5046	50/50	5.5046
964122	AG1-273 E	1.6350	50/50	1.6350
964131	AG1-274 C	5.5046	50/50	5.5046
964132	AG1-274 E	1.6350	50/50	1.6350
964791	AG1-342 C	4.3616	50/50	4.3616
964792	AG1-342 E	3.4270	50/50	3.4270
964821	AG1-345 C	0.9440	50/50	0.9440
964822	AG1-345 E	0.6293	50/50	0.6293
964931	AG1-357 C O2	38.9784	50/50	38.9784
964932	AG1-357 E O2	25.9856	50/50	25.9856
965191	AG1-384 C	5.5046	50/50	5.5046
965192	AG1-384 E	1.6350	50/50	1.6350
965281	AG1-393 C	2.3494	50/50	2.3494
965282	AG1-393 E	1.5662	50/50	1.5662
965591	AG1-427 C	25.3813	50/50	25.3813
965592	AG1-427 E	16.9565	50/50	16.9565
965641	AG1-432 C O2	3.9729	Adder	8.82
965642	AG1-432 E O2	2.6486	Adder	5.88
965772	AG1-445 BAT	4.8012	50/50	4.8012
965782	AG1-446 BAT	4.8012	50/50	4.8012
965831	AG1-451	0.6621	Adder	1.47
966753	AG1-546 BAT	4.8929	50/50	4.8929
G-007A	G-007A	0.1439	Confirmed LTF	0.1439
VFT	VFT	0.3870	Confirmed LTF	0.3870
CALDERWOOD	CALDERWOOD	0.1059	Confirmed LTF	0.1059
PRAIRIE	PRAIRIE	0.2635	Confirmed LTF	0.2635
CHEOAH	CHEOAH	0.1101	Confirmed LTF	0.1101
CBM-N	CBM-N	0.0708	Confirmed LTF	0.0708
COTTONWOOD	COTTONWOOD	0.3696	Confirmed LTF	0.3696
HAMLET	HAMLET	0.3211	Confirmed LTF	0.3211
GIBSON	GIBSON	0.0349	Confirmed LTF	0.0349
BLUEG	BLUEG	0.0972	Confirmed LTF	0.0972
TRIMBLE	TRIMBLE	0.0306	Confirmed LTF	0.0306
CATAWBA	CATAWBA	0.1445	Confirmed LTF	0.1445

13.5.5 Index 5

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174208471	964840	AG1-347 TAP	DVP	934620	AD1-088 TAP	DVP	1	DVP_P4-2: 219322	breaker	699.0	98.56	100.83	DC	15.88

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	1.6096	50/50	1.6096
314713	3PAMPLIN	4.9033	50/50	4.9033
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	4.7609	50/50	4.7609
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	1.7383	50/50	1.7383
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0632	50/50	5.0632
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0230	50/50	3.0230
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	19.5486	50/50	19.5486
938372	AE1-056 E	10.6812	50/50	10.6812
939181	AE1-148 C	6.9525	50/50	6.9525

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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	37.3446	50/50	37.3446
942462	AE2-259 E O1	24.8964	50/50	24.8964
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7346	50/50	11.7346
946302	AF1-294 E	7.8231	50/50	7.8231
958211	AF2-115 C	6.9027	50/50	6.9027
958212	AF2-115 E	4.6018	50/50	4.6018
958801	AF2-171 C	41.2011	50/50	41.2011
958802	AF2-171 E	27.4674	50/50	27.4674
959311	AF2-222 C	35.5040	50/50	35.5040
959312	AF2-222 E	23.7877	50/50	23.7877
961791	AG1-021 C	5.5222	50/50	5.5222
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5651	50/50	37.5651
961892	AG1-030 E	25.0434	50/50	25.0434
962041	AG1-048 C	34.5135	50/50	34.5135
962042	AG1-048 E	23.0090	50/50	23.0090
962491	AG1-098 C O2	16.6673	50/50	16.6673
962492	AG1-098 E O2	11.1115	50/50	11.1115
962561	AG1-105 C O2	6.7818	50/50	6.7818
962562	AG1-105 E O2	4.5212	50/50	4.5212
963171	AG1-166 C	5.5222	50/50	5.5222
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5222	50/50	5.5222
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5222	50/50	5.5222
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5222	50/50	5.5222
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5222	50/50	5.5222
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O2	72.3655	50/50	72.3655
963272	AG1-176 E O2	48.2436	50/50	48.2436
963321	AG1-181 C O2	32.8199	50/50	32.8199
963361	AG1-185 O2	15.8791	50/50	15.8791
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8655	50/50	3.8655
964111	AG1-272 C	5.2047	50/50	5.2047
964112	AG1-272 E	1.5459	50/50	1.5459
964121	AG1-273 C	5.2047	50/50	5.2047
964122	AG1-273 E	1.5459	50/50	1.5459
964131	AG1-274 C	5.2047	50/50	5.2047
964132	AG1-274 E	1.5459	50/50	1.5459
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679
964841	AG1-347 C	48.8998	50/50	48.8998
964842	AG1-347 E	38.4212	50/50	38.4212
964931	AG1-357 C O2	29.6676	50/50	29.6676
964932	AG1-357 E O2	19.7784	50/50	19.7784

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965191	AG1-384 C	5.2047	50/50	5.2047
965192	AG1-384 E	1.5459	50/50	1.5459
965281	AG1-393 C	5.5222	50/50	5.5222
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O2	5.5753	50/50	5.5753
965452	AG1-413 E O2	3.7169	50/50	3.7169
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O2	74.6892	50/50	74.6892
965642	AG1-432 E O2	49.7928	50/50	49.7928
965831	AG1-451	12.4482	50/50	12.4482
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	9.0684	50/50	9.0684
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	6.0456	50/50	6.0456
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

13.5.6 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
168134441	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	Base Case	single	275.0	114.57	115.57	DC	2.76

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.1842	80/20	0.1842
313719	3CHESTNUT	0.4469	80/20	0.4469
314582	3KELFORD	0.1172	80/20	0.1172
314623	3WITAKRS	0.0865	80/20	0.0865
314704	3LAWRENC	0.0949	80/20	0.0949
315126	1ROARAP2	0.4438	80/20	0.4438
315128	1ROARAP4	0.4236	80/20	0.4236
315131	1EDGE CMA (Deactivation : 22/04/2019)	3.9075	80/20	3.9075
315132	1EDGE CMB (Deactivation : 22/04/2019)	3.9075	80/20	3.9075
315136	1ROSEMG1	0.6763	80/20	0.6763
315137	1ROSEMS1	0.4194	80/20	0.4194
315138	1ROSEMG2	0.3170	80/20	0.3170
315153	1CLOVER1	4.0233	80/20	4.0233
315154	1CLOVER2	3.9832	80/20	3.9832
315158	1KERR 1	0.1606	80/20	0.1606
315159	1KERR 2	0.4497	80/20	0.4497
315160	1KERR 3	0.4497	80/20	0.4497
315161	1KERR 4	0.4497	80/20	0.4497
315162	1KERR 5	0.4497	80/20	0.4497
315163	1KERR 6	0.4497	80/20	0.4497
315164	1KERR 7	0.4497	80/20	0.4497
315266	1PLYWOOD A	0.5013	80/20	0.5013
315601	1CONETOE2SOL	0.5282	80/20	0.5282
315606	3AA2-053SOLA	0.4777	80/20	0.4777
316020	AB2-059 C OP	0.7003	80/20	0.7003
316118	AC1-105 C	2.3764	80/20	2.3764
316123	AC1-075 C	0.3286	80/20	0.3286
316129	AC1-054 C	2.7848	80/20	2.7848
316131	AB2-060 C	0.5267	80/20	0.5267
920591	AA2-165 C	0.0600	80/20	0.0600
922922	AB1-081 C OP	0.5942	80/20	0.5942
924301	AB2-077 C O1 (Suspended)	0.7475	80/20	0.7475
924311	AB2-078 C O1 (Suspended)	0.7475	80/20	0.7475
924321	AB2-079 C O1 (Suspended)	0.7475	80/20	0.7475
925591	AC1-034 C	2.8749	80/20	2.8749
925611	AC1-036 C	0.0760	80/20	0.0760
926023	AC1-080 C	0.1098	80/20	0.1098
926051	AC1-083 C O1	4.8138	80/20	4.8138

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926070	AC1-086 C	5.7146	Adder	6.72
926201	AC1-098 C	2.2161	80/20	2.2161
926211	AC1-099 C	0.7426	80/20	0.7426
927024	AC1-189 C	3.2991	80/20	3.2991
927145	AC1-208 C	3.3345	80/20	3.3345
927251	AC1-221 C	1.5567	80/20	1.5567
927261	AC1-222 C	1.5377	80/20	1.5377
932631	AC2-084 C	3.1592	80/20	3.1592
932761	AC2-100 C	3.5824	80/20	3.5824
933941	AD1-017 C	0.9628	80/20	0.9628
934311	AD1-055 C	1.0677	80/20	1.0677
934331	AD1-057 C O1	3.7840	80/20	3.7840
934341	AD1-058 C	3.9023	80/20	3.9023
934615	AD1-087 C	2.5329	80/20	2.5329
934991	AD1-131 C	1.2794	80/20	1.2794
935171	AD1-152 C O1	2.7821	80/20	2.7821
936161	AD2-022 C O1	11.2746	80/20	11.2746
936171	AD2-023 C O1	6.5769	80/20	6.5769
936265	AD2-033 C	4.4546	80/20	4.4546
936361	AD2-046 C O1	3.6639	80/20	3.6639
936485	AD2-063 C	5.3595	80/20	5.3595
937481	AD2-202 C O1	0.7419	80/20	0.7419
939181	AE1-148 C	3.5991	80/20	3.5991
940081	AE1-250 C	16.2585	80/20	16.2585
940571	AE2-044 C	1.8830	80/20	1.8830
940661	AE2-053 O1	1.3330	80/20	1.3330
942451	AE2-258	0.8710	80/20	0.8710
943901	AF1-058 C	0.8486	80/20	0.8486
943911	AF1-059	5.6822	80/20	5.6822
944141	AF1-082	1.2105	80/20	1.2105
957861	AF2-080 C	2.9963	80/20	2.9963
959311	AF2-222 C	5.5290	80/20	5.5290
959511	AF2-242 C	2.4903	80/20	2.4903
959751	AF2-266	2.8880	80/20	2.8880
960061	AF2-297 C	3.3946	80/20	3.3946
961671	AG1-007 C	0.4947	80/20	0.4947
962441	AG1-093 C O2	6.2440	80/20	6.2440
962491	AG1-098 C O2	4.5480	80/20	4.5480
962561	AG1-105 C O2	3.9708	80/20	3.9708
962571	AG1-106 C	0.8423	Adder	1.87
963301	AG1-179 C	1.8691	80/20	1.8691
963311	AG1-180	0.9107	80/20	0.9107
963321	AG1-181 C O2	5.7126	80/20	5.7126
963361	AG1-185 O2	2.7639	80/20	2.7639
964111	AG1-272 C	0.8635	80/20	0.8635
964121	AG1-273 C	0.8635	80/20	0.8635
964131	AG1-274 C	0.8635	80/20	0.8635
964261	AG1-287 C	0.6365	80/20	0.6365
964471	AG1-310 C	0.8802	80/20	0.8802
964501	AG1-313 C O2	1.5006	80/20	1.5006
964791	AG1-342 C	1.6887	80/20	1.6887
964931	AG1-357 C O2	7.1568	80/20	7.1568

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965191	AG1-384 C	0.8635	80/20	0.8635
965451	AG1-413 C O2	2.4044	80/20	2.4044
965591	AG1-427 C	4.2717	80/20	4.2717
965601	AG1-428 C O2	1.5604	80/20	1.5604
965711	AG1-439 C O1	9.4755	80/20	9.4755
965721	AG1-440 C	2.9669	80/20	2.9669
965731	AG1-441 C	2.9669	80/20	2.9669
965761	AG1-444 O1	5.0536	80/20	5.0536
965771	AG1-445	1.7142	80/20	1.7142
965781	AG1-446	1.7142	80/20	1.7142
966751	AG1-546 C	6.0407	80/20	6.0407
966801	AG1-551 C	0.7983	80/20	0.7983
966811	AG1-552 C	0.7047	80/20	0.7047
CPL	CPL	5.1024	Confirmed LTF	5.1024
G-007A	G-007A	0.9734	Confirmed LTF	0.9734
VFT	VFT	2.5800	Confirmed LTF	2.5800
PRAIRIE	PRAIRIE	1.5575	Confirmed LTF	1.5575
TVA	TVA	0.1064	Confirmed LTF	0.1064
CBM-S2	CBM-S2	44.8085	Confirmed LTF	44.8085
CBM-N	CBM-N	0.4656	Confirmed LTF	0.4656
GIBSON	GIBSON	0.5635	Confirmed LTF	0.5635
BLUEG	BLUEG	2.0172	Confirmed LTF	2.0172
TRIMBLE	TRIMBLE	0.6572	Confirmed LTF	0.6572
LAGN	LAGN	0.3465	Confirmed LTF	0.3465
AA2-074	AA2-074	3.3570	LTF	3.3570

13.5.7 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
168390251	313707	6FORK UNION	DVP	961060	AF2-397 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	141.07	142.44	DC	9.04

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

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

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

13.5.8 Index 8

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168390390	313725	6DRY BREAD	DVP	314583	6LAKEVEW	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	375.06	120.92	121.95	DC	3.86

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
962271	AG1-075 C O2	70.3511	80/20	70.3511
962491	AG1-098 C O2	7.0140	80/20	7.0140
962561	AG1-105 C O2	3.7146	80/20	3.7146
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 O2	7.9861	80/20	7.9861
963361	AG1-185 O2	3.8639	80/20	3.8639
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
964791	AG1-342 C	1.3915	80/20	1.3915
964821	AG1-345 C	0.2871	80/20	0.2871
964931	AG1-357 C O2	10.7952	80/20	10.7952
965191	AG1-384 C	1.1898	80/20	1.1898
965281	AG1-393 C	0.7153	80/20	0.7153
965451	AG1-413 C O2	10.8299	80/20	10.8299
965591	AG1-427 C	6.5163	80/20	6.5163
965601	AG1-428 C O2	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

13.5.9 Index 9

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168390192	313755	3FLAT CREEK	DVP	314707	3MORAN	DVP	1	Base Case	single	203.98	112.63	114.09	DC	2.99

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
962491	AG1-098 C O2	13.4153	80/20	13.4153
962561	AG1-105 C O2	5.0280	80/20	5.0280
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 O2	6.1776	80/20	6.1776

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O2	2.9889	80/20	2.9889
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
964791	AG1-342 C	1.8711	80/20	1.8711
964821	AG1-345 C	2.6467	80/20	2.6467
964931	AG1-357 C O2	26.1900	80/20	26.1900
965191	AG1-384 C	0.8308	80/20	0.8308
965281	AG1-393 C	6.6444	80/20	6.6444
965451	AG1-413 C O2	3.9131	80/20	3.9131
965591	AG1-427 C	7.8857	80/20	7.8857
965601	AG1-428 C O2	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

13.5.10 Index 10

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168390273	313867	6BREMODIST	DVP	313707	6FORK UNION	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	142.97	144.46	DC	9.88

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

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

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

13.5.11 Index 11

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174009840	314267	3CHASCTY2	DVP	314681	3CHASCTY	DVP	Z1	DVP_P4-2: 1T158	breaker	582.0	104.75	109.62	DC	28.34

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	2.3425	50/50	2.3425
314429	3JTRSVLE	1.4783	50/50	1.4783
316118	AC1-105 C	6.3111	50/50	6.3111
316131	AB2-060 C	5.0263	50/50	5.0263
924162	AB2-060 E OP	14.9924	50/50	14.9924
926274	AC1-105 E	3.1007	50/50	3.1007
936265	AD2-033 C	45.6791	50/50	45.6791
936266	AD2-033 E	30.4528	50/50	30.4528
939181	AE1-148 C	6.8904	50/50	6.8904
939182	AE1-148 E	4.5936	50/50	4.5936
940661	AE2-053 O1	2.5520	50/50	2.5520
943912	AF1-059 BAT	26.0529	50/50	26.0529
946301	AF1-294 C	14.9336	50/50	14.9336
946302	AF1-294 E	9.9557	50/50	9.9557
958211	AF2-115 C	8.7845	50/50	8.7845
958212	AF2-115 E	5.8563	50/50	5.8563
961791	AG1-021 C	7.0276	50/50	7.0276
961792	AG1-021 E	4.6850	50/50	4.6850
961891	AG1-030 C	52.7067	50/50	52.7067
961892	AG1-030 E	35.1378	50/50	35.1378
962041	AG1-048 C	43.9222	50/50	43.9222
962042	AG1-048 E	29.2815	50/50	29.2815
962491	AG1-098 C O2	43.9230	50/50	43.9230
962492	AG1-098 E O2	29.2820	50/50	29.2820
962561	AG1-105 C O2	20.1456	50/50	20.1456
962562	AG1-105 E O2	13.4304	50/50	13.4304
963171	AG1-166 C	7.0276	50/50	7.0276
963172	AG1-166 E	4.6850	50/50	4.6850
963181	AG1-167 C	7.0276	50/50	7.0276
963182	AG1-167 E	4.6850	50/50	4.6850
963191	AG1-168 C	7.0276	50/50	7.0276
963192	AG1-168 E	4.6850	50/50	4.6850
963201	AG1-169 C	7.0276	50/50	7.0276
963202	AG1-169 E	4.6850	50/50	4.6850
963211	AG1-170 C	7.0276	50/50	7.0276
963212	AG1-170 E	4.6850	50/50	4.6850
963312	AG1-180 BAT	6.1161	50/50	6.1161
963362	AG1-185 BAT	28.3365	50/50	28.3365
964113	AG1-272 BAT	6.1024	50/50	6.1024
964123	AG1-273 BAT	6.1024	50/50	6.1024
964133	AG1-274 BAT	6.1024	50/50	6.1024
964791	AG1-342 C	7.2775	50/50	7.2775

