



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-546
EBONY-ELAMS ROAD 115 KV
97.62 MW Capacity / 150 MW Energy**

January 2021

Table of Contents

1	Introduction.....	6
2	Preface.....	6
3	General	7
4	Point of Interconnection.....	8
5	Cost Summary	8
6	Transmission Owner Scope of Work	9
7	Schedule.....	10
8	Transmission Owner Analysis.....	10
8.1	Power Flow Analysis	10
9	Interconnection Customer Requirements.....	11
9.1	System Protection.....	11
9.2	Compliance Issues and Interconnection Customer Requirements	11
9.3	Power Factor Requirements.....	11
10	Revenue Metering and SCADA Requirements	12
10.1	PJM Requirements	12
10.2	Meteorological Data Reporting Requirements	12
10.3	Interconnected Transmission Owner Requirements.....	12
11	Summer Peak - Load Flow Analysis	13
11.1	Generation Deliverability	13
11.2	Multiple Facility Contingency	13
11.3	Contribution to Previously Identified Overloads.....	13
11.4	Potential Congestion due to Local Energy Deliverability.....	20
11.5	System Reinforcements - Summer Peak Load Flow - Primary POI.....	24
11.6	Flow Gate Details.....	39
11.6.1	Index 1	39
11.6.2	Index 2	40
11.6.3	Index 3	41
11.6.4	Index 4	44
11.6.5	Index 5	45
11.6.6	Index 6	46
11.6.7	Index 7	48

11.6.8	Index 8	49
11.6.9	Index 9	56
11.6.10	Index 10.....	59
11.6.11	Index 11.....	62
11.6.12	Index 12.....	65
11.6.13	Index 13.....	66
11.6.14	Index 14.....	70
11.6.15	Index 15.....	71
11.6.16	Index 16.....	73
11.6.17	Index 17.....	75
11.6.18	Index 18.....	77
11.6.19	Index 19.....	79
11.6.20	Index 20.....	82
11.6.21	Index 21.....	85
11.6.22	Index 22.....	88
11.6.23	Index 23.....	91
11.6.24	Index 24.....	94
11.6.25	Index 25.....	97
11.6.26	Index 26.....	101
11.6.27	Index 27.....	104
11.6.28	Index 28.....	107
11.6.29	Index 29.....	111
11.6.30	Index 30.....	114
11.6.31	Index 31.....	115
11.6.32	Index 32.....	118
11.6.33	Index 33.....	121
11.6.34	Index 34.....	123
11.6.35	Index 35.....	126
11.6.36	Index 36.....	128
11.6.37	Index 37.....	133
11.6.38	Index 38.....	134
11.6.39	Index 39.....	136
11.6.40	Index 40.....	139

11.6.41	Index 41.....	142
11.6.42	Index 42.....	145
11.6.43	Index 43.....	148
11.6.44	Index 44.....	151
11.6.45	Index 45	154
11.6.46	Index 46.....	156
11.6.47	Index 47	159
11.6.48	Index 48.....	160
11.6.49	Index 49.....	163
11.6.50	Index 50.....	166
11.6.51	Index 51.....	169
11.6.52	Index 52.....	171
11.6.53	Index 53.....	173
11.6.54	Index 54.....	175
11.6.55	Index 55.....	178
11.6.56	Index 56.....	180
11.6.57	Index 57	182
11.6.58	Index 58.....	184
11.6.59	Index 59.....	187
11.6.60	Index 60.....	190
11.6.61	Index 61.....	192
11.6.62	Index 62.....	195
11.6.63	Index 63.....	198
11.6.64	Index 64.....	200
11.6.65	Index 65.....	202
11.6.66	Index 66.....	204
11.6.67	Index 67	206
11.6.68	Index 68.....	209
11.6.69	Index 69.....	212
11.6.70	Index 70.....	214
11.6.71	Index 71.....	216
11.6.72	Index 72.....	219
11.6.73	Index 73.....	222

11.6.74	Index 74.....	225
11.6.75	Index 75.....	227
11.6.76	Index 76.....	229
11.6.77	Index 77.....	232
11.6.78	Index 78.....	233
11.6.79	Index 79.....	237
11.6.80	Index 80.....	240
11.6.81	Index 81.....	243
11.6.82	Index 82.....	244
11.6.83	Index 83.....	246
11.7	Queue Dependencies	250
11.8	Contingency Descriptions.....	256
12	Short Circuit Analysis.....	271
12.1	System Reinforcements - Short Circuit.....	271
13	Affected Systems	272
13.1	TVA.....	272
13.2	Duke Energy Progress.....	272
14	Attachment 1: One Line Diagram	273

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.

The AG1-546 customer will be an interconnection to Mecklenburg Electric Cooperative (MEC) facilities. The Interconnection Customer (IC) will need to coordinate with MEC for scope, cost and schedule for this physical interconnection. This PJM report identifies the effects on the transmission system. AG1-546 will interconnect within the MEC system which interconnects with the Dominion transmission system at Eaton Ferry 115 kV.

2 Preface

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

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

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

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

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

3 General

The Interconnection Customer (IC), has proposed a Solar; Storage generating facility located in Brunswick County, Virginia. The installed facilities will have a total capability of 150 MW with 97.62 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is October 01, 2024. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-546
Project Name	EBONY-ELAMS ROAD 115 KV
State	Virginia
County	Brunswick
Transmission Owner	Dominion
MFO	150
MWE	150
MWC	97.62
Fuel	Solar; Storage
Basecase Study Year	2024

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

4 Point of Interconnection

AG1-546 "Ebony-Elams Road 115 kV" will interconnect within the Mecklenburg Electric Cooperative (MEC) system which interconnects with the Dominion transmission system at Eatons Ferry 115 kV.

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

5 Cost Summary

The AG1-546 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$7,600,000+ Costs from MEC to be provided in separate IA
Total System Network Upgrade Costs	\$1,495,926,450 ¹
MEC Interconnection Work	Interconnection Customer to contact MEC
Total Costs	\$1,503,526,450 + Costs from MEC to be determined

In addition, the costs associated with interconnecting AG1-546 to the Mecklenburg Electric Cooperative (MEC) system will be documented in the two-party Interconnection Agreement between the IC and Mecklenburg Electric Cooperative (MEC).

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

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

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

6 Transmission Owner Scope of Work

The required Attachment Facilities, Direct Connection and Non-Direct Connection work for the interconnection of AG1-546 to the Dominion Transmission System is detailed in the following sections. The associated one-line showing the generation project attachment facilities and primary direct and non-direct connection is shown in Attachment 1.

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

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

Description	Total Cost
Attachment Facilities	\$500,000
115 kV Three Breaker Ring-Bus Substation	\$5,500,000
Re-arrange line and tie-in new substation	\$1,600,000
Total Physical Interconnection Costs	\$7,600,000

AG1-546 "Ebony-Elams Road 115 kV" will interconnect within the Mecklenburg Electric Cooperative (MEC) system which interconnects with the Dominion transmission system at Eatons Ferry 115 kV.

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.

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

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

8 Transmission Owner Analysis

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

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

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

8.1 Power Flow Analysis

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

9 Interconnection Customer Requirements

9.1 System Protection

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

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

9.2 Compliance Issues and Interconnection Customer Requirements

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

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

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

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

9.3 Power Factor Requirements

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

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

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

10.2 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 AG1-546 was evaluated as a 150.0 MW (Capacity 97.6 MW) injection at the Eatons Ferry North 115 kV substation in the Dominion area. Project AG1-546 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-546 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
168888732	314527	3HOLLAND	115.0	DVP	313737	3COPELDDP	115.0	DVP	1	DVP_P1-2: LN 136	single	269.779998779	98.88	101.4	DC	6.81
168888807	314534	3SHAMPT	115.0	DVP	314541	3WATKINS	115.0	DVP	1	Base Case	single	247.220001221	99.02	101.49	DC	6.11
169071770	314616	6TRWBRDG	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 246-B	single	789.599975586	99.3	100.29	DC	7.78

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
167011404	313705	3KERRDP	115.0	DVP	314699	3ISLND C	115.0	DVP	1	DVP_P7-1: LN 38-137-A	tower	202.0	98.28	111.15	DC	26.0
167011405	313705	3KERRDP	115.0	DVP	314699	3ISLND C	115.0	DVP	1	DVP_P7-1: LN 38-137-B	tower	202.0	87.15	100.02	DC	26.0
167011431	314665	3CLRK TAP	115.0	DVP	314682	3BUGGSI	115.0	DVP	1	DVP_P7-1: LN 38-137-A	tower	208.0	94.14	106.64	DC	26.0
167011419	314699	3ISLND C	115.0	DVP	314665	3CLRK TAP	115.0	DVP	1	DVP_P7-1: LN 38-137-A	tower	208.0	95.44	107.94	DC	26.0
167011380	314702	3KERR	115.0	DVP	313705	3KERRDP	115.0	DVP	1	DVP_P7-1: LN 38-137-B	tower	195.0	91.2	104.53	DC	26.0

