



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-440
PALMER SPRINGS 115 KV
45 MW Capacity / 75 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.

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

3 General

The Interconnection Customer (IC), has proposed a Solar generating facility located in Mecklenburg County, Virginia. The installed facilities will have a total capability of 75 MW with 45 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is December 31, 2023. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-440
Project Name	PALMER SPRINGS 115 KV
State	Virginia
County	Mecklenburg
Transmission Owner	Dominion
MFO	75
MWE	75
MWC	45
Fuel	Solar
Basecase Study Year	2024

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

4 Point of Interconnection

4.1 Primary Point of Interconnection

AG1-440 "Palmer Springs 115 kV" will interconnect with the Dominion transmission system. The primary POI is a direct connect to the Palmer Springs 115 kV substation.

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

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

4.2 Secondary Point of Interconnection

There is no secondary point of interconnection specified for AG1-440.

5 Cost Summary

The AG1-440 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$2,700,000
Total System Network Upgrade Costs	\$378,756,000 ¹
Total Costs	\$381,456,000

This cost excludes a Federal Income Tax Gross Up charges. This tax may or may not be charged based on whether this project meets the eligibility requirements of IRS Notice 2016-36, 2016-25 I.R.B. (6/20/2016). If at a future date it is determined that the Federal Income Tax Gross charge is required, the Transmission Owner shall be reimbursed by the Interconnection Customer for such taxes.

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

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

6 Transmission Owner Scope of Work

The required Attachment Facilities, Direct Connection and Non-Direct Connection work for the interconnection of AG1-440 to the Dominion Transmission System is detailed in the following sections. The associated one-line showing the generation project attachment facilities and primary direct and non-direct connection is shown in Attachment 1.

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

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

Description	Total Cost
Attachment Facilities	\$1,700,000
New Breaker	\$1,000,000
Total Physical Interconnection Costs	\$2,700,000

AG1-440 "Palmer Springs 115 kV" will interconnect with the Dominion transmission system. The primary POI is a direct connect to the Palmer Springs 115 kV substation.

To accommodate the proposed Project, Dominion Energy will add one new 115 kV breaker to the existing Palmer Springs 115 kV substation to allow for the proposed interconnection. Dominion will install one span of overhead 115 kV line to the point of interconnection ("POI") including 115 kV interconnection metering.

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

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

7 Schedule

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

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

If the customer is ultimately responsible for network upgrades, then the schedule for those upgrades will be refined in future study phases. The customer would need to wait for those upgrades to be completed prior to commercial operation unless determined deliverable by an interim deliverability study. The elapsed time to complete any network upgrades is provided in the System Reinforcements table of this report.¹

These schedules will be more clearly identified in future study phases.

8 Transmission Owner Analysis

Dominion assessed the impact of the proposed AG1-440 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.

8.2 Short Circuit Analysis

No overdutied breakers identified.

8.3 Stability Analysis

To be performed in the Facilities Study phase.

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 Meteorological Data Reporting Requirements

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

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

10.3 Interconnected Transmission Owner Requirements

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

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

11 Summer Peak - Load Flow Analysis

The Queue Project AG1-440 was evaluated as a 75.0 MW (Capacity 45.0 MW) injection at the Palmer Springs 115 kV substation in the Dominion area. Project AG1-440 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-440 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

11.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPAC T
169249349	927260	AC1-222 TAP	115.0	DVP	314688	3CRST L HILL	115.0	DVP	1	DVP_P1-2: LN 556-D	single	285.760009766	99.57	100.48	DC	2.58
169249350	927260	AC1-222 TAP	115.0	DVP	314688	3CRST L HILL	115.0	DVP	1	DVP_P1-2: LN 556-C	single	285.760009766	99.57	100.48	DC	2.58

11.2 Multiple Facility Contingency

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPAC T
166983986	314681	3CHASCTY	115.0	DVP	314708	3NORVIE W	115.0	DVP	1	DVP_P7-1: LN 22-90	tower	400.0	98.61	101.0	DC	9.53
166983991	314708	3NORVIE W	115.0	DVP	314721	3SO HILL	115.0	DVP	1	DVP_P7-1: LN 22-90	tower	400.0	97.84	100.22	DC	9.53

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPAC T
168240223	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	single	275.0	124.79	125.86	DC	2.97
168525973	313719	3CHESTN UT	115.0	DVP	314623	3WITAKRS	115.0	DVP	1	DVP_P1-2: LN 2056-A	single	165.440002441	109.25	110.63	DC	2.27
168525975	313719	3CHESTN UT	115.0	DVP	314623	3WITAKRS	115.0	DVP	1	DVP_P1-2: LN 2056-B	single	165.440002441	107.08	108.46	DC	2.27
163348127	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 81-2056-A	tower	459.0	182.55	183.17	DC	6.33
168525798	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	Base Case	single	203.979995728	127.23	128.82	DC	3.25
168526010	313825	3PLYWOOD	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 33	single	141.0	121.16	125.44	DC	6.03
168526012	313825	3PLYWOOD	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 45	single	141.0	104.69	109.28	DC	6.48
168525963	313854	3CONSLD L	115.0	DVP	314554	3BTLEBRO	115.0	DVP	1	DVP_P1-2: LN 2056-B	single	165.440002441	115.91	117.28	DC	2.27
166983949	314267	3CHASCTY 2	115.0	DVP	314669	3BARN S J	115.0	DVP	1	DVP_P1-2: LN 158-235	tower	406.0	107.25	108.26	DC	9.17
163348195	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	159.74	161.46	DC	14.21
163348196	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P7-1: LN 54-2012-A	tower	830.0	159.66	161.37	DC	14.21
168831006	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	148.44	149.63	DC	8.02

ID	FROM BUS#	FROM BUS	KV	FROM BUS AREA	TO BUS#	TO BUS	KV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS LOADIN G %	POST PROJECTIONS LOADIN G %	AC/D C	MW IMPACT
168831007	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1	single	678.679992676	145.42	146.61	DC	8.02
168831008	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	single	678.679992676	132.27	133.31	DC	7.07
168831068	314524	3FRNKLN	115.0	DVP	314539	3UNCAMP	115.0	DVP	1	DVP_P1-2: LN 136	single	224.660003662	125.37	126.38	DC	2.27
168831069	314524	3FRNKLN	115.0	DVP	314539	3UNCAMP	115.0	DVP	1	DVP_P1-2: LN 108-C	single	224.660003662	123.59	124.59	DC	2.27
169038074	314559	3CAROLN A	115.0	DVP	314561	6CAROLN A	230.0	DVP	1	DVP_P1-2: LN 68-A	single	239.888000488	136.38	140.02	DC	8.73
169038075	314559	3CAROLN A	115.0	DVP	314561	6CAROLN A	230.0	DVP	1	DVP_P1-2: LN 140	single	239.888000488	130.82	134.46	DC	8.74
169038076	314559	3CAROLN A	115.0	DVP	314561	6CAROLN A	230.0	DVP	1	Base Case	single	226.539993286	110.04	113.63	DC	8.12
169038105	314561	6CAROLN A	230.0	DVP	314583	6LAKEVE W	230.0	DVP	1	DVP_P1-2: LN 246-B	single	375.059997559	104.92	106.53	DC	6.04
169038106	314561	6CAROLN A	230.0	DVP	314583	6LAKEVE W	230.0	DVP	1	DVP_P1-2: LN 246-A	single	375.059997559	103.49	105.1	DC	6.04
169038019	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2201	single	182.641998291	227.08	229.97	DC	5.28
169038020	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 130	single	182.641998291	185.43	187.01	DC	2.9
169038021	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	176.81401062	166.82	169.38	DC	4.52
163347941	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	147.1	148.58	DC	12.27
163348200	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	157.38	158.88	DC	12.47
163348201	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	830.0	146.52	147.99	DC	12.19
169038118	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2056-A	single	678.679992676	134.98	135.93	DC	7.88
169038119	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	130.35	131.49	DC	8.03
169038120	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	single	678.679992676	119.44	120.41	DC	7.07
169038095	314568	3EARLEYS	115.0	DVP	314569	6EARLEYS	230.0	DVP	2	DVP_P1-3: 6EARLEYS-TX#3	single	175.779998779	139.28	140.65	DC	2.41
169038139	314568	3EARLEYS	115.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-3: 6EARLEYS-TX#4	single	202.475997925	121.02	122.21	DC	2.41
169038134	314579	6HORNRT N	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	441.799987793	129.44	130.5	DC	4.7
169038135	314579	6HORNRT N	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	single	441.799987793	129.42	130.48	DC	4.7
163348150	314583	6LAKEVE W	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	196.92	197.42	DC	5.02
169038213	314583	6LAKEVE W	230.0	DVP	314579	6HORNRT N	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	441.799987793	101.89	102.96	DC	4.74
169038214	314583	6LAKEVE W	230.0	DVP	314579	6HORNRT N	230.0	DVP	1	DVP_P1-2: LN 238-A	single	441.799987793	101.86	102.94	DC	4.74
169249189	314623	3WITAKRS	115.0	DVP	313854	3CONSLDL	115.0	DVP	1	DVP_P1-2: LN 2056-B	single	165.440002441	115.97	117.34	DC	2.27
166983955	314669	3BARN S J	115.0	DVP	314684	3MT LREL	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	106.39	107.4	DC	9.17
166983973	314676	3BRUNWICK	115.0	DVP	314704	3LAWREN C	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	400.0	103.92	104.48	DC	4.95
169249030	314677	6BUCKIN G	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	230.43	231.56	DC	6.45

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS LOADIN G %	POST PROJECTIONS LOADIN G %	AC/D C	MW IMPACT
169249031	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	224.14	225.27	DC	6.45
166983932	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	110.48	111.49	DC	9.17
169248988	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P1-2: LN 235-A	single	182.641998291	315.54	318.38	DC	5.18
169248991	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	Base Case	single	176.81401062	192.42	194.21	DC	3.18
169248999	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 298	single	198.057998657	216.78	218.83	DC	4.05
169249002	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	Base Case	single	193.734008789	137.66	138.99	DC	2.56
169249009	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	single	559.299987793	232.21	233.36	DC	6.45
169249010	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B	single	559.299987793	225.79	226.95	DC	6.45
166983975	314693	3FRMAN D	115.0	DVP	314565	3CLUBHSE 71	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	400.0	103.28	103.84	DC	4.95
169249058	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	single	226.727996826	165.96	168.69	DC	6.19
169249060	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 31-A	single	226.727996826	123.54	125.55	DC	4.55
169249074	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.055999756	146.51	148.92	DC	6.17
169249076	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-2: LN 31-A	single	256.055999756	108.31	110.07	DC	4.51
168525793	314701	3LONEPN	115.0	DVP	313755	3FLAT CREEK	115.0	DVP	1	Base Case	single	203.979995728	127.23	128.82	DC	3.25
163838943	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-6: CAROLIN T122	breaker	199.0	201.09	214.29	DC	26.7
163838944	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 13002	breaker	199.0	165.34	176.08	DC	21.34
163838945	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 102802	breaker	199.0	165.34	176.08	DC	21.34
163839156	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P1-2: LN 90	single	199.0	129.11	135.68	DC	13.07
163839157	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	Base Case	single	191.0	122.01	127.28	DC	10.05
163839818	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P7-1: LN 22-90	tower	199.0	197.38	210.48	DC	26.58
166983971	314704	3LAWREN C	115.0	DVP	314693	3FRMAN D	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	400.0	104.15	104.71	DC	4.95
169249027	314707	3MORAN	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	single	203.979995728	123.79	125.39	DC	3.25
169248996	314726	3WILLIS	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	single	186.119995117	211.27	212.61	DC	2.49
166983854	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	139.63	140.65	DC	9.17
169464577	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 40-A	single	331.820007324	106.82	108.44	DC	5.37
169464578	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 71	single	331.820007324	106.76	108.38	DC	5.37
169753721	938770	AE1-103 TAP	115.0	DVP	314527	3HOLLAND	115.0	DVP	1	DVP_P1-2: LN 136	single	224.660003662	119.69	120.7	DC	2.27
169753722	938770	AE1-103 TAP	115.0	DVP	314527	3HOLLAND	115.0	DVP	1	DVP_P1-2: LN 108-C	single	224.660003662	117.95	118.96	DC	2.27
163348180	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	165.75	166.43	DC	12.47
163348181	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	158.06	159.78	DC	14.21
169753704	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	145.73	146.85	DC	8.03

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
169753705	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1	single	678.679992 676	142.71	143.83	DC	8.03
169753706	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	single	678.679992 676	131.46	132.5	DC	7.07

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	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168240218	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P1-3_#1377_05J.FERR 765_1	operation	402.0	160.65	161.32	DC	5.98
168240219	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	operation	402.0	160.65	161.32	DC	5.98
168240220	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	operation	275.0	139.55	140.36	DC	4.94
168526129	313802	6PRINCE EDW	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 298	operation	571.520019 531	120.08	120.61	DC	6.75
168526009	313825	3PLYWOOD	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 33	operation	141.0	129.94	133.16	DC	10.05
168526082	313858	3SO JUSTICE	115.0	DVP	314577	3COX DP	115.0	DVP	1	DVP_P1-2: LN 2056-A	operation	165.440002 441	123.89	124.93	DC	3.81
168525877	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operation	661.760009 766	193.59	194.06	DC	6.85
168526248	313898	3BUTCHER CRK	115.0	DVP	936260	AD2-033 TAP	115.0	DVP	1	DVP_P1-2: LN 84	operation	269.779998 779	104.08	105.21	DC	6.79
168831175	314266	6NORTHAMPTON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	571.520019 531	140.08	141.62	DC	8.81
168831316	314267	3CHASCTY2	115.0	DVP	314669	3BARNES J	115.0	DVP	1	DVP_P1-2: LN 40-A	operation	331.820007 324	123.84	125.05	DC	8.94
168831318	314267	3CHASCTY2	115.0	DVP	314669	3BARNES J	115.0	DVP	1	Base Case	operation	331.820007 324	104.83	105.9	DC	7.94
168831345	314268	6BRIERY	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 298	operation	571.520019 531	119.0	119.53	DC	6.75
168831003	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992 676	192.92	194.89	DC	13.37

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADING %	POST PROJE CT LOADING %	AC DC	MW IMPACT
168831005	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operation	678.679992676	175.7	177.45	DC	11.78
168526235	314558	3BOYKINS	115.0	DVP	313720	3NEWSOMS	115.0	DVP	1	DVP_P1-2: LN 238-B	operation	280.119995117	107.2	107.91	DC	4.44
169038071	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 68-A	operation	239.888000488	181.74	187.82	DC	14.56
169038073	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	Base Case	operation	226.539993286	135.38	141.37	DC	13.54
169038102	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	375.059997559	171.85	174.53	DC	10.07
169038104	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	Base Case	operation	375.059997559	113.86	116.16	DC	8.61
169038176	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	548.020019531	144.74	146.35	DC	8.81
169038017	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2201	operation	182.641998291	280.26	285.08	DC	8.79
169038018	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operation	176.81401062	222.82	227.08	DC	7.53
169038115	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2056-A	operation	678.679992676	175.58	177.52	DC	13.14
169038117	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	operation	678.679992676	169.49	171.23	DC	11.79
169037981	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	325.45	326.01	DC	7.15
169037985	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	operation	571.520019531	192.9	193.36	DC	5.87
169037999	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	316.77	317.33	DC	7.15
169038003	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	operation	571.520019531	184.2	184.66	DC	5.87
169038238	314577	3COX DP	115.0	DVP	313719	3CHESTNUT	115.0	DVP	1	DVP_P1-2: LN 2056-A	operation	165.440002441	115.55	116.59	DC	3.81
169038132	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operation	441.799987793	170.49	172.27	DC	7.83
168525836	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P1-2: LN 2056-A	operation	375.059997559	219.21	219.91	DC	5.83
169038211	314583	6LAKEVEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operation	441.799987793	126.54	128.33	DC	7.9
168831139	314599	6ROA VAL	230.0	DVP	314266	6NORTHAMPTON	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	548.020019531	144.68	146.29	DC	8.81
169249290	314669	3BARNES J	115.0	DVP	314684	3MT LREL	115.0	DVP	1	DVP_P1-2: LN 40-A	operation	331.820007324	122.78	123.99	DC	8.94
169249292	314669	3BARNES J	115.0	DVP	314684	3MT LREL	115.0	DVP	1	Base Case	operation	331.820007324	103.77	104.84	DC	7.94
169249285	314675	3BRODNAX	115.0	DVP	314676	3BRUNWICK	115.0	DVP	1	DVP_P1-2: LN 33	operation	299.859985352	127.93	128.76	DC	5.47
169249287	314675	3BRODNAX	115.0	DVP	314676	3BRUNWICK	115.0	DVP	1	Base Case	operation	299.859985352	104.6	105.23	DC	4.17
169249303	314676	3BRUNWICK	115.0	DVP	314704	3LAWRENC	115.0	DVP	1	DVP_P1-2: LN 33	operation	326.179992676	126.11	126.87	DC	5.47
169249305	314676	3BRUNWICK	115.0	DVP	314704	3LAWRENC	115.0	DVP	1	Base Case	operation	326.179992676	103.91	104.48	DC	4.17
169249028	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	315.91	316.76	DC	10.75
169249032	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	operation	571.520019531	194.34	195.0	DC	8.36
169249321	314681	3CHASCTY	115.0	DVP	314708	3NORVIEW	115.0	DVP	1	DVP_P1-2: LN 298	operation	326.179992676	122.29	122.95	DC	4.79
169249257	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	DVP_P1-2: LN 40-A	operation	331.820007324	128.51	129.72	DC	8.94
169249259	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	Base Case	operation	331.820007324	108.67	109.74	DC	7.94

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADING %	POST PROJE CT LOADING %	AC DC	MW IMPACT
169249 375	3146 87	3CREWE	115 .0	DVP	3147 01	3LONEPN	115 .0	DVP	1	DVP_P1-2: LN 84	operation	370.359985 352	103.75	104.58	DC	6.79
169249 351	3146 90	6BLACK WALNU	230 .0	DVP	3146 86	6CLOVER	230 .0	DVP	1	DVP_P1-2: LN 296-A	operation	814.979980 469	107.32	107.92	DC	10.87
169248 986	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	2	DVP_P1-2: LN 235-A	operation	182.641998 291	476.09	478.21	DC	8.63
169248 989	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	2	Base Case	operation	176.814010 62	300.65	302.0	DC	5.3
169248 997	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	1	DVP_P1-2: LN 298	operation	198.057998 657	356.11	357.64	DC	6.75
169249 000	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	1	Base Case	operation	193.734008 789	220.98	221.97	DC	4.27
168526 127	3146 92	6FARMVIL	230 .0	DVP	3138 02	6PRINCE EDW	230 .0	DVP	1	DVP_P1-2: LN 298	operation	571.520019 531	120.12	120.65	DC	6.75
169249 007	3146 92	6FARMVIL	230 .0	DVP	3146 77	6BUCKING	230 .0	DVP	1	DVP_P1-2: LN 556-C	operation	559.299987 793	320.73	321.6	DC	10.76
169249 011	3146 92	6FARMVIL	230 .0	DVP	3146 77	6BUCKING	230 .0	DVP	1	Base Case	operation	559.299987 793	193.88	194.55	DC	8.37
169249 309	3146 93	3FRMAN D	115 .0	DVP	3145 65	3CLUBHSE71	115 .0	DVP	1	DVP_P1-2: LN 33	operation	326.179992 676	125.32	126.08	DC	5.46
169249 056	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	operation	226.727996 826	245.41	247.45	DC	10.32
169249 059	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DVP	1	Base Case	operation	223.531997 681	141.67	142.91	DC	6.12
169249 072	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	operation	256.055999 756	216.65	218.45	DC	10.29
169249 075	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DVP	2	Base Case	operation	253.235992 432	123.81	124.89	DC	6.06
169249 034	3146 97	6SEEDGE HILL	230 .0	DVP	9272 50	AC1-221 TAP	230 .0	DVP	1	DVP_P1-2: LN 556-D	operation	674.919982 91	275.78	276.39	DC	9.14
163839 151	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P1-2: LN 90	operation	199.0	161.83	172.7	DC	21.78
163839 152	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	Base Case	operation	191.0	153.68	162.38	DC	16.75
169249 294	3147 04	3LAWRENC	115 .0	DVP	3146 93	3FRMAN D	115 .0	DVP	1	DVP_P1-2: LN 33	operation	326.179992 676	126.39	127.15	DC	5.46
169249 331	3147 06	3MARTIN TAP	115 .0	DVP	3146 87	3CREWE	115 .0	DVP	1	DVP_P1-2: LN 84	operation	326.179992 676	116.61	117.55	DC	6.79
169249 324	3147 08	3NORVIEW	115 .0	DVP	3147 21	3SO HILL	115 .0	DVP	1	DVP_P1-2: LN 298	operation	326.179992 676	121.37	122.03	DC	4.79
169249 229	3147 14	3PERTH	115 .0	DVP	9427 50	AE2-291 TAP	115 .0	DVP	1	DVP_P1-2: LN 556-D	operation	285.760009 766	119.18	119.86	DC	4.28
169249 071	3147 15	3MADSONV	115 .0	DVP	3147 13	3PAMPLIN	115 .0	DVP	1	Base Case	operation	331.820007 324	103.53	104.1	DC	4.15
169249 314	3147 21	3SO HILL	115 .0	DVP	9439 10	AF1-059 TAP	115 .0	DVP	1	DVP_P1-2: LN 298	operation	299.859985 352	123.68	124.4	DC	4.79
169249 334	3147 23	3VICTRIA	115 .0	DVP	3147 25	3VICT DP	115 .0	DVP	1	DVP_P1-2: LN 84	operation	269.779998 779	115.57	116.7	DC	6.79
169249 341	3147 25	3VICT DP	115 .0	DVP	9618 90	AG1-030 TAP	115 .0	DVP	1	DVP_P1-2: LN 84	operation	269.779998 779	114.31	115.44	DC	6.79
169464 540	3147 47	6BREMO	230 .0	DVP	3138 67	6BREMODIST	230 .0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operation	661.760009 766	195.75	196.22	DC	6.85
169464 574	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DVP	1	DVP_P1-2: LN 40-A	operation	331.820007 324	164.55	165.76	DC	8.94
169464 576	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DVP	1	Base Case	operation	331.820007 324	143.1	144.17	DC	7.94
168525 935	9343 30	AD1-057 TAP	230 .0	DVP	3138 45	6HATHAWAY	230 .0	DVP	1	DVP_P1-2: LN 238-B	operation	441.799987 793	160.74	161.42	DC	6.73
168831 336	9362 60	AD2-033 TAP	115 .0	DVP	3144 27	3LUNENBURG	115 .0	DVP	1	DVP_P1-2: LN 84	operation	269.779998 779	121.65	122.78	DC	6.79

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADING %	POST PROJE CT LOADING %	AC DC	MW IMPACT
169038168	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	571.520019531	148.65	150.19	DC	8.81
169753701	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	193.36	195.34	DC	13.38
169753703	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operation	678.679992676	178.5	180.25	DC	11.79
169249278	943910	AF1-059 TAP	115.0	DVP	314675	3BRODNAX	115.0	DVP	1	DVP_P1-2: LN 33	operation	299.859985352	128.73	129.56	DC	5.47
169249280	943910	AF1-059 TAP	115.0	DVP	314675	3BRODNAX	115.0	DVP	1	Base Case	operation	299.859985352	105.4	106.03	DC	4.17
168830929	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	operation	571.520019531	190.19	190.65	DC	5.87
169249252	961890	AG1-030 TAP	115.0	DVP	314706	3MARTIN TAP	115.0	DVP	1	DVP_P1-2: LN 154-A	operation	269.779998779	130.81	131.94	DC	6.79