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964792	AG1-342 E	5.7180	50/50	5.7180
964821	AG1-345 C	2.8110	50/50	2.8110
964822	AG1-345 E	1.8740	50/50	1.8740
964931	AG1-357 C O2	70.2756	50/50	70.2756
964932	AG1-357 E O2	46.8504	50/50	46.8504
965193	AG1-384 BAT	2.6149	50/50	2.6149
WEC	WEC	0.0529	Confirmed LTF	0.0529
LGEE	LGEE	0.1112	Confirmed LTF	0.1112
CPL	CPL	0.3467	Confirmed LTF	0.3467
CBM-W2	CBM-W2	1.9981	Confirmed LTF	1.9981
NY	NY	0.0503	Confirmed LTF	0.0503
TVA	TVA	0.3598	Confirmed LTF	0.3598
O-066	O-066	0.7336	Confirmed LTF	0.7336
SIGE	SIGE	0.0306	Confirmed LTF	0.0306
CBM-S2	CBM-S2	4.4683	Confirmed LTF	4.4683
CBM-S1	CBM-S1	0.0920	Confirmed LTF	0.0920
G-007	G-007	0.1155	Confirmed LTF	0.1155
MEC	MEC	0.2971	Confirmed LTF	0.2971
LAGN	LAGN	0.4410	Confirmed LTF	0.4410
CBM-W1	CBM-W1	2.2432	Confirmed LTF	2.2432

13.5.12 Index 12

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174405570	314267	3CHASCTY2	DVP	314669	3BARN S J	DVP	1	DVP_P4-2: 15832	breaker	406.0	116.02	119.58	DC	14.5

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

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

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

13.5.13 Index 13

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174208394	314559	3CAROLNA	DVP	314561	6CAROLNA	DVP	1	DVP_P4-2: L5T68	breaker	288.6	147.11	147.68	DC	3.67

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

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

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

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

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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
168957401	314562	3CLUBHSE	DVP	314563	6CLUBHSE	DVP	1	DVP_P1-2: LN 2201	single	182.64	196.99	199.77	DC	5.08

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168390468	314563	6CLUBHSE	DVP	313725	6DRY BREAD	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	375.06	104.01	105.05	DC	3.88

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	12.0630	80/20	12.0630
313527	AB2-043 C	0.2922	80/20	0.2922
314429	3JTRSVLE	0.1514	80/20	0.1514
314572	3EMPORIA	1.0956	80/20	1.0956
314704	3LAWRENC	0.6554	80/20	0.6554
315158	1KERR 1	0.1525	80/20	0.1525
315159	1KERR 2	0.4270	80/20	0.4270
315160	1KERR 3	0.4270	80/20	0.4270
315161	1KERR 4	0.4270	80/20	0.4270
315162	1KERR 5	0.4270	80/20	0.4270
315163	1KERR 6	0.4270	80/20	0.4270
315164	1KERR 7	0.4270	80/20	0.4270
316087	AB2-174 C	2.3168	80/20	2.3168
316129	AC1-054 C	2.5730	80/20	2.5730
316131	AB2-060 C	0.8277	80/20	0.8277
923991	AB2-040 C O1	13.1380	80/20	13.1380
924301	AB2-077 C O1 (Suspended)	1.1338	80/20	1.1338
924311	AB2-078 C O1 (Suspended)	1.1338	80/20	1.1338
924321	AB2-079 C O1 (Suspended)	1.1338	80/20	1.1338
925611	AC1-036 C	0.1052	80/20	0.1052
935221	AD1-157 C	0.0764	80/20	0.0764
936265	AD2-033 C	6.3476	80/20	6.3476
936361	AD2-046 C O1	3.8360	80/20	3.8360
936485	AD2-063 C	8.1081	80/20	8.1081
938371	AE1-056 C	2.0867	80/20	2.0867
939181	AE1-148 C	3.8394	80/20	3.8394
940481	AE2-033 C	67.2128	80/20	67.2128
940661	AE2-053 O1	1.4220	80/20	1.4220
942451	AE2-258	1.3815	80/20	1.3815
942471	AE2-260 C O1	62.4542	80/20	62.4542
943911	AF1-059	27.2988	80/20	27.2988
946011	AF1-266	56.2624	80/20	56.2624
946281	AF1-292 C	4.3964	80/20	4.3964
946301	AF1-294 C	1.5290	80/20	1.5290
958211	AF2-115 C	0.8994	80/20	0.8994
958801	AF2-171 C	5.4315	80/20	5.4315

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959311	AF2-222 C	7.5010	80/20	7.5010
960081	AF2-299 C	7.4097	80/20	7.4097
961791	AG1-021 C	0.7195	80/20	0.7195
961891	AG1-030 C	5.9454	80/20	5.9454
962041	AG1-048 C	4.4970	80/20	4.4970
962271	AG1-075 C O2	70.3846	80/20	70.3846
962491	AG1-098 C O2	7.0402	80/20	7.0402
962561	AG1-105 C O2	3.7356	80/20	3.7356
963171	AG1-166 C	0.7195	80/20	0.7195
963181	AG1-167 C	0.7195	80/20	0.7195
963191	AG1-168 C	0.7195	80/20	0.7195
963201	AG1-169 C	0.7195	80/20	0.7195
963211	AG1-170 C	0.7195	80/20	0.7195
963301	AG1-179 C	11.5851	80/20	11.5851
963311	AG1-180	5.6446	80/20	5.6446
963321	AG1-181 C O2	8.0215	80/20	8.0215
963361	AG1-185 O2	3.8810	80/20	3.8810
963641	AG1-215 C	0.3358	80/20	0.3358
964111	AG1-272 C	1.1952	80/20	1.1952
964121	AG1-273 C	1.1952	80/20	1.1952
964131	AG1-274 C	1.1952	80/20	1.1952
964791	AG1-342 C	1.4004	80/20	1.4004
964821	AG1-345 C	0.2888	80/20	0.2888
964931	AG1-357 C O2	10.8372	80/20	10.8372
965191	AG1-384 C	1.1952	80/20	1.1952
965281	AG1-393 C	0.7195	80/20	0.7195
965451	AG1-413 C O2	10.8445	80/20	10.8445
965591	AG1-427 C	6.5412	80/20	6.5412
965601	AG1-428 C O2	9.6715	80/20	9.6715
965721	AG1-440 C	2.7909	80/20	2.7909
965731	AG1-441 C	2.7909	80/20	2.7909
965771	AG1-445	1.6125	80/20	1.6125
965781	AG1-446	1.6125	80/20	1.6125
966621	AG1-532 C	4.0012	80/20	4.0012
966751	AG1-546 C	5.5585	80/20	5.5585
G-007A	G-007A	0.0168	Confirmed LTF	0.0168
VFT	VFT	0.0452	Confirmed LTF	0.0452
CALDERWOOD	CALDERWOOD	0.0447	Confirmed LTF	0.0447
PRAIRIE	PRAIRIE	0.1033	Confirmed LTF	0.1033
CHEOAH	CHEOAH	0.0465	Confirmed LTF	0.0465
CBM-N	CBM-N	0.0084	Confirmed LTF	0.0084
COTTONWOOD	COTTONWOOD	0.1617	Confirmed LTF	0.1617
HAMLET	HAMLET	0.1715	Confirmed LTF	0.1715
GIBSON	GIBSON	0.0120	Confirmed LTF	0.0120
BLUEG	BLUEG	0.0295	Confirmed LTF	0.0295
TRIMBLE	TRIMBLE	0.0095	Confirmed LTF	0.0095
CATAWBA	CATAWBA	0.0627	Confirmed LTF	0.0627

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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
174405572	314669	3BARNJ	DVP	962560	AG1-105 TAP	DVP	1	DVP_P4-2: 15832	breaker	406.0	115.15	118.72	DC	14.5

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942451	AE2-258	4.1791	50/50	4.1791
942461	AE2-259 C O1	17.7840	50/50	17.7840
942462	AE2-259 E O1	11.8560	50/50	11.8560
943901	AF1-058 C	-0.9624	Adder	-1.13
943911	AF1-059	19.5295	50/50	19.5295
946301	AF1-294 C	7.5664	50/50	7.5664
946302	AF1-294 E	5.0442	50/50	5.0442
958211	AF2-115 C	4.4508	50/50	4.4508
958212	AF2-115 E	2.9672	50/50	2.9672
958801	AF2-171 C	26.6760	50/50	26.6760
958802	AF2-171 E	17.7840	50/50	17.7840
959311	AF2-222 C	29.6400	50/50	29.6400
959312	AF2-222 E	19.8588	50/50	19.8588
961791	AG1-021 C	3.5606	50/50	3.5606
961792	AG1-021 E	2.3738	50/50	2.3738
961891	AG1-030 C	26.7048	50/50	26.7048
961892	AG1-030 E	17.8032	50/50	17.8032
962041	AG1-048 C	22.2540	50/50	22.2540
962042	AG1-048 E	14.8360	50/50	14.8360
962491	AG1-098 C O2	22.2533	50/50	22.2533
962492	AG1-098 E O2	14.8355	50/50	14.8355
963171	AG1-166 C	3.5606	50/50	3.5606
963172	AG1-166 E	2.3738	50/50	2.3738
963181	AG1-167 C	3.5606	50/50	3.5606
963182	AG1-167 E	2.3738	50/50	2.3738
963191	AG1-168 C	3.5606	50/50	3.5606
963192	AG1-168 E	2.3738	50/50	2.3738
963201	AG1-169 C	3.5606	50/50	3.5606
963202	AG1-169 E	2.3738	50/50	2.3738
963211	AG1-170 C	3.5606	50/50	3.5606
963212	AG1-170 E	2.3738	50/50	2.3738
963301	AG1-179 C	2.3977	Adder	5.32
963311	AG1-180	1.1682	Adder	2.59
963321	AG1-181 C O2	29.9631	50/50	29.9631
963361	AG1-185 O2	14.4969	50/50	14.4969
963641	AG1-215 C	1.6616	50/50	1.6616
963642	AG1-215 E	2.4924	50/50	2.4924
964111	AG1-272 C	4.5705	50/50	4.5705
964112	AG1-272 E	1.3575	50/50	1.3575
964121	AG1-273 C	4.5705	50/50	4.5705
964122	AG1-273 E	1.3575	50/50	1.3575
964131	AG1-274 C	4.5705	50/50	4.5705
964132	AG1-274 E	1.3575	50/50	1.3575
964793	AG1-342 BAT	3.1234	50/50	3.1234
964821	AG1-345 C	1.4243	50/50	1.4243
964822	AG1-345 E	0.9495	50/50	0.9495
964931	AG1-357 C O2	35.6052	50/50	35.6052
964932	AG1-357 E O2	23.7368	50/50	23.7368
965191	AG1-384 C	4.5705	50/50	4.5705
965192	AG1-384 E	1.3575	50/50	1.3575
965281	AG1-393 C	3.5606	50/50	3.5606
965282	AG1-393 E	2.3738	50/50	2.3738

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965451	AG1-413 C O2	8.5635	50/50	8.5635
965452	AG1-413 E O2	5.7090	50/50	5.7090
965591	AG1-427 C	21.0740	50/50	21.0740
965592	AG1-427 E	14.0790	50/50	14.0790
965601	AG1-428 C O2	2.0016	Adder	4.44
965602	AG1-428 E O2	1.3321	Adder	2.96
965641	AG1-432 C O2	35.5680	50/50	35.5680
965642	AG1-432 E O2	23.7120	50/50	23.7120
965721	AG1-440 C	2.9348	Adder	6.51
965722	AG1-440 E	1.9566	Adder	4.34
965731	AG1-441 C	2.9348	Adder	6.51
965732	AG1-441 E	1.9566	Adder	4.34
965771	AG1-445	1.6957	Adder	3.76
965781	AG1-446	1.6957	Adder	3.76
965831	AG1-451	5.9280	50/50	5.9280
966751	AG1-546 C	4.8055	Adder	10.67
966752	AG1-546 E	2.5785	Adder	5.72
CPL	CPL	0.1099	Confirmed LTF	0.1099
CALDERWOOD	CALDERWOOD	0.0457	Confirmed LTF	0.0457
NY	NY	0.0094	Confirmed LTF	0.0094
PRAIRIE	PRAIRIE	0.2893	Confirmed LTF	0.2893
O-066	O-066	0.0471	Confirmed LTF	0.0471
CBM-S2	CBM-S2	0.2192	Confirmed LTF	0.2192
CHEOAH	CHEOAH	0.0445	Confirmed LTF	0.0445
COTTONWOOD	COTTONWOOD	0.1932	Confirmed LTF	0.1932
G-007	G-007	0.0063	Confirmed LTF	0.0063
GIBSON	GIBSON	0.0672	Confirmed LTF	0.0672
BLUEG	BLUEG	0.2205	Confirmed LTF	0.2205
TRIMBLE	TRIMBLE	0.0707	Confirmed LTF	0.0707
CATAWBA	CATAWBA	0.0088	Confirmed LTF	0.0088

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174208480	314675	3BRODNAX	DVP	314676	3BRUNWICK	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	104.71	107.07	DC	9.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.0178	Adder	-3.55
313527	AB2-043 C	0.5764	50/50	0.5764
313853	3PONTONDP	0.7724	50/50	0.7724
314429	3JTRSVLE	0.4875	50/50	0.4875
314713	3PAMPLIN	1.8810	50/50	1.8810
316118	AC1-105 C	2.3366	Adder	2.75
316131	AB2-060 C	1.6574	50/50	1.6574
923991	AB2-040 C O1	-3.2867	Adder	-3.87
924022	AB2-043 E O1	3.2666	50/50	3.2666
924162	AB2-060 E OP	4.9436	50/50	4.9436
924301	AB2-077 C O1 (Suspended)	2.2213	50/50	2.2213
924302	AB2-077 E O1 (Suspended)	1.4809	50/50	1.4809
924311	AB2-078 C O1 (Suspended)	2.2213	50/50	2.2213
924312	AB2-078 E O1 (Suspended)	1.4809	50/50	1.4809
924321	AB2-079 C O1 (Suspended)	2.2213	50/50	2.2213
924322	AB2-079 E O1 (Suspended)	1.4809	50/50	1.4809
925611	AC1-036 C	0.2622	50/50	0.2622
925612	AC1-036 E	0.9954	50/50	0.9954
926274	AC1-105 E	1.1480	Adder	1.35
935221	AD1-157 C	0.2744	50/50	0.2744
935222	AD1-157 E	1.1597	50/50	1.1597
936265	AD2-033 C	15.0626	50/50	15.0626
936266	AD2-033 E	10.0417	50/50	10.0417
936361	AD2-046 C O1	6.3102	50/50	6.3102
936362	AD2-046 E O1	2.9018	50/50	2.9018
936485	AD2-063 C	17.3961	50/50	17.3961
936486	AD2-063 E	11.5974	50/50	11.5974
938371	AE1-056 C	7.4993	50/50	7.4993
938372	AE1-056 E	4.0975	50/50	4.0975
939181	AE1-148 C	6.3860	50/50	6.3860
939182	AE1-148 E	4.2574	50/50	4.2574
940661	AE2-053 O1	2.3652	50/50	2.3652
942451	AE2-258	2.7254	50/50	2.7254
942461	AE2-259 C O1	11.5968	50/50	11.5968
942462	AE2-259 E O1	7.7312	50/50	7.7312

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943911	AF1-059	48.7171	50/50	48.7171
946301	AF1-294 C	4.9243	50/50	4.9243
946302	AF1-294 E	3.2829	50/50	3.2829
958211	AF2-115 C	2.8967	50/50	2.8967
958212	AF2-115 E	1.9311	50/50	1.9311
958801	AF2-171 C	17.3952	50/50	17.3952
958802	AF2-171 E	11.5968	50/50	11.5968
959311	AF2-222 C	19.3280	50/50	19.3280
959312	AF2-222 E	12.9498	50/50	12.9498
961791	AG1-021 C	2.3173	50/50	2.3173
961792	AG1-021 E	1.5449	50/50	1.5449
961891	AG1-030 C	17.3799	50/50	17.3799
961892	AG1-030 E	11.5866	50/50	11.5866
962041	AG1-048 C	14.4833	50/50	14.4833
962042	AG1-048 E	9.6555	50/50	9.6555
962491	AG1-098 C O2	14.4833	50/50	14.4833
962492	AG1-098 E O2	9.6555	50/50	9.6555
962561	AG1-105 C O2	7.3638	50/50	7.3638
962562	AG1-105 E O2	4.9092	50/50	4.9092
963171	AG1-166 C	2.3173	50/50	2.3173
963172	AG1-166 E	1.5449	50/50	1.5449
963181	AG1-167 C	2.3173	50/50	2.3173
963182	AG1-167 E	1.5449	50/50	1.5449
963191	AG1-168 C	2.3173	50/50	2.3173
963192	AG1-168 E	1.5449	50/50	1.5449
963201	AG1-169 C	2.3173	50/50	2.3173
963202	AG1-169 E	1.5449	50/50	1.5449
963211	AG1-170 C	2.3173	50/50	2.3173
963212	AG1-170 E	1.5449	50/50	1.5449
963312	AG1-180 BAT	11.7888	50/50	11.7888
963321	AG1-181 C O2	19.5387	50/50	19.5387
963361	AG1-185 O2	9.4533	50/50	9.4533
963641	AG1-215 C	1.0814	50/50	1.0814
963642	AG1-215 E	1.6221	50/50	1.6221
964111	AG1-272 C	2.9804	50/50	2.9804
964112	AG1-272 E	0.8852	50/50	0.8852
964121	AG1-273 C	2.9804	50/50	2.9804
964122	AG1-273 E	0.8852	50/50	0.8852
964131	AG1-274 C	2.9804	50/50	2.9804
964132	AG1-274 E	0.8852	50/50	0.8852
964791	AG1-342 C	2.7594	50/50	2.7594
964792	AG1-342 E	2.1681	50/50	2.1681
964821	AG1-345 C	0.9269	50/50	0.9269
964822	AG1-345 E	0.6180	50/50	0.6180
964931	AG1-357 C O2	23.1732	50/50	23.1732
964932	AG1-357 E O2	15.4488	50/50	15.4488
965191	AG1-384 C	2.9804	50/50	2.9804
965192	AG1-384 E	0.8852	50/50	0.8852
965281	AG1-393 C	2.3173	50/50	2.3173
965282	AG1-393 E	1.5449	50/50	1.5449
965451	AG1-413 C O2	19.4189	50/50	19.4189
965452	AG1-413 E O2	12.9459	50/50	12.9459