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
161954 849	2425 20	05J.FERR	500 .0	AEP	2425 14	05J.FERR	765 .0	AEP	1	AEP_P7-1_#10781-A	tower	1845.0	109.79	110.29	DC	20.37
168284 259	2426 31	05EDAN 1	138 .0	AEP	2426 20	05DANVL2	138 .0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	139.56	141.38	DC	7.37
168284 260	2426 31	05EDAN 1	138 .0	AEP	2426 20	05DANVL2	138 .0	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	139.56	141.38	DC	7.37
168284 261	2426 31	05EDAN 1	138 .0	AEP	2426 20	05DANVL2	138 .0	AEP	1	Base Case	single	275.0	129.97	132.14	DC	6.04
167011 336	3137 05	3KERRDP	115 .0	DVP	3147 02	3KERR	115 .0	DVP	1	DVP_P7-1: LN 171-1009	tower	195.0	123.53	126.82	DC	6.41
168582 311	3137 07	6FORK UNION	230 .0	DVP	9610 60	AF2-397 TAP	230 .0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	164.77	165.78	DC	6.74
168582 312	3137 07	6FORK UNION	230 .0	DVP	9610 60	AF2-397 TAP	230 .0	DVP	1	DVP_P1-2: LN 2027	single	661.76000 9766	160.96	161.98	DC	6.74
168582 427	3137 19	3CHESTNUT	115 .0	DVP	3146 23	3WITAKRS	115 .0	DVP	1	DVP_P1-2: LN 2056-A	single	165.44000 2441	113.87	118.31	DC	7.35
168582 429	3137 19	3CHESTNUT	115 .0	DVP	3146 23	3WITAKRS	115 .0	DVP	1	DVP_P1-2: LN 2056-B	single	165.44000 2441	111.7	116.14	DC	7.35
163417 695	3137 25	6DRY BREAD	230 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	459.0	196.93	198.3	DC	13.87
163417 696	3137 25	6DRY BREAD	230 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	191.25	192.58	DC	13.53
163417 965	3137 25	6DRY BREAD	230 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	217.91	219.46	DC	15.74
163417 966	3137 25	6DRY BREAD	230 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	PL:48:P71:10 2649	tower	459.0	190.19	191.52	DC	13.44
168582 276	3137 25	6DRY BREAD	230 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	Base Case	single	375.05999 7559	168.19	170.52	DC	8.75
168582 277	3137 25	6DRY BREAD	230 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	DVP_P1-2: LN 2012-B	single	375.05999 7559	157.01	160.15	DC	11.76
168582 450	3137 25	6DRY BREAD	230 .0	DVP	3145 83	6LAKEVEW	230 .0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	375.05999 7559	114.98	116.46	DC	5.52
168582 451	3137 25	6DRY BREAD	230 .0	DVP	3145 83	6LAKEVEW	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	375.05999 7559	114.98	116.46	DC	5.52
168582 252	3137 55	3FLAT CREEK	115 .0	DVP	3147 07	3MORAN	115 .0	DVP	1	Base Case	single	203.97999 5728	132.25	134.88	DC	5.35
168582 464	3138 25	3PLYWOOD	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DVP	1	DVP_P1-2: LN 33	single	141.0	135.37	142.19	DC	9.6
168582 466	3138 25	3PLYWOOD	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DVP	1	DVP_P1-2: LN 45	single	141.0	119.19	126.42	DC	10.19
163937 932	3138 45	6HATHAWAY	230 .0	DVP	3042 22	6ROCKYMT2 30T	230 .0	CPL E	1	DVP_P1-2: LN 2181	single	478.0	139.64	141.46	DC	8.71
163937 933	3138 45	6HATHAWAY	230 .0	DVP	3042 22	6ROCKYMT2 30T	230 .0	CPL E	1	EXT_304222 6ROCKYMT23 0T 230 304226 6PA-RMOUNT#4 230 1	single	478.0	130.52	132.34	DC	8.71
168582 417	3138 54	3CONSLDL	115 .0	DVP	3145 54	3BTLEBRO	115 .0	DVP	1	DVP_P1-2: LN 2056-B	single	165.44000 2441	120.52	124.96	DC	7.34
168582 418	3138 54	3CONSLDL	115 .0	DVP	3145 54	3BTLEBRO	115 .0	DVP	1	DVP_P1-2: LN 126	single	165.44000 2441	103.59	107.72	DC	6.83

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168582333	313867	6BREMIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	166.27	167.38	DC	7.34
168582334	313867	6BREMIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.76000 9766	162.1	163.21	DC	7.34
168582336	313867	6BREMIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	Base Case	single	661.76000 9766	110.82	111.86	DC	6.93
168888795	314266	6NORTHAMP TON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	single	571.52001 9531	111.37	113.94	DC	14.69
168888796	314266	6NORTHAMP TON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	571.52001 9531	111.35	113.92	DC	14.69
167011400	314267	3CHASCTY2	115.0	DVP	314669	3BARNES J	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	110.26	111.78	DC	13.79
168888669	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	single	559.29998 7793	176.18	177.53	DC	7.74
168888670	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 2002	single	559.29998 7793	157.55	158.57	DC	8.16
168888927	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P1-2: LN 249	single	678.67999 2676	118.78	119.55	DC	7.54
168888679	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	single	559.29998 7793	172.37	173.72	DC	7.74
168888680	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 2002	single	559.29998 7793	153.75	154.77	DC	8.16
168888702	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 563	single	441.79998 7793	154.72	156.04	DC	6.02
168888704	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 249	single	441.79998 7793	122.64	124.16	DC	6.7
168888822	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P1-2: LN 563	single	441.79998 7793	146.36	147.33	DC	6.17
168888825	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P1-2: LN 2003	single	441.79998 7793	110.1	111.58	DC	6.55
168888749	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P1-2: LN 563	single	441.79998 7793	151.53	152.5	DC	6.17
168888751	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P1-2: LN 2002	single	441.79998 7793	115.36	116.83	DC	6.52
168888698	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 563	single	441.79998 7793	154.74	156.06	DC	6.02
168888700	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 249	single	441.79998 7793	122.67	124.18	DC	6.7
163418035	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	165.68	169.98	DC	35.61
163418036	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P7-1: LN 54-2012-A	tower	830.0	165.59	169.9	DC	35.61
168888624	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.67999 2676	154.25	157.44	DC	21.65
168888625	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	314266 6NORTHAMP TON 230 936400 AD2-051 TAP 230 1	single	678.67999 2676	151.23	154.42	DC	21.65
168888626	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	single	678.67999 2676	138.82	141.6	DC	18.92
168888686	314524	3FRNKLN	115.0	DVP	314539	3UNCAMP	115.0	DVP	1	DVP_P1-2: LN 136	single	224.66000 3662	128.55	131.59	DC	6.81
168888687	314524	3FRNKLN	115.0	DVP	314539	3UNCAMP	115.0	DVP	1	DVP_P1-2: LN 108-C	single	224.66000 3662	126.77	129.8	DC	6.81
168888688	314524	3FRNKLN	115.0	DVP	314539	3UNCAMP	115.0	DVP	1	Base Case	single	224.66000 3662	102.04	104.76	DC	6.11
168888805	314534	3S HAMPT	115.0	DVP	314541	3WATKINS	115.0	DVP	1	DVP_P1-2: LN 136	single	269.77999 8779	111.63	114.16	DC	6.81

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168888806	314534	3S HAMPT	115.0	DVP	314541	3WATKINS	115.0	DVP	1	DVP_P1-2: LN 108-C	single	269.779998779	110.18	112.71	DC	6.81
163938556	314554	3BTLEBRO	115.0	DVP	304223	3ROCKYMT115T	115.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	164.0	334.25	337.23	DC	10.8
169071636	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 68-A	single	239.888000488	148.16	159.58	DC	27.39
169071637	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 140	single	239.888000488	142.6	154.02	DC	27.4
169071638	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	Base Case	single	226.539993286	121.62	132.91	DC	25.57
169071667	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P1-2: LN 246-B	single	375.059997559	113.95	119.16	DC	19.55
169071668	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P1-2: LN 246-A	single	375.059997559	112.52	117.73	DC	19.55
169071740	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	DVP_P1-2: LN 238-A	single	548.020019531	114.79	117.47	DC	14.69
169071741	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	548.020019531	114.77	117.45	DC	14.69
169071581	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2201	single	182.641998291	238.6	245.59	DC	12.77
169071583	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	176.81401062	177.61	183.36	DC	10.17
163417781	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	152.81	156.42	DC	29.84
163418040	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	164.43	168.19	DC	31.22
163418041	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	830.0	153.91	157.55	DC	30.12
169071680	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2056-A	single	678.679992676	140.35	142.95	DC	21.56
169071681	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	135.95	139.02	DC	21.66
169071682	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	single	678.679992676	125.58	128.2	DC	18.92
169071657	314568	3EARLEYS	115.0	DVP	314569	6EARLEYS	230.0	DVP	2	DVP_P1-3: 6EARLEYS-TX#3	single	175.779998779	143.61	147.81	DC	7.38
169071701	314568	3EARLEYS	115.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-3: 6EARLEYS-TX#4	single	202.475997925	124.78	128.43	DC	7.39
169071545	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	244.64	246.73	DC	11.95
169071546	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	241.75	243.84	DC	11.96
169071548	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	single	571.520019531	150.53	152.25	DC	9.83
163938559	314574	6EVERETS	230.0	DVP	304451	6GREENVILE T	230.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	478.0	234.36	235.25	DC	9.47
169071563	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	235.96	238.05	DC	11.95
169071564	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	233.07	235.16	DC	11.96
169071566	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	single	571.520019531	141.84	143.56	DC	9.83
169071696	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	441.799987793	134.44	137.61	DC	14.01
169071697	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	single	441.799987793	134.42	137.59	DC	14.01
163417990	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	203.47	205.02	DC	15.79