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
168240223	4	05EDAN 1 138.0 kV - 05DANVL2 138.0 kV Ckt 1	AEP: n6124 (556) : 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
169248999,169249002	28	3FARMVIL 115.0 kV - 6FARMVIL 230.0 kV Ckt 1	DVP: dom-089 (924) : Add additional 230/115 kV transformer at Farmville substation Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169248991,169248988	27	3FARMVIL 115.0 kV - 6FARMVIL 230.0 kV Ckt 2		
169038095	17	3EARLEYS 115.0 kV - 6EARLEYS 230.0 kV Ckt 2	DVP: dom-016 (840) : Add additional 230/115 kV transformer at Earleys substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169038139	18	3EARLEYS 115.0 kV - 6EARLEYS 230.0 kV Ckt 1		
169038075,169038074,169038076	13	3CAROLNA 115.0 kV - 6CAROLNA 230.0 kV Ckt 1	DVP: n6113 (1032) : Add additional 230/115 kV transformer at Carolina substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
166983991	3	3NORVIEW 115.0 kV - 3SO HILL 115.0 kV Ckt 1	DVP: dom-354 (1230) : Reconductor 6.32 miles of 115 kV Line 40 from South Hill to Northview with 768.2 ACS 250. Project Type : FAC Cost : \$3,792,000 Time Estimate : 30-36 Months	\$3,792,000
163348181,163348180,169753705,169753704,169753706	40	AE2-033 TAP 230.0 kV - 6SAPONY 230.0 kV Ckt 1	DVP: n6452 (880) : Rebuild 2.47 miles of 230 kV Line 238 from AE2-033 TAP to Sapony with 2-795 150C ACSR. Project Type : FAC Cost : \$3,705,000 Time Estimate : 30-36 Months	\$3,705,000
169248996	37	3WILLIS 115.0 kV - 3FARMVIL 115.0 kV Ckt 1	DVP: dom-271 (1147) : Rebuild 70 miles of 115 kV lines (158, 84, 154, 1012) from Chase City to Lone Pine with 2-636 ACSR 150 C.	\$109,470,000
169249027	36	3MORAN 115.0 kV - 3FARMVIL 115.0 kV Ckt 1	Line 84: - Willis Mountain terminal: Replace Line Switch - Farmville terminal: Replace Breaker Switch, Breaker Lead, Line Lead, Wave Trap	
168525793	33	3LONEPN 115.0 kV - 3FLAT CREEK 115.0 kV Ckt 1	- Pamplin terminal: Replace Wave Trap, Line Lead and Relay (Secondary CT) Line 154:	

ID	Idx	Facility	Upgrade Description	Cost
168525798	7	3FLAT CREEK 115.0 kV - 3MORAN 115.0 kV Ckt 1	- 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	
163348150	20	6LAKEVEW 230.0 kV - 6DRY BREAD 230.0 kV Ckt 1	DVP: b3121 (818) : 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
168831068,168 831069	12	3FRNKLN 115.0 kV - 3UNCAMP 115.0 kV Ckt 1	DVP: dom-308 (1184) : Reconductor 2.89 miles of 115 kV Line 93 from Franklin to Union Camp with 768.2 ACSS 250 C. Replace Line Switch, Breaker Switch at Franklin terminal. Project Type : FAC Cost : \$2,134,000 Time Estimate : 30-36 Months	\$2,134,000
166983949	10	3CHASCTY2 115.0 kV - 3BARNES J 115.0 kV Ckt 1	DVP: dom-295 (1171) : Rebuild 7.46 mi miles of 115 kV Line 33 from Chase City to Barnes Junction with 2-636 ACSR 150 C Project Type : FAC Cost : \$11,190,000 Time Estimate : 30-36 Months	\$11,190,000
166983932	26	3MT LREL 115.0 kV - AC1-105 TAP 115.0 kV Ckt 1	DVP: dom-341 (1217) : 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
166983854,169 464577,169464 578	38	AC1-105 TAP 115.0 kV - 3SEdge HILL 115.0 kV Ckt 1		
166983986	2	3CHASCTY 115.0 kV - 3NORVIEW 115.0 kV Ckt 1	DVP: dom-338 (1214) : Reconductor 14.16 miles of 115 kV Line 40 from Chase City to Norview with 768.2 ACSS 250 Project Type : FAC Cost : \$8,496,000 Time Estimate : 36-40 Months	\$8,496,000

ID	Idx	Facility	Upgrade Description	Cost
166983955	23	3BARNES J 115.0 kV - 3MT LREL 115.0 kV Ckt 1	DVP: dom-334 (1210) : Reconductor 7.69 miles of 115 kV Line 33 from Barnes Junction D.P. to Mt. Laurel with 768.2 ACSS 250 C Project Type : FAC Cost : \$4,614,000 Time Estimate : 30-36 Months	\$4,614,000
163838943,163838945,163838944,163839818,163839157,163839156	34	3KERR 115.0 kV - 3GW KING TAP 115.0 kV Ckt 1	DVP: n6115 (821) : 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	\$6,123,000
168525975,168525973	5	3CHESTNUT 115.0 kV - 3WITAKRS 115.0 kV Ckt 1	DVP: dom-268 (1144) : Reconductor 4.55 miles of 115 kV line 1001 from Chestnut to Whitakers with 636 ACSR 150 C Project Type : FAC Cost : \$2,730,000 Time Estimate : 30-36 Months	\$2,730,000
166983975	30	3FRMAN D 115.0 kV - 3CLUBHSE71 115.0 kV Ckt 1	DVP: dom-347 (1223) : Reconductor 7.21 miles of 115 kV Line 71 from Clubhouse to Freeman D.P. with 768.2 ACSS 250. Replace wave trap at Clubhouse terminal. Project Type : FAC Cost : \$4,476,000 Time Estimate : 30-36 Months	\$4,476,000
166983971	35	3LAWRENC 115.0 kV - 3FRMAN D 115.0 kV Ckt 1	DVP: dom-353 (1229) : Reconductor 8.35 miles of 115 kV Line 71 from Lawrence to Freeman D.P. with 768.2 ACSS 250. Project Type : FAC Cost : \$5,010,000 Time Estimate : 30-36 Months	\$5,010,000
169038214,169038213	21	6LAKEVEW 230.0 kV - 6HORNRTN 230.0 kV Ckt 1	DVP: dom-062 (893) : Rebuild 4.06 miles of 230 kV Line 239 from Lakeview to Hornertown with 2-636 ACSR. Project Type : FAC Cost : \$5,278,000 Time Estimate : 30-36 Months	\$5,278,000

ID	Idx	Facility	Upgrade Description	Cost
169249031,169 249030	25	6BUCKING 230.0 kV - 6BREMO 230.0 kV Ckt 1	DVP: n6219 (859) : 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 (1213) : 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
169249349,169 249350	1	AC1-222 TAP 115.0 kV - 3CRSTL HILL 115.0 kV Ckt 1	DVP: dom-119 (961) : Rebuild 0.5 miles of 115 kV Line 1016 from Crystal Hill DP to AC1-222 Tap with 768 ACSS. Project Type : FAC Cost : \$650,000 Time Estimate : 30-36 Months	\$650,000
169249010,169 249009	29	6FARMVIL 230.0 kV - 6BUCKING 230.0 kV Ckt 1	DVP: n6245 (861) : 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 (1222) : 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
168525963	9	3CONSLDL 115.0 kV - 3BTLEBRO 115.0 kV Ckt 1	DVP: dom-201 (1077) : Reconstructor 3.98 miles of 115 kV Line 1001 from Consolidated DSL to Battleboro with 636 ACSR. Project Type : FAC Cost : \$2,388,000 Time Estimate : 30-36 Months	\$2,388,000
166983973	24	3BRUNWICK 115.0 kV - 3LAWRENC 115.0 kV Ckt 1	DVP: dom-336 (1212) : Reconstructor 4.32 miles of 115 kV Line 71 from Brunswick to Lawrence with 768.2 ACSS 250 Project Type : FAC Cost : \$2,592,000 Time Estimate : 30-36 Months	\$2,592,000
169753722,169 753721	39	AE1-103 TAP 115.0 kV - 3HOLLAND 115.0 kV Ckt 1	DVP: dom-396 (1272) : Reconstructor 0.1 mi of 115 kV Line 68 from AE1-103 Tap to Holland with 768.2 ACSS 250 C. Replace Line Switch at Holland terminal Project Type : FAC Cost : \$260,000 Time Estimate : 30-36 Months	\$260,000

ID	Idx	Facility	Upgrade Description	Cost
169038105,169038106	14	6CAROLNA 230.0 kV - 6LAKEVEW 230.0 kV Ckt 1	DVP: dom-220 (1096) : Rebuild 1.37 miles of 230 kV Line 2141 from Carolina to Lakeview with 2-636 ACSR. Project Type : FAC Cost : \$2,055,000 Time Estimate : 30-36 Months	\$2,055,000
169038134,169038135	19	6HORNRTN 230.0 kV - AD1- 057 TAP 230.0 kV Ckt 1	DVP: dom-077 (911) : Rebuild 16 miles of 230 kV Line 2056 from Hornertown to AD1-057 TAP with 2-636 ACSR. Project Type : FAC Cost : \$24,000,000 Time Estimate : 36-40 Months	\$24,000,000
168831006,168831007,163348196,168831008,163348195	11	6SAPONY 230.0 kV - 6CARSON 230.0 kV Ckt 1	DVP: n6221 (1069) : Rebuild 11.79 miles of 230 kV Line 238 from Sapony to Carson with 2-795 150C ACSR. Project Type : FAC Cost : \$17,685,000 Time Estimate : 30-36 Months	\$17,685,000
169249060,169249058	31	3SEEDGE HILL 115.0 kV - 6SEEDGE HILL 230.0 kV Ckt 1	DVP: dom-046 (874) : Add additional 230/115 kV transformer at Sedge Hill substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169249076,169249074	32	3SEEDGE HILL 115.0 kV - 6SEEDGE HILL 230.0 kV Ckt 2		
163348127	6	6DRY BREAD 230.0 kV - 6CLUBHSE 230.0 kV Ckt 1	DVP: dom-270 (1146) : Rebuild 1.45 miles of 230 kV Line 2201 from Dry bread to Clubhouse with 2-636 ACSR 150 C. Replace Line Lead at Clubhouse terminal. Project Type : FAC Cost : \$2,175,000 Time Estimate : 30-36 Months	\$2,175,000
168526012,168526010	8	3PLYWOOD 115.0 kV - 3SEEDGE HILL 115.0 kV Ckt 1	DVP: dom-273 (1149) : Reconnector 6.65 miles of 115 kV line 151 from Plywood to Sedge Hill with 636 ACSR 150 C Project Type : FAC Cost : \$3,990,000 Time Estimate : 30-36 Months	\$3,990,000
169038019,169038020,169038021	15	3CLUBHSE 115.0 kV - 6CLUBHSE 230.0 kV Ckt 1	DVP: n6114 (1033) : 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
169249189	22	3WITAKRS 115.0 kV - 3CONSLDL 115.0 kV Ckt 1	DVP: dom-113 (955) : Rebuild 0.41 miles of 115 kV Line 1001 from Whitakers to Consolidated Diesel with 636 ACSR. Project Type : FAC Cost : \$533,000 Time Estimate : 30-36 Months	\$533,000
169038120,163 347941,163348 200,163348201, 169038118,169 038119	16	6CLUBHSE 230.0 kV - AE2-033 TAP 230.0 kV Ckt 1	DVP: n6872 (876) : Rebuild 14.28 miles of 230 kV Line 238 from Clubhouse to AE2-033 Tap with 2-795 150C ACSR. Project Type : FAC Cost : \$21,420,000 Time Estimate : 30-36 Months	\$21,420,000
			TOTAL COST	\$378,756,000

11.6 Flow Gate Details

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

11.6.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169249350	927260	AC1-222 TAP	DVP	314688	3CRSTL HILL	DVP	1	DVP_P1-2: LN 556-C	single	285.76	99.57	100.48	DC	2.58

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2350	80/20	0.2350
314429	3JTRSVLE	0.1589	80/20	0.1589
315153	1CLOVER1	5.6685	80/20	5.6685
315154	1CLOVER2	5.6120	80/20	5.6120
315158	1KERR 1	0.1485	80/20	0.1485
315159	1KERR 2	0.4158	80/20	0.4158
315160	1KERR 3	0.4158	80/20	0.4158
315161	1KERR 4	0.4158	80/20	0.4158
315162	1KERR 5	0.4158	80/20	0.4158
315163	1KERR 6	0.4158	80/20	0.4158
315164	1KERR 7	0.4158	80/20	0.4158
315266	1PLYWOOD A	1.0299	80/20	1.0299
316118	AC1-105 C	4.9242	80/20	4.9242
316131	AB2-060 C	0.6716	80/20	0.6716
924301	AB2-077 C O1 (Suspended)	0.9626	80/20	0.9626
924311	AB2-078 C O1 (Suspended)	0.9626	80/20	0.9626
924321	AB2-079 C O1 (Suspended)	0.9626	80/20	0.9626
925611	AC1-036 C	0.0953	80/20	0.0953
925661	AC1-042 C	-2.7346	Adder	-3.22
927261	AC1-222 C	5.0577	80/20	5.0577
934311	AD1-055 C	3.5117	80/20	3.5117
934615	AD1-087 C	3.5611	80/20	3.5611
934625	AD1-088 C	4.8581	80/20	4.8581
935171	AD1-152 C O1	3.9115	80/20	3.9115
935221	AD1-157 C	0.0856	80/20	0.0856
936265	AD2-033 C	5.6105	80/20	5.6105
936361	AD2-046 C O1	3.5850	80/20	3.5850
936485	AD2-063 C	6.7968	80/20	6.7968
937481	AD2-202 C O1	1.0431	80/20	1.0431
938371	AE1-056 C	2.3400	80/20	2.3400
939181	AE1-148 C	3.5618	80/20	3.5618
940661	AE2-053 O1	1.3192	80/20	1.3192
941791	AE2-182 C	0.7893	80/20	0.7893
942451	AE2-258	1.1114	80/20	1.1114
942461	AE2-259 C O1	3.1932	80/20	3.1932
943901	AF1-058 C	1.9121	80/20	1.9121
943911	AF1-059	5.6762	80/20	5.6762
945811	AF1-246 C O1	3.4184	80/20	3.4184
946301	AF1-294 C	1.6047	80/20	1.6047

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957481	AF2-042 C	24.4170	80/20	24.4170
958211	AF2-115 C	0.9440	80/20	0.9440
958801	AF2-171 C	5.6754	80/20	5.6754
959311	AF2-222 C	6.9200	80/20	6.9200
959751	AF2-266	4.0690	80/20	4.0690
960061	AF2-297 C	7.6483	80/20	7.6483
961791	AG1-021 C	0.7552	80/20	0.7552
961891	AG1-030 C	5.8941	80/20	5.8941
962041	AG1-048 C	4.7198	80/20	4.7198
962441	AG1-093 C O1	13.1312	80/20	13.1312
962491	AG1-098 C O1	5.5710	80/20	5.5710
962561	AG1-105 C O1	5.0340	80/20	5.0340
963171	AG1-166 C	0.7552	80/20	0.7552
963181	AG1-167 C	0.7552	80/20	0.7552
963191	AG1-168 C	0.7552	80/20	0.7552
963201	AG1-169 C	0.7552	80/20	0.7552
963211	AG1-170 C	0.7552	80/20	0.7552
963271	AG1-176 C O1	5.9319	80/20	5.9319
963321	AG1-181 C O1	7.2279	80/20	7.2279
963361	AG1-185 O1	3.4971	80/20	3.4971
963641	AG1-215 C	0.3524	80/20	0.3524
964111	AG1-272 C	1.0833	80/20	1.0833
964121	AG1-273 C	1.0833	80/20	1.0833
964131	AG1-274 C	1.0833	80/20	1.0833
964241	AG1-285 C O1	5.7360	80/20	5.7360
964261	AG1-287 C	1.4341	80/20	1.4341
964791	AG1-342 C	3.1737	80/20	3.1737
964821	AG1-345 C	0.3025	80/20	0.3025
964841	AG1-347 C	3.6966	80/20	3.6966
964931	AG1-357 C	9.7668	80/20	9.7668
965191	AG1-384 C	1.0833	80/20	1.0833
965281	AG1-393 C	0.7552	80/20	0.7552
965451	AG1-413 C O1	2.3861	80/20	2.3861
965591	AG1-427 C	5.4264	80/20	5.4264
965641	AG1-432 C O1	6.3864	80/20	6.3864
965721	AG1-440 C	2.5812	80/20	2.5812
965731	AG1-441 C	2.5812	80/20	2.5812
965771	AG1-445	1.4914	80/20	1.4914
965781	AG1-446	1.4914	80/20	1.4914
965831	AG1-451	1.0644	80/20	1.0644
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.6386	80/20	0.6386
CPL	CPL	1.2517	Confirmed LTF	1.2517
G-007A	G-007A	0.3021	Confirmed LTF	0.3021
VFT	VFT	0.7998	Confirmed LTF	0.7998
PRAIRIE	PRAIRIE	0.4159	Confirmed LTF	0.4159
TVA	TVA	0.0266	Confirmed LTF	0.0266
CBM-S2	CBM-S2	11.1604	Confirmed LTF	11.1604
CBM-N	CBM-N	0.1440	Confirmed LTF	0.1440
GIBSON	GIBSON	0.1491	Confirmed LTF	0.1491
BLUEG	BLUEG	0.5312	Confirmed LTF	0.5312
TRIMBLE	TRIMBLE	0.1731	Confirmed LTF	0.1731

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	0.0822	Confirmed LTF	0.0822

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
166983986	314681	3CHASCTY	DVP	314708	3NORVIEW	DVP	1	DVP_P7-1: LN 22-90	tower	400.0	98.61	101.0	DC	9.53

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-4.0610	Adder	-4.78
313527	AB2-043 C	0.5248	50/50	0.5248
313853	3PONTONDP	0.3646	Adder	0.43
314713	3PAMPLIN	0.7944	Adder	0.93
315158	1KERR 1	0.3008	50/50	0.3008
315159	1KERR 2	0.8421	50/50	0.8421
315160	1KERR 3	0.8421	50/50	0.8421
315161	1KERR 4	0.8421	50/50	0.8421
315162	1KERR 5	0.8421	50/50	0.8421
315163	1KERR 6	0.8421	50/50	0.8421
315164	1KERR 7	0.8421	50/50	0.8421
316118	AC1-105 C	2.1997	Adder	2.59
316131	AB2-060 C	1.4868	50/50	1.4868
923991	AB2-040 C O1	-4.4229	Adder	-5.2
924022	AB2-043 E O1	2.9744	50/50	2.9744
924162	AB2-060 E OP	4.4347	50/50	4.4347
924301	AB2-077 C O1 (Suspended)	2.0438	50/50	2.0438
924302	AB2-077 E O1 (Suspended)	1.3626	50/50	1.3626
924311	AB2-078 C O1 (Suspended)	2.0438	50/50	2.0438
924312	AB2-078 E O1 (Suspended)	1.3626	50/50	1.3626
924321	AB2-079 C O1 (Suspended)	2.0438	50/50	2.0438
924322	AB2-079 E O1 (Suspended)	1.3626	50/50	1.3626
925611	AC1-036 C	0.1886	50/50	0.1886
925612	AC1-036 E	0.7157	50/50	0.7157
926274	AC1-105 E	1.0807	Adder	1.27
935222	AD1-157 E	0.4898	Adder	0.58
936265	AD2-033 C	11.3864	50/50	11.3864
936266	AD2-033 E	7.5910	50/50	7.5910
936361	AD2-046 C O1	7.4090	50/50	7.4090
936362	AD2-046 E O1	3.4070	50/50	3.4070
936485	AD2-063 C	14.5557	50/50	14.5557
936486	AD2-063 E	9.7038	50/50	9.7038
938371	AE1-056 C	3.1671	Adder	3.73
938372	AE1-056 E	1.7305	Adder	2.04
939181	AE1-148 C	7.3872	50/50	7.3872
939182	AE1-148 E	4.9248	50/50	4.9248

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940661	AE2-053 O1	2.7360	50/50	2.7360
942451	AE2-258	2.4816	50/50	2.4816
942461	AE2-259 C O1	3.3364	Adder	3.93
942462	AE2-259 E O1	2.2243	Adder	2.62
943912	AF1-059 BAT	52.3865	50/50	52.3865
946301	AF1-294 C	2.3242	Adder	2.73
946302	AF1-294 E	1.5495	Adder	1.82
958211	AF2-115 C	1.3672	Adder	1.61
958212	AF2-115 E	0.9115	Adder	1.07
958801	AF2-171 C	9.7128	50/50	9.7128
958802	AF2-171 E	6.4752	50/50	6.4752
959311	AF2-222 C	13.4450	50/50	13.4450
959312	AF2-222 E	9.0082	50/50	9.0082
961791	AG1-021 C	0.5797	Adder	1.29
961792	AG1-021 E	0.3865	Adder	0.86
961891	AG1-030 C	10.6434	50/50	10.6434
961892	AG1-030 E	7.0956	50/50	7.0956
962041	AG1-048 C	3.6230	Adder	8.04
962042	AG1-048 E	2.4154	Adder	5.36
962441	AG1-093 C O1	3.1089	Adder	6.9
962442	AG1-093 E O1	0.9462	Adder	2.1
963171	AG1-166 C	0.5797	Adder	1.29
963172	AG1-166 E	0.3865	Adder	0.86
963181	AG1-167 C	0.5797	Adder	1.29
963182	AG1-167 E	0.3865	Adder	0.86
963191	AG1-168 C	0.5797	Adder	1.29
963192	AG1-168 E	0.3865	Adder	0.86
963201	AG1-169 C	0.5797	Adder	1.29
963202	AG1-169 E	0.3865	Adder	0.86
963211	AG1-170 C	0.5797	Adder	1.29
963212	AG1-170 E	0.3865	Adder	0.86
963312	AG1-180 BAT	12.3867	50/50	12.3867
963321	AG1-181 C O1	14.5934	50/50	14.5934
963361	AG1-185 O1	7.0606	50/50	7.0606
963641	AG1-215 C	0.2705	Adder	0.6
963642	AG1-215 E	0.4058	Adder	0.9
964111	AG1-272 C	2.1429	50/50	2.1429
964112	AG1-272 E	0.6365	50/50	0.6365
964121	AG1-273 C	2.1429	50/50	2.1429
964122	AG1-273 E	0.6365	50/50	0.6365
964131	AG1-274 C	2.1429	50/50	2.1429
964132	AG1-274 E	0.6365	50/50	0.6365
964241	AG1-285 C O1	12.4402	50/50	12.4402
964242	AG1-285 E O1	8.2935	50/50	8.2935
964791	AG1-342 C	1.1524	Adder	2.56
964792	AG1-342 E	0.9055	Adder	2.01
964821	AG1-345 C	0.5165	50/50	0.5165
964822	AG1-345 E	0.3444	50/50	0.3444
965191	AG1-384 C	2.1429	50/50	2.1429
965192	AG1-384 E	0.6365	50/50	0.6365
965281	AG1-393 C	0.5797	Adder	1.29
965282	AG1-393 E	0.3865	Adder	0.86

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	11.7443	50/50	11.7443
965592	AG1-427 E	7.8460	50/50	7.8460
965641	AG1-432 C O1	3.5366	Adder	7.85
965642	AG1-432 E O1	2.3577	Adder	5.23
965721	AG1-440 C	5.7191	50/50	5.7191
965722	AG1-440 E	3.8127	50/50	3.8127
965731	AG1-441 C	5.7191	50/50	5.7191
965732	AG1-441 E	3.8127	50/50	3.8127
965771	AG1-445	3.3043	50/50	3.3043
965781	AG1-446	3.3043	50/50	3.3043
965831	AG1-451	0.5894	Adder	1.31
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3537	Adder	0.79
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2358	Adder	0.52
WEC	WEC	0.0491	Confirmed LTF	0.0491
LGEE	LGEE	0.1037	Confirmed LTF	0.1037
CPL	CPL	0.1952	Confirmed LTF	0.1952
CBM-W2	CBM-W2	1.6486	Confirmed LTF	1.6486
NY	NY	0.0371	Confirmed LTF	0.0371
TVA	TVA	0.2856	Confirmed LTF	0.2856
O-066	O-066	0.5788	Confirmed LTF	0.5788
SIGE	SIGE	0.0265	Confirmed LTF	0.0265
CBM-S2	CBM-S2	2.8710	Confirmed LTF	2.8710
CBM-S1	CBM-S1	0.0749	Confirmed LTF	0.0749
G-007	G-007	0.0913	Confirmed LTF	0.0913
MEC	MEC	0.2638	Confirmed LTF	0.2638
LAGN	LAGN	0.3465	Confirmed LTF	0.3465
CBM-W1	CBM-W1	2.1030	Confirmed LTF	2.1030

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
166983991	314708	3NORVIEW	DVP	314721	3SO HILL	DVP	1	DVP_P7-1: LN 22-90	tower	400.0	97.84	100.22	DC	9.53