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	13.7429	50/50	13.7429
965592	AG1-427 E	9.1813	50/50	9.1813
965641	AG1-432 C O2	23.1936	50/50	23.1936
965642	AG1-432 E O2	15.4624	50/50	15.4624
965721	AG1-440 C	1.6273	Adder	3.61
965722	AG1-440 E	1.0848	Adder	2.41
965731	AG1-441 C	1.6273	Adder	3.61
965732	AG1-441 E	1.0848	Adder	2.41
965771	AG1-445	0.9402	Adder	2.09
965781	AG1-446	0.9402	Adder	2.09
965831	AG1-451	3.8656	50/50	3.8656
WEC	WEC	0.0510	Confirmed LTF	0.0510
LGEE	LGEE	0.1068	Confirmed LTF	0.1068
CPL	CPL	0.3406	Confirmed LTF	0.3406
CBM-W2	CBM-W2	1.9085	Confirmed LTF	1.9085
NY	NY	0.0487	Confirmed LTF	0.0487
TVA	TVA	0.3430	Confirmed LTF	0.3430
O-066	O-066	0.7134	Confirmed LTF	0.7134
SIGE	SIGE	0.0295	Confirmed LTF	0.0295
CBM-S2	CBM-S2	4.3222	Confirmed LTF	4.3222
CBM-S1	CBM-S1	0.0882	Confirmed LTF	0.0882
G-007	G-007	0.1134	Confirmed LTF	0.1134
MEC	MEC	0.2860	Confirmed LTF	0.2860
LAGN	LAGN	0.4217	Confirmed LTF	0.4217
CBM-W1	CBM-W1	2.1591	Confirmed LTF	2.1591

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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
174208465	314676	3BRUNWICK	DVP	314704	3LAWRENC	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	104.7	107.07	DC	9.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.0178	Adder	-3.55
313527	AB2-043 C	0.5764	50/50	0.5764
313853	3PONTONDP	0.7724	50/50	0.7724
314429	3JTRSVLE	0.4875	50/50	0.4875
314713	3PAMPLIN	1.8810	50/50	1.8810
316118	AC1-105 C	2.3366	Adder	2.75
316131	AB2-060 C	1.6574	50/50	1.6574
923991	AB2-040 C O1	-3.2867	Adder	-3.87
924022	AB2-043 E O1	3.2666	50/50	3.2666
924162	AB2-060 E OP	4.9436	50/50	4.9436
924301	AB2-077 C O1 (Suspended)	2.2213	50/50	2.2213
924302	AB2-077 E O1 (Suspended)	1.4809	50/50	1.4809
924311	AB2-078 C O1 (Suspended)	2.2213	50/50	2.2213
924312	AB2-078 E O1 (Suspended)	1.4809	50/50	1.4809
924321	AB2-079 C O1 (Suspended)	2.2213	50/50	2.2213
924322	AB2-079 E O1 (Suspended)	1.4809	50/50	1.4809
925611	AC1-036 C	0.2622	50/50	0.2622
925612	AC1-036 E	0.9954	50/50	0.9954
926274	AC1-105 E	1.1480	Adder	1.35
935221	AD1-157 C	0.2744	50/50	0.2744
935222	AD1-157 E	1.1597	50/50	1.1597
936265	AD2-033 C	15.0626	50/50	15.0626
936266	AD2-033 E	10.0417	50/50	10.0417
936361	AD2-046 C O1	6.3102	50/50	6.3102
936362	AD2-046 E O1	2.9018	50/50	2.9018
936485	AD2-063 C	17.3961	50/50	17.3961
936486	AD2-063 E	11.5974	50/50	11.5974
938371	AE1-056 C	7.4993	50/50	7.4993
938372	AE1-056 E	4.0975	50/50	4.0975
939181	AE1-148 C	6.3860	50/50	6.3860
939182	AE1-148 E	4.2574	50/50	4.2574
940661	AE2-053 O1	2.3652	50/50	2.3652
942451	AE2-258	2.7254	50/50	2.7254
942461	AE2-259 C O1	11.5968	50/50	11.5968
942462	AE2-259 E O1	7.7312	50/50	7.7312

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943911	AF1-059	48.7171	50/50	48.7171
946301	AF1-294 C	4.9243	50/50	4.9243
946302	AF1-294 E	3.2829	50/50	3.2829
958211	AF2-115 C	2.8967	50/50	2.8967
958212	AF2-115 E	1.9311	50/50	1.9311
958801	AF2-171 C	17.3952	50/50	17.3952
958802	AF2-171 E	11.5968	50/50	11.5968
959311	AF2-222 C	19.3280	50/50	19.3280
959312	AF2-222 E	12.9498	50/50	12.9498
961791	AG1-021 C	2.3173	50/50	2.3173
961792	AG1-021 E	1.5449	50/50	1.5449
961891	AG1-030 C	17.3799	50/50	17.3799
961892	AG1-030 E	11.5866	50/50	11.5866
962041	AG1-048 C	14.4833	50/50	14.4833
962042	AG1-048 E	9.6555	50/50	9.6555
962491	AG1-098 C O2	14.4833	50/50	14.4833
962492	AG1-098 E O2	9.6555	50/50	9.6555
962561	AG1-105 C O2	7.3638	50/50	7.3638
962562	AG1-105 E O2	4.9092	50/50	4.9092
963171	AG1-166 C	2.3173	50/50	2.3173
963172	AG1-166 E	1.5449	50/50	1.5449
963181	AG1-167 C	2.3173	50/50	2.3173
963182	AG1-167 E	1.5449	50/50	1.5449
963191	AG1-168 C	2.3173	50/50	2.3173
963192	AG1-168 E	1.5449	50/50	1.5449
963201	AG1-169 C	2.3173	50/50	2.3173
963202	AG1-169 E	1.5449	50/50	1.5449
963211	AG1-170 C	2.3173	50/50	2.3173
963212	AG1-170 E	1.5449	50/50	1.5449
963301	AG1-179 C	20.4330	50/50	20.4330
963311	AG1-180	9.9555	50/50	9.9555
963321	AG1-181 C O2	19.5387	50/50	19.5387
963361	AG1-185 O2	9.4533	50/50	9.4533
963641	AG1-215 C	1.0814	50/50	1.0814
963642	AG1-215 E	1.6221	50/50	1.6221
964111	AG1-272 C	2.9804	50/50	2.9804
964112	AG1-272 E	0.8852	50/50	0.8852
964121	AG1-273 C	2.9804	50/50	2.9804
964122	AG1-273 E	0.8852	50/50	0.8852
964131	AG1-274 C	2.9804	50/50	2.9804
964132	AG1-274 E	0.8852	50/50	0.8852
964791	AG1-342 C	2.7594	50/50	2.7594
964792	AG1-342 E	2.1681	50/50	2.1681
964821	AG1-345 C	0.9269	50/50	0.9269
964822	AG1-345 E	0.6180	50/50	0.6180
964931	AG1-357 C O2	23.1732	50/50	23.1732
964932	AG1-357 E O2	15.4488	50/50	15.4488
965191	AG1-384 C	2.9804	50/50	2.9804
965192	AG1-384 E	0.8852	50/50	0.8852
965281	AG1-393 C	2.3173	50/50	2.3173
965282	AG1-393 E	1.5449	50/50	1.5449
965451	AG1-413 C O2	19.4189	50/50	19.4189

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965452	AG1-413 E O2	12.9459	50/50	12.9459
965591	AG1-427 C	13.7429	50/50	13.7429
965592	AG1-427 E	9.1813	50/50	9.1813
965601	AG1-428 C O2	17.0578	50/50	17.0578
965602	AG1-428 E O2	11.3516	50/50	11.3516
965641	AG1-432 C O2	23.1936	50/50	23.1936
965642	AG1-432 E O2	15.4624	50/50	15.4624
965721	AG1-440 C	1.6273	Adder	3.61
965722	AG1-440 E	1.0848	Adder	2.41
965731	AG1-441 C	1.6273	Adder	3.61
965732	AG1-441 E	1.0848	Adder	2.41
965771	AG1-445	0.9402	Adder	2.09
965781	AG1-446	0.9402	Adder	2.09
965831	AG1-451	3.8656	50/50	3.8656
WEC	WEC	0.0510	Confirmed LTF	0.0510
LGEE	LGEE	0.1068	Confirmed LTF	0.1068
CPL	CPL	0.3406	Confirmed LTF	0.3406
CBM-W2	CBM-W2	1.9085	Confirmed LTF	1.9085
NY	NY	0.0487	Confirmed LTF	0.0487
TVA	TVA	0.3430	Confirmed LTF	0.3430
O-066	O-066	0.7134	Confirmed LTF	0.7134
SIGE	SIGE	0.0295	Confirmed LTF	0.0295
CBM-S2	CBM-S2	4.3222	Confirmed LTF	4.3222
CBM-S1	CBM-S1	0.0882	Confirmed LTF	0.0882
G-007	G-007	0.1134	Confirmed LTF	0.1134
MEC	MEC	0.2860	Confirmed LTF	0.2860
LAGN	LAGN	0.4217	Confirmed LTF	0.4217
CBM-W1	CBM-W1	2.1591	Confirmed LTF	2.1591

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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
174009718	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P4-2: 556T591	breaker	699.0	210.54	212.72	DC	15.3

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173824587	314679	3CENTRAL	DVP	936480	AD2-063 TAP	DVP	1	DVP_P4-2: 8442	breaker	349.0	137.41	151.42	DC	48.91

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314713	3PAMPLIN	9.7311	50/50	9.7311
925611	AC1-036 C	1.3567	50/50	1.3567
925612	AC1-036 E	5.1495	50/50	5.1495
935221	AD1-157 C	1.4198	50/50	1.4198
935222	AD1-157 E	5.9995	50/50	5.9995
938371	AE1-056 C	38.7965	50/50	38.7965
938372	AE1-056 E	21.1981	50/50	21.1981
958801	AF2-171 C	89.9919	50/50	89.9919
958802	AF2-171 E	59.9946	50/50	59.9946
959311	AF2-222 C	99.9910	50/50	99.9910
959312	AF2-222 E	66.9940	50/50	66.9940
963321	AG1-181 C O2	101.0809	50/50	101.0809
963361	AG1-185 O2	48.9056	50/50	48.9056
964111	AG1-272 C	15.4186	50/50	15.4186
964112	AG1-272 E	4.5796	50/50	4.5796
964121	AG1-273 C	15.4186	50/50	15.4186
964122	AG1-273 E	4.5796	50/50	4.5796
964131	AG1-274 C	15.4186	50/50	15.4186
964132	AG1-274 E	4.5796	50/50	4.5796
965191	AG1-384 C	15.4186	50/50	15.4186
965192	AG1-384 E	4.5796	50/50	4.5796
CALDERWOOD	CALDERWOOD	0.0045	Confirmed LTF	0.0045
NY	NY	0.0050	Confirmed LTF	0.0050
PRAIRIE	PRAIRIE	0.0232	Confirmed LTF	0.0232
O-066	O-066	0.0606	Confirmed LTF	0.0606
CHEOAH	CHEOAH	0.0045	Confirmed LTF	0.0045
COTTONWOOD	COTTONWOOD	0.0189	Confirmed LTF	0.0189
G-007	G-007	0.0095	Confirmed LTF	0.0095
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
174208481	314681	3CHASCTY	DVP	314708	3NORVIEW	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	112.77	115.14	DC	9.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.0178	Adder	-3.55
313527	AB2-043 C	0.5764	50/50	0.5764
313853	3PONTONDP	0.7724	50/50	0.7724
314429	3JTRSVLE	0.4875	50/50	0.4875
314713	3PAMPLIN	1.8810	50/50	1.8810
316118	AC1-105 C	2.3366	Adder	2.75
316131	AB2-060 C	1.6574	50/50	1.6574
923991	AB2-040 C O1	-3.2867	Adder	-3.87
924022	AB2-043 E O1	3.2666	50/50	3.2666
924162	AB2-060 E OP	4.9436	50/50	4.9436
924301	AB2-077 C O1 (Suspended)	2.2213	50/50	2.2213
924302	AB2-077 E O1 (Suspended)	1.4809	50/50	1.4809
924311	AB2-078 C O1 (Suspended)	2.2213	50/50	2.2213
924312	AB2-078 E O1 (Suspended)	1.4809	50/50	1.4809
924321	AB2-079 C O1 (Suspended)	2.2213	50/50	2.2213
924322	AB2-079 E O1 (Suspended)	1.4809	50/50	1.4809
925611	AC1-036 C	0.2622	50/50	0.2622
925612	AC1-036 E	0.9954	50/50	0.9954
926274	AC1-105 E	1.1480	Adder	1.35
935221	AD1-157 C	0.2744	50/50	0.2744
935222	AD1-157 E	1.1597	50/50	1.1597
936265	AD2-033 C	15.0626	50/50	15.0626
936266	AD2-033 E	10.0417	50/50	10.0417
936361	AD2-046 C O1	6.3102	50/50	6.3102
936362	AD2-046 E O1	2.9018	50/50	2.9018
936485	AD2-063 C	17.3961	50/50	17.3961
936486	AD2-063 E	11.5974	50/50	11.5974
938371	AE1-056 C	7.4993	50/50	7.4993
938372	AE1-056 E	4.0975	50/50	4.0975
939181	AE1-148 C	6.3860	50/50	6.3860
939182	AE1-148 E	4.2574	50/50	4.2574
940661	AE2-053 O1	2.3652	50/50	2.3652
942451	AE2-258	2.7254	50/50	2.7254
942461	AE2-259 C O1	11.5968	50/50	11.5968
942462	AE2-259 E O1	7.7312	50/50	7.7312

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943912	AF1-059 BAT	50.4829	50/50	50.4829
946301	AF1-294 C	4.9243	50/50	4.9243
946302	AF1-294 E	3.2829	50/50	3.2829
958211	AF2-115 C	2.8967	50/50	2.8967
958212	AF2-115 E	1.9311	50/50	1.9311
958801	AF2-171 C	17.3952	50/50	17.3952
958802	AF2-171 E	11.5968	50/50	11.5968
959311	AF2-222 C	19.3280	50/50	19.3280
959312	AF2-222 E	12.9498	50/50	12.9498
961791	AG1-021 C	2.3173	50/50	2.3173
961792	AG1-021 E	1.5449	50/50	1.5449
961891	AG1-030 C	17.3799	50/50	17.3799
961892	AG1-030 E	11.5866	50/50	11.5866
962041	AG1-048 C	14.4833	50/50	14.4833
962042	AG1-048 E	9.6555	50/50	9.6555
962491	AG1-098 C O2	14.4833	50/50	14.4833
962492	AG1-098 E O2	9.6555	50/50	9.6555
962561	AG1-105 C O2	7.3638	50/50	7.3638
962562	AG1-105 E O2	4.9092	50/50	4.9092
963171	AG1-166 C	2.3173	50/50	2.3173
963172	AG1-166 E	1.5449	50/50	1.5449
963181	AG1-167 C	2.3173	50/50	2.3173
963182	AG1-167 E	1.5449	50/50	1.5449
963191	AG1-168 C	2.3173	50/50	2.3173
963192	AG1-168 E	1.5449	50/50	1.5449
963201	AG1-169 C	2.3173	50/50	2.3173
963202	AG1-169 E	1.5449	50/50	1.5449
963211	AG1-170 C	2.3173	50/50	2.3173
963212	AG1-170 E	1.5449	50/50	1.5449
963312	AG1-180 BAT	11.7888	50/50	11.7888
963321	AG1-181 C O2	19.5387	50/50	19.5387
963361	AG1-185 O2	9.4533	50/50	9.4533
963641	AG1-215 C	1.0814	50/50	1.0814
963642	AG1-215 E	1.6221	50/50	1.6221
964111	AG1-272 C	2.9804	50/50	2.9804
964112	AG1-272 E	0.8852	50/50	0.8852
964121	AG1-273 C	2.9804	50/50	2.9804
964122	AG1-273 E	0.8852	50/50	0.8852
964131	AG1-274 C	2.9804	50/50	2.9804
964132	AG1-274 E	0.8852	50/50	0.8852
964791	AG1-342 C	2.7594	50/50	2.7594
964792	AG1-342 E	2.1681	50/50	2.1681
964821	AG1-345 C	0.9269	50/50	0.9269
964822	AG1-345 E	0.6180	50/50	0.6180
964931	AG1-357 C O2	23.1732	50/50	23.1732
964932	AG1-357 E O2	15.4488	50/50	15.4488
965191	AG1-384 C	2.9804	50/50	2.9804
965192	AG1-384 E	0.8852	50/50	0.8852
965281	AG1-393 C	2.3173	50/50	2.3173
965282	AG1-393 E	1.5449	50/50	1.5449
965591	AG1-427 C	13.7429	50/50	13.7429
965592	AG1-427 E	9.1813	50/50	9.1813