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168582292	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P1-2: LN 2056-A	single	375.059997559	166.62	169.76	DC	11.78
168582293	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	single	375.059997559	152.31	154.65	DC	8.79
169071775	314583	6LAKEVEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	441.799987793	106.93	110.12	DC	14.09
169071776	314583	6LAKEVEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	DVP_P1-2: LN 238-A	single	441.799987793	106.91	110.1	DC	14.09
163937920	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	single	478.0	140.62	142.37	DC	8.39
163937925	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 218	single	478.0	111.38	112.62	DC	5.9
168888759	314599	6ROA VAL	230.0	DVP	314266	6NORTHAMP TON	230.0	DVP	1	DVP_P1-2: LN 238-A	single	548.020019531	114.74	117.42	DC	14.69
168888760	314599	6ROA VAL	230.0	DVP	314266	6NORTHAMP TON	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	548.020019531	114.72	117.4	DC	14.69
169290608	314623	3WITAKRS	115.0	DVP	313854	3CONSLDL	115.0	DVP	1	DVP_P1-2: LN 2056-B	single	165.440002441	120.58	125.02	DC	7.34
169290609	314623	3WITAKRS	115.0	DVP	313854	3CONSLDL	115.0	DVP	1	DVP_P1-2: LN 126	single	165.440002441	103.65	107.78	DC	6.83
167011364	314665	3CLR K TAP	115.0	DVP	314699	3ISLND C	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	116.67	119.76	DC	6.41
167011406	314669	3BARN S J	115.0	DVP	314684	3MT LREL	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	109.39	110.92	DC	13.79
169290449	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	236.46	238.36	DC	10.84
169290450	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	230.17	232.07	DC	10.84
169290452	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	single	571.520019531	144.48	146.02	DC	8.81
167011368	314681	3CHASCTY	115.0	DVP	314781	3BLACKBR	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	118.52	119.08	DC	3.21
167011369	314681	3CHASCTY	115.0	DVP	314781	3BLACKBR	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	301.0	102.41	102.98	DC	3.21
168888800	314681	3CHASCTY	115.0	DVP	314267	3CHASCTY2	115.0	DVP	Z1	DVP_P1-2: LN 84	single	449.320007324	100.34	101.76	DC	6.41
167011358	314682	3BUGGS I	115.0	DVP	314665	3CLR K TAP	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	118.02	121.1	DC	6.41
167011366	314683	3CLR KVILLE	115.0	DVP	314869	3BURLING	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	118.89	119.46	DC	3.21
167011367	314683	3CLR KVILLE	115.0	DVP	314869	3BURLING	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	301.0	102.79	103.35	DC	3.21
167011383	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	113.39	114.92	DC	13.79
169290407	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P1-2: LN 235-A	single	182.641998291	331.47	336.2	DC	8.64
169290410	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	Base Case	single	176.81401062	202.65	205.61	DC	5.23
169290418	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 298	single	198.057998657	228.87	232.17	DC	6.54
169290428	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	single	559.299987793	238.38	240.32	DC	10.86
169290429	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B	single	559.299987793	231.96	233.9	DC	10.86
169290431	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	single	559.299987793	144.93	146.51	DC	8.82
169290477	314696	3SEGE HILL	115.0	DVP	314697	6SEGE HILL	230.0	DVP	1	DVP_P1-3: 6SEGE HILL-TX#2	single	226.727996826	179.54	183.78	DC	9.61
169290479	314696	3SEGE HILL	115.0	DVP	314697	6SEGE HILL	230.0	DVP	1	DVP_P1-2: LN 31-A	single	226.727996826	135.43	138.64	DC	7.27

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
169290480	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	Base Case	single	223.531997681	103.45	105.99	DC	5.7
169290493	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.055999756	158.5	162.24	DC	9.58
169290495	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-2: LN 31-A	single	256.055999756	118.74	121.55	DC	7.2
169290455	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	674.91998291	220.9	222.12	DC	8.2
169290456	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	674.91998291	207.26	208.48	DC	8.2
167011348	314699	3ISLND C	115.0	DVP	313705	3KERRDP	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	202.0	120.14	123.32	DC	6.41
168582247	314701	3LONEPN	115.0	DVP	313755	3FLAT CREEK	115.0	DVP	1	Base Case	single	203.979995728	132.25	134.88	DC	5.35
163937689	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-6: CAROLIN T122	breaker	199.0	236.98	263.38	DC	53.4
163937690	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 13002	breaker	199.0	194.56	218.01	DC	46.59
163937691	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 102802	breaker	199.0	194.56	218.01	DC	46.59
163937902	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P1-2: LN 90	single	199.0	150.44	158.66	DC	16.35
163937903	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	Base Case	single	191.0	139.4	147.57	DC	15.59
167011379	314702	3KERR	115.0	DVP	313705	3KERRDP	115.0	DVP	1	DVP_P7-1: LN 38-137-A	tower	195.0	102.78	116.11	DC	26.0
169290602	314702	3KERR	115.0	DVP	314673	3PALMERSPR NG	115.0	DVP	1	DVP_P1-2: LN 45	single	138.179992676	128.06	132.57	DC	6.23
169290603	314702	3KERR	115.0	DVP	314673	3PALMERSPR NG	115.0	DVP	1	EXT_304099 3WARREN TAP 115 304102 3GW KING TAP 115 1	single	138.179992676	127.48	131.99	DC	6.23
169290446	314707	3MORAN	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	single	203.979995728	128.82	131.45	DC	5.35
169504797	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009766	168.43	169.54	DC	7.34
169504798	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	164.27	165.38	DC	7.34
169504800	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	Base Case	single	661.760009766	112.98	114.02	DC	6.93
169504787	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009766	168.64	169.66	DC	6.74
169504788	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	164.85	165.87	DC	6.74
167011346	314781	3BLACKBR	115.0	DVP	314788	3JONESTO	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	122.88	123.44	DC	3.21
167011347	314781	3BLACKBR	115.0	DVP	314788	3JONESTO	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	301.0	106.77	107.34	DC	3.21
167011352	314788	3JONESTO	115.0	DVP	314683	3CLRKVILLE	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	121.52	122.08	DC	3.21
167011353	314788	3JONESTO	115.0	DVP	314683	3CLRKVILLE	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	301.0	105.41	105.98	DC	3.21
167011370	314869	3BURLING	115.0	DVP	314682	3BUGGS I	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	117.79	118.36	DC	3.21
167011371	314869	3BURLING	115.0	DVP	314682	3BUGGS I	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	301.0	101.69	102.26	DC	3.21

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
167011305	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	142.55	144.08	DC	13.79
169504832	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 40-A	single	331.820007324	112.46	114.95	DC	8.28
169504833	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 71	single	331.820007324	112.4	114.89	DC	8.28
163937856	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230T	230.0	CPL E	1	DVP_P1-2: LN 556-D	single	718.0	219.62	220.76	DC	8.2
163937857	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230T	230.0	CPL E	1	DVP_P1-2: LN 556-C	single	718.0	206.79	207.94	DC	8.2
168582391	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 238-B	single	441.799987793	133.06	135.94	DC	12.69
168582392	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 2201	single	441.799987793	114.29	116.78	DC	11.01
169812164	934620	AD1-088 TAP	230.0	DVP	962490	AG1-098 TAP	230.0	DVP	1	DVP_P1-2: LN 298	single	571.520019531	110.45	111.6	DC	6.54
169071732	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 238-A	single	571.520019531	118.88	121.45	DC	14.69
169071733	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	571.520019531	118.87	121.44	DC	14.69
169812115	938770	AE1-103 TAP	115.0	DVP	314527	3HOLLAND	115.0	DVP	1	DVP_P1-2: LN 136	single	224.660003662	122.88	125.91	DC	6.81
169812116	938770	AE1-103 TAP	115.0	DVP	314527	3HOLLAND	115.0	DVP	1	DVP_P1-2: LN 108-C	single	224.660003662	121.14	124.17	DC	6.81
163418020	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	170.58	174.35	DC	31.22
163418021	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	164.0	168.3	DC	35.62
169812098	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	151.22	154.23	DC	21.66
169812099	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	314266 6NORTHAMP TON 230 936400 AD2-051 TAP 230 1	single	678.679992676	148.2	151.21	DC	21.66
169812100	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	single	678.679992676	138.01	140.8	DC	18.92
168888545	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	240.29	242.38	DC	11.95
168888546	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	237.4	239.49	DC	11.96
168888548	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	single	571.520019531	146.22	147.95	DC	9.83
170087399	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009766	172.21	173.23	DC	6.74
170087400	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	168.41	169.43	DC	6.74
170087416	961850	AG1-027 TAP	115.0	DVP	314536	3SUFFOLK	115.0	DVP	1	DVP_P1-2: LN 136	single	269.779998779	126.1	128.62	DC	6.81
170087417	961850	AG1-027 TAP	115.0	DVP	314536	3SUFFOLK	115.0	DVP	1	DVP_P1-2: LN 108-C	single	269.779998779	124.61	127.14	DC	6.81
170087418	961850	AG1-027 TAP	115.0	DVP	314536	3SUFFOLK	115.0	DVP	1	Base Case	single	247.220001221	112.21	114.68	DC	6.11
169290550	962490	AG1-098 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P1-2: LN 298	single	571.520019531	122.57	123.71	DC	6.54
170087409	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009766	172.18	173.2	DC	6.74