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-4.0610	Adder	-4.78
313527	AB2-043 C	0.5248	50/50	0.5248
313853	3PONTONDP	0.3646	Adder	0.43
314713	3PAMPLIN	0.7944	Adder	0.93
315158	1KERR 1	0.3008	50/50	0.3008
315159	1KERR 2	0.8421	50/50	0.8421
315160	1KERR 3	0.8421	50/50	0.8421
315161	1KERR 4	0.8421	50/50	0.8421
315162	1KERR 5	0.8421	50/50	0.8421
315163	1KERR 6	0.8421	50/50	0.8421
315164	1KERR 7	0.8421	50/50	0.8421
316118	AC1-105 C	2.1997	Adder	2.59
316131	AB2-060 C	1.4868	50/50	1.4868
923991	AB2-040 C O1	-4.4229	Adder	-5.2
924022	AB2-043 E O1	2.9744	50/50	2.9744
924162	AB2-060 E OP	4.4347	50/50	4.4347
924301	AB2-077 C O1 (Suspended)	2.0438	50/50	2.0438
924302	AB2-077 E O1 (Suspended)	1.3626	50/50	1.3626
924311	AB2-078 C O1 (Suspended)	2.0438	50/50	2.0438
924312	AB2-078 E O1 (Suspended)	1.3626	50/50	1.3626
924321	AB2-079 C O1 (Suspended)	2.0438	50/50	2.0438
924322	AB2-079 E O1 (Suspended)	1.3626	50/50	1.3626
925611	AC1-036 C	0.1886	50/50	0.1886
925612	AC1-036 E	0.7157	50/50	0.7157
926274	AC1-105 E	1.0807	Adder	1.27
935222	AD1-157 E	0.4898	Adder	0.58
936265	AD2-033 C	11.3864	50/50	11.3864
936266	AD2-033 E	7.5910	50/50	7.5910
936361	AD2-046 C O1	7.4090	50/50	7.4090
936362	AD2-046 E O1	3.4070	50/50	3.4070
936485	AD2-063 C	14.5557	50/50	14.5557
936486	AD2-063 E	9.7038	50/50	9.7038
938371	AE1-056 C	3.1671	Adder	3.73
938372	AE1-056 E	1.7305	Adder	2.04
939181	AE1-148 C	7.3872	50/50	7.3872
939182	AE1-148 E	4.9248	50/50	4.9248

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940661	AE2-053 O1	2.7360	50/50	2.7360
942451	AE2-258	2.4816	50/50	2.4816
942461	AE2-259 C O1	3.3364	Adder	3.93
942462	AE2-259 E O1	2.2243	Adder	2.62
943912	AF1-059 BAT	52.3865	50/50	52.3865
946301	AF1-294 C	2.3242	Adder	2.73
946302	AF1-294 E	1.5495	Adder	1.82
958211	AF2-115 C	1.3672	Adder	1.61
958212	AF2-115 E	0.9115	Adder	1.07
958801	AF2-171 C	9.7128	50/50	9.7128
958802	AF2-171 E	6.4752	50/50	6.4752
959311	AF2-222 C	13.4450	50/50	13.4450
959312	AF2-222 E	9.0082	50/50	9.0082
961791	AG1-021 C	0.5797	Adder	1.29
961792	AG1-021 E	0.3865	Adder	0.86
961891	AG1-030 C	10.6434	50/50	10.6434
961892	AG1-030 E	7.0956	50/50	7.0956
962041	AG1-048 C	3.6230	Adder	8.04
962042	AG1-048 E	2.4154	Adder	5.36
962441	AG1-093 C O1	3.1089	Adder	6.9
962442	AG1-093 E O1	0.9462	Adder	2.1
963171	AG1-166 C	0.5797	Adder	1.29
963172	AG1-166 E	0.3865	Adder	0.86
963181	AG1-167 C	0.5797	Adder	1.29
963182	AG1-167 E	0.3865	Adder	0.86
963191	AG1-168 C	0.5797	Adder	1.29
963192	AG1-168 E	0.3865	Adder	0.86
963201	AG1-169 C	0.5797	Adder	1.29
963202	AG1-169 E	0.3865	Adder	0.86
963211	AG1-170 C	0.5797	Adder	1.29
963212	AG1-170 E	0.3865	Adder	0.86
963312	AG1-180 BAT	12.3867	50/50	12.3867
963321	AG1-181 C O1	14.5934	50/50	14.5934
963361	AG1-185 O1	7.0606	50/50	7.0606
963641	AG1-215 C	0.2705	Adder	0.6
963642	AG1-215 E	0.4058	Adder	0.9
964111	AG1-272 C	2.1429	50/50	2.1429
964112	AG1-272 E	0.6365	50/50	0.6365
964121	AG1-273 C	2.1429	50/50	2.1429
964122	AG1-273 E	0.6365	50/50	0.6365
964131	AG1-274 C	2.1429	50/50	2.1429
964132	AG1-274 E	0.6365	50/50	0.6365
964241	AG1-285 C O1	12.4402	50/50	12.4402
964242	AG1-285 E O1	8.2935	50/50	8.2935
964791	AG1-342 C	1.1524	Adder	2.56
964792	AG1-342 E	0.9055	Adder	2.01
964821	AG1-345 C	0.5165	50/50	0.5165
964822	AG1-345 E	0.3444	50/50	0.3444
965191	AG1-384 C	2.1429	50/50	2.1429
965192	AG1-384 E	0.6365	50/50	0.6365
965281	AG1-393 C	0.5797	Adder	1.29
965282	AG1-393 E	0.3865	Adder	0.86

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	11.7443	50/50	11.7443
965592	AG1-427 E	7.8460	50/50	7.8460
965641	AG1-432 C O1	3.5366	Adder	7.85
965642	AG1-432 E O1	2.3577	Adder	5.23
965721	AG1-440 C	5.7191	50/50	5.7191
965722	AG1-440 E	3.8127	50/50	3.8127
965731	AG1-441 C	5.7191	50/50	5.7191
965732	AG1-441 E	3.8127	50/50	3.8127
965771	AG1-445	3.3043	50/50	3.3043
965781	AG1-446	3.3043	50/50	3.3043
965831	AG1-451	0.5894	Adder	1.31
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3537	Adder	0.79
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2358	Adder	0.52
WEC	WEC	0.0491	Confirmed LTF	0.0491
LGEE	LGEE	0.1037	Confirmed LTF	0.1037
CPL	CPL	0.1952	Confirmed LTF	0.1952
CBM-W2	CBM-W2	1.6486	Confirmed LTF	1.6486
NY	NY	0.0371	Confirmed LTF	0.0371
TVA	TVA	0.2856	Confirmed LTF	0.2856
O-066	O-066	0.5788	Confirmed LTF	0.5788
SIGE	SIGE	0.0265	Confirmed LTF	0.0265
CBM-S2	CBM-S2	2.8710	Confirmed LTF	2.8710
CBM-S1	CBM-S1	0.0749	Confirmed LTF	0.0749
G-007	G-007	0.0913	Confirmed LTF	0.0913
MEC	MEC	0.2638	Confirmed LTF	0.2638
LAGN	LAGN	0.3465	Confirmed LTF	0.3465
CBM-W1	CBM-W1	2.1030	Confirmed LTF	2.1030

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
168240223	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	Base Case	single	275.0	124.79	125.86	DC	2.97

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	4.0240	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
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

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
168525973	313719	3CHESTNUT	DVP	314623	3WITAKRS	DVP	1	DVP_P1-2: LN 2056-A	single	165.44	109.25	110.63	DC	2.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.2930	80/20	3.2930
313719	3CHESTNUT	4.2857	80/20	4.2857
314572	3EMPORIA	0.1616	80/20	0.1616
314582	3KELFORD	0.4045	80/20	0.4045
314589	3MURPHYS	0.0392	80/20	0.0392
315115	1S HAMPT1	0.4782	80/20	0.4782
315126	1ROARAP2	0.8854	80/20	0.8854
315128	1ROARAP4	0.8449	80/20	0.8449
315136	1ROSEMG1	0.7073	80/20	0.7073
315137	1ROSEMS1	0.4386	80/20	0.4386
315138	1ROSEMG2	0.3315	80/20	0.3315
315139	1GASTONA	1.0158	80/20	1.0158
315141	1GASTONB	1.0158	80/20	1.0158
315606	3AA2-053SOLA	0.9172	80/20	0.9172
315607	3AA1-063SOLA	0.7806	80/20	0.7806
315608	3AA2-088SOLA	0.4348	80/20	0.4348
316087	AB2-174 C	0.4993	80/20	0.4993
316103	AB2-015 C	2.6360	80/20	2.6360
316129	AC1-054 C	3.1591	80/20	3.1591
316140	AB2-099 C (Suspended)	0.2799	80/20	0.2799
920591	AA2-165 C	0.5753	80/20	0.5753
923991	AB2-040 C O1	3.5864	80/20	3.5864
925591	AC1-034 C	-5.6897	Adder	-6.69
926070	AC1-086 C	7.2402	80/20	7.2402
926201	AC1-098 C	14.1647	80/20	14.1647
926211	AC1-099 C	4.7467	80/20	4.7467
927145	AC1-208 C	23.0580	80/20	23.0580
932631	AC2-084 C	20.1922	80/20	20.1922
934331	AD1-057 C O1	3.5873	80/20	3.5873
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0830	80/20	0.0830
943171	AE2-346 C	0.6718	80/20	0.6718
946281	AF1-292 C	0.5157	80/20	0.5157
957521	AF2-046 C	7.7375	80/20	7.7375
960081	AF2-299 C	0.8691	80/20	0.8691
961091	AF2-400 C	0.1423	80/20	0.1423
961681	AG1-008 C	7.7530	80/20	7.7530
961931	AG1-036 C	0.6385	80/20	0.6385
961941	AG1-037 C	0.2399	80/20	0.2399
962331	AG1-082 C	0.9598	80/20	0.9598
962341	AG1-083 C	0.9598	80/20	0.9598
962351	AG1-084 C	0.8502	80/20	0.8502

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962361	AG1-085 C	0.8502	80/20	0.8502
962571	AG1-106 C	2.0134	80/20	2.0134
964501	AG1-313 C O1	2.7567	80/20	2.7567
964801	AG1-343 C	2.6411	80/20	2.6411
965291	AG1-394 C	0.9018	80/20	0.9018
965721	AG1-440 C	2.2730	80/20	2.2730
965731	AG1-441 C	2.2730	80/20	2.2730
965771	AG1-445	1.3133	80/20	1.3133
965781	AG1-446	1.3133	80/20	1.3133
966621	AG1-532 C	0.4693	80/20	0.4693
966751	AG1-546 C	7.3469	80/20	7.3469
966811	AG1-552 C	1.4058	80/20	1.4058
G-007A	G-007A	0.3093	Confirmed LTF	0.3093
VFT	VFT	0.8256	Confirmed LTF	0.8256
CALDERWOOD	CALDERWOOD	0.4051	Confirmed LTF	0.4051
PRAIRIE	PRAIRIE	1.3922	Confirmed LTF	1.3922
CHEOAH	CHEOAH	0.4154	Confirmed LTF	0.4154
CBM-N	CBM-N	0.1500	Confirmed LTF	0.1500
COTTONWOOD	COTTONWOOD	1.5036	Confirmed LTF	1.5036
HAMLET	HAMLET	0.9038	Confirmed LTF	0.9038
GIBSON	GIBSON	0.2441	Confirmed LTF	0.2441
BLUEG	BLUEG	0.7517	Confirmed LTF	0.7517
TRIMBLE	TRIMBLE	0.2382	Confirmed LTF	0.2382
CATAWBA	CATAWBA	0.4375	Confirmed LTF	0.4375

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
163348127	313725	6DRY BREAD	DVP	314563	6CLUBHSE	DVP	1	DVP_P7-1: LN 81-2056-A	tower	459.0	182.55	183.17	DC	6.33

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314539	3UNCAMP	2.3830	Adder	2.8
314541	3WATKINS	0.3224	Adder	0.38
314582	3KELFORD	0.2742	50/50	0.2742
314589	3MURPHYS	0.0694	50/50	0.0694
314594	6PLYMOTH	0.0445	Adder	0.05
315126	1ROARAP2	1.5742	50/50	1.5742
315128	1ROARAP4	1.5022	50/50	1.5022
315136	1ROSEMG1	5.2807	50/50	5.2807
315137	1ROSEMS1	3.2746	50/50	3.2746
315138	1ROSEMG2	2.4749	50/50	2.4749
315139	1GASTONA	7.5833	50/50	7.5833
315141	1GASTONB	7.5833	50/50	7.5833
315293	1DOMTR9	3.4309	Adder	4.04
315294	1DOMTR10	4.2045	Adder	4.95
315602	1HOLLOMANSOL	1.2689	50/50	1.2689
315606	3AA2-053SOLA	1.6355	50/50	1.6355
315607	3AA1-063SOLA	1.3809	50/50	1.3809
315608	3AA2-088SOLA	0.7577	50/50	0.7577
316096	AB2-100 C1	3.6121	50/50	3.6121
316097	AB2-100 E1	11.2766	50/50	11.2766
316098	AB2-100 C2	3.6121	50/50	3.6121
316099	AB2-100 E2	11.2766	50/50	11.2766
316103	AB2-015 C	3.7693	Adder	4.43
316104	AB2-015 E	3.0908	Adder	3.64
316129	AC1-054 C	5.4557	50/50	5.4557
316140	AB2-099 C (Suspended)	0.5050	50/50	0.5050
316141	AB2-099 E (Suspended)	0.2164	50/50	0.2164
900672	V4-068 E	0.2411	50/50	0.2411
917332	Z2-043 E	0.8180	50/50	0.8180
917512	Z2-088 E OP1	3.1211	Adder	3.67
918492	AA1-063AE OP	4.1270	50/50	4.1270
918512	AA1-065 E OP	3.6012	50/50	3.6012
918532	AA1-067 E	0.3583	Adder	0.42
919692	AA2-053 E OP	4.2563	50/50	4.2563
919702	AA2-057 E OP	1.2711	Adder	1.5
920042	AA2-088 E OP	7.8356	50/50	7.8356
920592	AA2-165 E	0.1747	Adder	0.21
920692	AA2-178 E	1.6963	Adder	2.0
923262	AB1-132 C OP (Suspended)	36.7046	50/50	36.7046

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923263	AB1-132 E OP (Suspended)	15.7306	50/50	15.7306
925122	AB2-169 E	2.8899	Adder	3.4
925785	AC1-054 E	2.5133	50/50	2.5133
926070	AC1-086 C	54.0520	50/50	54.0520
926071	AC1-086 E	24.6008	50/50	24.6008
926201	AC1-098 C	3.0157	Adder	3.55
926202	AC1-098 E	1.7966	Adder	2.11
926211	AC1-099 C	1.0106	Adder	1.19
926212	AC1-099 E	0.5935	Adder	0.7
927024	AC1-189 C	3.6503	Adder	4.29
927025	AC1-189 E	1.8183	Adder	2.14
932631	AC2-084 C	4.2990	Adder	5.06
932632	AC2-084 E	2.1174	Adder	2.49
933991	AD1-023 C	8.8135	50/50	8.8135
933992	AD1-023 E	4.7981	50/50	4.7981
934521	AD1-076 C	32.2175	50/50	32.2175
934522	AD1-076 E	16.4051	50/50	16.4051
936401	AD2-051 C O1	8.2598	50/50	8.2598
936402	AD2-051 E O1	3.5467	50/50	3.5467
938221	AE1-035 C	0.3173	50/50	0.3173
938222	AE1-035 E	0.9903	50/50	0.9903
938771	AE1-103 C	1.2568	Adder	1.48
938772	AE1-103 E	1.7356	Adder	2.04
940491	AE2-034 C	2.9685	Adder	3.49
940492	AE2-034 E	1.2722	Adder	1.5
940542	AE2-040 BAT	2.5112	50/50	2.5112
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1507	50/50	0.1507
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5142	50/50	0.5142
943171	AE2-346 C	1.2120	50/50	1.2120
943172	AE2-346 E	0.5194	50/50	0.5194
945711	AF1-236 C O1	32.4975	Adder	38.23
945712	AF1-236 E O1	20.0724	Adder	23.61
946012	AF1-266 BAT	13.2990	50/50	13.2990
957521	AF2-046 C	13.7465	50/50	13.7465
957522	AF2-046 E	6.9145	50/50	6.9145
957531	AF2-047 C	7.0536	Adder	8.3
957532	AF2-047 E	3.5480	Adder	4.17
957861	AF2-080 C	3.3153	Adder	3.9
957862	AF2-080 E	1.4697	Adder	1.73
959511	AF2-242 C	3.6697	Adder	4.32
959512	AF2-242 E	2.8542	Adder	3.36
961091	AF2-400 C	0.2035	Adder	0.24
961092	AF2-400 E	0.3340	Adder	0.39
961681	AG1-008 C	13.7740	50/50	13.7740
961682	AG1-008 E	6.8870	50/50	6.8870
961931	AG1-036 C	1.1438	50/50	1.1438
961932	AG1-036 E	0.7625	50/50	0.7625
961941	AG1-037 C	0.4328	50/50	0.4328
961942	AG1-037 E	0.2886	50/50	0.2886
962331	AG1-082 C	1.7314	50/50	1.7314

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962332	AG1-082 E	1.1542	50/50	1.1542
962341	AG1-083 C	1.7314	50/50	1.7314
962342	AG1-083 E	1.1542	50/50	1.1542
962351	AG1-084 C	1.5427	50/50	1.5427
962352	AG1-084 E	1.0284	50/50	1.0284
962361	AG1-085 C	1.5427	50/50	1.5427
962362	AG1-085 E	1.0284	50/50	1.0284
962571	AG1-106 C	15.0314	50/50	15.0314
962572	AG1-106 E	6.8166	50/50	6.8166
963312	AG1-180 BAT	1.1419	Merchant Transmission	1.1419
964491	AG1-312 C O1	16.2523	50/50	16.2523
964492	AG1-312 E O1	4.0631	50/50	4.0631
964501	AG1-313 C O1	4.9327	50/50	4.9327
964502	AG1-313 E O1	3.2884	50/50	3.2884
964801	AG1-343 C	4.6280	50/50	4.6280
964802	AG1-343 E	3.6363	50/50	3.6363
965291	AG1-394 C	1.5768	50/50	1.5768
965292	AG1-394 E	1.0512	50/50	1.0512
965631	AG1-431	9.9716	Adder	22.13
965691	AG1-437 C O1	7.4226	50/50	7.4226
965692	AG1-437 E O1	4.9484	50/50	4.9484
965701	AG1-438 C O1	7.4226	50/50	7.4226
965702	AG1-438 E O1	4.9484	50/50	4.9484
965711	AG1-439 C O1	5.0026	Adder	11.1
965712	AG1-439 E O1	3.3351	Adder	7.4
965721	AG1-440 C	1.7102	Adder	3.8
965722	AG1-440 E	1.1401	Adder	2.53
965731	AG1-441 C	1.7102	Adder	3.8
965732	AG1-441 E	1.1401	Adder	2.53
965741	AG1-442 O1	4.3298	50/50	4.3298
965751	AG1-443 O1	4.3298	50/50	4.3298
965761	AG1-444 O1	2.6680	Adder	5.92
965771	AG1-445	0.9881	Adder	2.19
965781	AG1-446	0.9881	Adder	2.19
966751	AG1-546 C	12.7482	50/50	12.7482
966752	AG1-546 E	6.8403	50/50	6.8403
966801	AG1-551 C	0.5984	Adder	1.33
966802	AG1-551 E	0.2565	Adder	0.57
966811	AG1-552 C	2.4995	50/50	2.4995
966812	AG1-552 E	1.0712	50/50	1.0712
966931	AG1-431A	7.4918	Adder	16.63
WEC	WEC	0.0810	Confirmed LTF	0.0810
LGEE	LGEE	0.1671	Confirmed LTF	0.1671
CPL	CPL	1.3234	Confirmed LTF	1.3234
CBM-W2	CBM-W2	4.0768	Confirmed LTF	4.0768
NY	NY	0.1980	Confirmed LTF	0.1980
TVA	TVA	0.7980	Confirmed LTF	0.7980
O-066	O-066	2.6987	Confirmed LTF	2.6987
SIGE	SIGE	0.0729	Confirmed LTF	0.0729
CBM-S2	CBM-S2	13.8748	Confirmed LTF	13.8748
CBM-S1	CBM-S1	0.1953	Confirmed LTF	0.1953
G-007	G-007	0.4231	Confirmed LTF	0.4231

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
MEC	MEC	0.5164	Confirmed LTF	0.5164
LAGN	LAGN	0.9940	Confirmed LTF	0.9940
CBM-W1	CBM-W1	3.3087	Confirmed LTF	3.3087

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
168525798	313755	3FLAT CREEK	DVP	314707	3MORAN	DVP	1	Base Case	single	203.98	127.23	128.82	DC	3.25

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
168526010	313825	3PLYWOOD	DVP	314696	3SEdge HILL	DVP	1	DVP_P1-2: LN 33	single	141.0	121.16	125.44	DC	6.03

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

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

11.6.9 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
168525963	313854	3CONSLDL	DVP	314554	3BTLEBRO	DVP	1	DVP_P1-2: LN 2056-B	single	165.44	115.91	117.28	DC	2.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.2914	80/20	3.2914
313719	3CHESTNUT	4.2854	80/20	4.2854
314572	3EMPORIA	0.1616	80/20	0.1616
314582	3KELFORD	0.4044	80/20	0.4044
314589	3MURPHYS	0.0392	80/20	0.0392
314623	3WITAKRS	0.9494	80/20	0.9494
315115	1S HAMPT1	0.4778	80/20	0.4778
315126	1ROARAP2	0.8850	80/20	0.8850
315128	1ROARAP4	0.8445	80/20	0.8445
315136	1ROSEMG1	0.7069	80/20	0.7069
315137	1ROSEMS1	0.4383	80/20	0.4383
315138	1ROSEMG2	0.3313	80/20	0.3313
315139	1GASTONA	1.0151	80/20	1.0151
315141	1GASTONB	1.0151	80/20	1.0151
315606	3AA2-053SOLA	0.9169	80/20	0.9169
315607	3AA1-063SOLA	0.7802	80/20	0.7802
315608	3AA2-088SOLA	0.4345	80/20	0.4345
316087	AB2-174 C	0.4990	80/20	0.4990
316103	AB2-015 C	2.6335	80/20	2.6335
316129	AC1-054 C	3.1568	80/20	3.1568
316140	AB2-099 C (Suspended)	0.2798	80/20	0.2798
920591	AA2-165 C	0.5753	80/20	0.5753
923991	AB2-040 C O1	3.5847	80/20	3.5847
925591	AC1-034 C	-5.6912	Adder	-6.7
926070	AC1-086 C	7.2352	80/20	7.2352
926201	AC1-098 C	14.1632	80/20	14.1632
926211	AC1-099 C	4.7462	80/20	4.7462
927145	AC1-208 C	23.0553	80/20	23.0553
932631	AC2-084 C	20.1900	80/20	20.1900
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0830	80/20	0.0830
943171	AE2-346 C	0.6714	80/20	0.6714
946281	AF1-292 C	0.5153	80/20	0.5153
957521	AF2-046 C	7.7325	80/20	7.7325
960081	AF2-299 C	0.8685	80/20	0.8685
961091	AF2-400 C	0.1422	80/20	0.1422
961681	AG1-008 C	7.7480	80/20	7.7480
961931	AG1-036 C	0.6382	80/20	0.6382
961941	AG1-037 C	0.2398	80/20	0.2398
962331	AG1-082 C	0.9592	80/20	0.9592
962341	AG1-083 C	0.9592	80/20	0.9592
962351	AG1-084 C	0.8498	80/20	0.8498

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962361	AG1-085 C	0.8498	80/20	0.8498
962571	AG1-106 C	2.0121	80/20	2.0121
964501	AG1-313 C O1	2.7556	80/20	2.7556
964801	AG1-343 C	2.6397	80/20	2.6397
965291	AG1-394 C	0.9013	80/20	0.9013
965721	AG1-440 C	2.2707	80/20	2.2707
965731	AG1-441 C	2.2707	80/20	2.2707
965771	AG1-445	1.3120	80/20	1.3120
965781	AG1-446	1.3120	80/20	1.3120
966621	AG1-532 C	0.4690	80/20	0.4690
966751	AG1-546 C	7.3430	80/20	7.3430
966811	AG1-552 C	1.4052	80/20	1.4052
G-007A	G-007A	0.2973	Confirmed LTF	0.2973
VFT	VFT	0.7934	Confirmed LTF	0.7934
CALDERWOOD	CALDERWOOD	0.4075	Confirmed LTF	0.4075
PRAIRIE	PRAIRIE	1.4052	Confirmed LTF	1.4052
CHEOAH	CHEOAH	0.4179	Confirmed LTF	0.4179
CBM-N	CBM-N	0.1440	Confirmed LTF	0.1440
COTTONWOOD	COTTONWOOD	1.5141	Confirmed LTF	1.5141
HAMLET	HAMLET	0.9067	Confirmed LTF	0.9067
GIBSON	GIBSON	0.2468	Confirmed LTF	0.2468
BLUEG	BLUEG	0.7604	Confirmed LTF	0.7604
TRIMBLE	TRIMBLE	0.2410	Confirmed LTF	0.2410
CATAWBA	CATAWBA	0.4393	Confirmed LTF	0.4393