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965641	AG1-432 C O2	23.1936	50/50	23.1936
965642	AG1-432 E O2	15.4624	50/50	15.4624
965721	AG1-440 C	1.6273	Adder	3.61
965722	AG1-440 E	1.0848	Adder	2.41
965731	AG1-441 C	1.6273	Adder	3.61
965732	AG1-441 E	1.0848	Adder	2.41
965771	AG1-445	0.9402	Adder	2.09
965781	AG1-446	0.9402	Adder	2.09
965831	AG1-451	3.8656	50/50	3.8656
WEC	WEC	0.0510	Confirmed LTF	0.0510
LGEE	LGEE	0.1068	Confirmed LTF	0.1068
CPL	CPL	0.3406	Confirmed LTF	0.3406
CBM-W2	CBM-W2	1.9085	Confirmed LTF	1.9085
NY	NY	0.0487	Confirmed LTF	0.0487
TVA	TVA	0.3430	Confirmed LTF	0.3430
O-066	O-066	0.7134	Confirmed LTF	0.7134
SIGE	SIGE	0.0295	Confirmed LTF	0.0295
CBM-S2	CBM-S2	4.3222	Confirmed LTF	4.3222
CBM-S1	CBM-S1	0.0882	Confirmed LTF	0.0882
G-007	G-007	0.1134	Confirmed LTF	0.1134
MEC	MEC	0.2860	Confirmed LTF	0.2860
LAGN	LAGN	0.4217	Confirmed LTF	0.4217
CBM-W1	CBM-W1	2.1591	Confirmed LTF	2.1591

13.5.22 Index 22

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
174009706	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	2	DVP_P4-6: CHASE C T342	breaker	208.7	381.8	394.78	DC	27.08

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

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

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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
174009707	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	1	DVP_P4-6: CHASE C T342	breaker	221.4	289.87	299.72	DC	21.81

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174009717	314692	6FARMVIL	DVP	966860	AG1-557 TAP	DVP	1	DVP_P4-2: 556T591	breaker	684.0	214.24	216.47	DC	15.3

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174208467	314693	3FRMAND	DVP	314565	3CLUBHSE71	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	104.09	106.45	DC	9.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.0199	Adder	-3.55
313527	AB2-043 C	0.5762	50/50	0.5762
313853	3PONTONDP	0.7722	50/50	0.7722
314429	3JTRSVLE	0.4873	50/50	0.4873
314704	3LAWRENC	1.1510	50/50	1.1510
314713	3PAMPLIN	1.8804	50/50	1.8804
316118	AC1-105 C	2.3349	Adder	2.75
316131	AB2-060 C	1.6569	50/50	1.6569
923991	AB2-040 C O1	-3.2890	Adder	-3.87
924022	AB2-043 E O1	3.2656	50/50	3.2656
924162	AB2-060 E OP	4.9421	50/50	4.9421
924301	AB2-077 C O1 (Suspended)	2.2206	50/50	2.2206
924302	AB2-077 E O1 (Suspended)	1.4804	50/50	1.4804
924311	AB2-078 C O1 (Suspended)	2.2206	50/50	2.2206
924312	AB2-078 E O1 (Suspended)	1.4804	50/50	1.4804
924321	AB2-079 C O1 (Suspended)	2.2206	50/50	2.2206
924322	AB2-079 E O1 (Suspended)	1.4804	50/50	1.4804
925611	AC1-036 C	0.2622	50/50	0.2622
925612	AC1-036 E	0.9951	50/50	0.9951
926274	AC1-105 E	1.1471	Adder	1.35
935221	AD1-157 C	0.2744	50/50	0.2744
935222	AD1-157 E	1.1593	50/50	1.1593
936265	AD2-033 C	15.0579	50/50	15.0579
936266	AD2-033 E	10.0386	50/50	10.0386
936361	AD2-046 C O1	6.3075	50/50	6.3075
936362	AD2-046 E O1	2.9005	50/50	2.9005
936485	AD2-063 C	17.3907	50/50	17.3907
936486	AD2-063 E	11.5938	50/50	11.5938
938371	AE1-056 C	7.4969	50/50	7.4969
938372	AE1-056 E	4.0963	50/50	4.0963
939181	AE1-148 C	6.3828	50/50	6.3828
939182	AE1-148 E	4.2552	50/50	4.2552
940661	AE2-053 O1	2.3640	50/50	2.3640
942451	AE2-258	2.7245	50/50	2.7245
942461	AE2-259 C O1	11.5932	50/50	11.5932

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942462	AE2-259 E O1	7.7288	50/50	7.7288
943911	AF1-059	48.7122	50/50	48.7122
946301	AF1-294 C	4.9228	50/50	4.9228
946302	AF1-294 E	3.2818	50/50	3.2818
958211	AF2-115 C	2.8958	50/50	2.8958
958212	AF2-115 E	1.9305	50/50	1.9305
958801	AF2-171 C	17.3898	50/50	17.3898
958802	AF2-171 E	11.5932	50/50	11.5932
959311	AF2-222 C	19.3230	50/50	19.3230
959312	AF2-222 E	12.9464	50/50	12.9464
961791	AG1-021 C	2.3166	50/50	2.3166
961792	AG1-021 E	1.5444	50/50	1.5444
961891	AG1-030 C	17.3745	50/50	17.3745
961892	AG1-030 E	11.5830	50/50	11.5830
962041	AG1-048 C	14.4787	50/50	14.4787
962042	AG1-048 E	9.6525	50/50	9.6525
962491	AG1-098 C O2	14.4787	50/50	14.4787
962492	AG1-098 E O2	9.6525	50/50	9.6525
962561	AG1-105 C O2	7.3602	50/50	7.3602
962562	AG1-105 E O2	4.9068	50/50	4.9068
963171	AG1-166 C	2.3166	50/50	2.3166
963172	AG1-166 E	1.5444	50/50	1.5444
963181	AG1-167 C	2.3166	50/50	2.3166
963182	AG1-167 E	1.5444	50/50	1.5444
963191	AG1-168 C	2.3166	50/50	2.3166
963192	AG1-168 E	1.5444	50/50	1.5444
963201	AG1-169 C	2.3166	50/50	2.3166
963202	AG1-169 E	1.5444	50/50	1.5444
963211	AG1-170 C	2.3166	50/50	2.3166
963212	AG1-170 E	1.5444	50/50	1.5444
963301	AG1-179 C	20.4309	50/50	20.4309
963311	AG1-180	9.9545	50/50	9.9545
963321	AG1-181 C O2	19.5336	50/50	19.5336
963361	AG1-185 O2	9.4509	50/50	9.4509
963641	AG1-215 C	1.0811	50/50	1.0811
963642	AG1-215 E	1.6216	50/50	1.6216
964111	AG1-272 C	2.9796	50/50	2.9796
964112	AG1-272 E	0.8850	50/50	0.8850
964121	AG1-273 C	2.9796	50/50	2.9796
964122	AG1-273 E	0.8850	50/50	0.8850
964131	AG1-274 C	2.9796	50/50	2.9796
964132	AG1-274 E	0.8850	50/50	0.8850
964791	AG1-342 C	2.7579	50/50	2.7579
964792	AG1-342 E	2.1669	50/50	2.1669
964821	AG1-345 C	0.9266	50/50	0.9266
964822	AG1-345 E	0.6178	50/50	0.6178
964931	AG1-357 C O2	23.1660	50/50	23.1660
964932	AG1-357 E O2	15.4440	50/50	15.4440
965191	AG1-384 C	2.9796	50/50	2.9796
965192	AG1-384 E	0.8850	50/50	0.8850
965281	AG1-393 C	2.3166	50/50	2.3166
965282	AG1-393 E	1.5444	50/50	1.5444

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965451	AG1-413 C O2	19.4164	50/50	19.4164
965452	AG1-413 E O2	12.9442	50/50	12.9442
965591	AG1-427 C	13.7387	50/50	13.7387
965592	AG1-427 E	9.1784	50/50	9.1784
965601	AG1-428 C O2	17.0561	50/50	17.0561
965602	AG1-428 E O2	11.3505	50/50	11.3505
965641	AG1-432 C O2	23.1864	50/50	23.1864
965642	AG1-432 E O2	15.4576	50/50	15.4576
965721	AG1-440 C	1.6261	Adder	3.61
965722	AG1-440 E	1.0840	Adder	2.41
965731	AG1-441 C	1.6261	Adder	3.61
965732	AG1-441 E	1.0840	Adder	2.41
965771	AG1-445	0.9395	Adder	2.09
965781	AG1-446	0.9395	Adder	2.09
965831	AG1-451	3.8644	50/50	3.8644
WEC	WEC	0.0491	Confirmed LTF	0.0491
LGEE	LGEE	0.1030	Confirmed LTF	0.1030
CPL	CPL	0.3365	Confirmed LTF	0.3365
CBM-W2	CBM-W2	1.8547	Confirmed LTF	1.8547
NY	NY	0.0520	Confirmed LTF	0.0520
TVA	TVA	0.3346	Confirmed LTF	0.3346
O-066	O-066	0.7538	Confirmed LTF	0.7538
SIGE	SIGE	0.0295	Confirmed LTF	0.0295
CBM-S2	CBM-S2	4.2595	Confirmed LTF	4.2595
CBM-S1	CBM-S1	0.0859	Confirmed LTF	0.0859
G-007	G-007	0.1197	Confirmed LTF	0.1197
MEC	MEC	0.2765	Confirmed LTF	0.2765
LAGN	LAGN	0.4112	Confirmed LTF	0.4112
CBM-W1	CBM-W1	2.0750	Confirmed LTF	2.0750

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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
175839444	314694	3GRIT	DVP	314712	3OTTER R	DVP	1	DVP_P1-2: LN 556-B-A	single	285.76	111.9	113.11	DC	3.46

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	3.5493	80/20	3.5493
934625	AD1-088 C	4.8388	80/20	4.8388
935171	AD1-152 C O1	3.8986	80/20	3.8986
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	1.0396	80/20	1.0396
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
942751	AE2-291 C	32.7677	80/20	32.7677
942761	AE2-292 C O1	40.7990	80/20	40.7990

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943901	AF1-058 C	1.9088	80/20	1.9088
943911	AF1-059	5.6494	80/20	5.6494
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 O2	8.0086	80/20	8.0086
962491	AG1-098 C O2	5.7675	80/20	5.7675
962561	AG1-105 C O2	7.0932	80/20	7.0932
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 O2	4.8438	80/20	4.8438
963321	AG1-181 C O2	7.1521	80/20	7.1521
963361	AG1-185 O2	3.4604	80/20	3.4604
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
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 O2	9.0492	80/20	9.0492
965191	AG1-384 C	1.0791	80/20	1.0791
965281	AG1-393 C	0.7519	80/20	0.7519
965451	AG1-413 C O2	2.4520	80/20	2.4520
965591	AG1-427 C	5.4072	80/20	5.4072
965641	AG1-432 C O2	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
966691	AG1-539 C	17.1334	80/20	17.1334
CPL	CPL	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

13.5.27 Index 27

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
169149583	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.06	107.29	110.5	DC	8.2

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	3.9390	80/20	3.9390
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	15.6520	80/20	15.6520
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	12.0186	80/20	12.0186
962041	AG1-048 C	8.8290	80/20	8.8290
962491	AG1-098 C O2	15.4305	80/20	15.4305
962561	AG1-105 C O2	23.4198	80/20	23.4198
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 O2	16.9578	80/20	16.9578
963361	AG1-185 O2	8.2047	80/20	8.2047
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
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
964931	AG1-357 C O2	23.5788	80/20	23.5788
965191	AG1-384 C	2.5135	80/20	2.5135
965281	AG1-393 C	1.4126	80/20	1.4126
965451	AG1-413 C O2	6.1420	80/20	6.1420
965591	AG1-427 C	14.2570	80/20	14.2570
965601	AG1-428 C O2	3.1371	80/20	3.1371
965641	AG1-432 C O2	6.9228	80/20	6.9228
965721	AG1-440 C	6.1749	80/20	6.1749

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965731	AG1-441 C	6.1749	80/20	6.1749
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
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	0.1491	Confirmed LTF	0.1491
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

13.5.28 Index 28

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
175839367	314697	6SEGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-B-A	single	674.92	167.39	169.08	DC	11.38

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

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

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

13.5.29 Index 29

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168390187	314701	3LONEPN	DVP	313755	3FLAT CREEK	DVP	1	Base Case	single	203.98	112.63	114.09	DC	2.99

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
962491	AG1-098 C O2	13.4153	80/20	13.4153
962561	AG1-105 C O2	5.0280	80/20	5.0280
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 O2	6.1776	80/20	6.1776

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O2	2.9889	80/20	2.9889
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
964791	AG1-342 C	1.8711	80/20	1.8711
964821	AG1-345 C	2.6467	80/20	2.6467
964931	AG1-357 C O2	26.1900	80/20	26.1900
965191	AG1-384 C	0.8308	80/20	0.8308
965281	AG1-393 C	6.6444	80/20	6.6444
965451	AG1-413 C O2	3.9131	80/20	3.9131
965591	AG1-427 C	7.8857	80/20	7.8857
965601	AG1-428 C O2	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

13.5.30 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
163602624	314702	3KERR	DVP	304102	3GW KING TAP	CPL	1	DVP_P7-1: LN 22-90	tower	199.0	172.86	176.63	DC	7.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5729	50/50	0.5729
313853	3PONTONDP	0.4017	Adder	0.47
314713	3PAMPLIN	0.8769	Adder	1.03
315158	1KERR 1	0.8387	50/50	0.8387
315159	1KERR 2	2.3485	50/50	2.3485
315160	1KERR 3	2.3485	50/50	2.3485
315161	1KERR 4	2.3485	50/50	2.3485
315162	1KERR 5	2.3485	50/50	2.3485
315163	1KERR 6	2.3485	50/50	2.3485
315164	1KERR 7	2.3485	50/50	2.3485
316118	AC1-105 C	2.4595	Adder	2.89
316131	AB2-060 C	1.6250	50/50	1.6250
924022	AB2-043 E O1	3.2472	50/50	3.2472
924162	AB2-060 E OP	4.8468	50/50	4.8468
924301	AB2-077 C O1 (Suspended)	2.3525	50/50	2.3525
924302	AB2-077 E O1 (Suspended)	1.5683	50/50	1.5683
924311	AB2-078 C O1 (Suspended)	2.3525	50/50	2.3525
924312	AB2-078 E O1 (Suspended)	1.5683	50/50	1.5683
924321	AB2-079 C O1 (Suspended)	2.3525	50/50	2.3525
924322	AB2-079 E O1 (Suspended)	1.5683	50/50	1.5683
925611	AC1-036 C	0.2066	50/50	0.2066
925612	AC1-036 E	0.7841	50/50	0.7841
926274	AC1-105 E	1.2084	Adder	1.42
935222	AD1-157 E	0.5406	Adder	0.64
936265	AD2-033 C	12.4745	50/50	12.4745
936266	AD2-033 E	8.3164	50/50	8.3164
936361	AD2-046 C O1	17.9481	50/50	17.9481
936362	AD2-046 E O1	8.2535	50/50	8.2535
936485	AD2-063 C	15.9102	50/50	15.9102
936486	AD2-063 E	10.6068	50/50	10.6068
938371	AE1-056 C	3.4959	Adder	4.11
938372	AE1-056 E	1.9101	Adder	2.25
939181	AE1-148 C	17.3918	50/50	17.3918
939182	AE1-148 E	11.5945	50/50	11.5945
940661	AE2-053 O1	6.4414	50/50	6.4414
942451	AE2-258	2.7092	50/50	2.7092