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
170087410	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	168.39	169.41	DC	6.74

11.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADING %	POST PROJE CT LOADING %	AC/DC	MW IMPACT
168284256	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P1-3_#1377_05J.FERR 765_1	operation	402.0	169.47	170.74	DC	11.32
168284257	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	169.47	170.74	DC	11.32
168284258	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	operation	275.0	150.99	152.51	DC	9.28
168582425	313719	3CHESTNUT	115.0	DVP	314623	3WITAKRS	115.0	DVP	1	DVP_P1-2: LN 2056-A	operation	165.440002441	153.11	156.19	DC	11.29
168582428	313719	3CHESTNUT	115.0	DVP	314623	3WITAKRS	115.0	DVP	1	Base Case	operation	165.440002441	115.25	117.8	DC	9.36
168582565	313720	3NEWSOMS	115.0	DVP	314526	3HANDSOM	115.0	DVP	1	DVP_P1-2: LN 136	operation	280.119995117	127.62	129.31	DC	10.51
168582567	313720	3NEWSOMS	115.0	DVP	314526	3HANDSOM	115.0	DVP	1	Base Case	operation	280.119995117	100.15	101.66	DC	9.43
168582274	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operation	375.059997559	231.84	233.46	DC	13.45
168582463	313825	3PLYWOOD	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 33	operation	141.0	140.61	145.35	DC	14.76
163937930	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT2 30T	230.0	CPL E	1	DVP_P1-2: LN 2181	operation	478.0	188.18	189.44	DC	13.39
168582414	313854	3CONSLDL	115.0	DVP	314554	3BTLEBRO	115.0	DVP	1	DVP_P1-2: LN 2056-B	operation	165.440002441	156.45	159.53	DC	11.28
168582416	313854	3CONSLDL	115.0	DVP	314554	3BTLEBRO	115.0	DVP	1	Base Case	operation	165.440002441	125.71	128.26	DC	9.35
168582608	313857	6WINDSORD P	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	547.08001709	120.78	121.51	DC	8.87
168582609	313857	6WINDSORD P	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 246-A	operation	547.08001709	120.77	121.5	DC	8.87
168582536	313858	3SO JUSTICE	115.0	DVP	314577	3COX DP	115.0	DVP	1	DVP_P1-2: LN 2056-A	operation	165.440002441	128.33	131.42	DC	11.33
168888793	314266	6NORTHAM PTON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	571.520019531	146.48	150.43	DC	22.57
168888934	314267	3CHASCTY2	115.0	DVP	314669	3BARNES J	115.0	DVP	1	DVP_P1-2: LN 40-A	operation	331.820007324	128.01	129.74	DC	12.72

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168888 936	3142 67	3CHASCTY2	115 .0	DVP	3146 69	3BARNES J	115 .0	DV P	1	Base Case	operati on	331.82000 7324	108.76	110.38	DC	11.96
168888 668	3142 82	6CARSON	230 .0	DVP	3142 85	6CHRL249	230 .0	DV P	1	DVP_P1-2: LN 563	operati on	559.29998 7793	189.85	190.81	DC	11.89
168888 925	3142 82	6CARSON	230 .0	DVP	3143 31	6POE	230 .0	DV P	1	DVP_P1-2: LN 563	operati on	678.67999 2676	130.3	130.95	DC	9.84
168888 678	3142 85	6CHRL249	230 .0	DVP	3143 16	6LOCKS	230 .0	DV P	1	DVP_P1-2: LN 563	operati on	559.29998 7793	186.04	187.0	DC	11.89
168888 701	3142 99	6HARROWG	230 .0	DVP	3142 63	6TYLER1	230 .0	DV P	1	DVP_P1-2: LN 563	operati on	441.79998 7793	176.15	177.09	DC	9.26
168888 823	3143 01	6HARR205	230 .0	DVP	3143 46	6TYLER	230 .0	DV P	1	DVP_P1-2: LN 563	operati on	441.79998 7793	131.52	132.49	DC	9.48
168888 748	3143 16	6LOCKS	230 .0	DVP	3143 01	6HARR205	230 .0	DV P	1	DVP_P1-2: LN 563	operati on	441.79998 7793	157.3	158.27	DC	9.48
168888 697	3143 31	6POE	230 .0	DVP	3142 99	6HARROWG	230 .0	DV P	1	DVP_P1-2: LN 563	operati on	441.79998 7793	176.17	177.11	DC	9.26
168888 621	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DV P	1	DVP_P1-2: LN 2012-B	operati on	678.67999 2676	199.84	204.76	DC	33.27
168888 623	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DV P	1	Base Case	operati on	678.67999 2676	182.48	186.77	DC	29.07
168888 683	3145 24	3FRNKLN	115 .0	DVP	3145 39	3UNCAMP	115 .0	DV P	1	DVP_P1-2: LN 136	operati on	224.66000 3662	184.35	186.45	DC	10.47
168888 685	3145 24	3FRNKLN	115 .0	DVP	3145 39	3UNCAMP	115 .0	DV P	1	Base Case	operati on	224.66000 3662	150.62	152.5	DC	9.39
168888 943	3145 26	3HANDSOM	115 .0	DVP	3145 34	3S HAMPT	115 .0	DV P	1	DVP_P1-2: LN 136	operati on	280.11999 5117	126.69	128.38	DC	10.51
168888 945	3145 26	3HANDSOM	115 .0	DVP	3145 34	3S HAMPT	115 .0	DV P	1	Base Case	operati on	280.11999 5117	99.25	100.77	DC	9.43
168888 802	3145 34	3S HAMPT	115 .0	DVP	3145 41	3WATKINS	115 .0	DV P	1	DVP_P1-2: LN 136	operati on	269.77999 8779	148.0	149.75	DC	10.47
168888 804	3145 34	3S HAMPT	115 .0	DVP	3145 41	3WATKINS	115 .0	DV P	1	Base Case	operati on	247.22000 1221	131.74	133.45	DC	9.39
168888 994	3145 37	6SUFFOLK	230 .0	DVP	3149 28	8SUFFOLK	500 .0	DV P	1	DVP_P1-3: 8SUFFOLK-TX#8	operati on	893.18798 8281	116.82	117.41	DC	11.63
169071 816	3145 37	6SUFFOLK	230 .0	DVP	3149 28	8SUFFOLK	500 .0	DV P	2	DVP_P1-3: 8SUFFOLK-TX#7	operati on	906.25396 7285	115.38	115.96	DC	11.65
169071 690	3145 39	3UNCAMP	115 .0	DVP	9387 70	AE1-103 TAP	115 .0	DV P	1	Base Case	operati on	224.66000 3662	149.4	151.28	DC	9.39
168888 907	3145 41	3WATKINS	115 .0	DVP	3145 24	3FRNKLN	115 .0	DV P	1	DVP_P1-2: LN 136	operati on	269.77999 8779	133.13	134.88	DC	10.47
168888 909	3145 41	3WATKINS	115 .0	DVP	3145 24	3FRNKLN	115 .0	DV P	1	Base Case	operati on	247.22000 1221	115.49	117.2	DC	9.39
168582 689	3145 58	3BOYKINS	115 .0	DVP	3137 20	3NEWSOMS	115 .0	DV P	1	DVP_P1-2: LN 238-B	operati on	280.11999 5117	109.3	111.21	DC	11.84
169071 633	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DV P	1	DVP_P1-2: LN 68-A	operati on	239.88800 0488	198.32	215.89	DC	42.09
169071 635	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DV P	1	Base Case	operati on	226.53999 3286	151.7	169.08	DC	39.3
169071 664	3145 61	6CAROLNA	230 .0	DVP	3145 83	6LAKEVEW	230 .0	DV P	1	DVP_P1-2: LN 246-B	operati on	375.05999 7559	183.03	191.04	DC	30.04
169071 666	3145 61	6CAROLNA	230 .0	DVP	3145 83	6LAKEVEW	230 .0	DV P	1	Base Case	operati on	375.05999 7559	122.85	129.87	DC	26.29
169071 738	3145 61	6CAROLNA	230 .0	DVP	3145 99	6ROA VAL	230 .0	DV P	1	DVP_P1-2: LN 238-A	operati on	548.02001 9531	151.41	155.53	DC	22.57
169071 834	3145 61	6CAROLNA	230 .0	DVP	3145 59	3CAROLNA	115 .0	DV P	1	DVP_P1-2: LN 2201	operati on	239.88800 0488	107.25	110.84	DC	8.58
169071 579	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DV P	1	DVP_P1-2: LN 2201	operati on	182.64199 8291	297.24	308.0	DC	19.63
169071 580	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DV P	1	Base Case	operati on	176.81401 062	238.83	247.67	DC	15.63
169071 677	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DV P	1	DVP_P1-2: LN 2056-A	operati on	678.67999 2676	182.3	187.19	DC	33.12
169071 679	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DV P	1	Base Case	operati on	678.67999 2676	176.26	180.55	DC	29.08