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
166983949	314267	3CHASCTY2	DVP	314669	3BARNJ	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	107.25	108.26	DC	9.17

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

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

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

11.6.11 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
163348196	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P7-1: LN 54-2012-A	tower	830.0	159.66	161.37	DC	14.21

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168831068	314524	3FRNKLN	DVP	314539	3UNCAMP	DVP	1	DVP_P1-2: LN 136	single	224.66	125.37	126.38	DC	2.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.7476	80/20	2.7476
314572	3EMPORIA	0.1276	80/20	0.1276
314589	3MURPHYS	0.2267	80/20	0.2267
315115	1S HAMPT1	5.0559	80/20	5.0559
315126	1ROARAP2	0.7800	80/20	0.7800
315128	1ROARAP4	0.7443	80/20	0.7443
315606	3AA2-053SOLA	0.7396	80/20	0.7396
315607	3AA1-063SOLA	1.8868	80/20	1.8868
315608	3AA2-088SOLA	2.8057	80/20	2.8057
316087	AB2-174 C	0.4095	80/20	0.4095
316103	AB2-015 C	32.0905	80/20	32.0905
316129	AC1-054 C	2.9570	80/20	2.9570
923991	AB2-040 C O1	2.9924	80/20	2.9924
927145	AC1-208 C	3.1135	80/20	3.1135
957521	AF2-046 C	44.3940	80/20	44.3940
961091	AF2-400 C	1.7329	80/20	1.7329
961681	AG1-008 C	44.4830	80/20	44.4830
961931	AG1-036 C	3.6031	80/20	3.6031
964501	AG1-313 C O1	1.9613	80/20	1.9613
964801	AG1-343 C	15.5691	80/20	15.5691
965291	AG1-394 C	5.3380	80/20	5.3380
965721	AG1-440 C	2.2671	80/20	2.2671
965731	AG1-441 C	2.2671	80/20	2.2671
965771	AG1-445	1.3099	80/20	1.3099
965781	AG1-446	1.3099	80/20	1.3099
966751	AG1-546 C	6.8149	80/20	6.8149
966811	AG1-552 C	1.2385	80/20	1.2385
WEC	WEC	0.0397	Confirmed LTF	0.0397
LGEE	LGEE	0.0823	Confirmed LTF	0.0823
CPL	CPL	0.4941	Confirmed LTF	0.4941
CBM-W2	CBM-W2	1.7920	Confirmed LTF	1.7920
NY	NY	0.0702	Confirmed LTF	0.0702
TVA	TVA	0.3416	Confirmed LTF	0.3416
SIGE	SIGE	0.0298	Confirmed LTF	0.0298
CBM-S2	CBM-S2	5.4497	Confirmed LTF	5.4497
CBM-S1	CBM-S1	0.0851	Confirmed LTF	0.0851
MEC	MEC	0.2415	Confirmed LTF	0.2415
LAGN	LAGN	0.4253	Confirmed LTF	0.4253
CBM-W1	CBM-W1	1.6403	Confirmed LTF	1.6403

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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
169038074	314559	3CAROLNA	DVP	314561	6CAROLNA	DVP	1	DVP_P1-2: LN 68-A	single	239.89	136.38	140.02	DC	8.73

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965601	AG1-428 C O1	2.4689	80/20	2.4689
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

11.6.14 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
169038105	314561	6CAROLNA	DVP	314583	6LAKEVIEW	DVP	1	DVP_P1-2: LN 246-B	single	375.06	104.92	106.53	DC	6.04

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.6941	80/20	4.6941
313527	AB2-043 C	0.1536	80/20	0.1536
313719	3CHESTNUT	0.5336	80/20	0.5336
314582	3KELFORD	0.4685	80/20	0.4685
314589	3MURPHYS	0.1105	80/20	0.1105
315115	1S HAMPT1	1.2216	80/20	1.2216
315126	1ROARAP2	2.3575	80/20	2.3575
315128	1ROARAP4	2.2497	80/20	2.2497
315158	1KERR 1	0.2431	80/20	0.2431
315159	1KERR 2	0.6807	80/20	0.6807
315160	1KERR 3	0.6807	80/20	0.6807
315161	1KERR 4	0.6807	80/20	0.6807
315162	1KERR 5	0.6807	80/20	0.6807
315163	1KERR 6	0.6807	80/20	0.6807
315164	1KERR 7	0.6807	80/20	0.6807
315292	1DOMTR78	1.2134	80/20	1.2134
315293	1DOMTR9	6.2759	80/20	6.2759
315294	1DOMTR10	7.6910	80/20	7.6910
315602	1HOLLOMANSOL	2.2377	80/20	2.2377
315605	6W1-029WIND	0.3283	80/20	0.3283
315606	3AA2-053SOLA	2.4969	80/20	2.4969
315607	3AA1-063SOLA	2.0829	80/20	2.0829
315608	3AA2-088SOLA	1.1592	80/20	1.1592
315611	6Z1-036WIND	0.5090	80/20	0.5090
315614	AA2-178 C	1.1884	80/20	1.1884
316087	AB2-174 C	0.5243	80/20	0.5243
316103	AB2-015 C	6.6190	80/20	6.6190
316129	AC1-054 C	8.4029	80/20	8.4029
316131	AB2-060 C	0.4354	80/20	0.4354
316140	AB2-099 C (Suspended)	0.8485	80/20	0.8485
920591	AA2-165 C	0.0716	80/20	0.0716
923991	AB2-040 C O1	5.1124	80/20	5.1124
924301	AB2-077 C O1 (Suspended)	0.6358	80/20	0.6358
924311	AB2-078 C O1 (Suspended)	0.6358	80/20	0.6358
924321	AB2-079 C O1 (Suspended)	0.6358	80/20	0.6358
925121	AB2-169 C	0.8646	80/20	0.8646
926201	AC1-098 C	6.0713	80/20	6.0713
926211	AC1-099 C	2.0345	80/20	2.0345
927024	AC1-189 C	3.1025	80/20	3.1025

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
927145	AC1-208 C	8.6219	80/20	8.6219
932631	AC2-084 C	8.6548	80/20	8.6548
933991	AD1-023 C	14.8547	80/20	14.8547
934521	AD1-076 C	52.9796	80/20	52.9796
936361	AD2-046 C O1	5.1638	80/20	5.1638
936401	AD2-051 C O1	14.3728	80/20	14.3728
938221	AE1-035 C	0.5595	80/20	0.5595
938771	AE1-103 C	2.1588	80/20	2.1588
939181	AE1-148 C	4.9961	80/20	4.9961
940491	AE2-034 C	5.6494	80/20	5.6494
940661	AE2-053 O1	1.8504	80/20	1.8504
941501	AE2-147 C	4.8024	80/20	4.8024
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.2573	80/20	0.2573
942451	AE2-258	0.7262	80/20	0.7262
943171	AE2-346 C	2.0363	80/20	2.0363
944871	AF1-152 C	1.6008	80/20	1.6008
945711	AF1-236 C O1	61.8477	80/20	61.8477
957521	AF2-046 C	22.1187	80/20	22.1187
957531	AF2-047 C	13.4241	80/20	13.4241
957861	AF2-080 C	2.8179	80/20	2.8179
959511	AF2-242 C	5.9220	80/20	5.9220
961091	AF2-400 C	0.3574	80/20	0.3574
961681	AG1-008 C	22.1630	80/20	22.1630
961851	AG1-027 C	5.4782	80/20	5.4782
961931	AG1-036 C	1.8847	80/20	1.8847
961941	AG1-037 C	0.7273	80/20	0.7273
962331	AG1-082 C	2.9090	80/20	2.9090
962341	AG1-083 C	2.9090	80/20	2.9090
962351	AG1-084 C	2.6338	80/20	2.6338
962361	AG1-085 C	2.6338	80/20	2.6338
964491	AG1-312 C O1	28.5264	80/20	28.5264
964501	AG1-313 C O1	7.7117	80/20	7.7117
964801	AG1-343 C	7.1442	80/20	7.1442
965291	AG1-394 C	2.4179	80/20	2.4179
965631	AG1-431	35.8066	80/20	35.8066
965691	AG1-437 C O1	12.7080	80/20	12.7080
965701	AG1-438 C O1	12.7080	80/20	12.7080
965721	AG1-440 C	6.0395	80/20	6.0395
965731	AG1-441 C	6.0395	80/20	6.0395
965741	AG1-442 O1	7.4130	80/20	7.4130
965751	AG1-443 O1	7.4130	80/20	7.4130
965771	AG1-445	3.4895	80/20	3.4895
965781	AG1-446	3.4895	80/20	3.4895
966751	AG1-546 C	19.5474	80/20	19.5474
966801	AG1-551 C	1.7312	80/20	1.7312
966811	AG1-552 C	3.7431	80/20	3.7431
966931	AG1-431A	26.9020	80/20	26.9020
WEC	WEC	0.0353	Confirmed LTF	0.0353
LGEE	LGEE	0.0729	Confirmed LTF	0.0729
CPL	CPL	0.4402	Confirmed LTF	0.4402
CBM-W2	CBM-W2	1.4784	Confirmed LTF	1.4784

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	0.0426	Confirmed LTF	0.0426
TVA	TVA	0.2744	Confirmed LTF	0.2744
SIGE	SIGE	0.0225	Confirmed LTF	0.0225
CBM-S2	CBM-S2	4.3013	Confirmed LTF	4.3013
CBM-S1	CBM-S1	0.0692	Confirmed LTF	0.0692
MEC	MEC	0.2082	Confirmed LTF	0.2082
LAGN	LAGN	0.3430	Confirmed LTF	0.3430
CBM-W1	CBM-W1	1.4861	Confirmed LTF	1.4861

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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
169038019	314562	3CLUBHSE	DVP	314563	6CLUBHSE	DVP	1	DVP_P1-2: LN 2201	single	182.64	227.08	229.97	DC	5.28

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924311	AB2-078 C O1 (Suspended)	1.5130	80/20	1.5130
924321	AB2-079 C O1 (Suspended)	1.5130	80/20	1.5130
925591	AC1-034 C	2.2414	80/20	2.2414
925611	AC1-036 C	0.1376	80/20	0.1376
926070	AC1-086 C	10.0123	80/20	10.0123
926201	AC1-098 C	3.1031	80/20	3.1031
926211	AC1-099 C	1.0399	80/20	1.0399
927145	AC1-208 C	5.2586	80/20	5.2586
932631	AC2-084 C	4.4236	80/20	4.4236
934331	AD1-057 C O1	3.8417	80/20	3.8417
935221	AD1-157 C	0.0980	80/20	0.0980
936265	AD2-033 C	8.3234	80/20	8.3234
936361	AD2-046 C O1	6.2368	80/20	6.2368
936485	AD2-063 C	10.6713	80/20	10.6713
938371	AE1-056 C	2.6788	80/20	2.6788
939181	AE1-148 C	6.1781	80/20	6.1781
940571	AE2-044 C	1.4680	80/20	1.4680
940661	AE2-053 O1	2.2882	80/20	2.2882
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0630	80/20	0.0630
942451	AE2-258	1.8236	80/20	1.8236
943171	AE2-346 C	0.5473	80/20	0.5473
943911	AF1-059	31.0992	80/20	31.0992
944141	AF1-082	0.9437	80/20	0.9437
946281	AF1-292 C	4.8137	80/20	4.8137
946301	AF1-294 C	1.9760	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
163348200	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	157.38	158.88	DC	12.47

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	14.5739	50/50	14.5739
313719	3CHESTNUT	1.3547	50/50	1.3547
314541	3WATKINS	0.3968	Adder	0.47
314572	3EMPORIA	1.0296	50/50	1.0296
314582	3KELFORD	0.3886	50/50	0.3886
314589	3MURPHYS	0.0859	50/50	0.0859
314594	6PLYMOTH	0.0480	Adder	0.06
314623	3WITAKRS	0.2420	50/50	0.2420
314704	3LAWRENC	0.5984	50/50	0.5984
315126	1ROARAP2	2.1390	50/50	2.1390
315128	1ROARAP4	2.0412	50/50	2.0412
315131	1EDGE CMA (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315132	1EDGE CMB (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315136	1ROSEMG1	4.0488	50/50	4.0488
315137	1ROSEMS1	2.5107	50/50	2.5107
315138	1ROSEMG2	1.8975	50/50	1.8975
315139	1GASTONA	6.0660	50/50	6.0660
315141	1GASTONB	6.0660	50/50	6.0660
315293	1DOMTR9	4.0274	Adder	4.74
315294	1DOMTR10	4.9355	Adder	5.81
315601	1CONETOE2SOL	1.5563	50/50	1.5563
315602	1HOLLOMAN SOL	1.3084	50/50	1.3084
315606	3AA2-053SOLA	2.1783	50/50	2.1783
315607	3AA1-063SOLA	1.8411	50/50	1.8411
315608	3AA2-088SOLA	0.9619	50/50	0.9619
316020	AB2-059 C OP	1.8615	50/50	1.8615
316087	AB2-174 C	2.5142	50/50	2.5142
316088	AB2-174 E	14.4183	50/50	14.4183
316096	AB2-100 C1	2.8368	50/50	2.8368
316097	AB2-100 E1	8.8562	50/50	8.8562
316098	AB2-100 C2	2.8368	50/50	2.8368
316099	AB2-100 E2	8.8562	50/50	8.8562
316103	AB2-015 C	4.5989	Adder	5.41
316104	AB2-015 E	3.7711	Adder	4.44
316129	AC1-054 C	8.9401	50/50	8.9401
316140	AB2-099 C (Suspended)	0.5970	50/50	0.5970
316141	AB2-099 E (Suspended)	0.2558	50/50	0.2558
900672	V4-068 E	0.2984	50/50	0.2984
917332	Z2-043 E	1.1590	50/50	1.1590

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
917342	Z2-044 E	0.6574	50/50	0.6574
917512	Z2-088 E OP1	9.2316	50/50	9.2316
918492	AA1-063AE OP	5.5022	50/50	5.5022
918512	AA1-065 E OP	3.7133	50/50	3.7133
918532	AA1-067 E	0.5438	Adder	0.64
919692	AA2-053 E OP	5.6689	50/50	5.6689
919702	AA2-057 E OP	4.0531	50/50	4.0531
920042	AA2-088 E OP	9.9473	50/50	9.9473
920591	AA2-165 C	0.1819	50/50	0.1819
920592	AA2-165 E	0.5571	50/50	0.5571
922922	AB1-081 C OP	1.5794	50/50	1.5794
922923	AB1-081 E OP	4.2905	50/50	4.2905
923262	AB1-132 C OP (Suspended)	29.3605	50/50	29.3605
923263	AB1-132 E OP (Suspended)	12.5831	50/50	12.5831
923573	AB1-173 E OP	2.2727	50/50	2.2727
923991	AB2-040 C O1	15.8726	50/50	15.8726
923992	AB2-040 E O1	12.9866	50/50	12.9866
924022	AB2-043 E O1	1.9315	Adder	2.27
924152	AB2-059 E OP	6.0782	50/50	6.0782
924162	AB2-060 E OP	2.8784	Adder	3.39
924301	AB2-077 C O1 (Suspended)	1.3530	Adder	1.59
924302	AB2-077 E O1 (Suspended)	0.9020	Adder	1.06
924311	AB2-078 C O1 (Suspended)	1.3530	Adder	1.59
924312	AB2-078 E O1 (Suspended)	0.9020	Adder	1.06
924321	AB2-079 C O1 (Suspended)	1.3530	Adder	1.59
924322	AB2-079 E O1 (Suspended)	0.9020	Adder	1.06
925122	AB2-169 E	3.7190	Adder	4.38
925591	AC1-034 C	7.6424	50/50	7.6424
925592	AC1-034 E	5.7653	50/50	5.7653
925612	AC1-036 E	0.4578	Adder	0.54
925785	AC1-054 E	4.1185	50/50	4.1185
926070	AC1-086 C	43.2369	50/50	43.2369
926071	AC1-086 E	19.6785	50/50	19.6785
926201	AC1-098 C	7.4602	50/50	7.4602
926202	AC1-098 E	4.4444	50/50	4.4444
926211	AC1-099 C	2.5000	50/50	2.5000
926212	AC1-099 E	1.4682	50/50	1.4682
927024	AC1-189 C	9.1752	50/50	9.1752
927025	AC1-189 E	4.5704	50/50	4.5704
927145	AC1-208 C	11.7742	50/50	11.7742
927146	AC1-208 E	5.2070	50/50	5.2070
932631	AC2-084 C	10.6348	50/50	10.6348
932632	AC2-084 E	5.2380	50/50	5.2380
933991	AD1-023 C	7.9657	Adder	9.37
933992	AD1-023 E	4.3365	Adder	5.1

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961942	AG1-037 E	0.3411	50/50	0.3411
962331	AG1-082 C	2.0467	50/50	2.0467
962332	AG1-082 E	1.3645	50/50	1.3645
962341	AG1-083 C	2.0467	50/50	2.0467
962342	AG1-083 E	1.3645	50/50	1.3645
962351	AG1-084 C	1.7977	50/50	1.7977
962352	AG1-084 E	1.1985	50/50	1.1985
962361	AG1-085 C	1.7977	50/50	1.7977
962362	AG1-085 E	1.1985	50/50	1.1985
962571	AG1-106 C	12.0238	50/50	12.0238
962572	AG1-106 E	5.4527	50/50	5.4527
963301	AG1-179 C	10.7581	50/50	10.7581
963311	AG1-180	5.2416	50/50	5.2416
963321	AG1-181 C O1	4.9612	Adder	11.01
963361	AG1-185 O1	2.4004	Adder	5.33
964111	AG1-272 C	0.7266	Adder	1.61
964112	AG1-272 E	0.2158	Adder	0.48
964121	AG1-273 C	0.7266	Adder	1.61
964122	AG1-273 E	0.2158	Adder	0.48
964131	AG1-274 C	0.7266	Adder	1.61
964132	AG1-274 E	0.2158	Adder	0.48
964241	AG1-285 C O1	4.2670	Adder	9.47
964242	AG1-285 E O1	2.8447	Adder	6.31
964491	AG1-312 C O1	16.8134	50/50	16.8134
964492	AG1-312 E O1	4.2034	50/50	4.2034
964501	AG1-313 C O1	6.4026	50/50	6.4026
964502	AG1-313 E O1	4.2684	50/50	4.2684
964801	AG1-343 C	5.8664	50/50	5.8664
964802	AG1-343 E	4.6093	50/50	4.6093
965191	AG1-384 C	0.7266	Adder	1.61
965192	AG1-384 E	0.2158	Adder	0.48
965291	AG1-394 C	2.0088	50/50	2.0088
965292	AG1-394 E	1.3392	50/50	1.3392
965451	AG1-413 C O1	11.1643	50/50	11.1643
965452	AG1-413 E O1	7.4429	50/50	7.4429
965591	AG1-427 C	4.0275	Adder	8.94
965592	AG1-427 E	2.6907	Adder	5.97
965601	AG1-428 C O1	8.9810	50/50	8.9810
965602	AG1-428 E O1	5.9767	50/50	5.9767
965691	AG1-437 C O1	3.5190	Adder	7.81
965692	AG1-437 E O1	2.3460	Adder	5.21
965701	AG1-438 C O1	3.5190	Adder	7.81
965702	AG1-438 E O1	2.3460	Adder	5.21
965711	AG1-439 C O1	27.9180	50/50	27.9180
965712	AG1-439 E O1	18.6120	50/50	18.6120
965721	AG1-440 C	7.4813	50/50	7.4813
965722	AG1-440 E	4.9875	50/50	4.9875
965731	AG1-441 C	7.4813	50/50	7.4813
965732	AG1-441 E	4.9875	50/50	4.9875
965741	AG1-442 O1	2.0528	Adder	4.56
965751	AG1-443 O1	2.0528	Adder	4.56
965761	AG1-444 O1	14.8896	50/50	14.8896

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169038095	314568	3EARLEYS	DVP	314569	6EARLEYS	DVP	2	DVP_P1-3: 6EARLEYS-TX#3	single	175.78	139.28	140.65	DC	2.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.8357	80/20	2.8357
313719	3CHESTNUT	0.7616	80/20	0.7616
314582	3KELFORD	0.9905	80/20	0.9905
314589	3MURPHYS	0.1590	80/20	0.1590
314623	3WITAKRS	0.0972	80/20	0.0972
315115	1S HAMPT1	1.0912	80/20	1.0912
315126	1ROARAP2	0.8570	80/20	0.8570
315128	1ROARAP4	0.8178	80/20	0.8178
315606	3AA2-053SOLA	1.6715	80/20	1.6715
315607	3AA1-063SOLA	1.1232	80/20	1.1232
315608	3AA2-088SOLA	1.0808	80/20	1.0808
316087	AB2-174 C	0.4137	80/20	0.4137
316103	AB2-015 C	5.8060	80/20	5.8060
316129	AC1-054 C	3.1960	80/20	3.1960
316140	AB2-099 C (Suspended)	1.8114	80/20	1.8114
920591	AA2-165 C	0.1022	80/20	0.1022
923991	AB2-040 C O1	3.0884	80/20	3.0884
926201	AC1-098 C	9.2342	80/20	9.2342
926211	AC1-099 C	3.0944	80/20	3.0944
927145	AC1-208 C	8.4058	80/20	8.4058
932631	AC2-084 C	13.1636	80/20	13.1636
938771	AE1-103 C	1.7850	80/20	1.7850
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.6001	80/20	0.6001
943171	AE2-346 C	4.3473	80/20	4.3473
957521	AF2-046 C	34.9879	80/20	34.9879
961091	AF2-400 C	0.3135	80/20	0.3135
961681	AG1-008 C	35.0580	80/20	35.0580
961931	AG1-036 C	3.5583	80/20	3.5583
961941	AG1-037 C	1.5526	80/20	1.5526
962331	AG1-082 C	6.2105	80/20	6.2105
962341	AG1-083 C	6.2105	80/20	6.2105
962351	AG1-084 C	6.1440	80/20	6.1440
962361	AG1-085 C	6.1440	80/20	6.1440
964501	AG1-313 C O1	8.0106	80/20	8.0106
964801	AG1-343 C	7.3500	80/20	7.3500
965291	AG1-394 C	2.2658	80/20	2.2658
965721	AG1-440 C	2.4102	80/20	2.4102
965731	AG1-441 C	2.4102	80/20	2.4102
965771	AG1-445	1.3926	80/20	1.3926
965781	AG1-446	1.3926	80/20	1.3926

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966751	AG1-546 C	7.3830	80/20	7.3830
966811	AG1-552 C	1.3607	80/20	1.3607
WEC	WEC	0.0110	Confirmed LTF	0.0110
LGEE	LGEE	0.0239	Confirmed LTF	0.0239
CPL	CPL	0.0969	Confirmed LTF	0.0969
CBM-W2	CBM-W2	0.4928	Confirmed LTF	0.4928
NY	NY	0.0343	Confirmed LTF	0.0343
TVA	TVA	0.0952	Confirmed LTF	0.0952
SIG	SIG	0.0114	Confirmed LTF	0.0114
CBM-S2	CBM-S2	1.3676	Confirmed LTF	1.3676
CBM-S1	CBM-S1	0.0239	Confirmed LTF	0.0239
MEC	MEC	0.0667	Confirmed LTF	0.0667
LAGN	LAGN	0.1155	Confirmed LTF	0.1155
CBM-W1	CBM-W1	0.4486	Confirmed LTF	0.4486