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942461	AE2-259 C O1	3.7240	Adder	4.38
942462	AE2-259 E O1	2.4827	Adder	2.92
943911	AF1-059	10.2643	Adder	12.08
946301	AF1-294 C	2.5607	Adder	3.01
946302	AF1-294 E	1.7071	Adder	2.01
958211	AF2-115 C	1.5063	Adder	1.77
958212	AF2-115 E	1.0042	Adder	1.18
958801	AF2-171 C	9.0890	Adder	10.69
958802	AF2-171 E	6.0593	Adder	7.13
959311	AF2-222 C	14.7390	50/50	14.7390
959312	AF2-222 E	9.8751	50/50	9.8751
961791	AG1-021 C	0.6387	Adder	1.42
961792	AG1-021 E	0.4258	Adder	0.95
961891	AG1-030 C	11.7036	50/50	11.7036
961892	AG1-030 E	7.8024	50/50	7.8024
962041	AG1-048 C	3.9917	Adder	8.86
962042	AG1-048 E	2.6611	Adder	5.91
962491	AG1-098 C O2	13.8233	50/50	13.8233
962492	AG1-098 E O2	9.2155	50/50	9.2155
962561	AG1-105 C O2	7.4970	50/50	7.4970
962562	AG1-105 E O2	4.9980	50/50	4.9980
963171	AG1-166 C	0.6387	Adder	1.42
963172	AG1-166 E	0.4258	Adder	0.95
963181	AG1-167 C	0.6387	Adder	1.42
963182	AG1-167 E	0.4258	Adder	0.95
963191	AG1-168 C	0.6387	Adder	1.42
963192	AG1-168 E	0.4258	Adder	0.95
963201	AG1-169 C	0.6387	Adder	1.42
963202	AG1-169 E	0.4258	Adder	0.95
963211	AG1-170 C	0.6387	Adder	1.42
963212	AG1-170 E	0.4258	Adder	0.95
963301	AG1-179 C	1.4301	Adder	3.17
963311	AG1-180	0.6968	Adder	1.55
963321	AG1-181 C O2	15.7539	50/50	15.7539
963361	AG1-185 O2	7.6221	50/50	7.6221
963641	AG1-215 C	0.2980	Adder	0.66
963642	AG1-215 E	0.4471	Adder	0.99
964111	AG1-272 C	2.3478	50/50	2.3478
964112	AG1-272 E	0.6974	50/50	0.6974
964121	AG1-273 C	2.3478	50/50	2.3478
964122	AG1-273 E	0.6974	50/50	0.6974
964131	AG1-274 C	2.3478	50/50	2.3478
964132	AG1-274 E	0.6974	50/50	0.6974
964791	AG1-342 C	1.2752	Adder	2.83
964792	AG1-342 E	1.0020	Adder	2.22
964821	AG1-345 C	0.2563	Adder	0.57
964822	AG1-345 E	0.1709	Adder	0.38
964931	AG1-357 C O2	21.2832	50/50	21.2832
964932	AG1-357 E O2	14.1888	50/50	14.1888
965191	AG1-384 C	2.3478	50/50	2.3478
965192	AG1-384 E	0.6974	50/50	0.6974
965281	AG1-393 C	0.6387	Adder	1.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965282	AG1-393 E	0.4258	Adder	0.95
965451	AG1-413 C O2	5.3268	50/50	5.3268
965452	AG1-413 E O2	3.5512	50/50	3.5512
965591	AG1-427 C	12.8328	50/50	12.8328
965592	AG1-427 E	8.5733	50/50	8.5733
965601	AG1-428 C O2	1.1939	Adder	2.65
965602	AG1-428 E O2	0.7945	Adder	1.76
965641	AG1-432 C O2	3.9475	Adder	8.76
965642	AG1-432 E O2	2.6316	Adder	5.84
965721	AG1-440 C	15.9493	50/50	15.9493
965722	AG1-440 E	10.6329	50/50	10.6329
965731	AG1-441 C	15.9493	50/50	15.9493
965732	AG1-441 E	10.6329	50/50	10.6329
965771	AG1-445	9.2152	50/50	9.2152
965781	AG1-446	9.2152	50/50	9.2152
965831	AG1-451	0.6579	Adder	1.46
G-007A	G-007A	0.1582	Confirmed LTF	0.1582
VFT	VFT	0.4193	Confirmed LTF	0.4193
CALDERWOOD	CALDERWOOD	0.3668	Confirmed LTF	0.3668
PRAIRIE	PRAIRIE	1.2398	Confirmed LTF	1.2398
CHEOAH	CHEOAH	0.3764	Confirmed LTF	0.3764
CBM-N	CBM-N	0.0756	Confirmed LTF	0.0756
COTTONWOOD	COTTONWOOD	1.3482	Confirmed LTF	1.3482
HAMLET	HAMLET	0.7941	Confirmed LTF	0.7941
GIBSON	GIBSON	0.2162	Confirmed LTF	0.2162
BLUEG	BLUEG	0.6632	Confirmed LTF	0.6632
TRIMBLE	TRIMBLE	0.2104	Confirmed LTF	0.2104
CATAWBA	CATAWBA	0.4109	Confirmed LTF	0.4109

13.5.31 Index 31

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169149692	314702	3KERR	DVP	314673	3PALMERSPRNG	DVP	1	DVP_P1-2: LN 45	single	138.18	115.47	118.49	DC	4.18

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

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

13.5.32 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
174208463	314704	3LAWRENC	DVP	314693	3FRMAN D	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	104.94	107.3	DC	9.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.0199	Adder	-3.55
313527	AB2-043 C	0.5762	50/50	0.5762
313853	3PONTONDP	0.7722	50/50	0.7722
314429	3JTRSVLE	0.4873	50/50	0.4873
314704	3LAWRENC	1.1510	50/50	1.1510
314713	3PAMPLIN	1.8804	50/50	1.8804
316118	AC1-105 C	2.3349	Adder	2.75
316131	AB2-060 C	1.6569	50/50	1.6569
923991	AB2-040 C O1	-3.2890	Adder	-3.87
924022	AB2-043 E O1	3.2656	50/50	3.2656
924162	AB2-060 E OP	4.9421	50/50	4.9421
924301	AB2-077 C O1 (Suspended)	2.2206	50/50	2.2206
924302	AB2-077 E O1 (Suspended)	1.4804	50/50	1.4804
924311	AB2-078 C O1 (Suspended)	2.2206	50/50	2.2206
924312	AB2-078 E O1 (Suspended)	1.4804	50/50	1.4804
924321	AB2-079 C O1 (Suspended)	2.2206	50/50	2.2206
924322	AB2-079 E O1 (Suspended)	1.4804	50/50	1.4804
925611	AC1-036 C	0.2622	50/50	0.2622
925612	AC1-036 E	0.9951	50/50	0.9951
926274	AC1-105 E	1.1471	Adder	1.35
935221	AD1-157 C	0.2744	50/50	0.2744
935222	AD1-157 E	1.1593	50/50	1.1593
936265	AD2-033 C	15.0579	50/50	15.0579
936266	AD2-033 E	10.0386	50/50	10.0386
936361	AD2-046 C O1	6.3075	50/50	6.3075
936362	AD2-046 E O1	2.9005	50/50	2.9005
936485	AD2-063 C	17.3907	50/50	17.3907
936486	AD2-063 E	11.5938	50/50	11.5938
938371	AE1-056 C	7.4969	50/50	7.4969
938372	AE1-056 E	4.0963	50/50	4.0963
939181	AE1-148 C	6.3828	50/50	6.3828
939182	AE1-148 E	4.2552	50/50	4.2552
940661	AE2-053 O1	2.3640	50/50	2.3640
942451	AE2-258	2.7245	50/50	2.7245
942461	AE2-259 C O1	11.5932	50/50	11.5932

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942462	AE2-259 E O1	7.7288	50/50	7.7288
943911	AF1-059	48.7122	50/50	48.7122
946301	AF1-294 C	4.9228	50/50	4.9228
946302	AF1-294 E	3.2818	50/50	3.2818
958211	AF2-115 C	2.8958	50/50	2.8958
958212	AF2-115 E	1.9305	50/50	1.9305
958801	AF2-171 C	17.3898	50/50	17.3898
958802	AF2-171 E	11.5932	50/50	11.5932
959311	AF2-222 C	19.3230	50/50	19.3230
959312	AF2-222 E	12.9464	50/50	12.9464
961791	AG1-021 C	2.3166	50/50	2.3166
961792	AG1-021 E	1.5444	50/50	1.5444
961891	AG1-030 C	17.3745	50/50	17.3745
961892	AG1-030 E	11.5830	50/50	11.5830
962041	AG1-048 C	14.4787	50/50	14.4787
962042	AG1-048 E	9.6525	50/50	9.6525
962491	AG1-098 C O2	14.4787	50/50	14.4787
962492	AG1-098 E O2	9.6525	50/50	9.6525
962561	AG1-105 C O2	7.3602	50/50	7.3602
962562	AG1-105 E O2	4.9068	50/50	4.9068
963171	AG1-166 C	2.3166	50/50	2.3166
963172	AG1-166 E	1.5444	50/50	1.5444
963181	AG1-167 C	2.3166	50/50	2.3166
963182	AG1-167 E	1.5444	50/50	1.5444
963191	AG1-168 C	2.3166	50/50	2.3166
963192	AG1-168 E	1.5444	50/50	1.5444
963201	AG1-169 C	2.3166	50/50	2.3166
963202	AG1-169 E	1.5444	50/50	1.5444
963211	AG1-170 C	2.3166	50/50	2.3166
963212	AG1-170 E	1.5444	50/50	1.5444
963301	AG1-179 C	20.4309	50/50	20.4309
963311	AG1-180	9.9545	50/50	9.9545
963321	AG1-181 C O2	19.5336	50/50	19.5336
963361	AG1-185 O2	9.4509	50/50	9.4509
963641	AG1-215 C	1.0811	50/50	1.0811
963642	AG1-215 E	1.6216	50/50	1.6216
964111	AG1-272 C	2.9796	50/50	2.9796
964112	AG1-272 E	0.8850	50/50	0.8850
964121	AG1-273 C	2.9796	50/50	2.9796
964122	AG1-273 E	0.8850	50/50	0.8850
964131	AG1-274 C	2.9796	50/50	2.9796
964132	AG1-274 E	0.8850	50/50	0.8850
964791	AG1-342 C	2.7579	50/50	2.7579
964792	AG1-342 E	2.1669	50/50	2.1669
964821	AG1-345 C	0.9266	50/50	0.9266
964822	AG1-345 E	0.6178	50/50	0.6178
964931	AG1-357 C O2	23.1660	50/50	23.1660
964932	AG1-357 E O2	15.4440	50/50	15.4440
965191	AG1-384 C	2.9796	50/50	2.9796
965192	AG1-384 E	0.8850	50/50	0.8850
965281	AG1-393 C	2.3166	50/50	2.3166
965282	AG1-393 E	1.5444	50/50	1.5444

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965451	AG1-413 C O2	19.4164	50/50	19.4164
965452	AG1-413 E O2	12.9442	50/50	12.9442
965591	AG1-427 C	13.7387	50/50	13.7387
965592	AG1-427 E	9.1784	50/50	9.1784
965601	AG1-428 C O2	17.0561	50/50	17.0561
965602	AG1-428 E O2	11.3505	50/50	11.3505
965641	AG1-432 C O2	23.1864	50/50	23.1864
965642	AG1-432 E O2	15.4576	50/50	15.4576
965721	AG1-440 C	1.6261	Adder	3.61
965722	AG1-440 E	1.0840	Adder	2.41
965731	AG1-441 C	1.6261	Adder	3.61
965732	AG1-441 E	1.0840	Adder	2.41
965771	AG1-445	0.9395	Adder	2.09
965781	AG1-446	0.9395	Adder	2.09
965831	AG1-451	3.8644	50/50	3.8644
WEC	WEC	0.0491	Confirmed LTF	0.0491
LGEE	LGEE	0.1030	Confirmed LTF	0.1030
CPL	CPL	0.3365	Confirmed LTF	0.3365
CBM-W2	CBM-W2	1.8547	Confirmed LTF	1.8547
NY	NY	0.0520	Confirmed LTF	0.0520
TVA	TVA	0.3346	Confirmed LTF	0.3346
O-066	O-066	0.7538	Confirmed LTF	0.7538
SIGE	SIGE	0.0295	Confirmed LTF	0.0295
CBM-S2	CBM-S2	4.2595	Confirmed LTF	4.2595
CBM-S1	CBM-S1	0.0859	Confirmed LTF	0.0859
G-007	G-007	0.1197	Confirmed LTF	0.1197
MEC	MEC	0.2765	Confirmed LTF	0.2765
LAGN	LAGN	0.4112	Confirmed LTF	0.4112
CBM-W1	CBM-W1	2.0750	Confirmed LTF	2.0750

13.5.33 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
169149536	314707	3MORAN	DVP	314691	3FARMVIL	DVP	1	Base Case	single	203.98	109.2	110.66	DC	2.99

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
962491	AG1-098 C O2	13.4153	80/20	13.4153
962561	AG1-105 C O2	5.0280	80/20	5.0280
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 O2	6.1776	80/20	6.1776

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O2	2.9889	80/20	2.9889
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
964791	AG1-342 C	1.8711	80/20	1.8711
964821	AG1-345 C	2.6467	80/20	2.6467
964931	AG1-357 C O2	26.1900	80/20	26.1900
965191	AG1-384 C	0.8308	80/20	0.8308
965281	AG1-393 C	6.6444	80/20	6.6444
965451	AG1-413 C O2	3.9131	80/20	3.9131
965591	AG1-427 C	7.8857	80/20	7.8857
965601	AG1-428 C O2	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
174208483	314708	3NORVIEW	DVP	314721	3SO HILL	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	112.0	114.36	DC	9.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.0178	Adder	-3.55
313527	AB2-043 C	0.5764	50/50	0.5764
313853	3PONTONDP	0.7724	50/50	0.7724
314429	3JTRSVLE	0.4875	50/50	0.4875
314713	3PAMPLIN	1.8810	50/50	1.8810
316118	AC1-105 C	2.3366	Adder	2.75
316131	AB2-060 C	1.6574	50/50	1.6574
923991	AB2-040 C O1	-3.2867	Adder	-3.87
924022	AB2-043 E O1	3.2666	50/50	3.2666
924162	AB2-060 E OP	4.9436	50/50	4.9436
924301	AB2-077 C O1 (Suspended)	2.2213	50/50	2.2213
924302	AB2-077 E O1 (Suspended)	1.4809	50/50	1.4809
924311	AB2-078 C O1 (Suspended)	2.2213	50/50	2.2213
924312	AB2-078 E O1 (Suspended)	1.4809	50/50	1.4809
924321	AB2-079 C O1 (Suspended)	2.2213	50/50	2.2213
924322	AB2-079 E O1 (Suspended)	1.4809	50/50	1.4809
925611	AC1-036 C	0.2622	50/50	0.2622
925612	AC1-036 E	0.9954	50/50	0.9954
926274	AC1-105 E	1.1480	Adder	1.35
935221	AD1-157 C	0.2744	50/50	0.2744
935222	AD1-157 E	1.1597	50/50	1.1597
936265	AD2-033 C	15.0626	50/50	15.0626
936266	AD2-033 E	10.0417	50/50	10.0417
936361	AD2-046 C O1	6.3102	50/50	6.3102
936362	AD2-046 E O1	2.9018	50/50	2.9018
936485	AD2-063 C	17.3961	50/50	17.3961
936486	AD2-063 E	11.5974	50/50	11.5974
938371	AE1-056 C	7.4993	50/50	7.4993
938372	AE1-056 E	4.0975	50/50	4.0975
939181	AE1-148 C	6.3860	50/50	6.3860
939182	AE1-148 E	4.2574	50/50	4.2574
940661	AE2-053 O1	2.3652	50/50	2.3652
942451	AE2-258	2.7254	50/50	2.7254
942461	AE2-259 C O1	11.5968	50/50	11.5968
942462	AE2-259 E O1	7.7312	50/50	7.7312

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943912	AF1-059 BAT	50.4829	50/50	50.4829
946301	AF1-294 C	4.9243	50/50	4.9243
946302	AF1-294 E	3.2829	50/50	3.2829
958211	AF2-115 C	2.8967	50/50	2.8967
958212	AF2-115 E	1.9311	50/50	1.9311
958801	AF2-171 C	17.3952	50/50	17.3952
958802	AF2-171 E	11.5968	50/50	11.5968
959311	AF2-222 C	19.3280	50/50	19.3280
959312	AF2-222 E	12.9498	50/50	12.9498
961791	AG1-021 C	2.3173	50/50	2.3173
961792	AG1-021 E	1.5449	50/50	1.5449
961891	AG1-030 C	17.3799	50/50	17.3799
961892	AG1-030 E	11.5866	50/50	11.5866
962041	AG1-048 C	14.4833	50/50	14.4833
962042	AG1-048 E	9.6555	50/50	9.6555
962491	AG1-098 C O2	14.4833	50/50	14.4833
962492	AG1-098 E O2	9.6555	50/50	9.6555
962561	AG1-105 C O2	7.3638	50/50	7.3638
962562	AG1-105 E O2	4.9092	50/50	4.9092
963171	AG1-166 C	2.3173	50/50	2.3173
963172	AG1-166 E	1.5449	50/50	1.5449
963181	AG1-167 C	2.3173	50/50	2.3173
963182	AG1-167 E	1.5449	50/50	1.5449
963191	AG1-168 C	2.3173	50/50	2.3173
963192	AG1-168 E	1.5449	50/50	1.5449
963201	AG1-169 C	2.3173	50/50	2.3173
963202	AG1-169 E	1.5449	50/50	1.5449
963211	AG1-170 C	2.3173	50/50	2.3173
963212	AG1-170 E	1.5449	50/50	1.5449
963312	AG1-180 BAT	11.7888	50/50	11.7888
963321	AG1-181 C O2	19.5387	50/50	19.5387
963361	AG1-185 O2	9.4533	50/50	9.4533
963641	AG1-215 C	1.0814	50/50	1.0814
963642	AG1-215 E	1.6221	50/50	1.6221
964111	AG1-272 C	2.9804	50/50	2.9804
964112	AG1-272 E	0.8852	50/50	0.8852
964121	AG1-273 C	2.9804	50/50	2.9804
964122	AG1-273 E	0.8852	50/50	0.8852
964131	AG1-274 C	2.9804	50/50	2.9804
964132	AG1-274 E	0.8852	50/50	0.8852
964791	AG1-342 C	2.7594	50/50	2.7594
964792	AG1-342 E	2.1681	50/50	2.1681
964821	AG1-345 C	0.9269	50/50	0.9269
964822	AG1-345 E	0.6180	50/50	0.6180
964931	AG1-357 C O2	23.1732	50/50	23.1732
964932	AG1-357 E O2	15.4488	50/50	15.4488
965191	AG1-384 C	2.9804	50/50	2.9804
965192	AG1-384 E	0.8852	50/50	0.8852
965281	AG1-393 C	2.3173	50/50	2.3173
965282	AG1-393 E	1.5449	50/50	1.5449
965591	AG1-427 C	13.7429	50/50	13.7429
965592	AG1-427 E	9.1813	50/50	9.1813