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
169071 818	3145 63	6CLUBHSE	230 .0	DVP	3145 62	3CLUBHSE	115 .0	DV P	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operati on	182.64199 8291	115.73	116.34	DC	2.11
169071 819	3145 63	6CLUBHSE	230 .0	DVP	3145 62	3CLUBHSE	115 .0	DV P	1	DVP_P1-2: LN 238-A	operati on	182.64199 8291	115.73	116.34	DC	2.11
169071 655	3145 68	3EARLEYS	115 .0	DVP	3145 69	6EARLEYS	230 .0	DV P	2	DVP_P1-3: 6EARLEYS-TX#3	operati on	175.77999 8779	207.61	210.52	DC	11.34
169071 699	3145 68	3EARLEYS	115 .0	DVP	3145 69	6EARLEYS	230 .0	DV P	1	DVP_P1-3: 6EARLEYS-TX#4	operati on	202.47599 7925	180.4	182.93	DC	11.36
168582 633	3145 69	6EARLEYS	230 .0	DVP	3138 57	6WINDSORD P	230 .0	DV P	1	DVP_P1-2: LN 246-B	operati on	571.52001 9531	117.76	118.46	DC	8.87
169071 543	3145 69	6EARLEYS	230 .0	DVP	3145 75	6NUCO TP	230 .0	DV P	1	DVP_P1-2: LN 2092	operati on	571.52001 9531	334.97	336.42	DC	18.37
169071 547	3145 69	6EARLEYS	230 .0	DVP	3145 75	6NUCO TP	230 .0	DV P	1	Base Case	operati on	571.52001 9531	199.95	201.14	DC	15.11
169071 820	3145 71	3EATON F	115 .0	DVP	3145 59	3CAROLNA	115 .0	DV P	1	DVP_P1-2: LN 45	operati on	246.27999 8779	81.0	115.26	DC	84.29
169071 561	3145 75	6NUCO TP	230 .0	DVP	9578 20	AF2-076 TAP	230 .0	DV P	1	DVP_P1-2: LN 2092	operati on	571.52001 9531	326.29	327.74	DC	18.37
169071 565	3145 75	6NUCO TP	230 .0	DVP	9578 20	AF2-076 TAP	230 .0	DV P	1	Base Case	operati on	571.52001 9531	191.25	192.45	DC	15.11
169071 800	3145 77	3COX DP	115 .0	DVP	3137 19	3CHESTNUT	115 .0	DV P	1	DVP_P1-2: LN 2056-A	operati on	165.44000 2441	119.99	123.08	DC	11.33
169071 694	3145 79	6HORNRTN	230 .0	DVP	9343 30	AD1-057 TAP	230 .0	DV P	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operati on	441.79998 7793	178.44	183.32	DC	21.52
168582 290	3145 83	6LAKEVEW	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DV P	1	DVP_P1-2: LN 2056-A	operati on	375.05999 7559	224.18	229.03	DC	18.11
168582 291	3145 83	6LAKEVEW	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DV P	1	Base Case	operati on	375.05999 7559	211.97	213.6	DC	13.5
169071 650	3145 83	6LAKEVEW	230 .0	DVP	3145 61	6CAROLNA	230 .0	DV P	1	DVP_P1-2: LN 238-B	operati on	375.05999 7559	211.48	212.79	DC	4.9
169071 654	3145 83	6LAKEVEW	230 .0	DVP	3145 61	6CAROLNA	230 .0	DV P	1	Base Case	operati on	375.05999 7559	118.84	120.57	DC	6.49
169071 773	3145 83	6LAKEVEW	230 .0	DVP	3145 79	6HORNRTN	230 .0	DV P	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operati on	441.79998 7793	134.51	139.41	DC	21.65
163937 919	3145 91	6NASH	230 .0	DVP	3042 26	6PA-RMOUNT#4	230 .0	CPL E	1	DVP_P1-2: LN 2058	operati on	478.0	188.87	190.09	DC	12.89
168888 876	3145 94	6PLYMOTH	230 .0	DVP	3142 03	6MACKEYS	230 .0	DV P	1	DVP_P1-2: LN 246-B	operati on	789.59997 5586	137.44	138.12	DC	11.95
168888 757	3145 99	6ROA VAL	230 .0	DVP	3142 66	6NORTHAM PTON	230 .0	DV P	1	DVP_P1-2: LN 238-A	operati on	548.02001 9531	151.36	155.48	DC	22.57
169071 767	3146 16	6TRWBRDG	230 .0	DVP	3145 94	6PLYMOTH	230 .0	DV P	1	DVP_P1-2: LN 246-B	operati on	789.59997 5586	140.18	140.87	DC	11.95
169071 836	3146 20	6CASHIE	230 .0	DVP	9339 90	AD1-023 TAP	230 .0	DV P	1	DVP_P1-2: LN 246-B	operati on	571.52001 9531	108.28	109.16	DC	11.13
169290 605	3146 23	3WITAKRS	115 .0	DVP	3138 54	3CONSLDL	115 .0	DV P	1	DVP_P1-2: LN 2056-B	operati on	165.44000 2441	156.51	159.59	DC	11.28
169290 607	3146 23	3WITAKRS	115 .0	DVP	3138 54	3CONSLDL	115 .0	DV P	1	Base Case	operati on	165.44000 2441	125.71	128.26	DC	9.35
169290 709	3146 69	3BARNS J	115 .0	DVP	3146 84	3MT LREL	115 .0	DV P	1	DVP_P1-2: LN 40-A	operati on	331.82000 7324	126.96	128.68	DC	12.72
169290 711	3146 69	3BARNS J	115 .0	DVP	3146 84	3MT LREL	115 .0	DV P	1	Base Case	operati on	331.82000 7324	107.71	109.33	DC	11.96
169290 676	3146 84	3MT LREL	115 .0	DVP	3161 15	AC1-105 TAP	115 .0	DV P	1	DVP_P1-2: LN 40-A	operati on	331.82000 7324	132.0	133.72	DC	12.72
169290 678	3146 84	3MT LREL	115 .0	DVP	3161 15	AC1-105 TAP	115 .0	DV P	1	Base Case	operati on	331.82000 7324	112.61	114.23	DC	11.96

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
169290426	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	559.299987793	324.86	326.2	DC	16.68
169290430	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	operation	559.299987793	197.25	198.34	DC	13.55
169290475	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	operation	226.727996826	261.31	264.24	DC	14.77
169290478	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	Base Case	operation	223.531997681	151.27	153.03	DC	8.75
169290491	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	operation	256.055999756	230.69	233.27	DC	14.73
169290494	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	Base Case	operation	253.235992432	132.19	133.73	DC	8.67
163937897	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL	1	DVP_P1-2: LN 90	operation	199.0	191.37	203.91	DC	25.12
163937898	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL	1	Base Case	operation	191.0	177.54	189.98	DC	23.96
169290599	314702	3KERR	115.0	DVP	314673	3PALMERSP RNG	115.0	DVP	1	DVP_P1-2: LN 45	operation	138.179992676	160.8	163.93	DC	9.57
169505097	316085	3IVORY LANE	115.0	DVP	314572	3EMPORIA	115.0	DVP	1	DVP_P1-2: LN 2201	operation	370.359985352	98.85	103.07	DC	15.59
169504829	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 40-A	operation	331.820007324	168.05	169.77	DC	12.72
169504831	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	Base Case	operation	331.820007324	146.2	147.82	DC	11.96
169505059	316125	AC1-054 TAP	115.0	DVP	314571	3EATON F	115.0	DVP	1	DVP_P1-2: LN 90	operation	226.539993286	101.06	108.57	DC	16.99
169071808	933990	AD1-023 TAP	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	118.58	119.45	DC	11.13
168582389	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 238-B	operation	441.799987793	164.5	168.93	DC	19.5
168582393	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	Base Case	operation	441.799987793	109.0	110.28	DC	12.49
169071730	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	571.520019531	155.05	159.0	DC	22.57
169812537	939180	AE1-148 TAP	115.0	DVP	314702	3KERR	115.0	DVP	1	DVP_P1-2: LN 1026	operation	325.804016113	102.64	104.11	DC	4.8
169812538	939180	AE1-148 TAP	115.0	DVP	314702	3KERR	115.0	DVP	1	DVP_P1-2: LN 171	operation	325.804016113	102.64	104.11	DC	4.8
169812095	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	200.29	205.21	DC	33.28
169812097	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operation	678.679992676	185.28	189.58	DC	29.08
169812548	941430	AE2-140 TAP	138.0	AEP	242544	05AXTON	138.0	AEP	1	AEP_P1-2_#5463_158-A	operation	388.0	102.02	102.96	DC	8.05
168888543	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	331.35	332.8	DC	18.37
168888547	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	operation	571.520019531	197.25	198.44	DC	15.11
169071832	965690	AG1-437 TAP	230.0	DVP	314620	6CASHIE	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	110.4	111.27	DC	11.13