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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
169038139	314568	3EARLEYS	DVP	314569	6EARLEYS	DVP	1	DVP_P1-3: 6EARLEYS-TX#4	single	202.48	121.02	122.21	DC	2.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.8389	80/20	2.8389
313719	3CHESTNUT	0.7625	80/20	0.7625
314582	3KELFORD	0.9917	80/20	0.9917
314589	3MURPHYS	0.1592	80/20	0.1592
314623	3WITAKRS	0.0973	80/20	0.0973
315115	1S HAMPT1	1.0924	80/20	1.0924
315126	1ROARAP2	0.8579	80/20	0.8579
315128	1ROARAP4	0.8187	80/20	0.8187
315606	3AA2-053SOLA	1.6734	80/20	1.6734
315607	3AA1-063SOLA	1.1244	80/20	1.1244
315608	3AA2-088SOLA	1.0820	80/20	1.0820
316087	AB2-174 C	0.4142	80/20	0.4142
316103	AB2-015 C	5.8125	80/20	5.8125
316129	AC1-054 C	3.1996	80/20	3.1996
316140	AB2-099 C (Suspended)	1.8134	80/20	1.8134
920591	AA2-165 C	0.1024	80/20	0.1024
923991	AB2-040 C O1	3.0919	80/20	3.0919
926201	AC1-098 C	9.2447	80/20	9.2447
926211	AC1-099 C	3.0980	80/20	3.0980
927145	AC1-208 C	8.4153	80/20	8.4153
932631	AC2-084 C	13.1786	80/20	13.1786
938771	AE1-103 C	1.7869	80/20	1.7869
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.6008	80/20	0.6008
943171	AE2-346 C	4.3522	80/20	4.3522
957521	AF2-046 C	35.0268	80/20	35.0268
961091	AF2-400 C	0.3139	80/20	0.3139
961681	AG1-008 C	35.0970	80/20	35.0970
961931	AG1-036 C	3.5624	80/20	3.5624
961941	AG1-037 C	1.5544	80/20	1.5544
962331	AG1-082 C	6.2174	80/20	6.2174
962341	AG1-083 C	6.2174	80/20	6.2174
962351	AG1-084 C	6.1509	80/20	6.1509
962361	AG1-085 C	6.1509	80/20	6.1509
964501	AG1-313 C O1	8.0195	80/20	8.0195
964801	AG1-343 C	7.3584	80/20	7.3584
965291	AG1-394 C	2.2684	80/20	2.2684
965721	AG1-440 C	2.4129	80/20	2.4129
965731	AG1-441 C	2.4129	80/20	2.4129
965771	AG1-445	1.3941	80/20	1.3941
965781	AG1-446	1.3941	80/20	1.3941

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966751	AG1-546 C	7.3918	80/20	7.3918
966811	AG1-552 C	1.3622	80/20	1.3622
WEC	WEC	0.0110	Confirmed LTF	0.0110
LGEE	LGEE	0.0239	Confirmed LTF	0.0239
CPL	CPL	0.0969	Confirmed LTF	0.0969
CBM-W2	CBM-W2	0.4928	Confirmed LTF	0.4928
NY	NY	0.0343	Confirmed LTF	0.0343
TVA	TVA	0.0952	Confirmed LTF	0.0952
SIGE	SIGE	0.0114	Confirmed LTF	0.0114
CBM-S2	CBM-S2	1.3676	Confirmed LTF	1.3676
CBM-S1	CBM-S1	0.0239	Confirmed LTF	0.0239
MEC	MEC	0.0667	Confirmed LTF	0.0667
LAGN	LAGN	0.1155	Confirmed LTF	0.1155
CBM-W1	CBM-W1	0.4486	Confirmed LTF	0.4486

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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
169038135	314579	6HORNRTN	DVP	934330	AD1-057 TAP	DVP	1	DVP_P1-2: LN 238-A	single	441.8	129.42	130.48	DC	4.7

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965741	AG1-442 O1	2.5826	80/20	2.5826
965751	AG1-443 O1	2.5826	80/20	2.5826
965771	AG1-445	2.7154	80/20	2.7154
965781	AG1-446	2.7154	80/20	2.7154
966621	AG1-532 C	2.0990	80/20	2.0990
966751	AG1-546 C	14.0055	80/20	14.0055
966811	AG1-552 C	2.5287	80/20	2.5287
G-007A	G-007A	0.2973	Confirmed LTF	0.2973
VFT	VFT	0.7869	Confirmed LTF	0.7869
CALDERWOOD	CALDERWOOD	0.6541	Confirmed LTF	0.6541
PRAIRIE	PRAIRIE	2.2911	Confirmed LTF	2.2911
CHEOAH	CHEOAH	0.6702	Confirmed LTF	0.6702
CBM-N	CBM-N	0.1404	Confirmed LTF	0.1404
COTTONWOOD	COTTONWOOD	2.4423	Confirmed LTF	2.4423
HAMLET	HAMLET	1.4414	Confirmed LTF	1.4414
GIBSON	GIBSON	0.4062	Confirmed LTF	0.4062
BLUEG	BLUEG	1.2534	Confirmed LTF	1.2534
TRIMBLE	TRIMBLE	0.3979	Confirmed LTF	0.3979
CATAWBA	CATAWBA	0.6983	Confirmed LTF	0.6983

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163348150	314583	6LAKEVEW	DVP	313725	6DRY BREAD	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	196.92	197.42	DC	5.02

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	1.1225	50/50	1.1225
314539	3UNCAMP	2.0614	Adder	2.43
314541	3WATKINS	0.2795	Adder	0.33
314582	3KELFORD	0.3267	50/50	0.3267
314589	3MURPHYS	0.0638	50/50	0.0638
314594	6PLYMOTH	0.0478	Adder	0.06
314623	3WITAKRS	0.2114	50/50	0.2114
315126	1ROARAP2	1.2818	50/50	1.2818
315128	1ROARAP4	1.2232	50/50	1.2232
315131	1EDGECEMA (Deactivation : 22/04/2019)	13.4751	50/50	13.4751
315132	1EDGECEMB (Deactivation : 22/04/2019)	13.4751	50/50	13.4751
315136	1ROSEMG1	4.2853	50/50	4.2853
315137	1ROSEMS1	2.6573	50/50	2.6573
315138	1ROSEMG2	2.0084	50/50	2.0084
315139	1GASTONA	6.4457	50/50	6.4457
315141	1GASTONB	6.4457	50/50	6.4457
315293	1DOMTR9	3.9969	Adder	4.7
315294	1DOMTR10	4.8981	Adder	5.76
315601	1CONETOE2SOL	1.5584	50/50	1.5584
315602	1HOLLOMANSOL	1.2830	50/50	1.2830
315606	3AA2-053SOLA	1.3781	50/50	1.3781
315607	3AA1-063SOLA	1.1475	50/50	1.1475
316020	AB2-059 C OP	1.7446	50/50	1.7446
316103	AB2-015 C	3.2649	Adder	3.84
316104	AB2-015 E	2.6772	Adder	3.15
316129	AC1-054 C	3.7303	Adder	4.39
316140	AB2-099 C (Suspended)	0.5027	50/50	0.5027
316141	AB2-099 E (Suspended)	0.2154	50/50	0.2154
900672	V4-068 E	0.2217	50/50	0.2217
917332	Z2-043 E	0.9745	50/50	0.9745
917342	Z2-044 E	0.5743	50/50	0.5743
917512	Z2-088 E OP1	9.2440	50/50	9.2440
918492	AA1-063AE OP	3.4294	50/50	3.4294
918512	AA1-065 E OP	3.6413	50/50	3.6413
918532	AA1-067 E	0.6289	50/50	0.6289
919692	AA2-053 E OP	3.5865	50/50	3.5865
919702	AA2-057 E OP	3.3585	50/50	3.3585
920042	AA2-088 E OP	5.7901	Adder	6.81
920591	AA2-165 C	0.1507	50/50	0.1507

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
920592	AA2-165 E	0.4616	50/50	0.4616
920692	AA2-178 E	1.8111	Adder	2.13
922922	AB1-081 C OP	1.4802	50/50	1.4802
922923	AB1-081 E OP	4.0210	50/50	4.0210
923262	AB1-132 C OP (Suspended)	31.1984	50/50	31.1984
923263	AB1-132 E OP (Suspended)	13.3708	50/50	13.3708
924152	AB2-059 E OP	5.6964	50/50	5.6964
925121	AB2-169 C	0.7606	50/50	0.7606
925122	AB2-169 E	4.3263	50/50	4.3263
925591	AC1-034 C	7.1623	50/50	7.1623
925592	AC1-034 E	5.4032	50/50	5.4032
925785	AC1-054 E	1.7185	Adder	2.02
926070	AC1-086 C	45.9434	50/50	45.9434
926071	AC1-086 E	20.9104	50/50	20.9104
926201	AC1-098 C	5.8961	50/50	5.8961
926202	AC1-098 E	3.5125	50/50	3.5125
926211	AC1-099 C	1.9758	50/50	1.9758
926212	AC1-099 E	1.1604	50/50	1.1604
927024	AC1-189 C	9.1421	50/50	9.1421
927025	AC1-189 E	4.5539	50/50	4.5539
927145	AC1-208 C	8.8075	50/50	8.8075
927146	AC1-208 E	3.8950	50/50	3.8950
932631	AC2-084 C	8.4050	50/50	8.4050
932632	AC2-084 E	4.1398	50/50	4.1398
933991	AD1-023 C	9.2859	50/50	9.2859
933992	AD1-023 E	5.0553	50/50	5.0553
934331	AD1-057 C O1	18.0326	50/50	18.0326
934332	AD1-057 E O1	9.6194	50/50	9.6194
934521	AD1-076 C	29.4730	Adder	34.67
934522	AD1-076 E	15.0076	Adder	17.66
936401	AD2-051 C O1	8.2520	50/50	8.2520
936402	AD2-051 E O1	3.5433	50/50	3.5433
938221	AE1-035 C	0.3208	50/50	0.3208
938222	AE1-035 E	1.0014	50/50	1.0014
940491	AE2-034 C	3.1694	Adder	3.73
940492	AE2-034 E	1.3583	Adder	1.6
940542	AE2-040 BAT	2.8642	50/50	2.8642
940571	AE2-044 C	4.6911	50/50	4.6911
940572	AE2-044 E	2.0105	50/50	2.0105
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1535	50/50	0.1535
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5238	50/50	0.5238
943171	AE2-346 C	1.2065	50/50	1.2065
943172	AE2-346 E	0.5171	50/50	0.5171
943912	AF1-059 BAT	6.8210	Merchant Transmission	6.8210
944141	AF1-082	3.0157	50/50	3.0157
945711	AF1-236 C O1	34.6979	Adder	40.82
945712	AF1-236 E O1	21.4315	Adder	25.21
946012	AF1-266 BAT	15.1540	50/50	15.1540
957521	AF2-046 C	12.8463	50/50	12.8463

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957522	AF2-046 E	6.4617	50/50	6.4617
957531	AF2-047 C	7.5312	Adder	8.86
957532	AF2-047 E	3.7882	Adder	4.46
957861	AF2-080 C	8.3032	50/50	8.3032
957862	AF2-080 E	3.6808	50/50	3.6808
959511	AF2-242 C	5.8135	50/50	5.8135
959512	AF2-242 E	4.5216	50/50	4.5216
961091	AF2-400 C	0.1763	Adder	0.21
961092	AF2-400 E	0.2893	Adder	0.34
961671	AG1-007 C	1.5264	50/50	1.5264
961672	AG1-007 E	0.8524	50/50	0.8524
961681	AG1-008 C	12.8720	50/50	12.8720
961682	AG1-008 E	6.4360	50/50	6.4360
961931	AG1-036 C	1.1068	50/50	1.1068
961932	AG1-036 E	0.7379	50/50	0.7379
961941	AG1-037 C	0.4309	50/50	0.4309
961942	AG1-037 E	0.2873	50/50	0.2873
962331	AG1-082 C	1.7236	50/50	1.7236
962332	AG1-082 E	1.1490	50/50	1.1490
962341	AG1-083 C	1.7236	50/50	1.7236
962342	AG1-083 E	1.1490	50/50	1.1490
962351	AG1-084 C	1.5715	50/50	1.5715
962352	AG1-084 E	1.0477	50/50	1.0477
962361	AG1-085 C	1.5715	50/50	1.5715
962362	AG1-085 E	1.0477	50/50	1.0477
962571	AG1-106 C	12.7765	50/50	12.7765
962572	AG1-106 E	5.7940	50/50	5.7940
963312	AG1-180 BAT	1.5544	Merchant Transmission	1.5544
964491	AG1-312 C O1	16.5054	50/50	16.5054
964492	AG1-312 E O1	4.1264	50/50	4.1264
964501	AG1-313 C O1	4.3329	50/50	4.3329
964502	AG1-313 E O1	2.8886	50/50	2.8886
964801	AG1-343 C	4.0656	50/50	4.0656
964802	AG1-343 E	3.1944	50/50	3.1944
965291	AG1-394 C	0.6177	Adder	1.37
965292	AG1-394 E	0.4118	Adder	0.91
965631	AG1-431	10.6468	Adder	23.63
965691	AG1-437 C O1	7.7136	50/50	7.7136
965692	AG1-437 E O1	5.1424	50/50	5.1424
965701	AG1-438 C O1	7.7136	50/50	7.7136
965702	AG1-438 E O1	5.1424	50/50	5.1424
965711	AG1-439 C O1	27.9555	50/50	27.9555
965712	AG1-439 E O1	18.6370	50/50	18.6370
965721	AG1-440 C	1.3558	Adder	3.01
965722	AG1-440 E	0.9039	Adder	2.01
965731	AG1-441 C	1.3558	Adder	3.01
965732	AG1-441 E	0.9039	Adder	2.01
965741	AG1-442 O1	4.4996	50/50	4.4996
965751	AG1-443 O1	4.4996	50/50	4.4996
965761	AG1-444 O1	14.9096	50/50	14.9096
965771	AG1-445	0.7834	Adder	1.74
965781	AG1-446	0.7834	Adder	1.74

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966751	AG1-546 C	4.6287	Adder	10.27
966752	AG1-546 E	2.4836	Adder	5.51
966801	AG1-551 C	1.8784	50/50	1.8784
966802	AG1-551 E	0.8050	50/50	0.8050
966811	AG1-552 C	2.0352	50/50	2.0352
966812	AG1-552 E	0.8722	50/50	0.8722
966931	AG1-431A	7.9991	Adder	17.76
WEC	WEC	0.1496	Confirmed LTF	0.1496
LGEE	LGEE	0.3060	Confirmed LTF	0.3060
CPL	CPL	1.9649	Confirmed LTF	1.9649
CBM-W2	CBM-W2	6.7648	Confirmed LTF	6.7648
NY	NY	0.2085	Confirmed LTF	0.2085
TVA	TVA	1.2852	Confirmed LTF	1.2852
O-066	O-066	2.9276	Confirmed LTF	2.9276
SIGE	SIGE	0.1008	Confirmed LTF	0.1008
CBM-S2	CBM-S2	20.9113	Confirmed LTF	20.9113
CBM-S1	CBM-S1	0.3192	Confirmed LTF	0.3192
G-007	G-007	0.4599	Confirmed LTF	0.4599
MEC	MEC	0.9089	Confirmed LTF	0.9089
LAGN	LAGN	1.6048	Confirmed LTF	1.6048
CBM-W1	CBM-W1	6.2529	Confirmed LTF	6.2529

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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
169038214	314583	6LAKEVEW	DVP	314579	6HORNRTN	DVP	1	DVP_P1-2: LN 238-A	single	441.8	101.86	102.94	DC	4.74

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.4649	80/20	9.4649
313527	AB2-043 C	0.2332	80/20	0.2332
314572	3EMPORIA	0.6316	80/20	0.6316
314582	3KELFORD	0.1673	80/20	0.1673
314589	3MURPHYS	0.0602	80/20	0.0602
314704	3LAWRENC	0.3585	80/20	0.3585
315115	1S HAMPT1	0.8094	80/20	0.8094
315126	1ROARAP2	1.5993	80/20	1.5993
315128	1ROARAP4	1.5262	80/20	1.5262
315139	1GASTONA	6.1920	80/20	6.1920
315141	1GASTONB	6.1920	80/20	6.1920
315158	1KERR 1	0.2051	80/20	0.2051
315159	1KERR 2	0.5744	80/20	0.5744
315160	1KERR 3	0.5744	80/20	0.5744
315161	1KERR 4	0.5744	80/20	0.5744
315162	1KERR 5	0.5744	80/20	0.5744
315163	1KERR 6	0.5744	80/20	0.5744
315164	1KERR 7	0.5744	80/20	0.5744
315602	1HOLLOMANSOL	0.8046	80/20	0.8046
315606	3AA2-053SOLA	1.5880	80/20	1.5880
315607	3AA1-063SOLA	1.3779	80/20	1.3779
315608	3AA2-088SOLA	0.7277	80/20	0.7277
315614	AA2-178 C	0.4436	80/20	0.4436
316087	AB2-174 C	1.5969	80/20	1.5969
316096	AB2-100 C1	1.7208	80/20	1.7208
316098	AB2-100 C2	1.7208	80/20	1.7208
316103	AB2-015 C	4.4810	80/20	4.4810
316129	AC1-054 C	6.1219	80/20	6.1219
316131	AB2-060 C	0.6611	80/20	0.6611
316140	AB2-099 C (Suspended)	0.3702	80/20	0.3702
923991	AB2-040 C O1	10.3083	80/20	10.3083
924301	AB2-077 C O1 (Suspended)	0.9228	80/20	0.9228
924311	AB2-078 C O1 (Suspended)	0.9228	80/20	0.9228
924321	AB2-079 C O1 (Suspended)	0.9228	80/20	0.9228
925591	AC1-034 C	-5.3678	Adder	-6.32
925611	AC1-036 C	0.0846	80/20	0.0846
926070	AC1-086 C	44.1349	80/20	44.1349
933991	AD1-023 C	5.1772	80/20	5.1772
934521	AD1-076 C	18.1292	80/20	18.1292

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936265	AD2-033 C	5.0989	80/20	5.0989
936361	AD2-046 C O1	4.6728	80/20	4.6728
936401	AD2-051 C O1	5.3516	80/20	5.3516
936485	AD2-063 C	6.4881	80/20	6.4881
938221	AE1-035 C	0.2012	80/20	0.2012
938771	AE1-103 C	1.5584	80/20	1.5584
939181	AE1-148 C	4.5889	80/20	4.5889
940481	AE2-033 C	28.6313	80/20	28.6313
940491	AE2-034 C	2.1088	80/20	2.1088
940661	AE2-053 O1	1.6996	80/20	1.6996
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1043	80/20	0.1043
942451	AE2-258	1.1025	80/20	1.1025
942471	AE2-260 C O1	26.6029	80/20	26.6029
943171	AE2-346 C	0.8886	80/20	0.8886
943911	AF1-059	15.8264	80/20	15.8264
945711	AF1-236 C O1	23.0866	80/20	23.0866
946011	AF1-266	23.9667	80/20	23.9667
946281	AF1-292 C	2.3137	80/20	2.3137
957521	AF2-046 C	11.5618	80/20	11.5618
957531	AF2-047 C	5.0110	80/20	5.0110
959311	AF2-222 C	6.0430	80/20	6.0430
960081	AF2-299 C	3.8996	80/20	3.8996
961091	AF2-400 C	0.2420	80/20	0.2420
961681	AG1-008 C	11.5850	80/20	11.5850
961851	AG1-027 C	4.8503	80/20	4.8503
961891	AG1-030 C	4.8159	80/20	4.8159
961931	AG1-036 C	0.8951	80/20	0.8951
961941	AG1-037 C	0.3173	80/20	0.3173
962331	AG1-082 C	1.2694	80/20	1.2694
962341	AG1-083 C	1.2694	80/20	1.2694
962351	AG1-084 C	1.0679	80/20	1.0679
962361	AG1-085 C	1.0679	80/20	1.0679
962571	AG1-106 C	12.2736	80/20	12.2736
963301	AG1-179 C	6.4361	80/20	6.4361
963311	AG1-180	3.1358	80/20	3.1358
963321	AG1-181 C O1	6.5365	80/20	6.5365
963361	AG1-185 O1	3.1625	80/20	3.1625
964111	AG1-272 C	0.9616	80/20	0.9616
964121	AG1-273 C	0.9616	80/20	0.9616
964131	AG1-274 C	0.9616	80/20	0.9616
964241	AG1-285 C O1	5.5403	80/20	5.5403
964491	AG1-312 C O1	10.2256	80/20	10.2256
964501	AG1-313 C O1	4.5098	80/20	4.5098
964801	AG1-343 C	4.3515	80/20	4.3515
965191	AG1-384 C	0.9616	80/20	0.9616
965291	AG1-394 C	1.5073	80/20	1.5073
965451	AG1-413 C O1	6.6528	80/20	6.6528
965591	AG1-427 C	5.2308	80/20	5.2308
965601	AG1-428 C O1	5.3730	80/20	5.3730
965631	AG1-431	13.3659	80/20	13.3659
965691	AG1-437 C O1	4.4784	80/20	4.4784

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965701	AG1-438 C O1	4.4784	80/20	4.4784
965721	AG1-440 C	4.7381	80/20	4.7381
965731	AG1-441 C	4.7381	80/20	4.7381
965741	AG1-442 O1	2.6124	80/20	2.6124
965751	AG1-443 O1	2.6124	80/20	2.6124
965771	AG1-445	2.7375	80/20	2.7375
965781	AG1-446	2.7375	80/20	2.7375
966621	AG1-532 C	2.1058	80/20	2.1058
966751	AG1-546 C	14.0875	80/20	14.0875
966811	AG1-552 C	2.5393	80/20	2.5393
966931	AG1-431A	10.0420	80/20	10.0420
G-007A	G-007A	0.4987	Confirmed LTF	0.4987
VFT	VFT	1.3287	Confirmed LTF	1.3287
CALDERWOOD	CALDERWOOD	0.6123	Confirmed LTF	0.6123
PRAIRIE	PRAIRIE	2.0741	Confirmed LTF	2.0741
CHEOAH	CHEOAH	0.6281	Confirmed LTF	0.6281
CBM-N	CBM-N	0.2412	Confirmed LTF	0.2412
COTTONWOOD	COTTONWOOD	2.2659	Confirmed LTF	2.2659
HAMLET	HAMLET	1.3929	Confirmed LTF	1.3929
GIBSON	GIBSON	0.3604	Confirmed LTF	0.3604
BLUEG	BLUEG	1.1076	Confirmed LTF	1.1076
TRIMBLE	TRIMBLE	0.3512	Confirmed LTF	0.3512
CATAWBA	CATAWBA	0.6688	Confirmed LTF	0.6688

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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
169249189	314623	3WITAKRS	DVP	313854	3CONSLDL	DVP	1	DVP_P1-2: LN 2056-B	single	165.44	115.97	117.34	DC	2.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.2914	80/20	3.2914
313719	3CHESTNUT	4.2854	80/20	4.2854
314572	3EMPORIA	0.1616	80/20	0.1616
314582	3KELFORD	0.4044	80/20	0.4044
314589	3MURPHYS	0.0392	80/20	0.0392
314623	3WITAKRS	0.9494	80/20	0.9494
315115	1S HAMPT1	0.4778	80/20	0.4778
315126	1ROARAP2	0.8850	80/20	0.8850
315128	1ROARAP4	0.8445	80/20	0.8445
315136	1ROSEMG1	0.7069	80/20	0.7069
315137	1ROSEMS1	0.4383	80/20	0.4383
315138	1ROSEMG2	0.3313	80/20	0.3313
315139	1GASTONA	1.0151	80/20	1.0151
315141	1GASTONB	1.0151	80/20	1.0151
315606	3AA2-053SOLA	0.9169	80/20	0.9169
315607	3AA1-063SOLA	0.7802	80/20	0.7802
315608	3AA2-088SOLA	0.4345	80/20	0.4345
316087	AB2-174 C	0.4990	80/20	0.4990
316103	AB2-015 C	2.6335	80/20	2.6335
316129	AC1-054 C	3.1568	80/20	3.1568
316140	AB2-099 C (Suspended)	0.2798	80/20	0.2798
920591	AA2-165 C	0.5753	80/20	0.5753
923991	AB2-040 C O1	3.5847	80/20	3.5847
925591	AC1-034 C	-5.6912	Adder	-6.7
926070	AC1-086 C	7.2352	80/20	7.2352
926201	AC1-098 C	14.1632	80/20	14.1632
926211	AC1-099 C	4.7462	80/20	4.7462
927145	AC1-208 C	23.0553	80/20	23.0553
932631	AC2-084 C	20.1900	80/20	20.1900
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0830	80/20	0.0830
943171	AE2-346 C	0.6714	80/20	0.6714
946281	AF1-292 C	0.5153	80/20	0.5153
957521	AF2-046 C	7.7325	80/20	7.7325
960081	AF2-299 C	0.8685	80/20	0.8685
961091	AF2-400 C	0.1422	80/20	0.1422
961681	AG1-008 C	7.7480	80/20	7.7480
961931	AG1-036 C	0.6382	80/20	0.6382
961941	AG1-037 C	0.2398	80/20	0.2398
962331	AG1-082 C	0.9592	80/20	0.9592
962341	AG1-083 C	0.9592	80/20	0.9592
962351	AG1-084 C	0.8498	80/20	0.8498