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965641	AG1-432 C O2	23.1936	50/50	23.1936
965642	AG1-432 E O2	15.4624	50/50	15.4624
965721	AG1-440 C	1.6273	Adder	3.61
965722	AG1-440 E	1.0848	Adder	2.41
965731	AG1-441 C	1.6273	Adder	3.61
965732	AG1-441 E	1.0848	Adder	2.41
965771	AG1-445	0.9402	Adder	2.09
965781	AG1-446	0.9402	Adder	2.09
965831	AG1-451	3.8656	50/50	3.8656
WEC	WEC	0.0510	Confirmed LTF	0.0510
LGEE	LGEE	0.1068	Confirmed LTF	0.1068
CPL	CPL	0.3406	Confirmed LTF	0.3406
CBM-W2	CBM-W2	1.9085	Confirmed LTF	1.9085
NY	NY	0.0487	Confirmed LTF	0.0487
TVA	TVA	0.3430	Confirmed LTF	0.3430
O-066	O-066	0.7134	Confirmed LTF	0.7134
SIGE	SIGE	0.0295	Confirmed LTF	0.0295
CBM-S2	CBM-S2	4.3222	Confirmed LTF	4.3222
CBM-S1	CBM-S1	0.0882	Confirmed LTF	0.0882
G-007	G-007	0.1134	Confirmed LTF	0.1134
MEC	MEC	0.2860	Confirmed LTF	0.2860
LAGN	LAGN	0.4217	Confirmed LTF	0.4217
CBM-W1	CBM-W1	2.1591	Confirmed LTF	2.1591

13.5.35 Index 35

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
174405641	314712	3OTTER R	DVP	314666	3ALTVSTA	DVP	1	DVP_P4-2: 511T556	breaker	342.0	113.42	113.88	DC	3.46

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

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

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

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

13.5.36 Index 36

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
174009738	314715	3MADSONV	DVP	314713	3PAMPLIN	DVP	1	DVP_P4-6: CHASE C T342	breaker	406.0	139.28	151.32	DC	48.91

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925611	AC1-036 C	1.3567	50/50	1.3567
925612	AC1-036 E	5.1497	50/50	5.1497
936485	AD2-063 C	89.9955	50/50	89.9955
936486	AD2-063 E	59.9970	50/50	59.9970
958801	AF2-171 C	89.9955	50/50	89.9955
958802	AF2-171 E	59.9970	50/50	59.9970
959311	AF2-222 C	99.9950	50/50	99.9950
959312	AF2-222 E	66.9966	50/50	66.9966
963321	AG1-181 C O2	101.0849	50/50	101.0849
963361	AG1-185 O2	48.9076	50/50	48.9076
964111	AG1-272 C	15.4192	50/50	15.4192
964112	AG1-272 E	4.5798	50/50	4.5798
964121	AG1-273 C	15.4192	50/50	15.4192
964122	AG1-273 E	4.5798	50/50	4.5798
964131	AG1-274 C	15.4192	50/50	15.4192
964132	AG1-274 E	4.5798	50/50	4.5798
965191	AG1-384 C	15.4192	50/50	15.4192
965192	AG1-384 E	4.5798	50/50	4.5798
965591	AG1-427 C	71.0964	50/50	71.0964
965592	AG1-427 E	47.4976	50/50	47.4976
CALDERWOOD	CALDERWOOD	0.0025	Confirmed LTF	0.0025
NY	NY	0.0028	Confirmed LTF	0.0028
PRAIRIE	PRAIRIE	0.0129	Confirmed LTF	0.0129
O-066	O-066	0.0336	Confirmed LTF	0.0336
CHEOAH	CHEOAH	0.0025	Confirmed LTF	0.0025
COTTONWOOD	COTTONWOOD	0.0105	Confirmed LTF	0.0105
G-007	G-007	0.0052	Confirmed LTF	0.0052
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

13.5.37 Index 37

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174208476	314721	3SO HILL	DVP	943910	AF1-059 TAP	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	105.75	108.11	DC	9.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.0178	Adder	-3.55
313527	AB2-043 C	0.5764	50/50	0.5764
313853	3PONTONDP	0.7724	50/50	0.7724
314429	3JTRSVLE	0.4875	50/50	0.4875
314713	3PAMPLIN	1.8810	50/50	1.8810
316118	AC1-105 C	2.3366	Adder	2.75
316131	AB2-060 C	1.6574	50/50	1.6574
923991	AB2-040 C O1	-3.2867	Adder	-3.87
924022	AB2-043 E O1	3.2666	50/50	3.2666
924162	AB2-060 E OP	4.9436	50/50	4.9436
924301	AB2-077 C O1 (Suspended)	2.2213	50/50	2.2213
924302	AB2-077 E O1 (Suspended)	1.4809	50/50	1.4809
924311	AB2-078 C O1 (Suspended)	2.2213	50/50	2.2213
924312	AB2-078 E O1 (Suspended)	1.4809	50/50	1.4809
924321	AB2-079 C O1 (Suspended)	2.2213	50/50	2.2213
924322	AB2-079 E O1 (Suspended)	1.4809	50/50	1.4809
925611	AC1-036 C	0.2622	50/50	0.2622
925612	AC1-036 E	0.9954	50/50	0.9954
926274	AC1-105 E	1.1480	Adder	1.35
935221	AD1-157 C	0.2744	50/50	0.2744
935222	AD1-157 E	1.1597	50/50	1.1597
936265	AD2-033 C	15.0626	50/50	15.0626
936266	AD2-033 E	10.0417	50/50	10.0417
936361	AD2-046 C O1	6.3102	50/50	6.3102
936362	AD2-046 E O1	2.9018	50/50	2.9018
936485	AD2-063 C	17.3961	50/50	17.3961
936486	AD2-063 E	11.5974	50/50	11.5974
938371	AE1-056 C	7.4993	50/50	7.4993
938372	AE1-056 E	4.0975	50/50	4.0975
939181	AE1-148 C	6.3860	50/50	6.3860
939182	AE1-148 E	4.2574	50/50	4.2574
940661	AE2-053 O1	2.3652	50/50	2.3652
942451	AE2-258	2.7254	50/50	2.7254
942461	AE2-259 C O1	11.5968	50/50	11.5968
942462	AE2-259 E O1	7.7312	50/50	7.7312

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943912	AF1-059 BAT	50.4829	50/50	50.4829
946301	AF1-294 C	4.9243	50/50	4.9243
946302	AF1-294 E	3.2829	50/50	3.2829
958211	AF2-115 C	2.8967	50/50	2.8967
958212	AF2-115 E	1.9311	50/50	1.9311
958801	AF2-171 C	17.3952	50/50	17.3952
958802	AF2-171 E	11.5968	50/50	11.5968
959311	AF2-222 C	19.3280	50/50	19.3280
959312	AF2-222 E	12.9498	50/50	12.9498
961791	AG1-021 C	2.3173	50/50	2.3173
961792	AG1-021 E	1.5449	50/50	1.5449
961891	AG1-030 C	17.3799	50/50	17.3799
961892	AG1-030 E	11.5866	50/50	11.5866
962041	AG1-048 C	14.4833	50/50	14.4833
962042	AG1-048 E	9.6555	50/50	9.6555
962491	AG1-098 C O2	14.4833	50/50	14.4833
962492	AG1-098 E O2	9.6555	50/50	9.6555
962561	AG1-105 C O2	7.3638	50/50	7.3638
962562	AG1-105 E O2	4.9092	50/50	4.9092
963171	AG1-166 C	2.3173	50/50	2.3173
963172	AG1-166 E	1.5449	50/50	1.5449
963181	AG1-167 C	2.3173	50/50	2.3173
963182	AG1-167 E	1.5449	50/50	1.5449
963191	AG1-168 C	2.3173	50/50	2.3173
963192	AG1-168 E	1.5449	50/50	1.5449
963201	AG1-169 C	2.3173	50/50	2.3173
963202	AG1-169 E	1.5449	50/50	1.5449
963211	AG1-170 C	2.3173	50/50	2.3173
963212	AG1-170 E	1.5449	50/50	1.5449
963312	AG1-180 BAT	11.7888	50/50	11.7888
963321	AG1-181 C O2	19.5387	50/50	19.5387
963361	AG1-185 O2	9.4533	50/50	9.4533
963641	AG1-215 C	1.0814	50/50	1.0814
963642	AG1-215 E	1.6221	50/50	1.6221
964111	AG1-272 C	2.9804	50/50	2.9804
964112	AG1-272 E	0.8852	50/50	0.8852
964121	AG1-273 C	2.9804	50/50	2.9804
964122	AG1-273 E	0.8852	50/50	0.8852
964131	AG1-274 C	2.9804	50/50	2.9804
964132	AG1-274 E	0.8852	50/50	0.8852
964791	AG1-342 C	2.7594	50/50	2.7594
964792	AG1-342 E	2.1681	50/50	2.1681
964821	AG1-345 C	0.9269	50/50	0.9269
964822	AG1-345 E	0.6180	50/50	0.6180
964931	AG1-357 C O2	23.1732	50/50	23.1732
964932	AG1-357 E O2	15.4488	50/50	15.4488
965191	AG1-384 C	2.9804	50/50	2.9804
965192	AG1-384 E	0.8852	50/50	0.8852
965281	AG1-393 C	2.3173	50/50	2.3173
965282	AG1-393 E	1.5449	50/50	1.5449
965451	AG1-413 C O2	19.4189	50/50	19.4189
965452	AG1-413 E O2	12.9459	50/50	12.9459

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	13.7429	50/50	13.7429
965592	AG1-427 E	9.1813	50/50	9.1813
965641	AG1-432 C O2	23.1936	50/50	23.1936
965642	AG1-432 E O2	15.4624	50/50	15.4624
965721	AG1-440 C	1.6273	Adder	3.61
965722	AG1-440 E	1.0848	Adder	2.41
965731	AG1-441 C	1.6273	Adder	3.61
965732	AG1-441 E	1.0848	Adder	2.41
965771	AG1-445	0.9402	Adder	2.09
965781	AG1-446	0.9402	Adder	2.09
965831	AG1-451	3.8656	50/50	3.8656
WEC	WEC	0.0510	Confirmed LTF	0.0510
LGEE	LGEE	0.1068	Confirmed LTF	0.1068
CPL	CPL	0.3406	Confirmed LTF	0.3406
CBM-W2	CBM-W2	1.9085	Confirmed LTF	1.9085
NY	NY	0.0487	Confirmed LTF	0.0487
TVA	TVA	0.3430	Confirmed LTF	0.3430
O-066	O-066	0.7134	Confirmed LTF	0.7134
SIGE	SIGE	0.0295	Confirmed LTF	0.0295
CBM-S2	CBM-S2	4.3222	Confirmed LTF	4.3222
CBM-S1	CBM-S1	0.0882	Confirmed LTF	0.0882
G-007	G-007	0.1134	Confirmed LTF	0.1134
MEC	MEC	0.2860	Confirmed LTF	0.2860
LAGN	LAGN	0.4217	Confirmed LTF	0.4217
CBM-W1	CBM-W1	2.1591	Confirmed LTF	2.1591

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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
169149505	314726	3WILLIS	DVP	314691	3FARMVIL	DVP	1	Base Case	single	186.12	127.55	136.11	DC	15.94

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

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

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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
169367847	314747	6BREMO	DVP	313867	6BREMODIST	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	145.13	146.63	DC	9.88

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169367864	314747	6BREMO	DVP	314744	3BREMO	DVP	1	DVP_P1-2: LN 2193	single	269.78	134.93	136.57	DC	4.43

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169367837	314765	6MTEAGLE	DVP	314749	6CHARLVL	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	144.95	146.31	DC	9.04

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173396591	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-B-B	single	718.0	169.3	170.89	DC	11.38

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174009766	934620	AD1-088 TAP	DVP	314686	6CLOVER	DVP	1	DVP_P4-2: 219322	breaker	699.0	111.97	114.24	DC	15.88

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	1.6096	50/50	1.6096
314713	3PAMPLIN	4.9033	50/50	4.9033
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	4.7609	50/50	4.7609
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	1.7383	50/50	1.7383
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0632	50/50	5.0632
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	3.0230	50/50	3.0230
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	19.5486	50/50	19.5486

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938372	AE1-056 E	10.6812	50/50	10.6812
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	37.3446	50/50	37.3446
942462	AE2-259 E O1	24.8964	50/50	24.8964
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7346	50/50	11.7346
946302	AF1-294 E	7.8231	50/50	7.8231
958211	AF2-115 C	6.9027	50/50	6.9027
958212	AF2-115 E	4.6018	50/50	4.6018
958801	AF2-171 C	41.2011	50/50	41.2011
958802	AF2-171 E	27.4674	50/50	27.4674
959311	AF2-222 C	35.5040	50/50	35.5040
959312	AF2-222 E	23.7877	50/50	23.7877
961791	AG1-021 C	5.5222	50/50	5.5222
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5651	50/50	37.5651
961892	AG1-030 E	25.0434	50/50	25.0434
962041	AG1-048 C	34.5135	50/50	34.5135
962042	AG1-048 E	23.0090	50/50	23.0090
962491	AG1-098 C O2	16.6673	50/50	16.6673
962492	AG1-098 E O2	11.1115	50/50	11.1115
962561	AG1-105 C O2	6.7818	50/50	6.7818
962562	AG1-105 E O2	4.5212	50/50	4.5212
963171	AG1-166 C	5.5222	50/50	5.5222
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5222	50/50	5.5222
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5222	50/50	5.5222
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5222	50/50	5.5222
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5222	50/50	5.5222
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O2	72.3655	50/50	72.3655
963272	AG1-176 E O2	48.2436	50/50	48.2436
963321	AG1-181 C O2	32.8199	50/50	32.8199
963361	AG1-185 O2	15.8791	50/50	15.8791
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8655	50/50	3.8655
964111	AG1-272 C	5.2047	50/50	5.2047
964112	AG1-272 E	1.5459	50/50	1.5459
964121	AG1-273 C	5.2047	50/50	5.2047
964122	AG1-273 E	1.5459	50/50	1.5459
964131	AG1-274 C	5.2047	50/50	5.2047
964132	AG1-274 E	1.5459	50/50	1.5459
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964841	AG1-347 C	48.8998	50/50	48.8998
964842	AG1-347 E	38.4212	50/50	38.4212
964931	AG1-357 C O2	29.6676	50/50	29.6676
964932	AG1-357 E O2	19.7784	50/50	19.7784
965191	AG1-384 C	5.2047	50/50	5.2047
965192	AG1-384 E	1.5459	50/50	1.5459
965281	AG1-393 C	5.5222	50/50	5.5222
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O2	5.5753	50/50	5.5753
965452	AG1-413 E O2	3.7169	50/50	3.7169
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O2	74.6892	50/50	74.6892
965642	AG1-432 E O2	49.7928	50/50	49.7928
965831	AG1-451	12.4482	50/50	12.4482
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	9.0684	50/50	9.0684
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	6.0456	50/50	6.0456
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

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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
164018647	936480	AD2-063 TAP	DVP	965590	AG1-427 TAP	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	125.43	135.25	DC	34.29

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314677	6BUCKING	0.2253	50/50	0.2253
314713	3PAMPLIN	3.9554	50/50	3.9554
924032	AB2-045 E	0.6664	50/50	0.6664
925611	AC1-036 C	0.9224	50/50	0.9224
925612	AC1-036 E	3.5012	50/50	3.5012
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.2219	50/50	0.2219
932512	AC2-071 E (Withdrawn : 01/22/2021)	0.7087	50/50	0.7087
935221	AD1-157 C	0.5771	50/50	0.5771
935222	AD1-157 E	2.4386	50/50	2.4386
936485	AD2-063 C	74.2293	50/50	74.2293
936486	AD2-063 E	49.4862	50/50	49.4862
938371	AE1-056 C	15.7695	50/50	15.7695
938372	AE1-056 E	8.6163	50/50	8.6163
942461	AE2-259 C O1	12.6876	50/50	12.6876
942462	AE2-259 E O1	8.4584	50/50	8.4584
958801	AF2-171 C	43.3908	50/50	43.3908
958802	AF2-171 E	28.9272	50/50	28.9272
959311	AF2-222 C	65.1050	50/50	65.1050
959312	AF2-222 E	43.6203	50/50	43.6203
963271	AG1-176 C O2	3.3799	Adder	7.5
963272	AG1-176 E O2	2.2533	Adder	5.0
963321	AG1-181 C O2	70.8641	50/50	70.8641
963361	AG1-185 O2	34.2859	50/50	34.2859
964111	AG1-272 C	10.4831	50/50	10.4831
964112	AG1-272 E	3.1137	50/50	3.1137
964121	AG1-273 C	10.4831	50/50	10.4831
964122	AG1-273 E	3.1137	50/50	3.1137
964131	AG1-274 C	10.4831	50/50	10.4831
964132	AG1-274 E	3.1137	50/50	3.1137
965191	AG1-384 C	10.4831	50/50	10.4831
965192	AG1-384 E	3.1137	50/50	3.1137
965641	AG1-432 C O2	25.3752	50/50	25.3752
965642	AG1-432 E O2	16.9168	50/50	16.9168
965831	AG1-451	4.2292	50/50	4.2292
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	1.2692	50/50	1.2692