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
168284260,168284259,168284261	9	05EDAN 1 138.0 kV - 05DANVL2 138.0 kV Ckt 1	<u>DVP</u> n6124 (382) : PJM Network Upgrade n6124. Increasing the Danville East Danville 138 kV circuit summer rating to 572/572/572 MVA will still require us to rebuild the line. The network project has an projected in-service date of 06/01/2021. Project Type : FAC Cost : \$9,000,000 Time Estimate : Months	\$9,000,000
168582334,168582336,168582333	19	6BREMIDIST 230.0 kV - 6FORK UNION 230.0 kV Ckt 1	<u>DVP</u> dom-202 (1760) : Rebuild 1.63 miles of 230 kV Line 2028 from Fork Union to Bremono Dist with 2-636 ACSR. Project Type : FAC Cost : \$2,445,000 Time Estimate : 30-36 Months dom-276 (1834) : Rebuild 1.63 miles of 230 kV Line 2028 from Fork Union to Bremono Dist with 2-795 ACSR (26/7) 150 C Project Type : FAC Cost : \$2,445,000 Time Estimate : 30-36 Months	\$4,890,000
169071657	37	3EARLEYS 115.0 kV - 6EARLEYS 230.0 kV Ckt 2	<u>DVP</u> dom-016 (1522) : Add additional 230/115 kV transformer at Earleys substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169071701	38	3EARLEYS 115.0 kV - 6EARLEYS 230.0 kV Ckt 1		
167011431	5	3CLRK TAP 115.0 kV - 3BUGGS I 115.0 kV Ckt 1	<u>DVP</u> dom-332 (1890) : Reconnector 0.39 miles of 115 kV Line 193 from Clarksville to Buggs Island P.S. with 636 ACSR 150 C Project Type : FAC Cost : \$234,000 Time Estimate : 30-36 Months	\$234,000
167011358	53	3BUGGS I 115.0 kV - 3CLRK TAP 115.0 kV Ckt 1		
168888546,168888545,168888548	79	AF2-076 TAP 230.0 kV - 6SUFFOLK 230.0 kV Ckt 1	<u>DVP</u> dom-243 (1801) : Rebuild 2.8 miles of 230 kV Line 246 from AF2-076 Tap to Suffolk with 2-768 ACSS. Project Type : FAC Cost : \$4,200,000 Time Estimate : 36-40 Months dom-408 (1966) : Rebuild 2.8 miles of 230 kV Line 246 from AF2-076 Tap to Suffolk with 2-768.2 ACSS 250 C. Replace Wave Trap at Suffolk terminal Project Type : FAC Cost : \$4,400,000 Time Estimate : 30-36 Months	\$8,600,000

ID	Idx	Facility	Upgrade Description	Cost
169071638,169071636,169071637	32	3CAROLNA 115.0 kV - 6CAROLNA 230.0 kV Ckt 1	<u>DVP</u> n6113 (1714) : Add additional 230/115 kV transformer at Carolina substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
167011364	48	3CLRK TAP 115.0 kV - 3ISLND C 115.0 kV Ckt 1	<u>DVP</u> dom-333 (1891) : Reconductor 5.28 miles of 115 kV Line 193 from Clarksville to Island Creek D.P with 636 ACSR 150 C Project Type : FAC Cost : \$3,168,000 Time Estimate : 30-36 Months	\$3,168,000
168582450,168582451	14	6DRY BREAD 230.0 kV - 6LAKEVEW 230.0 kV Ckt 1	<u>DVP</u> b3121 (1500) : PJM Baseline Upgrade b3121. Rebuild Clubhouse-Lakeview 230 kV Line #254 with single-circuit wood pole equivalent structures at the current 230 kV standard with a minimum rating of 1047 MVA. The baseline project has an projected in-service date of 12/31/2024. Project Type : FAC Cost : \$0	\$0
163417990,168582292,168582293	43	6LAKEVEW 230.0 kV - 6DRY BREAD 230.0 kV Ckt 1	<u>DVP</u> n6221 (1751) : Rebuild 11.79 miles of 230 kV Line 238 from Sapony to Carson with 2-795 150C ACSR. Project Type : FAC Cost : \$17,685,000 Time Estimate : 30-36 Months dom-307 (1865) : Rebuild 11.79 miles of 230 kV Line 238 from Sapony to Carson with 2-768.2 ACSS 250 C. Replace Wave trap and Line Lead at Carson terminal. Replace Line switch and Line Lead at Sapony terminal Project Type : FAC Cost : \$18,135,000 Time Estimate : 36-40 Months	\$35,820,000
168888626,168888625,163418035,168888624,163418036	29	6SAPONY 230.0 kV - 6CARSON 230.0 kV Ckt 1	<u>DVP</u> n6112 (1713) : Rebuild 7.47 miles of 230 kV Line 249 from Carson to Chaparral with 2-636 ACSR. Project Type : FAC Cost : \$18,675,000 Time Estimate : 30-36 Months dom-298 (1856) : Rebuild 7.47 miles of 230 kV Line 249 from Carson to Chaparral with 2-795 ACSR 150C. Replace wave trap and Line Lead at Carson Terminal and Line Switch at Chaparral terminal Project Type : FAC Cost : \$19,125,000 Time Estimate : 36-40 Months	\$37,800,000

ID	Idx	Facility	Upgrade Description	Cost
167011336	10	3KERRDP 115.0 kV - 3KERR 115.0 kV Ckt 1	<u>DVP</u> dom-263 (1821) : Reconductor 9.4 miles of 115 kV line 193 from Kerr DP to Kerr Dam with 636 ACSR 150 C Project Type : FAC Cost : \$5,640,000 Time Estimate : 30-36 Months	\$5,640,000
167011379,167011380	7	3KERR 115.0 kV - 3KERRDP 115.0 kV Ckt 1		
168888680,168888679	24	6CHRL249 230.0 kV - 6LOCKS 230.0 kV Ckt 1	<u>DVP</u> n6116 (1716) : Rebuild 2.86 miles of 230 kV Line 249 from Chaparral to Locks with 2-636 ACSR. Project Type : FAC Cost : \$7,150,000 Time Estimate : 30-36 Months	\$7,150,000
169290602,169290603	65	3KERR 115.0 kV - 3PALMERSPRNG 115.0 kV Ckt 1	<u>DVP</u> dom-352 (1910) : Reconductor 0.34 miles of 115 kV line 1019 from Kerr Dam to Palmer Springs with 636 ACSR 150 C Project Type : FAC Cost : \$204,000 Time Estimate : 30-36 Months	\$204,000
167011405,167011404	4	3KERRDP 115.0 kV - 3ISLND C 115.0 kV Ckt 1	<u>DVP</u> dom-262 (1820) : Reconductor 2.19 miles of 115 kV line 193 from Kerr DP to Island Creek DP with 636 ACSR 150 C Project Type : FAC Cost : \$1,314,000 Time Estimate : 30-36 Months	\$1,314,000
161954849	8	05J.FERR 500.0 kV - 05J.FERR 765.0 kV Ckt 1	<u>AEP</u> AEPA0032a (111) : Upgrade 765/500 kV T1 from 1500 MVA to 2250 MVA Transformer Project Type : FAC Cost : \$6,000,000 Time Estimate : 12-18 Months	\$6,000,000
168888800	52	3CHASCTY 115.0 kV - 3CHASCTY2 115.0 kV Ckt Z1	<u>DVP</u> dom-296 (1854) : Replace circuit breaker T342 at Chase City 115 kV with a 2000 A breaker Project Type : FAC Cost : \$1,000,000 Time Estimate : 12-18 Months	\$1,000,000

ID	Idx	Facility	Upgrade Description	Cost
169071546,169071545,169071548	39	GEARLEYS 230.0 kV - 6NUCO TP 230.0 kV Ckt 1	<u>DVP</u> n6138 (1722) : Rebuild 13.7 miles of 230 kV Line 246 from Earleys to Nucor Tap with 2-636 ACSR. Project Type : FAC Cost : \$20,550,000 Time Estimate : 30-36 Months dom-315 (1873) : Rebuild 13.7 miles of 230 kV Line 246 from Earleys to Nucor Tap with 2-768.2 ACSS 250 C. Replace Wave Trap and Line Lead at Earleys terminal. Replace Line Switch at Nucor Tap Terminal. Project Type : FAC Cost : \$21,000,000 Time Estimate : 36-40 Months	\$41,550,000
169290608,169290609	47	3WITAKRS 115.0 kV - 3CONSLDL 115.0 kV Ckt 1	<u>DVP</u> dom-113 (1637) : 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 dom-224 (1782) : Reconductor 0.67 miles of 115 kV line 1001 from Whitakers to Consolidated Diesel with 768 ACSS. Project Type : FAC Cost : \$402,000 Time Estimate : 30-36 Months	\$533,000
169812164	75	AD1-088 TAP 230.0 kV - AG1-098 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-391 (1949) : Rebuild 8.936 miles of 230 kV line 235 from AD1-088 Tap to AG1-098 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$22,340,000 Time Estimate : 36-40 Months	\$22,340,000
169071733,169071732	76	AD2-051 TAP 230.0 kV - GEARLEYS 230.0 kV Ckt 1	<u>DVP</u> dom-236 (1794) : Rebuild 1.2 miles of 230 kV line 2012 from AD2-051 Tap to Earleys with 2-636 ACSR. Project Type : FAC Cost : \$1,800,000 Time Estimate : 30-36 Months	\$1,800,000
167011346,167011347	69	3BLACKBR 115.0 kV - 3JONESTO 115.0 kV Ckt 1	<u>DVP</u> dom-370 (1928) : Reconductor 7.45 miles of 115 kV Line 36 from Black Branch to Jones Store with 768.2 ACSS 250 C. Project Type : FAC Cost : \$4,470,000 Time Estimate : 30-36 Months	\$4,470,000