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962361	AG1-085 C	0.8498	80/20	0.8498
962571	AG1-106 C	2.0121	80/20	2.0121
964501	AG1-313 C O1	2.7556	80/20	2.7556
964801	AG1-343 C	2.6397	80/20	2.6397
965291	AG1-394 C	0.9013	80/20	0.9013
965721	AG1-440 C	2.2707	80/20	2.2707
965731	AG1-441 C	2.2707	80/20	2.2707
965771	AG1-445	1.3120	80/20	1.3120
965781	AG1-446	1.3120	80/20	1.3120
966621	AG1-532 C	0.4690	80/20	0.4690
966751	AG1-546 C	7.3430	80/20	7.3430
966811	AG1-552 C	1.4052	80/20	1.4052
G-007A	G-007A	0.2973	Confirmed LTF	0.2973
VFT	VFT	0.7934	Confirmed LTF	0.7934
CALDERWOOD	CALDERWOOD	0.4075	Confirmed LTF	0.4075
PRAIRIE	PRAIRIE	1.4052	Confirmed LTF	1.4052
CHEOAH	CHEOAH	0.4179	Confirmed LTF	0.4179
CBM-N	CBM-N	0.1440	Confirmed LTF	0.1440
COTTONWOOD	COTTONWOOD	1.5141	Confirmed LTF	1.5141
HAMLET	HAMLET	0.9067	Confirmed LTF	0.9067
GIBSON	GIBSON	0.2468	Confirmed LTF	0.2468
BLUEG	BLUEG	0.7604	Confirmed LTF	0.7604
TRIMBLE	TRIMBLE	0.2410	Confirmed LTF	0.2410
CATAWBA	CATAWBA	0.4393	Confirmed LTF	0.4393

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
166983955	314669	3BARN J	DVP	314684	3MT LREL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	106.39	107.4	DC	9.17

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

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

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

11.6.24 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
166983973	314676	3BRUNWICK	DVP	314704	3LAWRENC	DVP	1	DVP_P7-1: LN 158-235	tower	400.0	103.92	104.48	DC	4.95

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.2489	Adder	-3.82
313527	AB2-043 C	0.4996	50/50	0.4996
313853	3PONTONDP	0.6696	50/50	0.6696
314429	3JTRSVLE	0.4226	50/50	0.4226
314713	3PAMPLIN	0.6933	Adder	0.82
316118	AC1-105 C	2.0020	Adder	2.36
316131	AB2-060 C	1.4368	50/50	1.4368
923991	AB2-040 C O1	-3.5384	Adder	-4.16
924022	AB2-043 E O1	2.8318	50/50	2.8318
924162	AB2-060 E OP	4.2857	50/50	4.2857
924301	AB2-077 C O1 (Suspended)	1.9240	50/50	1.9240
924302	AB2-077 E O1 (Suspended)	1.2826	50/50	1.2826
924311	AB2-078 C O1 (Suspended)	1.9240	50/50	1.9240
924312	AB2-078 E O1 (Suspended)	1.2826	50/50	1.2826
924321	AB2-079 C O1 (Suspended)	1.9240	50/50	1.9240
924322	AB2-079 E O1 (Suspended)	1.2826	50/50	1.2826
925611	AC1-036 C	0.1747	50/50	0.1747
925612	AC1-036 E	0.6632	50/50	0.6632
926274	AC1-105 E	0.9836	Adder	1.16
935222	AD1-157 E	0.4274	Adder	0.5
936265	AD2-033 C	13.0580	50/50	13.0580
936266	AD2-033 E	8.7053	50/50	8.7053
936361	AD2-046 C O1	4.5513	Adder	5.35
936362	AD2-046 E O1	2.0929	Adder	2.46
936485	AD2-063 C	13.7358	50/50	13.7358
936486	AD2-063 E	9.1572	50/50	9.1572
938371	AE1-056 C	2.7641	Adder	3.25
938372	AE1-056 E	1.5103	Adder	1.78
939181	AE1-148 C	5.4265	50/50	5.4265
939182	AE1-148 E	3.6176	50/50	3.6176
940661	AE2-053 O1	2.0098	50/50	2.0098
942451	AE2-258	2.3626	50/50	2.3626
943911	AF1-059	46.9881	50/50	46.9881
946301	AF1-294 C	4.2687	50/50	4.2687
946302	AF1-294 E	2.8458	50/50	2.8458
958211	AF2-115 C	2.5110	50/50	2.5110

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958212	AF2-115 E	1.6740	50/50	1.6740
958801	AF2-171 C	7.3639	Adder	8.66
958802	AF2-171 E	4.9093	Adder	5.78
959311	AF2-222 C	12.4050	50/50	12.4050
959312	AF2-222 E	8.3113	50/50	8.3113
961791	AG1-021 C	2.0088	50/50	2.0088
961792	AG1-021 E	1.3392	50/50	1.3392
961891	AG1-030 C	15.0660	50/50	15.0660
961892	AG1-030 E	10.0440	50/50	10.0440
962041	AG1-048 C	12.5550	50/50	12.5550
962042	AG1-048 E	8.3700	50/50	8.3700
962441	AG1-093 C O1	2.8295	Adder	6.28
962442	AG1-093 E O1	0.8612	Adder	1.91
963171	AG1-166 C	2.0088	50/50	2.0088
963172	AG1-166 E	1.3392	50/50	1.3392
963181	AG1-167 C	2.0088	50/50	2.0088
963182	AG1-167 E	1.3392	50/50	1.3392
963191	AG1-168 C	2.0088	50/50	2.0088
963192	AG1-168 E	1.3392	50/50	1.3392
963201	AG1-169 C	2.0088	50/50	2.0088
963202	AG1-169 E	1.3392	50/50	1.3392
963211	AG1-170 C	2.0088	50/50	2.0088
963212	AG1-170 E	1.3392	50/50	1.3392
963301	AG1-179 C	19.9547	50/50	19.9547
963311	AG1-180	9.7224	50/50	9.7224
963321	AG1-181 C O1	13.5895	50/50	13.5895
963361	AG1-185 O1	6.5750	50/50	6.5750
963641	AG1-215 C	0.9374	50/50	0.9374
963642	AG1-215 E	1.4062	50/50	1.4062
964111	AG1-272 C	1.9858	50/50	1.9858
964112	AG1-272 E	0.5898	50/50	0.5898
964121	AG1-273 C	1.9858	50/50	1.9858
964122	AG1-273 E	0.5898	50/50	0.5898
964131	AG1-274 C	1.9858	50/50	1.9858
964132	AG1-274 E	0.5898	50/50	0.5898
964241	AG1-285 C O1	11.7720	50/50	11.7720
964242	AG1-285 E O1	7.8480	50/50	7.8480
964791	AG1-342 C	1.0709	Adder	2.38
964792	AG1-342 E	0.8414	Adder	1.87
964821	AG1-345 C	0.8035	50/50	0.8035
964822	AG1-345 E	0.5357	50/50	0.5357
965191	AG1-384 C	1.9858	50/50	1.9858
965192	AG1-384 E	0.5898	50/50	0.5898
965281	AG1-393 C	2.0088	50/50	2.0088
965282	AG1-393 E	1.3392	50/50	1.3392
965451	AG1-413 C O1	19.7520	50/50	19.7520
965452	AG1-413 E O1	13.1680	50/50	13.1680
965591	AG1-427 C	11.1087	50/50	11.1087
965592	AG1-427 E	7.4214	50/50	7.4214
965601	AG1-428 C O1	16.6585	50/50	16.6585
965602	AG1-428 E O1	11.0859	50/50	11.0859
965721	AG1-440 C	1.3388	Adder	2.97

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965722	AG1-440 E	0.8925	Adder	1.98
965731	AG1-441 C	1.3388	Adder	2.97
965732	AG1-441 E	0.8925	Adder	1.98
965771	AG1-445	0.7735	Adder	1.72
965781	AG1-446	0.7735	Adder	1.72
WEC	WEC	0.0410	Confirmed LTF	0.0410
LGEE	LGEE	0.0861	Confirmed LTF	0.0861
CPLE	CPLE	0.1870	Confirmed LTF	0.1870
CBM-W2	CBM-W2	1.4067	Confirmed LTF	1.4067
NY	NY	0.0332	Confirmed LTF	0.0332
TVA	TVA	0.2450	Confirmed LTF	0.2450
O-066	O-066	0.5115	Confirmed LTF	0.5115
SIGE	SIGE	0.0226	Confirmed LTF	0.0226
CBM-S2	CBM-S2	2.5996	Confirmed LTF	2.5996
CBM-S1	CBM-S1	0.0638	Confirmed LTF	0.0638
G-007	G-007	0.0808	Confirmed LTF	0.0808
MEC	MEC	0.2225	Confirmed LTF	0.2225
LAGN	LAGN	0.2992	Confirmed LTF	0.2992
CBM-W1	CBM-W1	1.7385	Confirmed LTF	1.7385

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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
169249030	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P1-2: LN 556-C	single	571.52	230.43	231.56	DC	6.45

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	4.7900	80/20	4.7900
963271	AG1-176 C O1	37.8534	80/20	37.8534
963301	AG1-179 C	4.3337	80/20	4.3337
963311	AG1-180	2.1115	80/20	2.1115
963321	AG1-181 C O1	31.0660	80/20	31.0660
963361	AG1-185 O1	15.0305	80/20	15.0305
963601	AG1-209 C	0.1450	80/20	0.1450
963641	AG1-215 C	2.2354	80/20	2.2354
964111	AG1-272 C	4.9447	80/20	4.9447
964121	AG1-273 C	4.9447	80/20	4.9447
964131	AG1-274 C	4.9447	80/20	4.9447
964141	AG1-275 C	0.6212	80/20	0.6212
964151	AG1-276 C	0.6212	80/20	0.6212
964241	AG1-285 C O1	19.0492	80/20	19.0492
964261	AG1-287 C	1.7365	80/20	1.7365
964471	AG1-310 C	2.3287	80/20	2.3287
964501	AG1-313 C O1	1.4714	80/20	1.4714
964791	AG1-342 C	5.2388	80/20	5.2388
964821	AG1-345 C	1.9116	80/20	1.9116
964841	AG1-347 C	23.6846	80/20	23.6846
964931	AG1-357 C	36.0672	80/20	36.0672
965191	AG1-384 C	4.9447	80/20	4.9447
965281	AG1-393 C	4.7900	80/20	4.7900
965451	AG1-413 C O1	6.5394	80/20	6.5394
965591	AG1-427 C	18.1810	80/20	18.1810
965601	AG1-428 C O1	3.6179	80/20	3.6179
965641	AG1-432 C O1	60.3576	80/20	60.3576
965721	AG1-440 C	6.4480	80/20	6.4480
965731	AG1-441 C	6.4480	80/20	6.4480
965771	AG1-445	3.7255	80/20	3.7255
965781	AG1-446	3.7255	80/20	3.7255
965831	AG1-451	10.0596	80/20	10.0596
966621	AG1-532 C	0.5493	80/20	0.5493
966691	AG1-539 C	3.5075	80/20	3.5075
966751	AG1-546 C	10.8417	80/20	10.8417
966761	AG1-547 C	1.6846	80/20	1.6846
966811	AG1-552 C	0.8039	80/20	0.8039
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.0358	80/20	6.0358
WEC	WEC	0.2939	Confirmed LTF	0.2939
LGEE	LGEE	0.6051	Confirmed LTF	0.6051
CPL	CPL	3.6248	Confirmed LTF	3.6248
CBM-W2	CBM-W2	13.4490	Confirmed LTF	13.4490
NY	NY	0.4020	Confirmed LTF	0.4020
TVA	TVA	2.5732	Confirmed LTF	2.5732
SIGE	SIGE	0.1956	Confirmed LTF	0.1956
CBM-S2	CBM-S2	41.5512	Confirmed LTF	41.5512
CBM-S1	CBM-S1	0.6380	Confirmed LTF	0.6380
MEC	MEC	1.7940	Confirmed LTF	1.7940
LAGN	LAGN	3.1955	Confirmed LTF	3.1955
AA2-074	AA2-074	2.3936	LTF	2.3936
CBM-W1	CBM-W1	12.2254	Confirmed LTF	12.2254

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166983932	314684	3MT LREL	DVP	316115	AC1-105 TAP	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	110.48	111.49	DC	9.17

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

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

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

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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
169248988	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	2	DVP_P1-2: LN 235-A	single	182.64	315.54	318.38	DC	5.18

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

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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
169248999	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	1	DVP_P1-2: LN 298	single	198.06	216.78	218.83	DC	4.05

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
CPL	CPL	0.2361	Confirmed LTF	0.2361
CBM-W2	CBM-W2	0.9498	Confirmed LTF	0.9498
NY	NY	0.0321	Confirmed LTF	0.0321
TVA	TVA	0.1736	Confirmed LTF	0.1736
SIGE	SIGE	0.0158	Confirmed LTF	0.0158
CBM-S2	CBM-S2	2.5056	Confirmed LTF	2.5056
CBM-S1	CBM-S1	0.0441	Confirmed LTF	0.0441
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2135	Confirmed LTF	0.2135
CBM-W1	CBM-W1	0.9954	Confirmed LTF	0.9954

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169249009	314692	6FARMVIL	DVP	314677	6BUCKING	DVP	1	DVP_P1-2: LN 556-C	single	559.3	232.21	233.36	DC	6.45

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963301	AG1-179 C	4.3384	80/20	4.3384
963311	AG1-180	2.1138	80/20	2.1138
963321	AG1-181 C O1	31.0801	80/20	31.0801
963361	AG1-185 O1	15.0374	80/20	15.0374
963601	AG1-209 C	0.1453	80/20	0.1453
963641	AG1-215 C	2.2362	80/20	2.2362
964111	AG1-272 C	4.9469	80/20	4.9469
964121	AG1-273 C	4.9469	80/20	4.9469
964131	AG1-274 C	4.9469	80/20	4.9469
964141	AG1-275 C	0.6229	80/20	0.6229
964151	AG1-276 C	0.6229	80/20	0.6229
964241	AG1-285 C O1	19.0605	80/20	19.0605
964261	AG1-287 C	1.7378	80/20	1.7378
964471	AG1-310 C	2.3305	80/20	2.3305
964501	AG1-313 C O1	1.4752	80/20	1.4752
964791	AG1-342 C	5.2424	80/20	5.2424
964821	AG1-345 C	1.9122	80/20	1.9122
964841	AG1-347 C	23.6925	80/20	23.6925
964931	AG1-357 C	36.0840	80/20	36.0840
965191	AG1-384 C	4.9469	80/20	4.9469
965281	AG1-393 C	4.7918	80/20	4.7918
965451	AG1-413 C O1	6.5452	80/20	6.5452
965591	AG1-427 C	18.1909	80/20	18.1909
965601	AG1-428 C O1	3.6218	80/20	3.6218
965641	AG1-432 C O1	60.3744	80/20	60.3744
965721	AG1-440 C	6.4543	80/20	6.4543
965731	AG1-441 C	6.4543	80/20	6.4543
965771	AG1-445	3.7292	80/20	3.7292
965781	AG1-446	3.7292	80/20	3.7292
965831	AG1-451	10.0624	80/20	10.0624
966621	AG1-532 C	0.5504	80/20	0.5504
966691	AG1-539 C	3.5120	80/20	3.5120
966751	AG1-546 C	10.8553	80/20	10.8553
966761	AG1-547 C	1.6892	80/20	1.6892
966811	AG1-552 C	0.8056	80/20	0.8056
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.0374	80/20	6.0374
WEC	WEC	0.2983	Confirmed LTF	0.2983
LGEE	LGEE	0.6138	Confirmed LTF	0.6138
CPL	CPL	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
166983975	314693	3FRMAN D	DVP	314565	3CLUBHSE71	DVP	1	DVP_P7-1: LN 158-235	tower	400.0	103.28	103.84	DC	4.95

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.2510	Adder	-3.82
313527	AB2-043 C	0.4995	50/50	0.4995
313853	3PONTONDP	0.6694	50/50	0.6694
314429	3JTRSVLE	0.4224	50/50	0.4224
314704	3LAWRENC	1.1291	50/50	1.1291
314713	3PAMPLIN	0.6928	Adder	0.82
316118	AC1-105 C	2.0003	Adder	2.35
316131	AB2-060 C	1.4363	50/50	1.4363
923991	AB2-040 C O1	-3.5407	Adder	-4.17
924022	AB2-043 E O1	2.8308	50/50	2.8308
924162	AB2-060 E OP	4.2842	50/50	4.2842
924301	AB2-077 C O1 (Suspended)	1.9232	50/50	1.9232
924302	AB2-077 E O1 (Suspended)	1.2822	50/50	1.2822
924311	AB2-078 C O1 (Suspended)	1.9232	50/50	1.9232
924312	AB2-078 E O1 (Suspended)	1.2822	50/50	1.2822
924321	AB2-079 C O1 (Suspended)	1.9232	50/50	1.9232
924322	AB2-079 E O1 (Suspended)	1.2822	50/50	1.2822
925611	AC1-036 C	0.1747	50/50	0.1747
925612	AC1-036 E	0.6630	50/50	0.6630
926274	AC1-105 E	0.9827	Adder	1.16
935222	AD1-157 E	0.4271	Adder	0.5
936265	AD2-033 C	13.0533	50/50	13.0533
936266	AD2-033 E	8.7022	50/50	8.7022
936361	AD2-046 C O1	4.5485	Adder	5.35
936362	AD2-046 E O1	2.0917	Adder	2.46
936485	AD2-063 C	13.7313	50/50	13.7313
936486	AD2-063 E	9.1542	50/50	9.1542
938371	AE1-056 C	2.7621	Adder	3.25
938372	AE1-056 E	1.5092	Adder	1.78
939181	AE1-148 C	5.4232	50/50	5.4232
939182	AE1-148 E	3.6155	50/50	3.6155
940661	AE2-053 O1	2.0086	50/50	2.0086
942451	AE2-258	2.3618	50/50	2.3618
943911	AF1-059	46.9821	50/50	46.9821
946301	AF1-294 C	4.2674	50/50	4.2674
946302	AF1-294 E	2.8449	50/50	2.8449

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958211	AF2-115 C	2.5103	50/50	2.5103
958212	AF2-115 E	1.6735	50/50	1.6735
958801	AF2-171 C	7.3593	Adder	8.66
958802	AF2-171 E	4.9062	Adder	5.77
959311	AF2-222 C	12.3990	50/50	12.3990
959312	AF2-222 E	8.3073	50/50	8.3073
961791	AG1-021 C	2.0082	50/50	2.0082
961792	AG1-021 E	1.3388	50/50	1.3388
961891	AG1-030 C	15.0615	50/50	15.0615
961892	AG1-030 E	10.0410	50/50	10.0410
962041	AG1-048 C	12.5512	50/50	12.5512
962042	AG1-048 E	8.3675	50/50	8.3675
962441	AG1-093 C O1	2.8270	Adder	6.28
962442	AG1-093 E O1	0.8604	Adder	1.91
963171	AG1-166 C	2.0082	50/50	2.0082
963172	AG1-166 E	1.3388	50/50	1.3388
963181	AG1-167 C	2.0082	50/50	2.0082
963182	AG1-167 E	1.3388	50/50	1.3388
963191	AG1-168 C	2.0082	50/50	2.0082
963192	AG1-168 E	1.3388	50/50	1.3388
963201	AG1-169 C	2.0082	50/50	2.0082
963202	AG1-169 E	1.3388	50/50	1.3388
963211	AG1-170 C	2.0082	50/50	2.0082
963212	AG1-170 E	1.3388	50/50	1.3388
963301	AG1-179 C	19.9526	50/50	19.9526
963311	AG1-180	9.7214	50/50	9.7214
963321	AG1-181 C O1	13.5835	50/50	13.5835
963361	AG1-185 O1	6.5720	50/50	6.5720
963641	AG1-215 C	0.9372	50/50	0.9372
963642	AG1-215 E	1.4057	50/50	1.4057
964111	AG1-272 C	1.9850	50/50	1.9850
964112	AG1-272 E	0.5896	50/50	0.5896
964121	AG1-273 C	1.9850	50/50	1.9850
964122	AG1-273 E	0.5896	50/50	0.5896
964131	AG1-274 C	1.9850	50/50	1.9850
964132	AG1-274 E	0.5896	50/50	0.5896
964241	AG1-285 C O1	11.7675	50/50	11.7675
964242	AG1-285 E O1	7.8450	50/50	7.8450
964791	AG1-342 C	1.0702	Adder	2.38
964792	AG1-342 E	0.8409	Adder	1.87
964821	AG1-345 C	0.8033	50/50	0.8033
964822	AG1-345 E	0.5355	50/50	0.5355
965191	AG1-384 C	1.9850	50/50	1.9850
965192	AG1-384 E	0.5896	50/50	0.5896
965281	AG1-393 C	2.0082	50/50	2.0082
965282	AG1-393 E	1.3388	50/50	1.3388
965451	AG1-413 C O1	19.7495	50/50	19.7495
965452	AG1-413 E O1	13.1664	50/50	13.1664
965591	AG1-427 C	11.1044	50/50	11.1044
965592	AG1-427 E	7.4185	50/50	7.4185
965601	AG1-428 C O1	16.6568	50/50	16.6568
965602	AG1-428 E O1	11.0848	50/50	11.0848

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	1.3376	Adder	2.97
965722	AG1-440 E	0.8917	Adder	1.98
965731	AG1-441 C	1.3376	Adder	2.97
965732	AG1-441 E	0.8917	Adder	1.98
965771	AG1-445	0.7728	Adder	1.72
965781	AG1-446	0.7728	Adder	1.72
WEC	WEC	0.0391	Confirmed LTF	0.0391
LGEE	LGEE	0.0823	Confirmed LTF	0.0823
CPLE	CPLE	0.1829	Confirmed LTF	0.1829
CBM-W2	CBM-W2	1.3530	Confirmed LTF	1.3530
NY	NY	0.0365	Confirmed LTF	0.0365
TVA	TVA	0.2366	Confirmed LTF	0.2366
O-066	O-066	0.5519	Confirmed LTF	0.5519
SIGE	SIGE	0.0226	Confirmed LTF	0.0226
CBM-S2	CBM-S2	2.5369	Confirmed LTF	2.5369
CBM-S1	CBM-S1	0.0616	Confirmed LTF	0.0616
G-007	G-007	0.0871	Confirmed LTF	0.0871
MEC	MEC	0.2129	Confirmed LTF	0.2129
LAGN	LAGN	0.2887	Confirmed LTF	0.2887
CBM-W1	CBM-W1	1.6544	Confirmed LTF	1.6544

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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
169249058	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	single	226.73	165.96	168.69	DC	6.19

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
169249074	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.06	146.51	148.92	DC	6.17

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
168525793	314701	3LONEPN	DVP	313755	3FLAT CREEK	DVP	1	Base Case	single	203.98	127.23	128.82	DC	3.25

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
SIG	SIG	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

11.6.34 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
163838943	314702	3KERR	DVP	304102	3GW KING TAP	CPL	1	DVP_P4-6: CAROLIN T122	breaker	199.0	201.09	214.29	DC	26.7

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
166983971	314704	3LAWRENC	DVP	314693	3FRMAND	DVP	1	DVP_P7-1: LN 158-235	tower	400.0	104.15	104.71	DC	4.95

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.2510	Adder	-3.82
313527	AB2-043 C	0.4995	50/50	0.4995
313853	3PONTONDP	0.6694	50/50	0.6694
314429	3JTRSVLE	0.4224	50/50	0.4224
314704	3LAWRENC	1.1291	50/50	1.1291
314713	3PAMPLIN	0.6928	Adder	0.82
316118	AC1-105 C	2.0003	Adder	2.35
316131	AB2-060 C	1.4363	50/50	1.4363
923991	AB2-040 C O1	-3.5407	Adder	-4.17
924022	AB2-043 E O1	2.8308	50/50	2.8308
924162	AB2-060 E OP	4.2842	50/50	4.2842
924301	AB2-077 C O1 (Suspended)	1.9232	50/50	1.9232
924302	AB2-077 E O1 (Suspended)	1.2822	50/50	1.2822
924311	AB2-078 C O1 (Suspended)	1.9232	50/50	1.9232
924312	AB2-078 E O1 (Suspended)	1.2822	50/50	1.2822
924321	AB2-079 C O1 (Suspended)	1.9232	50/50	1.9232
924322	AB2-079 E O1 (Suspended)	1.2822	50/50	1.2822
925611	AC1-036 C	0.1747	50/50	0.1747
925612	AC1-036 E	0.6630	50/50	0.6630
926274	AC1-105 E	0.9827	Adder	1.16
935222	AD1-157 E	0.4271	Adder	0.5
936265	AD2-033 C	13.0533	50/50	13.0533
936266	AD2-033 E	8.7022	50/50	8.7022
936361	AD2-046 C O1	4.5485	Adder	5.35
936362	AD2-046 E O1	2.0917	Adder	2.46
936485	AD2-063 C	13.7313	50/50	13.7313
936486	AD2-063 E	9.1542	50/50	9.1542
938371	AE1-056 C	2.7621	Adder	3.25
938372	AE1-056 E	1.5092	Adder	1.78
939181	AE1-148 C	5.4232	50/50	5.4232
939182	AE1-148 E	3.6155	50/50	3.6155
940661	AE2-053 O1	2.0086	50/50	2.0086
942451	AE2-258	2.3618	50/50	2.3618
943911	AF1-059	46.9821	50/50	46.9821
946301	AF1-294 C	4.2674	50/50	4.2674
946302	AF1-294 E	2.8449	50/50	2.8449