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	0.8462	50/50	0.8462
G-007A	G-007A	0.0551	Confirmed LTF	0.0551
VFT	VFT	0.1484	Confirmed LTF	0.1484
CALDERWOOD	CALDERWOOD	0.0393	Confirmed LTF	0.0393
PRAIRIE	PRAIRIE	0.1446	Confirmed LTF	0.1446
CHEOAH	CHEOAH	0.0400	Confirmed LTF	0.0400
CBM-N	CBM-N	0.0264	Confirmed LTF	0.0264
COTTONWOOD	COTTONWOOD	0.1470	Confirmed LTF	0.1470
HAMLET	HAMLET	0.0699	Confirmed LTF	0.0699
GIBSON	GIBSON	0.0268	Confirmed LTF	0.0268
BLUEG	BLUEG	0.0833	Confirmed LTF	0.0833
TRIMBLE	TRIMBLE	0.0267	Confirmed LTF	0.0267
CATAWBA	CATAWBA	0.0385	Confirmed LTF	0.0385

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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
175839439	942750	AE2-291 TAP	DVP	314694	3GRIT	DVP	1	DVP_P1-2: LN 556-B-A	single	285.76	112.95	114.16	DC	3.46

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	3.5493	80/20	3.5493
934625	AD1-088 C	4.8388	80/20	4.8388
935171	AD1-152 C O1	3.8986	80/20	3.8986
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	1.0396	80/20	1.0396
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
942751	AE2-291 C	32.7677	80/20	32.7677
942761	AE2-292 C O1	40.7990	80/20	40.7990

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943901	AF1-058 C	1.9088	80/20	1.9088
943911	AF1-059	5.6494	80/20	5.6494
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 O2	8.0086	80/20	8.0086
962491	AG1-098 C O2	5.7675	80/20	5.7675
962561	AG1-105 C O2	7.0932	80/20	7.0932
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 O2	4.8438	80/20	4.8438
963321	AG1-181 C O2	7.1521	80/20	7.1521
963361	AG1-185 O2	3.4604	80/20	3.4604
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
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 O2	9.0492	80/20	9.0492
965191	AG1-384 C	1.0791	80/20	1.0791
965281	AG1-393 C	0.7519	80/20	0.7519
965451	AG1-413 C O2	2.4520	80/20	2.4520
965591	AG1-427 C	5.4072	80/20	5.4072
965641	AG1-432 C O2	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
966691	AG1-539 C	17.1334	80/20	17.1334
CPL	CPL	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

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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
174405603	943910	AF1-059 TAP	DVP	314675	3BRODNAX	DVP	1	DVP_P4-2: 15832	breaker	400.0	104.77	107.13	DC	9.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.0319	Adder	-3.57
313527	AB2-043 C	0.5743	50/50	0.5743
313853	3PONTONDP	0.7697	50/50	0.7697
314429	3JTRSVLE	0.4857	50/50	0.4857
314713	3PAMPLIN	1.8744	50/50	1.8744
316118	AC1-105 C	2.3096	Adder	2.72
316131	AB2-060 C	1.6516	50/50	1.6516
923991	AB2-040 C O1	-3.3020	Adder	-3.88
924022	AB2-043 E O1	3.2549	50/50	3.2549
924162	AB2-060 E OP	4.9262	50/50	4.9262
924301	AB2-077 C O1 (Suspended)	2.2130	50/50	2.2130
924302	AB2-077 E O1 (Suspended)	1.4754	50/50	1.4754
924311	AB2-078 C O1 (Suspended)	2.2130	50/50	2.2130
924312	AB2-078 E O1 (Suspended)	1.4754	50/50	1.4754
924321	AB2-079 C O1 (Suspended)	2.2130	50/50	2.2130
924322	AB2-079 E O1 (Suspended)	1.4754	50/50	1.4754
925611	AC1-036 C	0.2613	50/50	0.2613
925612	AC1-036 E	0.9919	50/50	0.9919
926274	AC1-105 E	1.1347	Adder	1.33
935221	AD1-157 C	0.2735	50/50	0.2735
935222	AD1-157 E	1.1556	50/50	1.1556
936265	AD2-033 C	15.0095	50/50	15.0095
936266	AD2-033 E	10.0064	50/50	10.0064
936361	AD2-046 C O1	6.2768	50/50	6.2768
936362	AD2-046 E O1	2.8864	50/50	2.8864
936485	AD2-063 C	17.3340	50/50	17.3340
936486	AD2-063 E	11.5560	50/50	11.5560
938371	AE1-056 C	7.4729	50/50	7.4729
938372	AE1-056 E	4.0831	50/50	4.0831
939181	AE1-148 C	6.3526	50/50	6.3526
939182	AE1-148 E	4.2350	50/50	4.2350
940661	AE2-053 O1	2.3528	50/50	2.3528
942451	AE2-258	2.7157	50/50	2.7157
942461	AE2-259 C O1	11.5560	50/50	11.5560
942462	AE2-259 E O1	7.7040	50/50	7.7040
943911	AF1-059	48.6626	50/50	48.6626

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946301	AF1-294 C	4.9067	50/50	4.9067
946302	AF1-294 E	3.2711	50/50	3.2711
958211	AF2-115 C	2.8863	50/50	2.8863
958212	AF2-115 E	1.9242	50/50	1.9242
958801	AF2-171 C	17.3340	50/50	17.3340
958802	AF2-171 E	11.5560	50/50	11.5560
959311	AF2-222 C	19.2600	50/50	19.2600
959312	AF2-222 E	12.9042	50/50	12.9042
961791	AG1-021 C	2.3090	50/50	2.3090
961792	AG1-021 E	1.5394	50/50	1.5394
961891	AG1-030 C	17.3178	50/50	17.3178
961892	AG1-030 E	11.5452	50/50	11.5452
962041	AG1-048 C	14.4315	50/50	14.4315
962042	AG1-048 E	9.6210	50/50	9.6210
962491	AG1-098 C O2	14.4323	50/50	14.4323
962492	AG1-098 E O2	9.6215	50/50	9.6215
962561	AG1-105 C O2	7.3134	50/50	7.3134
962562	AG1-105 E O2	4.8756	50/50	4.8756
963171	AG1-166 C	2.3090	50/50	2.3090
963172	AG1-166 E	1.5394	50/50	1.5394
963181	AG1-167 C	2.3090	50/50	2.3090
963182	AG1-167 E	1.5394	50/50	1.5394
963191	AG1-168 C	2.3090	50/50	2.3090
963192	AG1-168 E	1.5394	50/50	1.5394
963201	AG1-169 C	2.3090	50/50	2.3090
963202	AG1-169 E	1.5394	50/50	1.5394
963211	AG1-170 C	2.3090	50/50	2.3090
963212	AG1-170 E	1.5394	50/50	1.5394
963312	AG1-180 BAT	11.8041	50/50	11.8041
963321	AG1-181 C O2	19.4699	50/50	19.4699
963361	AG1-185 O2	9.4201	50/50	9.4201
963641	AG1-215 C	1.0776	50/50	1.0776
963642	AG1-215 E	1.6163	50/50	1.6163
964111	AG1-272 C	2.9699	50/50	2.9699
964112	AG1-272 E	0.8821	50/50	0.8821
964121	AG1-273 C	2.9699	50/50	2.9699
964122	AG1-273 E	0.8821	50/50	0.8821
964131	AG1-274 C	2.9699	50/50	2.9699
964132	AG1-274 E	0.8821	50/50	0.8821
964791	AG1-342 C	2.7377	50/50	2.7377
964792	AG1-342 E	2.1511	50/50	2.1511
964821	AG1-345 C	0.9236	50/50	0.9236
964822	AG1-345 E	0.6157	50/50	0.6157
964931	AG1-357 C O2	23.0916	50/50	23.0916
964932	AG1-357 E O2	15.3944	50/50	15.3944
965191	AG1-384 C	2.9699	50/50	2.9699
965192	AG1-384 E	0.8821	50/50	0.8821
965281	AG1-393 C	2.3090	50/50	2.3090
965282	AG1-393 E	1.5394	50/50	1.5394
965451	AG1-413 C O2	19.3951	50/50	19.3951
965452	AG1-413 E O2	12.9301	50/50	12.9301
965591	AG1-427 C	13.6939	50/50	13.6939

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965592	AG1-427 E	9.1485	50/50	9.1485
965641	AG1-432 C O2	23.1120	50/50	23.1120
965642	AG1-432 E O2	15.4080	50/50	15.4080
965721	AG1-440 C	1.6155	Adder	3.59
965722	AG1-440 E	1.0770	Adder	2.39
965731	AG1-441 C	1.6155	Adder	3.59
965732	AG1-441 E	1.0770	Adder	2.39
965771	AG1-445	0.9334	Adder	2.07
965781	AG1-446	0.9334	Adder	2.07
965831	AG1-451	3.8520	50/50	3.8520
WEC	WEC	0.0491	Confirmed LTF	0.0491
LGEE	LGEE	0.1030	Confirmed LTF	0.1030
CPL	CPL	0.3119	Confirmed LTF	0.3119
CBM-W2	CBM-W2	1.8189	Confirmed LTF	1.8189
NY	NY	0.0459	Confirmed LTF	0.0459
TVA	TVA	0.3248	Confirmed LTF	0.3248
O-066	O-066	0.6865	Confirmed LTF	0.6865
SIGE	SIGE	0.0284	Confirmed LTF	0.0284
CBM-S2	CBM-S2	3.9881	Confirmed LTF	3.9881
CBM-S1	CBM-S1	0.0836	Confirmed LTF	0.0836
G-007	G-007	0.1082	Confirmed LTF	0.1082
MEC	MEC	0.2749	Confirmed LTF	0.2749
LAGN	LAGN	0.3990	Confirmed LTF	0.3990
CBM-W1	CBM-W1	2.0890	Confirmed LTF	2.0890

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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
175031695	961060	AF2-397 TAP	DVP	314765	6MTEAGLE	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	148.47	149.84	DC	9.04

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

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

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

13.5.48 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
172903708	965590	AG1-427 TAP	DVP	314681	3CHASCTY	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	123.79	133.61	DC	34.29

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314677	6BUCKING	0.2253	50/50	0.2253
314713	3PAMPLIN	3.9554	50/50	3.9554
924032	AB2-045 E	0.6664	50/50	0.6664
925611	AC1-036 C	0.9224	50/50	0.9224
925612	AC1-036 E	3.5012	50/50	3.5012
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.2219	50/50	0.2219
932512	AC2-071 E (Withdrawn : 01/22/2021)	0.7087	50/50	0.7087
935221	AD1-157 C	0.5771	50/50	0.5771
935222	AD1-157 E	2.4386	50/50	2.4386
936485	AD2-063 C	74.2293	50/50	74.2293
936486	AD2-063 E	49.4862	50/50	49.4862
938371	AE1-056 C	15.7695	50/50	15.7695
938372	AE1-056 E	8.6163	50/50	8.6163
942461	AE2-259 C O1	12.6876	50/50	12.6876
942462	AE2-259 E O1	8.4584	50/50	8.4584
958801	AF2-171 C	43.3908	50/50	43.3908
958802	AF2-171 E	28.9272	50/50	28.9272
959311	AF2-222 C	65.1050	50/50	65.1050
959312	AF2-222 E	43.6203	50/50	43.6203
963321	AG1-181 C O2	70.8641	50/50	70.8641
963361	AG1-185 O2	34.2859	50/50	34.2859
964111	AG1-272 C	10.4831	50/50	10.4831
964112	AG1-272 E	3.1137	50/50	3.1137
964121	AG1-273 C	10.4831	50/50	10.4831
964122	AG1-273 E	3.1137	50/50	3.1137
964131	AG1-274 C	10.4831	50/50	10.4831
964132	AG1-274 E	3.1137	50/50	3.1137
965191	AG1-384 C	10.4831	50/50	10.4831
965192	AG1-384 E	3.1137	50/50	3.1137
965591	AG1-427 C	60.2032	50/50	60.2032
965592	AG1-427 E	40.2202	50/50	40.2202
965641	AG1-432 C O2	25.3752	50/50	25.3752
965642	AG1-432 E O2	16.9168	50/50	16.9168
965831	AG1-451	4.2292	50/50	4.2292
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	1.2692	50/50	1.2692

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	0.8462	50/50	0.8462
G-007A	G-007A	0.0551	Confirmed LTF	0.0551
VFT	VFT	0.1484	Confirmed LTF	0.1484
CALDERWOOD	CALDERWOOD	0.0393	Confirmed LTF	0.0393
PRAIRIE	PRAIRIE	0.1446	Confirmed LTF	0.1446
CHEOAH	CHEOAH	0.0400	Confirmed LTF	0.0400
CBM-N	CBM-N	0.0264	Confirmed LTF	0.0264
COTTONWOOD	COTTONWOOD	0.1470	Confirmed LTF	0.1470
HAMLET	HAMLET	0.0699	Confirmed LTF	0.0699
GIBSON	GIBSON	0.0268	Confirmed LTF	0.0268
BLUEG	BLUEG	0.0833	Confirmed LTF	0.0833
TRIMBLE	TRIMBLE	0.0267	Confirmed LTF	0.0267
CATAWBA	CATAWBA	0.0385	Confirmed LTF	0.0385

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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
174009716	966860	AG1-557 TAP	DVP	314677	6BUCKING	DVP	1	DVP_P4-2: 511T556	breaker	684.0	214.22	216.45	DC	15.3

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

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

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

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

13.6 Contingency Descriptions - Secondary POI

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

Contingency Name	Contingency Definition
DVP_P4-2: 219322	CONTINGENCY 'DVP_P4-2: 219322' /* BREMO 230 KV 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 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 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_P4-2: 511T556	CONTINGENCY 'DVP_P4-2: 511T556' /* RAWLINGS 500 KV OPEN BRANCH FROM BUS 942930 TO BUS 314936 CKT 1 /* AE2-313 TAP 500.00 - 8RAWLINGS 500.00 OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P1-2: LN 90	CONTINGENCY 'DVP_P1-2: LN 90' OPEN BRANCH FROM BUS 314265 TO BUS 314584 CKT 1 /* 3FIVEFORKSDP115.00 - 3LITTLTN 115.00 OPEN BRANCH FROM BUS 314265 TO BUS 314673 CKT 1 /* 3FIVEFORKSDP115.00 - 3PALMERSPRNG115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314584 TO BUS 314585 CKT 1 /* 3LITTLTN 115.00 - 3L GASTN 115.00 OPEN BUS 314265 /* ISLAND: 3FIVEFORKSDP115.00 OPEN BUS 314584 /* ISLAND: 3LITTLTN 115.00 OPEN BUS 314585 /* ISLAND: 3L GASTN 115.00 END

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

Contingency Name	Contingency Definition
DVP_P2-2: BREMO B4	CONTINGENCY 'DVP_P2-2: BREMO B4' /* BREMO 115 KV OPEN BRANCH FROM BUS 313871 TO BUS 313874 CKT 1 /* 3COBBS CREEK115.00 - 3JAMES RI TP115.00 OPEN BRANCH FROM BUS 313871 TO BUS 314762 CKT 1 /* 3COBBS CREEK115.00 - 3JAMES R 115.00 OPEN BRANCH FROM BUS 313874 TO BUS 313875 CKT 1 /* 3JAMES RI TP115.00 - 3TRICESLK 115.00 OPEN BRANCH FROM BUS 313874 TO BUS 314744 CKT 1 /* 3JAMES RI TP115.00 - 3BREMO 115.00 OPEN BUS 313871 /* ISLAND: 3COBBS CREEK115.00 OPEN BUS 313874 /* ISLAND: 3JAMES RI TP115.00 OPEN BUS 313875 /* ISLAND: 3TRICESLK 115.00 OPEN BUS 314762 /* ISLAND: 3JAMES R 115.00 OPEN BRANCH FROM BUS 313708 TO BUS 314744 CKT 1 /* 3FORK UNION 115.00 - 3BREMO 115.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 END
DVP_P4-2: L5T68	CONTINGENCY 'DVP_P4-2: L5T68' / 388 OPEN BRANCH FROM BUS 314536 TO BUS 961850 CKT 1 / 314536 3SUFFOLK 115 961850 AG1-027 TAP 115 1 OPEN BRANCH FROM BUS 314537 TO BUS 314536 CKT 2 / 314537 6SUFFOLK 230 314536 3SUFFOLK 115 2 END
DVP_P1-2: LN 1012-E-1	CONTINGENCY 'DVP_P1-2: LN 1012-E-1' / 307 OPEN BRANCH FROM BUS 314681 TO BUS 965590 CKT 1 / 314681 3CHASCTY 115 965590 AG1-427 TAP 115 1 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
DVP_P1-2: LN 33-A	CONTINGENCY 'DVP_P1-2: LN 33-A' / 937 OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 / 314267 3CHASCTY2 115 314669 3BARNES J 115 1 OPEN BRANCH FROM BUS 314669 TO BUS 962560 CKT 1 / 314669 3BARNES J 115 962560 AG1-105 TAP 115 1 END
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_P4-2: 1T158	CONTINGENCY 'DVP_P4-2: 1T158' / 330 OPEN BRANCH FROM BUS 314426 TO BUS 314701 CKT 1 / 314426 3FT PKET 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314426 TO BUS 963641 CKT 1 / 314426 3FT PKET 115 963641 AG1-215 C 115 1 OPEN BRANCH FROM BUS 314426 TO BUS 965281 CKT 1 / 314426 3FT PKET 115 965281 AG1-393 C 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 / 313755 3FLAT CREEK 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 / 313755 3FLAT CREEK 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 / 314519 3LONEPINE_1 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 END
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' / 187 OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 / 313725 6DRY BREAD 230 314563 6CLUBHSE 230 1 END
DVP_P1-2: LN 45	CONTINGENCY 'DVP_P1-2: LN 45' / 1588 OPEN BRANCH FROM BUS 304099 TO BUS 304102 CKT 1 / 304099 3WARREN TAP 115 304102 3GW KING TAP 115 1 OPEN BRANCH FROM BUS 304099 TO BUS 304107 CKT 1 / 304099 3WARREN TAP 115 304107 3WARRENTN BU 115 1 OPEN BRANCH FROM BUS 304099 TO BUS 305640 CKT 1 / 304099 3WARREN TAP 115 305640 3BULLOKSOLTA 115 1 OPEN BRANCH FROM BUS 304089 TO BUS 304100 CKT 1 / 304089 3HEND
DVP_P1-3: 6SEDGE HILL-TX#1	CONTINGENCY 'DVP_P1-3: 6SEDGE HILL-TX#1' / 857 OPEN BRANCH FROM BUS 314696 TO BUS 314697 CKT 1 / 314696 3SEDGE HILL 115 314697 6SEDGE HILL 230 1 END
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