ID	Idx	Facility	Upgrade Description	Cost
169071740,169071741	34	6CAROLNA 230.0 kV - 6ROA VAL 230.0 kV Ckt 1	<u>DVP</u> dom-107 (1631) : Rebuild 4.06 miles of 230 kV Line 2060 from Carolina to Roanoke Valley with 2-636 ACSR. Project Type : FAC Cost : \$10,150,000 Time Estimate : 30-36 Months	\$10,150,000
169290550	82	AG1-098 TAP 230.0 kV - 6CLOVER 230.0 kV Ckt 1	<u>DVP</u> dom-343 (1901) : Rebuild 6.534 miles of 230 kV Line 235 from Clover to AG1-098 with 2-795 ACSR 150 C. Replace Relay (Secondary CT) at Clover terminal Project Type : FAC Cost : \$16,455,000 Time Estimate : 36-40 Months	\$16,455,000
167011406	49	3BARNES J 115.0 kV - 3MT LREL 115.0 kV Ckt 1	<u>DVP</u> dom-334 (1892) : Reconductor 7.69 miles of 115 kV Line 33 from Barnes Junction D.P. to Mt. Laurel with 768.2 ACSS 250 C Project Type : FAC Cost : \$4,614,000 Time Estimate : 30-36 Months	\$4,614,000
170087418,170087417,170087416	81	AG1-027 TAP 115.0 kV - 3SUFFOLK 115.0 kV Ckt 1	<u>DVP</u> dom-411 (1969) : Reconductor 6.45 miles of 115 kV Line 68 from AG1-027 Tap to Suffolk with 786.2 ACSS 250 C. Replace Wave Trap at Suffolk terminal. Project Type : FAC Cost : \$4,020,000 Time Estimate : 36-40 Months	\$4,020,000
163937932,163937933	17	6HATHAWAY 230.0 kV - 6ROCKYMT230T 230.0 kV Ckt 1	<u>DVP</u> n6441 (1505) : For DEV portion, rebuild 4.13 miles of 230 kV Line 2058 from Hathaway to Rocky Mountain with 2-636 ACSR. Project Type : FAC Cost : \$10,325,000 Time Estimate : 30-36 Months	\$10,325,000
168582427,168582429	12	3CHESTNUT 115.0 kV - 3WITAKRS 115.0 kV Ckt 1	<u>DVP</u> dom-268 (1826) : 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

ID	Idx	Facility	Upgrade Description	Cost
169071770	3	6TRWBRDG 230.0 kV - 6PLYMOTH 230.0 kV Ckt 1	<u>DVP</u> dom-321 (1879) : Rebuild 1.67 miles of 230 kV Line 2126 from Plymouth to Trowbridge with 2-636 ACSR 150 C. Replace Line Switch at Plymoth terminal. Project Type : FAC Cost : \$2,755,000 Time Estimate : 30-36 Months	\$2,755,000
168582417,168 582418	18	3CONSLDL 115.0 kV - 3BTLEBRO 115.0 kV Ckt 1	<u>DVP</u> dom-201 (1759) : Reconductor 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 dom-275 (1833) : Reconductor 3.98 miles of 115 kV Line 1001 from Consolidated DSL to Battleboro with 636 ACSR. Replace Breaker Lead at Battleboro Project Type : FAC Cost : \$2,388,000 Time Estimate : 30-36 Months	\$4,776,000
169071775,169 071776	44	6LAKEVEW 230.0 kV - 6HORNRTN 230.0 kV Ckt 1	<u>DVP</u> dom-062 (1575) : 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
163937925,163 937920	45	6NASH 230.0 kV - 6PA- RMOUNT#4 230.0 kV Ckt 1	<u>DVP</u> n6444 (1508) : For DEV portion, rebuild 3.3 miles of 230 kV Line 2181 from Nash to Parmount with 2-636 ACSR. Project Type : FAC Cost : \$8,250,000 Time Estimate : 30-36 Months	\$8,250,000

ID	Idx	Facility	Upgrade Description	Cost
163938556	31	3BTLEBRO 115.0 kV - 3ROCKYMT115T 115.0 kV Ckt 1	<u>DVP</u> dom-007 (1179) : Build new 500 kV line between Everetts and Suffolk. Project Type : CON Cost : \$570,000,000 Time Estimate : 48-60 Months <u>DEP</u> The external (i.e. Non-PJM) Transmission Owner, DEP, will not evaluate this violation until the impact study phase. Scope: Reconductor the circuit to 1590 ACSR will bring the rating to 185/205/214 MVA. Upgrading the terminal equipment at Rocky Mount will bring the rating to 301/301/301 MVA (Limited by 1590 ACSR conductor). Project Type: FAC Cost: TBD Time Estimate: 36 Months Note 1: Mitigations have been identified to achieve a DEP end rating of 301/301/301 MVA. However, no queue customer has yet officially agreed to construct the upgrade. Therefore, no construction plans have been put in place to date. Note 2: PJM is coordinating with Duke Energy Progress (DEP) and Dominion Energy (DVP) to evaluate remedies to alleviate the higher loading seen in the AG1 study on the Battleboro to Rocky Mountain 115 kV line. Reinforcements for the PJM queue project driving the need for this upgrade have been scoped while the best solution for the loading seen in AG1 is still being evaluated by both DEP and DVP.	\$570,000,000
168888732	1	3HOLLAND 115.0 kV - 3COPELD DP 115.0 kV Ckt 1	<u>DVP</u> dom-309 (1867) : Replace Line Switch at Holland terminal Project Type : FAC Cost : \$200,000 Time Estimate : 12-18 Months	\$200,000
169290431,169290428,169290429	58	6FARMVIL 230.0 kV - 6BUCKING 230.0 kV Ckt 1	<u>DVP</u> n6245 (1543) : Rebuild 12.76 miles of 230 kV Line 298 from Buckingham to Farmville with 2-636 ACSR. Project Type : FAC Cost : \$19,140,000 Time Estimate : 30-36 Months dom-346 (1904) : Rebuild 12.76 miles of 230 kV Line 298 from Buckingham to Farmville with 2-768.2 ACSS 250 C. Replace Line Lead, Line Switch, Relay (CT), Wave trap at Farmville terminal Project Type : FAC Cost : \$19,710,000 Time Estimate : 36-40 Months	\$38,850,000

ID	Idx	Facility	Upgrade Description	Cost
168582247	63	3LONEPN 115.0 kV - 3FLAT CREEK 115.0 kV Ckt 1	<u>DVP</u> dom-271 (1829) : Rebuild 70 miles of 115 kV lines (158, 84, 154, 1012) from Chase City to Lone Pine with 2-636 ACSR 150 C. Line 84: - Willis Mountain terminal: Replace Line Switch - Farmville terminal: Replace Breaker Switch, Breaker Lead, Line Lead, Wave Trap - Pamplin terminal: Replace Wave Trap, Line Lead and Relay (Secondary CT) Line 154: - Twittys Creek terminal: Replace Wave Trap and Line Lead - Madisonville terminal: Replace Line Switch - Pamplin terminal: Replace Wave Trap and Line Lead Line 158: - Farmville terminal: Replace Breaker Switch, Breaker Lead - Moran DP terminal: Replace Line Switch - Lone Pine terminal: Replace Wave Trap Line 1012: - Chase City terminal: Replace Breaker, Breaker switch, Breaker Lead and Wave Trap - Central terminal: Replace Line Switch - Twitty's Creek terminal: Replace Wave Trap Project Type : FAC Cost : \$109,470,000 Time Estimate : 60-72 Months	\$109,470,000
168582252	15	3FLAT CREEK 115.0 kV - 3MORAN 115.0 kV Ckt 1		
169290446	66	3MORAN 115.0 kV - 3FARMVIL 115.0 kV Ckt 1		
163418020,163418021,169812098,169812099,169812100	78	AE2-033 TAP 230.0 kV - 6SAPONY 230.0 kV Ckt 1	<u>DVP</u> dom-050 (1561) : 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 n6452 (1562) : Rebuild 2.47 miles of 230 kV Line 238 from AE2-033 TAP to Sapony with 2-795 150C ACSR. Project Type : FAC Cost : \$3,705,000 Time Estimate : 30-36 Months dom-401 (1959) : Rebuild 2.47 miles of 230 kV Line 238 from AE2-033 Tap to Sapony with 2-768.2 ACSS 250 C. Replace Line Switch and Line Lead at Sapony terminal. Project Type : FAC Cost : \$3,955,000 Time Estimate : 30-36 Months	\$7,660,000
169071668,169071667	33	6CAROLNA 230.0 kV - 6LAKEVEW 230.0 kV Ckt 1	<u>DVP</u> dom-220 (1778) : 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