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958211	AF2-115 C	2.5103	50/50	2.5103
958212	AF2-115 E	1.6735	50/50	1.6735
958801	AF2-171 C	7.3593	Adder	8.66
958802	AF2-171 E	4.9062	Adder	5.77
959311	AF2-222 C	12.3990	50/50	12.3990
959312	AF2-222 E	8.3073	50/50	8.3073
961791	AG1-021 C	2.0082	50/50	2.0082
961792	AG1-021 E	1.3388	50/50	1.3388
961891	AG1-030 C	15.0615	50/50	15.0615
961892	AG1-030 E	10.0410	50/50	10.0410
962041	AG1-048 C	12.5512	50/50	12.5512
962042	AG1-048 E	8.3675	50/50	8.3675
962441	AG1-093 C O1	2.8270	Adder	6.28
962442	AG1-093 E O1	0.8604	Adder	1.91
963171	AG1-166 C	2.0082	50/50	2.0082
963172	AG1-166 E	1.3388	50/50	1.3388
963181	AG1-167 C	2.0082	50/50	2.0082
963182	AG1-167 E	1.3388	50/50	1.3388
963191	AG1-168 C	2.0082	50/50	2.0082
963192	AG1-168 E	1.3388	50/50	1.3388
963201	AG1-169 C	2.0082	50/50	2.0082
963202	AG1-169 E	1.3388	50/50	1.3388
963211	AG1-170 C	2.0082	50/50	2.0082
963212	AG1-170 E	1.3388	50/50	1.3388
963301	AG1-179 C	19.9526	50/50	19.9526
963311	AG1-180	9.7214	50/50	9.7214
963321	AG1-181 C O1	13.5835	50/50	13.5835
963361	AG1-185 O1	6.5720	50/50	6.5720
963641	AG1-215 C	0.9372	50/50	0.9372
963642	AG1-215 E	1.4057	50/50	1.4057
964111	AG1-272 C	1.9850	50/50	1.9850
964112	AG1-272 E	0.5896	50/50	0.5896
964121	AG1-273 C	1.9850	50/50	1.9850
964122	AG1-273 E	0.5896	50/50	0.5896
964131	AG1-274 C	1.9850	50/50	1.9850
964132	AG1-274 E	0.5896	50/50	0.5896
964241	AG1-285 C O1	11.7675	50/50	11.7675
964242	AG1-285 E O1	7.8450	50/50	7.8450
964791	AG1-342 C	1.0702	Adder	2.38
964792	AG1-342 E	0.8409	Adder	1.87
964821	AG1-345 C	0.8033	50/50	0.8033
964822	AG1-345 E	0.5355	50/50	0.5355
965191	AG1-384 C	1.9850	50/50	1.9850
965192	AG1-384 E	0.5896	50/50	0.5896
965281	AG1-393 C	2.0082	50/50	2.0082
965282	AG1-393 E	1.3388	50/50	1.3388
965451	AG1-413 C O1	19.7495	50/50	19.7495
965452	AG1-413 E O1	13.1664	50/50	13.1664
965591	AG1-427 C	11.1044	50/50	11.1044
965592	AG1-427 E	7.4185	50/50	7.4185
965601	AG1-428 C O1	16.6568	50/50	16.6568
965602	AG1-428 E O1	11.0848	50/50	11.0848

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	1.3376	Adder	2.97
965722	AG1-440 E	0.8917	Adder	1.98
965731	AG1-441 C	1.3376	Adder	2.97
965732	AG1-441 E	0.8917	Adder	1.98
965771	AG1-445	0.7728	Adder	1.72
965781	AG1-446	0.7728	Adder	1.72
WEC	WEC	0.0391	Confirmed LTF	0.0391
LGEE	LGEE	0.0823	Confirmed LTF	0.0823
CPLE	CPLE	0.1829	Confirmed LTF	0.1829
CBM-W2	CBM-W2	1.3530	Confirmed LTF	1.3530
NY	NY	0.0365	Confirmed LTF	0.0365
TVA	TVA	0.2366	Confirmed LTF	0.2366
O-066	O-066	0.5519	Confirmed LTF	0.5519
SIGE	SIGE	0.0226	Confirmed LTF	0.0226
CBM-S2	CBM-S2	2.5369	Confirmed LTF	2.5369
CBM-S1	CBM-S1	0.0616	Confirmed LTF	0.0616
G-007	G-007	0.0871	Confirmed LTF	0.0871
MEC	MEC	0.2129	Confirmed LTF	0.2129
LAGN	LAGN	0.2887	Confirmed LTF	0.2887
CBM-W1	CBM-W1	1.6544	Confirmed LTF	1.6544

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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
169249027	314707	3MORAN	DVP	314691	3FARMVIL	DVP	1	Base Case	single	203.98	123.79	125.39	DC	3.25

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
169248996	314726	3WILLIS	DVP	314691	3FARMVIL	DVP	1	Base Case	single	186.12	211.27	212.61	DC	2.49

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3073	80/20	0.3073
315158	1KERR 1	0.1459	80/20	0.1459
315159	1KERR 2	0.4086	80/20	0.4086
315160	1KERR 3	0.4086	80/20	0.4086
315161	1KERR 4	0.4086	80/20	0.4086
315162	1KERR 5	0.4086	80/20	0.4086
315163	1KERR 6	0.4086	80/20	0.4086
315164	1KERR 7	0.4086	80/20	0.4086
316131	AB2-060 C	0.8460	80/20	0.8460
924301	AB2-077 C O1 (Suspended)	1.1882	80/20	1.1882
924311	AB2-078 C O1 (Suspended)	1.1882	80/20	1.1882
924321	AB2-079 C O1 (Suspended)	1.1882	80/20	1.1882
925611	AC1-036 C	0.4720	80/20	0.4720
935221	AD1-157 C	0.8970	80/20	0.8970
936265	AD2-033 C	4.1426	80/20	4.1426
936361	AD2-046 C O1	3.7549	80/20	3.7549
936485	AD2-063 C	17.7615	80/20	17.7615
938371	AE1-056 C	24.5107	80/20	24.5107
939181	AE1-148 C	3.7735	80/20	3.7735
940661	AE2-053 O1	1.3976	80/20	1.3976
942451	AE2-258	1.4531	80/20	1.4531
942461	AE2-259 C O1	50.0496	80/20	50.0496
943911	AF1-059	6.8468	80/20	6.8468
958801	AF2-171 C	49.7817	80/20	49.7817
959311	AF2-222 C	37.7730	80/20	37.7730
963301	AG1-179 C	1.8776	80/20	1.8776
963311	AG1-180	0.9148	80/20	0.9148
963321	AG1-181 C O1	31.5593	80/20	31.5593
963361	AG1-185 O1	15.2692	80/20	15.2692
964111	AG1-272 C	5.3637	80/20	5.3637
964121	AG1-273 C	5.3637	80/20	5.3637
964131	AG1-274 C	5.3637	80/20	5.3637
964241	AG1-285 C O1	12.7485	80/20	12.7485
964791	AG1-342 C	1.4298	80/20	1.4298
965191	AG1-384 C	5.3637	80/20	5.3637
965451	AG1-413 C O1	2.8781	80/20	2.8781
965591	AG1-427 C	12.4098	80/20	12.4098
965601	AG1-428 C O1	1.5674	80/20	1.5674
965641	AG1-432 C O1	100.0992	80/20	100.0992

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	2.4885	80/20	2.4885
965731	AG1-441 C	2.4885	80/20	2.4885
965771	AG1-445	1.4378	80/20	1.4378
965781	AG1-446	1.4378	80/20	1.4378
965831	AG1-451	16.6832	80/20	16.6832
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	10.0099	80/20	10.0099
WEC	WEC	0.0283	Confirmed LTF	0.0283
LGEE	LGEE	0.0578	Confirmed LTF	0.0578
CPL	CPL	0.4020	Confirmed LTF	0.4020
CBM-W2	CBM-W2	1.3619	Confirmed LTF	1.3619
NY	NY	0.0426	Confirmed LTF	0.0426
TVA	TVA	0.2632	Confirmed LTF	0.2632
SIGE	SIGE	0.0196	Confirmed LTF	0.0196
CBM-S2	CBM-S2	4.4579	Confirmed LTF	4.4579
CBM-S1	CBM-S1	0.0650	Confirmed LTF	0.0650
MEC	MEC	0.1764	Confirmed LTF	0.1764
LAGN	LAGN	0.3290	Confirmed LTF	0.3290
CBM-W1	CBM-W1	1.1777	Confirmed LTF	1.1777

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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
166983854	316115	AC1-105 TAP	DVP	314696	3SEEDGE HILL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	139.63	140.65	DC	9.17

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
169753721	938770	AE1-103 TAP	DVP	314527	3HOLLAND	DVP	1	DVP_P1-2: LN 136	single	224.66	119.69	120.7	DC	2.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.7476	80/20	2.7476
314572	3EMPORIA	0.1276	80/20	0.1276
314589	3MURPHYS	0.2267	80/20	0.2267
315115	1S HAMPT1	5.0559	80/20	5.0559
315126	1ROARAP2	0.7800	80/20	0.7800
315128	1ROARAP4	0.7443	80/20	0.7443
315606	3AA2-053SOLA	0.7396	80/20	0.7396
315607	3AA1-063SOLA	1.8868	80/20	1.8868
315608	3AA2-088SOLA	2.8057	80/20	2.8057
316087	AB2-174 C	0.4095	80/20	0.4095
316103	AB2-015 C	32.0905	80/20	32.0905
316129	AC1-054 C	2.9570	80/20	2.9570
923991	AB2-040 C O1	2.9924	80/20	2.9924
927145	AC1-208 C	3.1135	80/20	3.1135
938771	AE1-103 C	15.2487	80/20	15.2487
957521	AF2-046 C	44.3940	80/20	44.3940
961091	AF2-400 C	1.7329	80/20	1.7329
961681	AG1-008 C	44.4830	80/20	44.4830
961931	AG1-036 C	3.6031	80/20	3.6031
964501	AG1-313 C O1	1.9613	80/20	1.9613
964801	AG1-343 C	15.5691	80/20	15.5691
965291	AG1-394 C	5.3380	80/20	5.3380
965721	AG1-440 C	2.2671	80/20	2.2671
965731	AG1-441 C	2.2671	80/20	2.2671
965771	AG1-445	1.3099	80/20	1.3099
965781	AG1-446	1.3099	80/20	1.3099
966751	AG1-546 C	6.8149	80/20	6.8149
966811	AG1-552 C	1.2385	80/20	1.2385
WEC	WEC	0.0397	Confirmed LTF	0.0397
LGEE	LGEE	0.0823	Confirmed LTF	0.0823
CPL	CPL	0.4941	Confirmed LTF	0.4941
CBM-W2	CBM-W2	1.7920	Confirmed LTF	1.7920
NY	NY	0.0702	Confirmed LTF	0.0702
TVA	TVA	0.3416	Confirmed LTF	0.3416
SIGE	SIGE	0.0298	Confirmed LTF	0.0298
CBM-S2	CBM-S2	5.4497	Confirmed LTF	5.4497
CBM-S1	CBM-S1	0.0851	Confirmed LTF	0.0851
MEC	MEC	0.2415	Confirmed LTF	0.2415
LAGN	LAGN	0.4253	Confirmed LTF	0.4253
CBM-W1	CBM-W1	1.6403	Confirmed LTF	1.6403

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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
163348180	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	165.75	166.43	DC	12.47

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	14.5739	50/50	14.5739
313719	3CHESTNUT	1.3547	50/50	1.3547
314541	3WATKINS	0.3968	Adder	0.47
314572	3EMPORIA	1.0296	50/50	1.0296
314582	3KELFORD	0.3886	50/50	0.3886
314594	6PLYMOTH	0.0480	Adder	0.06
314623	3WITAKRS	0.2420	50/50	0.2420
314704	3LAWRENC	0.5984	50/50	0.5984
315126	1ROARAP2	2.1390	50/50	2.1390
315128	1ROARAP4	2.0412	50/50	2.0412
315131	1EDGE CMA (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315132	1EDGE CMB (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315136	1ROSEMG1	4.0488	50/50	4.0488
315137	1ROSEMS1	2.5107	50/50	2.5107
315138	1ROSEMG2	1.8975	50/50	1.8975
315139	1GASTONA	6.0660	50/50	6.0660
315141	1GASTONB	6.0660	50/50	6.0660
315293	1DOMTR9	4.0274	Adder	4.74
315294	1DOMTR10	4.9355	Adder	5.81
315601	1CONETOE2SOL	1.5563	50/50	1.5563
315606	3AA2-053SOLA	2.1783	50/50	2.1783
315607	3AA1-063SOLA	1.8411	50/50	1.8411
316020	AB2-059 C OP	1.8615	50/50	1.8615
316087	AB2-174 C	2.5142	50/50	2.5142
316088	AB2-174 E	14.4183	50/50	14.4183
316096	AB2-100 C1	2.8368	50/50	2.8368
316097	AB2-100 E1	8.8562	50/50	8.8562
316098	AB2-100 C2	2.8368	50/50	2.8368
316099	AB2-100 E2	8.8562	50/50	8.8562
316103	AB2-015 C	4.5989	Adder	5.41
316104	AB2-015 E	3.7711	Adder	4.44
316129	AC1-054 C	8.9401	50/50	8.9401
316140	AB2-099 C (Suspended)	0.5074	Adder	0.6
316141	AB2-099 E (Suspended)	0.2175	Adder	0.26
900672	V4-068 E	0.2536	Adder	0.3
917332	Z2-043 E	1.1590	50/50	1.1590
917342	Z2-044 E	0.6574	50/50	0.6574
917512	Z2-088 E OP1	9.2316	50/50	9.2316
918492	AA1-063AE OP	5.5022	50/50	5.5022

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
918512	AA1-065 E OP	3.1563	Adder	3.71
918532	AA1-067 E	0.5438	Adder	0.64
919692	AA2-053 E OP	5.6689	50/50	5.6689
919702	AA2-057 E OP	4.0531	50/50	4.0531
920042	AA2-088 E OP	8.4552	Adder	9.95
920591	AA2-165 C	0.1819	50/50	0.1819
920592	AA2-165 E	0.5571	50/50	0.5571
922922	AB1-081 C OP	1.5794	50/50	1.5794
922923	AB1-081 E OP	4.2905	50/50	4.2905
923262	AB1-132 C OP (Suspended)	29.3605	50/50	29.3605
923263	AB1-132 E OP (Suspended)	12.5831	50/50	12.5831
923573	AB1-173 E OP	2.2727	50/50	2.2727
923991	AB2-040 C O1	15.8726	50/50	15.8726
923992	AB2-040 E O1	12.9866	50/50	12.9866
924022	AB2-043 E O1	1.9315	Adder	2.27
924152	AB2-059 E OP	6.0782	50/50	6.0782
924162	AB2-060 E OP	2.8784	Adder	3.39
924301	AB2-077 C O1 (Suspended)	1.3530	Adder	1.59
924302	AB2-077 E O1 (Suspended)	0.9020	Adder	1.06
924311	AB2-078 C O1 (Suspended)	1.3530	Adder	1.59
924312	AB2-078 E O1 (Suspended)	0.9020	Adder	1.06
924321	AB2-079 C O1 (Suspended)	1.3530	Adder	1.59
924322	AB2-079 E O1 (Suspended)	0.9020	Adder	1.06
925122	AB2-169 E	3.7190	Adder	4.38
925591	AC1-034 C	7.6424	50/50	7.6424
925592	AC1-034 E	5.7653	50/50	5.7653
925612	AC1-036 E	0.4578	Adder	0.54
925785	AC1-054 E	4.1185	50/50	4.1185
926070	AC1-086 C	43.2369	50/50	43.2369
926071	AC1-086 E	19.6785	50/50	19.6785
926201	AC1-098 C	7.4602	50/50	7.4602
926202	AC1-098 E	4.4444	50/50	4.4444
926211	AC1-099 C	2.5000	50/50	2.5000
926212	AC1-099 E	1.4682	50/50	1.4682
927024	AC1-189 C	7.7989	Adder	9.18
927025	AC1-189 E	3.8849	Adder	4.57
927145	AC1-208 C	11.7742	50/50	11.7742
927146	AC1-208 E	5.2070	50/50	5.2070
932631	AC2-084 C	10.6348	50/50	10.6348
932632	AC2-084 E	5.2380	50/50	5.2380
933991	AD1-023 C	7.9657	Adder	9.37
933992	AD1-023 E	4.3365	Adder	5.1
934331	AD1-057 C O1	17.3418	50/50	17.3418
934332	AD1-057 E O1	9.2508	50/50	9.2508
934521	AD1-076 C	29.5902	Adder	34.81

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934522	AD1-076 E	15.0673	Adder	17.73
936265	AD2-033 C	7.3116	Adder	8.6
936266	AD2-033 E	4.8744	Adder	5.73
936361	AD2-046 C O1	6.7224	Adder	7.91
936362	AD2-046 E O1	3.0913	Adder	3.64
936401	AD2-051 C O1	7.1246	Adder	8.38
936402	AD2-051 E O1	3.0592	Adder	3.6
936485	AD2-063 C	9.4057	Adder	11.07
936486	AD2-063 E	6.2705	Adder	7.38
938222	AE1-035 E	0.8680	Adder	1.02
939181	AE1-148 C	6.6055	Adder	7.77
939182	AE1-148 E	4.4036	Adder	5.18
940481	AE2-033 C	64.3737	50/50	64.3737
940482	AE2-033 E	43.3980	50/50	43.3980
940542	AE2-040 BAT	3.9010	50/50	3.9010
940571	AE2-044 C	5.0056	50/50	5.0056
940572	AE2-044 E	1.8235	Adder	2.15
940661	AE2-053 O1	2.4465	Adder	2.88
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5093	Adder	0.6
942451	AE2-258	1.6115	Adder	1.9
942471	AE2-260 C O1	46.3236	50/50	46.3236
942472	AE2-260 E O1	65.7044	50/50	65.7044
943171	AE2-346 C	1.2178	Adder	1.43
943172	AE2-346 E	0.5219	Adder	0.61
943911	AF1-059	26.5588	50/50	26.5588
944141	AF1-082	2.7352	Adder	3.22
946011	AF1-266	53.8858	50/50	53.8858
946281	AF1-292 C	3.8472	50/50	3.8472
946282	AF1-292 E	2.5936	50/50	2.5936
957521	AF2-046 C	14.3320	Adder	16.86
957522	AF2-046 E	7.2091	Adder	8.48
957861	AF2-080 C	7.0833	Adder	8.33
957862	AF2-080 E	3.1400	Adder	3.69
959511	AF2-242 C	5.0088	Adder	5.89
959512	AF2-242 E	3.8958	Adder	4.58
960081	AF2-299 C	6.4841	50/50	6.4841
960082	AF2-299 E	4.3227	50/50	4.3227
961091	AF2-400 C	0.2483	Adder	0.29
961092	AF2-400 E	0.4075	Adder	0.48
961671	AG1-007 C	1.5192	50/50	1.5192
961672	AG1-007 E	0.8484	50/50	0.8484
961681	AG1-008 C	7.6112	Adder	16.9
961682	AG1-008 E	3.8056	Adder	8.45
961931	AG1-036 C	0.6196	Adder	1.38
961932	AG1-036 E	0.4131	Adder	0.92
961941	AG1-037 C	0.2305	Adder	0.51
961942	AG1-037 E	0.1537	Adder	0.34
962331	AG1-082 C	0.9220	Adder	2.05
962332	AG1-082 E	0.6147	Adder	1.36
962341	AG1-083 C	0.9220	Adder	2.05
962342	AG1-083 E	0.6147	Adder	1.36

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962351	AG1-084 C	0.8099	Adder	1.8
962352	AG1-084 E	0.5399	Adder	1.2
962361	AG1-085 C	0.8099	Adder	1.8
962362	AG1-085 E	0.5399	Adder	1.2
962571	AG1-106 C	12.0238	50/50	12.0238
962572	AG1-106 E	5.4527	50/50	5.4527
963301	AG1-179 C	10.7581	50/50	10.7581
963311	AG1-180	5.2416	50/50	5.2416
963321	AG1-181 C O1	4.9612	Adder	11.01
963361	AG1-185 O1	2.4004	Adder	5.33
964111	AG1-272 C	0.7266	Adder	1.61
964112	AG1-272 E	0.2158	Adder	0.48
964121	AG1-273 C	0.7266	Adder	1.61
964122	AG1-273 E	0.2158	Adder	0.48
964131	AG1-274 C	0.7266	Adder	1.61
964132	AG1-274 E	0.2158	Adder	0.48
964241	AG1-285 C O1	4.2670	Adder	9.47
964242	AG1-285 E O1	2.8447	Adder	6.31
964491	AG1-312 C O1	7.5745	Adder	16.81
964492	AG1-312 E O1	1.8936	Adder	4.2
964501	AG1-313 C O1	6.4026	50/50	6.4026
964502	AG1-313 E O1	4.2684	50/50	4.2684
964801	AG1-343 C	2.6428	Adder	5.87
964802	AG1-343 E	2.0765	Adder	4.61
965191	AG1-384 C	0.7266	Adder	1.61
965192	AG1-384 E	0.2158	Adder	0.48
965291	AG1-394 C	0.9050	Adder	2.01
965292	AG1-394 E	0.6033	Adder	1.34
965451	AG1-413 C O1	11.1643	50/50	11.1643
965452	AG1-413 E O1	7.4429	50/50	7.4429
965591	AG1-427 C	4.0275	Adder	8.94
965592	AG1-427 E	2.6907	Adder	5.97
965601	AG1-428 C O1	8.9810	50/50	8.9810
965602	AG1-428 E O1	5.9767	50/50	5.9767
965691	AG1-437 C O1	3.5190	Adder	7.81
965692	AG1-437 E O1	2.3460	Adder	5.21
965701	AG1-438 C O1	3.5190	Adder	7.81
965702	AG1-438 E O1	2.3460	Adder	5.21
965711	AG1-439 C O1	27.9180	50/50	27.9180
965712	AG1-439 E O1	18.6120	50/50	18.6120
965721	AG1-440 C	3.3703	Adder	7.48
965722	AG1-440 E	2.2469	Adder	4.99
965731	AG1-441 C	3.3703	Adder	7.48
965732	AG1-441 E	2.2469	Adder	4.99
965741	AG1-442 O1	2.0528	Adder	4.56
965751	AG1-443 O1	2.0528	Adder	4.56
965761	AG1-444 O1	14.8896	50/50	14.8896
965771	AG1-445	1.9473	Adder	4.32
965781	AG1-446	1.9473	Adder	4.32
966621	AG1-532 C	3.5014	50/50	3.5014
966622	AG1-532 E	2.3343	50/50	2.3343
966751	AG1-546 C	20.3177	50/50	20.3177

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966752	AG1-546 E	10.9018	50/50	10.9018
966801	AG1-551 C	0.8593	Adder	1.91
966802	AG1-551 E	0.3683	Adder	0.82
966811	AG1-552 C	3.3962	50/50	3.3962
966812	AG1-552 E	1.4555	50/50	1.4555
WEC	WEC	0.2003	Confirmed LTF	0.2003
LGEE	LGEE	0.4128	Confirmed LTF	0.4128
CPLE	CPLE	2.4679	Confirmed LTF	2.4679
CBM-W2	CBM-W2	8.9152	Confirmed LTF	8.9152
NY	NY	0.3069	Confirmed LTF	0.3069
TVA	TVA	1.6884	Confirmed LTF	1.6884
O-066	O-066	4.3005	Confirmed LTF	4.3005
SIGE	SIGE	0.1410	Confirmed LTF	0.1410
CBM-S2	CBM-S2	26.7473	Confirmed LTF	26.7473
CBM-S1	CBM-S1	0.4203	Confirmed LTF	0.4203
G-007	G-007	0.6762	Confirmed LTF	0.6762
MEC	MEC	1.2076	Confirmed LTF	1.2076
LAGN	LAGN	2.1000	Confirmed LTF	2.1000
AA2-074	AA2-074	1.6299	LTF	1.6299
CBM-W1	CBM-W1	8.3699	Confirmed LTF	8.3699