Contingency Name	Contingency Definition
DVP_P4-2: 8442	CONTINGENCY 'DVP_P4-2: 8442' / 377 OPEN BRANCH FROM BUS 314521 TO BUS 314713 CKT 1 / 314521 3PAMPL_1 115 314713 3PAMPLIN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 / 314691 3FARMVIL 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314713 TO BUS 314726 CKT 1 / 314713 3PAMPLIN 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314726 TO BUS 942461 CKT 1 / 314726 3WILLIS 115 942461 AE2-259 C O1 115 1 OPEN BRANCH FROM BUS 314726 TO BUS 965641 CKT 1 / 314726 3WILLIS 115 965641 AG1-432 C O2 115 1 OPEN BRANCH FROM BUS 314726 TO BUS 965831 CKT 1 / 314726 3WILLIS 115 965831 AG1-451 115 1 CHANGE BUS 314713 LOAD BY -100.00 PERCENT /* 314713 3PAMPLIN 115 DEFAULT DISPATCH END
DVP_P4-5: FARMVIL L432	CONTINGENCY 'DVP_P4-5: FARMVIL L432' / 1172 OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 / 313802 6PRINCE EDW 230 314268 6BRIERY 230 1 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 / 313802 6PRINCE EDW 230 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 / 314268 6BRIERY 230 964840 AG1-347 TAP 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 / 314691 3FARMVIL 115 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 / 314691 3FARMVIL 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 / 314691 3FARMVIL 115 314692 6FARMVIL 230 2 END
DVP_P1-2: LN 31-A	CONTINGENCY 'DVP_P1-2: LN 31-A' / 285 OPEN BRANCH FROM BUS 314666 TO BUS 314712 CKT 1 / 314666 3ALTVSTA 115 314712 3OTTER R 115 1 OPEN BRANCH FROM BUS 314694 TO BUS 314712 CKT 1 / 314694 3GRIT 115 314712 3OTTER R 115 1 OPEN BRANCH FROM BUS 314694 TO BUS 942750 CKT 1 / 314694 3GRIT 115 942750 AE2-291 TAP 115 1 END

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

Contingency Name	Contingency Definition
DVP_P1-2: LN 84	CONTINGENCY 'DVP_P1-2: LN 84' / 358 OPEN BRANCH FROM BUS 314521 TO BUS 314713 CKT 1 / 314521 3PAMPL_1 115 314713 3PAMPLIN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 / 314691 3FARMVIL 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314713 TO BUS 314726 CKT 1 / 314713 3PAMPLIN 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314726 TO BUS 942461 CKT 1 / 314726 3WILLIS 115 942461 AE2-259 C O1 115 1 OPEN BRANCH FROM BUS 314726 TO BUS 965641 CKT 1 / 314726 3WILLIS 115 965641 AG1-432 C O2 115 1 OPEN BRANCH FROM BUS 314726 TO BUS 965831 CKT 1 / 314726 3WILLIS 115 965831 AG1-451 115 1 END
DVP_P4-2: 556T591	CONTINGENCY 'DVP_P4-2: 556T591' /* RAWLINGS 500 KV OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 OPEN BRANCH FROM BUS 314935 TO BUS 314936 CKT 1 /* 8HERITAGE 500.00 - 8RAWLINGS 500.00 END
DVP_P1-2: LN 298-A	CONTINGENCY 'DVP_P1-2: LN 298-A' OPEN BRANCH FROM BUS 314677 TO BUS 966860 CKT 1 /* 6BUCKING 230.00 - AG1- 557 TAP 230.00 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 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 68-A	CONTINGENCY 'DVP_P1-2: LN 68-A' / 353 OPEN BRANCH FROM BUS 313737 TO BUS 314527 CKT 1 / 313737 3COPELD DP 115 314527 3HOLLAND 115 1 OPEN BRANCH FROM BUS 313737 TO BUS 961850 CKT 1 / 313737 3COPELD DP 115 961850 AG1-027 TAP 115 1 OPEN BRANCH FROM BUS 314527 TO BUS 938770 CKT 1 / 314527 3HOLLAND 115 938770 AE1-103 TAP 115 1 END
DVP_P1-2: LN 298-B	CONTINGENCY 'DVP_P1-2: LN 298-B' OPEN BRANCH FROM BUS 966860 TO BUS 314692 CKT 1 /* AG1-557 TAP 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 END
Base Case	

Contingency Name	Contingency Definition
DVP_P4-2: 202712	CONTINGENCY 'DVP_P4-2: 202712' / 723 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 / 313868 6CARTERV 230 314747 6BREMO 230 1 OPEN BRANCH FROM BUS 313868 TO BUS 933500 CKT 1 / 313868 6CARTERV 230 933500 AC2-165 TAP 230 1 OPEN BRANCH FROM BUS 314310 TO BUS 314322 CKT 1 / 314310 6JUDES F 230 314322 6MDLTHAN 230 1 OPEN BRANCH FROM BUS 314310 TO BUS 314333 CKT 1 / 314310 6JUDES F 230 314333 6POWHATN 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 / 314333 6POWHATN 230 933500 AC2-165 TAP 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 923862 CKT 1 / 314333 6POWHATN 230 923862 AB2-026 E 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 938561 CKT 1 / 314333 6POWHATN 230 938561 AE1-075 C 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 958501 CKT 1 / 314333 6POWHATN 230 958501 AF2-144 C 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 959531 CKT 1 / 314333 6POWHATN 230 959531 AF2-244 C 230 1 OPEN BRANCH FROM BUS 938561 TO BUS 938562 CKT 1 / 938561 AE1-075 C 230 938562 AE1-075 E 230 1 OPEN BRANCH FROM BUS 933500 TO BUS 933501 CKT 1 / 933500 AC2-165 TAP 230 933501 AC2-165 C 230 1 OPEN BRANCH FROM BUS 933501 TO BUS 933502 CKT 1 / 933501 AC2-165 C 230 933502 AC2-165 E 230 1 END
314435 6SAPONY 230 940480 AE2-033 TAP 230 1	CONTINGENCY '314435 6SAPONY 230 940480 AE2-033 TAP 230 1' OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 END
DVP_P4-2: 15832	CONTINGENCY 'DVP_P4-2: 15832' / 473 OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 / 313755 3FLAT CREEK 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 / 313755 3FLAT CREEK 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 / 314519 3LONEPINE_1 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 / 314691 3FARMVIL 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 / 314691 3FARMVIL 115 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 / 314691 3FARMVIL 115 314692 6FARMVIL 230 2 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 5-2028-C	CONTINGENCY 'DVP_P7-1: LN 5-2028-C' /*. OPEN BRANCH FROM BUS 314744 TO BUS 964230 CKT 1 /* 3BREMO 115.00 - AG1-284 TAP 115.00 OPEN BUS 314754 /* ISLAND: 3CUNNING 115.00 OPEN BRANCH FROM BUS 961060 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_P4-2: 210622	CONTINGENCY 'DVP_P4-2: 210622' /* 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_P1-2: LN 2193	CONTINGENCY 'DVP_P1-2: LN 2193' / 583 OPEN BRANCH FROM BUS 313707 TO BUS 313867 CKT 1 / 313707 6FORK UNION 230 313867 6BREMODIST 230 1 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 / 313867 6BREMODIST 230 314747 6BREMO 230 1 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 158-235	CONTINGENCY 'DVP_P7-1: LN 158-235' /*. OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 /* 3FLAT CREEK 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 /* 3FLAT CREEK 115.00 - 3MORAN 115.00 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 /* 3LONEPINE_1 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 /* 3FARMVIL 115.00 - 3MORAN 115.00 OPEN BUS 313755 /* ISLAND: 3FLAT CREEK 115.00 OPEN BUS 314519 /* ISLAND: 3LONEPINE_1 115.00 OPEN BUS 314707 /* ISLAND: 3MORAN 115.00 OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 /* 6PRINCE EDW 230.00 - 6BRIERY 230.00 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 /* 6PRINCE EDW 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 /* 6BRIERY 230.00 - AG1-347 TAP 230.00 OPEN BRANCH FROM BUS 314686 TO BUS 934620 CKT 1 /* 6CLOVER 230.00 - AD1-088 TAP 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 OPEN BUS 313802 /* ISLAND: 6PRINCE EDW 230.00 OPEN BUS 314268 /* ISLAND: 6BRIERY 230.00 OPEN BUS 934620 /* ISLAND: AD1-088 TAP 230.00 OPEN BUS 934621 /* ISLAND: AD1-088 MAIN230.00 OPEN BUS 934622 /* ISLAND: AD1-088 COL134.500 OPEN BUS 934623 /* ISLAND: AD1-088 TER 13.800 OPEN BUS 934624 /* ISLAND: AD1-088 COL234.500 OPEN BUS 934625 /* ISLAND: AD1-088 C 0.6600 OPEN BUS 934626 /* ISLAND: AD1-088 E 0.6600 END

Contingency Name	Contingency Definition
DVP_P4-6: CHASE C T342	CONTINGENCY 'DVP_P4-6: CHASE C T342' / 244 OPEN BRANCH FROM BUS 313849 TO BUS 314267 CKT 1 / 313849 3RIDGERD 115 314267 3CHASCTY2 115 1 OPEN BRANCH FROM BUS 313898 TO BUS 314267 CKT 1 / 313898 3BUTCHER CRK 115 314267 3CHASCTY2 115 1 OPEN BRANCH FROM BUS 314267 TO BUS 314518 CKT 1 / 314267 3CHASCTY2 115 314518 3CHASC_1 115 1 OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 / 314267 3CHASCTY2 115 314669 3BARNES J 115 1 OPEN BRANCH FROM BUS 314267 TO BUS 314681 CKT Z1 / 314267 3CHASCTY2 115 314681 3CHASCTY 115 Z1 OPEN BRANCH FROM BUS 313529 TO BUS 314681 CKT 1 / 313529 3BLUE STONE 115 314681 3CHASCTY 115 1 OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 / 313806 3HERBERT 115 314681 3CHASCTY 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 314708 CKT 1 / 314681 3CHASCTY 115 314708 3NORVIEW 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 314781 CKT 1 / 314681 3CHASCTY 115 314781 3BLACKBR 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 942451 CKT 1 / 314681 3CHASCTY 115 942451 AE2-258 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 965590 CKT 1 / 314681 3CHASCTY 115 965590 AG1-427 TAP 115 1 OPEN BRANCH FROM BUS 313527 TO BUS 924022 CKT 1 / 313527 AB2-043 C 0.55 924022 AB2-043 E O1 0.55 1 OPEN BRANCH FROM BUS 313528 TO BUS 313527 CKT 1 / 313528 AB2-043 COL 34.5 313527 AB2-043 C 0.55 1 OPEN BRANCH FROM BUS 313529 TO BUS 313528 CKT 1 / 313529 3BLUE STONE 115 313528 AB2-043 COL 34.5 1 END
DVP_P1-2: LN 235-A	CONTINGENCY 'DVP_P1-2: LN 235-A' / 450 OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 / 313802 6PRINCE EDW 230 314268 6BRIERY 230 1 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 / 313802 6PRINCE EDW 230 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 / 314268 6BRIERY 230 964840 AG1-347 TAP 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 / 314691 3FARMVIL 115 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314268 TO BUS 963271 CKT 1 / 314268 6BRIERY 230 963271 AG1-176 C O2 230 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 158	CONTINGENCY 'DVP_P1-2: LN 158' / 367 OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 / 313755 3FLAT CREEK 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 / 313755 3FLAT CREEK 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 / 314519 3LONEPINE_1 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 END
DVP_P7-1: LN 5-2028-A	CONTINGENCY 'DVP_P7-1: LN 5-2028-A' /*. OPEN BRANCH FROM BUS 314744 TO BUS 964230 CKT 1 /* 3BREMO 115.00 - AG1- 284 TAP 115.00 OPEN BUS 314754 /* ISLAND: 3CUNNING 115.00 OPEN BRANCH FROM BUS 313707 TO BUS 961060 CKT 1 /* 6FORK UNION 230.00 - AF2-397 TAP 230.00 END
DVP_P7-1: LN 5-2028-B	CONTINGENCY 'DVP_P7-1: LN 5-2028-B' /*. OPEN BRANCH FROM BUS 964230 TO BUS 314754 CKT 1 /* AG1-284 TAP 115.00 - 3CUNNING 115.00 OPEN BUS 314754 /* ISLAND: 3CUNNING 115.00 OPEN BRANCH FROM BUS 313707 TO BUS 961060 CKT 1 /* 6FORK UNION 230.00 - AF2-397 TAP 230.00 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 - 3SKIPPER 115.00 OPEN BUS 314595 /* ISLAND: 3PL HILL 115.00 OPEN BUS 314600 /* ISLAND: 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 5-2028-D	CONTINGENCY 'DVP_P7-1: LN 5-2028-D' / * . OPEN BRANCH FROM BUS 964230 TO BUS 314754 CKT 1 / * AG1-284 TAP 115.00 - 3CUNNING 115.00 OPEN BUS 314754 / * ISLAND: 3CUNNING 115.00 OPEN BRANCH FROM BUS 961060 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_P4-2: 3612	CONTINGENCY 'DVP_P4-2: 3612' / 348 OPEN BRANCH FROM BUS 314681 TO BUS 314781 CKT 1 / 314681 3CHASCTY 115 314781 3BLACKBR 115 1 OPEN BRANCH FROM BUS 314682 TO BUS 314869 CKT 1 / 314682 3BUGGS I 115 314869 3BURLING 115 1 OPEN BRANCH FROM BUS 314683 TO BUS 314788 CKT 1 / 314683 3CLRKVILLE 115 314788 3JONESTO 115 1 OPEN BRANCH FROM BUS 314683 TO BUS 314869 CKT 1 / 314683 3CLRKVILLE 115 314869 3BURLING 115 1 OPEN BRANCH FROM BUS 314781 TO BUS 314788 CKT 1 / 314781 3BLACKBR 115 314788 3JONESTO 115 1 OPEN BRANCH FROM BUS 314781 TO BUS 924301 CKT 1 / 314781 3BLACKBR 115 924301 AB2-077 C O1 115 1 OPEN BRANCH FROM BUS 314781 TO BUS 924311 CKT 1 / 314781 3BLACKBR 115 924311 AB2-078 C O1 115 1 OPEN BRANCH FROM BUS 314781 TO BUS 924321 CKT 1 / 314781 3BLACKBR 115 924321 AB2-079 C O1 115 1 OPEN BRANCH FROM BUS 924301 TO BUS 924302 CKT 1 / 924301 AB2-077 C O1 115 924302 AB2-077 E O1 115 1 OPEN BRANCH FROM BUS 924311 TO BUS 924312 CKT 1 / 924311 AB2-078 C O1 115 924312 AB2-078 E O1 115 1 OPEN BRANCH FROM BUS 924321 TO BUS 924322 CKT 1 / 924321 AB2-079 C O1 115 924322 AB2-079 E O1 115 1 OPEN BRANCH FROM BUS 314722 TO BUS 959310 CKT 1 / 314722 3TWITTYS 115 959310 AF2-222 TAP 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 314708 CKT 1 / 314681 3CHASCTY 115 314708 3NORVIEW 115 1 OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 / 313806 3HERBERT 115 314681 3CHASCTY 115 1 END
DVP_P1-2: LN 154-A	CONTINGENCY 'DVP_P1-2: LN 154-A' / 249 OPEN BRANCH FROM BUS 314713 TO BUS 314715 CKT 1 / 314713 3PAMPLIN 115 314715 3MADSONV 115 1 OPEN BRANCH FROM BUS 314715 TO BUS 959310 CKT 1 / 314715 3MADSONV 115 959310 AF2-222 TAP 115 1 OPEN BRANCH FROM BUS 314715 TO BUS 958801 CKT 1 / 314715 3MADSONV 115 958801 AF2-171 C 115 1 END

14 Affected Systems

14.1 TVA

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

14.2 Duke Energy Progress

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

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