11.7 Queue Dependencies

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

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA1-063A	Carolina–Seaboard 115kV	In Service
AA1-065	Earleys 230kV	In Service
AA1-067	Everetts 34.5kV	In Service
AA2-053	Carolina-Jackson 115kV	In Service
AA2-057	Hornertown-Whitakers 115kV	In Service
AA2-074	CPLP-PJM	Confirmed
AA2-088	Boykins-Handsome 115kV	In Service
AA2-165	Hornertown-Whitakers 115kV	In Service
AA2-178	Mackeys 230kV	Partially in Service - Under Construction
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
AB1-132	Thelma 230kV	Suspended
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-015	Franklin 115kV	Engineering and Procurement
AB2-025	Sapony 34.5kV	In Service
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-059	Benson-Dunbar 115kV	Partially in Service - Under Construction
AB2-060	Chase City-Lunenburg 115kV	In Service
AB2-077	Buggs Island-Chase City 115kV	Suspended
AB2-078	Buggs Island-Chase City 115kV	Suspended
AB2-079	Buggs Island-Chase City 115kV	Suspended
AB2-099	Ahoskie 34.5kV	Suspended
AB2-100	Clubhouse-Lakeview 230kV	Under Construction
AB2-169	Pantago-Five Points 115kV	Partially in Service - Under Construction
AB2-174	Emporia-Trego 115kV	In Service
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-042	Altavista-Mt. Airy 69kV	Engineering and Procurement
AC1-054	Kerr Dam–Eatons Ferry 115 kV	Engineering and Procurement
AC1-075	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-080	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-083	Smith Mountain-Bearskin 138kV	Active
AC1-086	Thelma 230kV	Active
AC1-098	Dawson-South Justice 115kV	Engineering and Procurement
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-145	Gretna DP 69 kV	Engineering and Procurement
AC1-189	Chinquapin-Everetts 230kV	Active

Queue Number	Project Name	Status
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	Engineering and Procurement
AC2-084	Dawson-South Justice 115kV	Active
AC2-100	Halifax-Person 230kV	Engineering and Procurement
AD1-017	Smith Mountain-Bearskin 138 kV	Active
AD1-023	Cashie-Trowbridge 230 kV	Active
AD1-055	Crystal Hill-Halifax 115 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-058	Halifax-Person 230 kV	Engineering and Procurement
AD1-076	Trowbridge 230 kV	Active
AD1-087	Clover-Sedge Hill 230 kV	Active
AD1-088	Briery-Clover 230 kV	Active
AD1-131	Sedge Hill-Person 230 kV	Engineering and Procurement
AD1-152	Clover-Sedge Hill 230 kV	Active
AD1-157	South Creek 34.5 kV	Engineering and Procurement
AD2-022	East Danville-Roxborough 230 kV	Active
AD2-023	E. Danville-Roxborough 230 kV	Active
AD2-033	Chase City-Lunenburg 115 kV	Active
AD2-046	Boydton DP-Kerr Dam 115 kV	Active
AD2-051	Earleys – Northampton 230kV	Active
AD2-063	Central-Chase City 115kV	Active
AD2-202	Clover-Sedge Hill 230kV	Active
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-056	Red House-South Creek 115 kV	Active
AE1-103	Holland-Union Camp 115 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
AE2-034	Mackeys 230 kV	Active
AE2-040	Sappony 34.5 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-053	Kerr Dam-Ridge Road 115 kV	Active
AE2-147	Swamp 230 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
AF1-152	Swamp 230 kV	Active
AF1-173	Gretna DP-Shockoe DP 69 kV	Active

Queue Number	Project Name	Status
AF1-236	Mackeys 230 kV	Active
AF1-246	Clover-Rawlings 500 kV	Active
AF1-266	Clubhouse-Sapony 230 kV	Active
AF1-292	Fields 34.5kV	Active
AF1-294	Jetersville-Ponton 115 kV	Active
AF2-042	Clover-Rawlings 500 kV	Active
AF2-046	Tunis-Mapleton 115 kV	Active
AF2-047	Creswell-Riders Creek 115 kV	Active
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-115	Jetersville-Ponton 115 kV	Active
AF2-171	Madisonville 115 kV	Active
AF2-222	Madisonville DP-Twitty's Creek 115 kV	Active
AF2-242	Wharton 115 kV	Active
AF2-266	Clover 230 kV	Active
AF2-297	Sedge Hill 115 kV	Active
AF2-299	Fields 34.5 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
AG1-027	Suffolk-Holland 115 kV	Active
AG1-030	Victoria DP-Martin DP 115 kV	Active
AG1-036	Tunis 34.5 kV	Active
AG1-037	Ahoskie 34.5 kV	Active
AG1-048	Jetersville-Ponton 115 kV	Active
AG1-082	Ahoskie 34.5 kV	Active
AG1-083	Ahoskie 34.5 kV	Active
AG1-084	Earlys 34.5 kV	Active
AG1-085	Earlys 34.5	Active
AG1-093	Halifax-Chase City 115 kV	Active
AG1-098	Briery-Clover 230 kV	Active
AG1-105	Clover-Sedge Hill 230 kV	Active
AG1-106	Thelma 230 kV	Active
AG1-166	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
AG1-285	Chase City-Central 115 kV	Active

Queue Number	Project Name	Status
AG1-286	Johnson Mountain 138 kV	Active
AG1-287	South Boston 12.5 kV	Active
AG1-310	Crystal Hill-Perth 115 kV	Active
AG1-312	Earleys-Cashie 230 kV	Active
AG1-313	Jackson DP-Occoneechee 115 kV	Active
AG1-342	Dryburg 115 kV	Active
AG1-343	Boykins-Murphy 115 kV	Active
AG1-345	Crewe 12.5 kV	Active
AG1-347	Briery DP-Clover 230 kV	Active
AG1-357	Clover-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
AG1-427	Chase City-Drakes Branch 115 kV	Active
AG1-428	Danielstown 69 kV	Active
AG1-431	Mackeys 230 kV	Active
AG1-431A	Mackeys 230 kV	Active
AG1-432	Curdsville DP-Willis Mt. 115 kV	Active
AG1-437	Cashie-Earleys 230 kV	Active
AG1-438	Cashie-Earleys 230 kV	Active
AG1-439	Chinquapin 230 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 kV	Active
AG1-442	Cashie-Earleys 230 kV	Active
AG1-443	Cashie-Earleys 230 kV	Active
AG1-444	Chinquapin 230 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-451	Curdsville DP-Willis Mt. 115 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
AG1-551	Parmelee 12.5 kV	Active
AG1-552	Carolina 13.2 kV	Active
AG1-557	Curdsville DP 115 kV	Withdrawn
V4-068	Murphy's 34.5kV	In Service
W1-029	Winfall 230kV	In Service
Z1-036	WinFall-Chowan 230kV	Suspended
Z2-043	Kelford 34.5kV	In Service
Z2-044	Whitakers 34.5kV	In Service
Z2-088	Tarboro-Everetts 230kV	In Service

11.8 Contingency Descriptions

Contingency Name	Contingency Definition
DVP_P1-2: LN 108-C	CONTINGENCY 'DVP_P1-2: LN 108-C' OPEN BRANCH FROM BUS 957520 TO BUS 314617 CKT 1 /* AF2-046 TAP 115.00 - 3TUNIS 115.00 OPEN BRANCH FROM BUS 314617 TO BUS 314866 CKT 1 /* 3TUNIS 115.00 - 3TUNIS_1 115.00 OPEN BUS 314866 /* ISLAND: 3TUNIS_1 115.00 END
DVP_P4-2: 102802	CONTINGENCY 'DVP_P4-2: 102802' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 END
DVP_P1-2: LN 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 - 3SKIPERS 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_P4-6: CAROLIN T122	CONTINGENCY 'DVP_P4-6: CAROLIN T122' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 315126 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP2 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 315128 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP4 14.400 OPEN BUS 315126 /* ISLAND: 1ROARAP2 14.400 OPEN BUS 315128 /* ISLAND: 1ROARAP4 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314578 CKT 1 /* 3CAROLNA 115.00 - 3HORNRTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 OPEN BUS 314559 /* 3CAROLNA 115.00 KV OPEN BUS 314835 /* ISLAND: 3CAROL_1 115.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 136	CONTINGENCY 'DVP_P1-2: LN 136' OPEN BRANCH FROM BUS 314551 TO BUS 314568 CKT 1 /* 3AHOSKIE 115.00 - 3EARLEYS 115.00 OPEN BRANCH FROM BUS 314551 TO BUS 314617 CKT 1 /* 3AHOSKIE 115.00 - 3TUNIS 115.00 OPEN BUS 314551 /* ISLAND: 3AHOSKIE 115.00 OPEN BUS 316140 /* ISLAND: AB2-099 C 115.00 OPEN BUS 316141 /* ISLAND: AB2-099 E 115.00 END
DVP_P1-2: LN 40-A	CONTINGENCY 'DVP_P1-2: LN 40-A' OPEN BRANCH FROM BUS 314675 TO BUS 943910 CKT 1 /* 3BRODNAX 115.00 - AF1-059 TAP 115.00 END
DVP_P7-1: LN 2058-2181	CONTINGENCY 'DVP_P7-1: LN 2058-2181' /* . OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
314333 6POWHATN 230 933500 AC2-165 TAP 230 1	CONTINGENCY '314333 6POWHATN 230 933500 AC2-165 TAP 230 1' OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 81-2056-A	CONTINGENCY 'DVP_P7-1: LN 81-2056-A' /* . OPEN BRANCH FROM BUS 313858 TO BUS 927140 CKT 1 /* 3SO JUSTICE 115.00 - AC1-208 TAP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314578 CKT 1 /* 3CAROLNA 115.00 - 3HORNRTN 115.00 OPEN BRANCH FROM BUS 314578 TO BUS 314598 CKT 1 /* 3HORNRTN 115.00 - 3ROAN DP 115.00 OPEN BRANCH FROM BUS 314598 TO BUS 314628 CKT 1 /* 3ROAN DP 115.00 - 3DARLINGT DP115.00 OPEN BRANCH FROM BUS 314628 TO BUS 927140 CKT 1 /* 3DARLINGT DP115.00 - AC1-208 TAP 115.00 OPEN BUS 314578 /* ISLAND: 3HORNRTN 115.00 OPEN BUS 314598 /* ISLAND: 3ROAN DP 115.00 OPEN BUS 314628 /* ISLAND: 3DARLINGT DP115.00 OPEN BUS 927140 /* ISLAND: AC1-208 TAP 115.00 OPEN BUS 927141 /* ISLAND: AC1-208 MAIN115.00 OPEN BUS 927142 /* ISLAND: AC1-208 XFLV34.500 OPEN BUS 927143 /* ISLAND: AC1-208 XFTR0.3850 OPEN BUS 927144 /* ISLAND: AC1-208 COL 34.500 OPEN BUS 927145 /* ISLAND: AC1-208 C 0.3850 OPEN BUS 927146 /* ISLAND: AC1-208 E 0.3850 OPEN BRANCH FROM BUS 934330 TO BUS 314579 CKT 1 /* AD1-057 TAP 230.00 - 6HORNRTN 230.00 END
DVP_P1-2: LN 246-B	CONTINGENCY 'DVP_P1-2: LN 246-B' OPEN BRANCH FROM BUS 957820 TO BUS 314575 CKT 1 /* AF2-076 230.00 - 6NUCO TP 230.00 OPEN BRANCH FROM BUS 314569 TO BUS 314575 CKT 1 /* 6EARLEYS 230.00 - 6NUCO TP 230.00 OPEN BRANCH FROM BUS 314575 TO BUS 314590 CKT 1 /* 6NUCO TP 230.00 - 6NUCOR 230.00 OPEN BUS 314575 /* ISLAND: 6NUCO TP 230.00 OPEN BUS 314590 /* ISLAND: 6NUCOR 230.00 END
DVP_P1-2: LN 33	CONTINGENCY 'DVP_P1-2: LN 33' OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 /* 3CHASCTY2 115.00 - 3BARNs J 115.00 OPEN BRANCH FROM BUS 314669 TO BUS 314684 CKT 1 /* 3BARNs 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 /* 3SEdge HILL 115.00 - AC1-105 TAP 115.00 OPEN BUS 314669 /* ISLAND: 3BARNs J 115.00 OPEN BUS 314684 /* ISLAND: 3MT LREL 115.00 OPEN BUS 316115 /* ISLAND: AC1-105 TAP 115.00 OPEN BUS 316116 /* ISLAND: AC1-105 MAIN115.00 OPEN BUS 316117 /* ISLAND: AC1-105 COL 34.500 OPEN BUS 316118 /* ISLAND: AC1-105 C 0.5750 OPEN BUS 926274 /* ISLAND: AC1-105 E 0.5750 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 /* 6DRY BREAD 230.00 - 6CLUBHSE 230.00 END
DVP_P1-2: LN 45	CONTINGENCY 'DVP_P1-2: LN 45' OPEN BUS 304099 /* ISLAND: 3WARREN TAP 115.00 OPEN BUS 304100 /* ISLAND: 3HEND
314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1	CONTINGENCY '314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1' OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 END
DVP_P1-3: 6SEEDGE HILL-TX#2	CONTINGENCY 'DVP_P1-3: 6SEEDGE HILL-TX#2' OPEN BRANCH FROM BUS 314696 TO BUS 314697 CKT 2 /* 3SEEDGE HILL 115.00 - 6SEEDGE HILL 230.00 END
DVP_P1-2: LN 31-A	CONTINGENCY 'DVP_P1-2: LN 31-A' OPEN BRANCH FROM BUS 314666 TO BUS 314712 CKT 1 /* 3ALTVSTA 115.00 - 3OTTER R 115.00 OPEN BRANCH FROM BUS 314694 TO BUS 314712 CKT 1 /* 3GRIT 115.00 - 3OTTER R 115.00 OPEN BRANCH FROM BUS 314694 TO BUS 942750 CKT 1 /* 3GRIT 115.00 - AE2-291 TAP 115.00 OPEN BUS 314694 /* ISLAND: 3GRIT 115.00 OPEN BUS 314712 /* ISLAND: 3OTTER R 115.00 END
DVP_P1-2: LN 238-A	CONTINGENCY 'DVP_P1-2: LN 238-A' OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2- 033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 END
DVP_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 54-2012-B	CONTINGENCY 'DVP_P7-1: LN 54-2012-B' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* AD2-051 TAP - 6EARLEYS 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 END
DVP_P7-1: LN 54-2012-A	CONTINGENCY 'DVP_P7-1: LN 54-2012-A' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 OPEN BUS 314266 /* ISLAND: 6NORTHAMPTON230.00 END
DVP_P1-2: LN 238-B	CONTINGENCY 'DVP_P1-2: LN 238-B' OPEN BRANCH FROM BUS 940480 TO BUS 314563 CKT 1 /* AE2-033 TAP 230.00 - 6CLUBHSE 230.00 OPEN BRANCH FROM BUS 314562 TO BUS 314563 CKT 1 /* 3CLUBHSE 115.00 - 6CLUBHSE 230.00 END
DVP_P1-2: LN 2056-A	CONTINGENCY 'DVP_P1-2: LN 2056-A' OPEN BRANCH FROM BUS 313845 TO BUS 934330 CKT 1 /* 6HATHAWAY 230.00 - AD1-057 TAP 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2056-B	CONTINGENCY 'DVP_P1-2: LN 2056-B' OPEN BRANCH FROM BUS 934330 TO BUS 314579 CKT 1 /* AD1-057 TAP 230.00 - 6HORNRTN 230.00 END
DVP_P1-3: 6EARLEYS-TX#3	CONTINGENCY 'DVP_P1-3: 6EARLEYS-TX#3' OPEN BRANCH FROM BUS 314568 TO BUS 314569 CKT 1 /* 3EARLEYS 115.00 - 6EARLEYS 230.00 END
DVP_P1-3: 6EARLEYS-TX#4	CONTINGENCY 'DVP_P1-3: 6EARLEYS-TX#4' OPEN BRANCH FROM BUS 314568 TO BUS 314569 CKT 2 /* 3EARLEYS 115.00 - 6EARLEYS 230.00 END
AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1' OPEN BRANCH FROM BUS 242520 TO BUS 242514 CKT 1 END
DVP_P1-2: LN 296-A	CONTINGENCY 'DVP_P1-2: LN 296-A' OPEN BRANCH FROM BUS 304070 TO BUS 927250 CKT 1 /* 6PERSON230 T230.00 - AC1-221 TAP 230.00 END
DVP_P1-2: LN 246-A	CONTINGENCY 'DVP_P1-2: LN 246-A' OPEN BRANCH FROM BUS 314537 TO BUS 957820 CKT 1 /* 6SUFFOLK 230.00 - AF2- 076 230.00 END
DVP_P1-2: LN 84	CONTINGENCY 'DVP_P1-2: LN 84' OPEN BRANCH FROM BUS 314521 TO BUS 314713 CKT 1 /* 3PAMPL_1 115.00 - 3PAMPLIN 115.00 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 /* 3FARMVIL 115.00 - 3WILLIS 115.00 OPEN BRANCH FROM BUS 314713 TO BUS 314726 CKT 1 /* 3PAMPLIN 115.00 - 3WILLIS 115.00 OPEN BUS 314521 /* ISLAND: 3PAMPL_1 115.00 OPEN BUS 314726 /* ISLAND: 3WILLIS 115.00 END

Contingency Name	Contingency Definition
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 - 3SHAMPT 115.00 OPEN BUS 314526 /* ISLAND: 3HANDSOM 115.00 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	
AEP_P1-3_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P1-3_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
314435 6SAPONY 230 940480 AE2-033 TAP 230 1	CONTINGENCY '314435 6SAPONY 230 940480 AE2-033 TAP 230 1' OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 END
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

Contingency Name	Contingency Definition
DVP_P1-2: LN 71	CONTINGENCY 'DVP_P1-2: LN 71' OPEN BRANCH FROM BUS 314516 TO BUS 314676 CKT 1 /* 3BRUNWICK_1 115.00 - 3BRUNWICK 115.00 OPEN BRANCH FROM BUS 314562 TO BUS 314565 CKT Z1 /* 3CLUBHSE 115.00 - 3CLUBHSE71 115.00 OPEN BRANCH FROM BUS 314565 TO BUS 314693 CKT 1 /* 3CLUBHSE71 115.00 - 3FRMAN D 115.00 OPEN BRANCH FROM BUS 314565 TO BUS 314850 CKT 1 /* 3CLUBHSE71 115.00 - 3CLUBHSE71_1115.00 OPEN BRANCH FROM BUS 314675 TO BUS 314676 CKT 1 /* 3BRODNAX 115.00 - 3BRUNWICK 115.00 OPEN BRANCH FROM BUS 314676 TO BUS 314704 CKT 1 /* 3BRUNWICK 115.00 - 3LAWRENC 115.00 OPEN BRANCH FROM BUS 314693 TO BUS 314704 CKT 1 /* 3FRMAN D 115.00 - 3LAWRENC 115.00 OPEN BUS 314516 /* ISLAND: 3BRUNWICK_1 115.00 OPEN BUS 314565 /* ISLAND: 3CLUBHSE71 115.00 OPEN BUS 314676 /* ISLAND: 3BRUNWICK 115.00 OPEN BUS 314782 /* ISLAND: 2BRUNWICK 69.000 OPEN BUS 314785 /* ISLAND: 2DANLTWN 69.000 OPEN BUS 314786 /* ISLAND: 2GASBURG 69.000 OPEN BUS 314787 /* ISLAND: 2BRUNWICK2 69.000 OPEN BUS 314872 /* ISLAND: 2BRUNSWICKDP69.000 OPEN BUS 314693 /* ISLAND: 3FRMAN D 115.00 OPEN BUS 314704 /* ISLAND: 3LAWRENC 115.00 OPEN BUS 314850 /* ISLAND: 3CLUBHSE71_1115.00 END
DVP_P1-2: LN 556-B	CONTINGENCY 'DVP_P1-2: LN 556-B' OPEN BRANCH FROM BUS 945810 TO BUS 964930 CKT 1 /* AF1-246 TAP 500.00 - AG1-357 TAP 500.00 END
DVP_P1-2: LN 556-C	CONTINGENCY 'DVP_P1-2: LN 556-C' OPEN BRANCH FROM BUS 964930 TO BUS 966360 CKT 1 /* AG1-357 TAP 500.00 - AG1-055 TAP 500.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 158-235	CONTINGENCY 'DVP_P7-1: LN 158-235' /* . OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 /* 3FLAT CREEK 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 /* 3FLAT CREEK 115.00 - 3MORAN 115.00 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 /* 3LONEPINE_1 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 /* 3FARMVIL 115.00 - 3MORAN 115.00 OPEN BUS 313755 /* ISLAND: 3FLAT CREEK 115.00 OPEN BUS 314519 /* ISLAND: 3LONEPINE_1 115.00 OPEN BUS 314707 /* ISLAND: 3MORAN 115.00 OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 /* 6PRINCE EDW 230.00 - 6BRIERY 230.00 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 /* 6PRINCE EDW 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 /* 6BRIERY 230.00 - AG1-347 TAP 230.00 OPEN BRANCH FROM BUS 314686 TO BUS 962490 CKT 1 /* 6CLOVER 230.00 - AG1-098 TAP 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 OPEN BUS 313802 /* ISLAND: 6PRINCE EDW 230.00 OPEN BUS 314268 /* ISLAND: 6BRIERY 230.00 OPEN BUS 934620 /* ISLAND: AD1-088 TAP 230.00 OPEN BUS 934621 /* ISLAND: AD1-088 MAIN230.00 OPEN BUS 934622 /* ISLAND: AD1-088 COL134.500 OPEN BUS 934623 /* ISLAND: AD1-088 TER 13.800 OPEN BUS 934624 /* ISLAND: AD1-088 COL234.500 OPEN BUS 934625 /* ISLAND: AD1-088 C 0.6600 OPEN BUS 934626 /* ISLAND: AD1-088 E 0.6600 END
DVP_P1-2: LN 2092	CONTINGENCY 'DVP_P1-2: LN 2092' OPEN BRANCH FROM BUS 313714 TO BUS 314662 CKT 1 /* 6PERQUIMANS 230.00 - 6S HERTFORD 230.00 OPEN BRANCH FROM BUS 314651 TO BUS 314662 CKT 1 /* 6WINFALL 230.00 - 6S HERTFORD 230.00 OPEN BUS 314662 /* ISLAND: 6S HERTFORD 230.00 END
DVP_P1-2: LN 235-A	CONTINGENCY 'DVP_P1-2: LN 235-A' OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 /* 6PRINCE EDW 230.00 - 6BRIERY 230.00 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 /* 6PRINCE EDW 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 /* 6BRIERY 230.00 - AG1-347 TAP 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 OPEN BUS 313802 /* ISLAND: 6PRINCE EDW 230.00 OPEN BUS 314268 /* ISLAND: 6BRIERY 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 22-90	CONTINGENCY 'DVP_P7-1: LN 22-90' /*. OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 314571 TO BUS 316125 CKT 1 /* 3EATON F 115.00 - AC1-054 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 316125 CKT 1 /* 3KERR 115.00 - AC1-054 TAP 115.00 OPEN BUS 314571 /* ISLAND: 3EATON F 115.00 OPEN BUS 316125 /* ISLAND: AC1-054 TAP 115.00 OPEN BUS 316126 /* ISLAND: AC1-054 MAIN115.00 OPEN BUS 316127 /* ISLAND: AC1-054 COL222.860 OPEN BUS 316128 /* ISLAND: AC1-054 COL122.860 OPEN BUS 316129 /* ISLAND: AC1-054 C 0.3850 OPEN BUS 925785 /* ISLAND: AC1-054 E 0.3850 OPEN BRANCH FROM BUS 314265 TO BUS 314584 CKT 1 /* 3FIVEFORKSDP115.00 - 3LITTLTN 115.00 OPEN BRANCH FROM BUS 314265 TO BUS 314673 CKT 1 /* 3FIVEFORKSDP115.00 - 3PALMERSPRNG115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314584 TO BUS 314585 CKT 1 /* 3LITTLTN 115.00 - 3L GASTN 115.00 OPEN BUS 314265 /* ISLAND: 3FIVEFORKSDP115.00 OPEN BUS 314584 /* ISLAND: 3LITTLTN 115.00 OPEN BUS 314585 /* ISLAND: 3L GASTN 115.00 END
DVP_P1-2: LN 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 END
DVP_P1-3: 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_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 - 3SKIPERS 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

The following Breakers are overdutied:

None

12.1 System Reinforcements - Short Circuit

None

13 Affected Systems

13.1 TVA

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

13.2 Duke Energy Progress

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

14 Attachment 1: One Line Diagram