ID	Idx	Facility	Upgrade Description	Cost
168888700,168888698	28	6POE 230.0 kV - 6HARROWG 230.0 kV Ckt 1	<u>DVP</u> n6179 (1745) : Rebuild 12.3 miles of 230 kV Line 2003 from Poe to Harrowgate with 2-636 ACSR. Project Type : FAC Cost : \$30,750,000 Time Estimate : 30-36 Months	\$30,750,000
169504787,169504788	68	6MTEAGLE 230.0 kV - 6CHARLVL 230.0 kV Ckt 1	<u>DVP</u> n6184 (1747) : Rebuild 6.47 miles of 230 kV Line 2028 from Mt Eagle to Charlottesville with 2-636 ACSR. Project Type : FAC Cost : \$16,175,000 Time Estimate : 30-36 Months dom-369 (1927) : Rebuild 6.47 miles of 230 kV Line 2028 from Mt Eagle to Charlottesville with 2-768.2 ACSS 250 C. Replace Wave Trap at Charlottesville terminal Project Type : FAC Cost : \$16,375,000 Time Estimate : 36-40 Months	\$32,550,000
168582392,168582391	74	AD1-057 TAP 230.0 kV - 6HATHAWAY 230.0 kV Ckt 1	<u>DVP</u> n6223 (1753) : Rebuild 12.8 miles of 230 KV Line 2056 from AD1-057 Tap to Hathaway with 2-636 ACSR. Project Type : FAC Cost : \$19,200,000 Time Estimate : 30-36 Months	\$19,200,000
167011400	21	3CHASCTY2 115.0 kV - 3BARNES J 115.0 kV Ckt 1	<u>DVP</u> dom-295 (1853) : Rebuild 7.46 mi miles of 115 kV Line 33 from Chase City to Barnes Junction with 2-636 ACSR 150 C Project Type : FAC Cost : \$11,190,000 Time Estimate : 30-36 Months	\$11,190,000
167011371,167011370	71	3BURLING 115.0 kV - 3BUGGS I 115.0 kV Ckt 1	<u>DVP</u> dom-377 (1935) : Reconductor 1.31 miles of 115 kV Line 36 from Burlington Drive to Buggs Island with 768.2 ACSS 250 C. Replace Line Lead at Buggs Island terminal Project Type : FAC Cost : \$786,000 Time Estimate : 30-36 Months	\$786,000

ID	Idx	Facility	Upgrade Description	Cost
169290449,169 290452,169290 450	50	6BUCKING 230.0 kV - 6BREMO 230.0 kV Ckt 1	<u>DVP</u> n6219 (1541) : Rebuild 15.51 miles of 230 kV Line 298 from Buckingham to Bremono with 2-636 ACSR. Project Type : FAC Cost : \$23,265,000 Time Estimate : 30-36 Months dom-337 (1895) : Rebuild 15.51 miles of 230 kV Line 298 from Buckingham to Bremono with 2-768.2 ACSS 250 C. Replace Breaker, Breaker Switch, Breaker Lead, Wave Trap, Relay (Secondary CT), Relay Trip at Bremono terminal. Replace Line Switch at Buckingham terminal Project Type : FAC Cost : \$25,285,000 Time Estimate : 36-40 Months	\$48,550,000
167011383	55	3MT LREL 115.0 kV - AC1-105 TAP 115.0 kV Ckt 1	<u>DVP</u> dom-341 (1899) : Rebuild 10.76 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
167011305,169 504833,169504 832	72	AC1-105 TAP 115.0 kV - 3SEEDGE HILL 115.0 kV Ckt 1		
168888749,168 888751	27	6LOCKS 230.0 kV - 6HARR205 230.0 kV Ckt 1	<u>DVP</u> dom-165 (1675) : Upgrade 5.4 miles of 230 kV Line 205 from Locks to Harrowgate with 1033.5 ACSR. Upgrade Relays at Locks. Project Type : FAC Cost : \$2,280,000 Time Estimate : 30-36 Months	\$2,280,000
168888927	23	6CARSON 230.0 kV - 6POE 230.0 kV Ckt 1	<u>DVP</u> dom-120 (1644) : Rebuild 12.68 miles of 230 kV Line 2002 from Carson to Poe with 2-636 ACSR. Project Type : FAC Cost : \$31,700,000 Time Estimate : 30-36 Months	\$31,700,000
169290407,169 290410	56	3FARMVIL 115.0 kV - 6FARMVIL 230.0 kV Ckt 2	<u>DVP</u> dom-089 (1606) : Add additional 230/115 kV transformer at Farmville substation Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169290418	57	3FARMVIL 115.0 kV - 6FARMVIL 230.0 kV Ckt 1		

ID	Idx	Facility	Upgrade Description	Cost
169071696,169071697	42	6HORNRTN 230.0 kV - AD1-057 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-077 (1593) : Rebuild 16 miles of 230 kV Line 2056 from Hornertown to AD1-057 TAP with 2-636 ACSR. Project Type : FAC Cost : \$24,000,000 Time Estimate : 36-40 Months	\$24,000,000
170087410,170087409	83	J1180 TAP 345.0 kV - 6MTEAGLE 230.0 kV Ckt 1	<u>DVP</u> dom-421 (1979) : Rebuild 6.5 miles of 230 kV Line 2028 from AG1-550 Tap to Mt Eagle with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$16,250,000 Time Estimate : 30-36 Months	\$16,250,000
167011368,167011369	51	3CHASCTY 115.0 kV - 3BLACKBR 115.0 kV Ckt 1	<u>DVP</u> dom-339 (1897) : Reconductor 2.47 miles of 115 kV Line 36 from Chase City to Black Branch with 768.2 ACSS 250 Project Type : FAC Cost : \$1,482,000 Time Estimate : 30-36 Months	\$1,482,000
168888760,168888759	46	6ROA VAL 230.0 kV - 6NORTHAMPTO N 230.0 kV Ckt 1	<u>DVP</u> dom-106 (1630) : Rebuild 2.87 miles of 230 kV Line 2012 from Roanoke Valley to Northampton with 2-636 ACSR. Project Type : FAC Cost : \$7,175,000 Time Estimate : 30-36 Months	\$7,175,000
169290479,169290480,169290477	59	3SEEDGE HILL 115.0 kV - 6SEEDGE HILL 230.0 kV Ckt 1	<u>DVP</u> dom-046 (1556) : Add additional 230/115 kV transformer at Sedge Hill substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169290493,169290495	60	3SEEDGE HILL 115.0 kV - 6SEEDGE HILL 230.0 kV Ckt 2		
163417966,168582276,16858277,163417965,163417695,163417696	13	6DRY BREAD 230.0 kV - 6CLUBHSE 230.0 kV Ckt 1	<u>DVP</u> dom-270 (1828) : 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
168888796,168888795	20	6NORTHAMPTO N 230.0 kV - AD2-051 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-211 (1769) : Rebuild 33.7 miles of 230 kV Line 2032 from Northampton to Earleys with 2-636 ACSR. Project Type : FAC Cost : \$50,550,000 Time Estimate : 48-60 Months	\$50,550,000

ID	Idx	Facility	Upgrade Description	Cost
163937903,163 937902,163937 691,163937690, 163937689	64	3KERR 115.0 kV - 3GW KING TAP 115.0 kV Ckt 1	<u>DVP</u> n6115 (1503) : For DEV portion, rebuild 4.7 miles of 115 kV Line 45 from Kerr Dam to GW King Tap with 768 ACSS. Project Type : FAC Cost : \$6,123,000 Time Estimate : 30-36 Months dom-351 (1909) : For DEV portion, rebuild 4.7 miles of 115 kV Line 45 from Kerr Dam to GW King Tap with 2-768 ACSS. Project Type : FAC Cost : \$7,041,450 Time Estimate : 30-36 Months	\$13,164,450
168888825,168 888822	26	6HARR205 230.0 kV - 6TYLER 230.0 kV Ckt 1	<u>DVP</u> dom-163 (1672) : Reconductor 0.64 miles of 230 kV Line 205 from Harrowgate to Tyler with 1033.5 ACSR. Uprate 4.09 miles of 230 kV Line 205 from Harrowgate to Tyler. Project Type : FAC Cost : \$2,148,000 Time Estimate : 30-36 Months n6328 (1673) : Reconductor 0.64 miles of 230 kV Line 205 from Harrowgate to Tyler with 1033.5 ACSR. Uprate 4.09 miles of 230 kV Line 205 from Harrowgate to Tyler. Project Type : FAC Cost : \$2,148,000 Time Estimate : 30-36 Months	\$2,148,000
167011348	62	3ISLND C 115.0 kV - 3KERRDP 115.0 kV Ckt 1	<u>DVP</u> dom-349 (1907) : Reconductor 2.19 miles of 115 kV Line 193 from Island Creek D.P. to Kerr D.P. with 636 ACSR 150 C Project Type : FAC Cost : \$1,314,000 Time Estimate : 30-36 Months	\$1,314,000
168888688,168 888686,168888 687	30	3FRNKLN 115.0 kV - 3UNCAMP 115.0 kV Ckt 1	<u>DVP</u> dom-308 (1866) : 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
167011353,167 011352	70	3JONESTO 115.0 kV - 3CLRKVILLE 115.0 kV Ckt 1	<u>DVP</u> dom-372 (1930) : Reconductor 7.56 miles of 115 kV Line 36 from Jones Store to Clarksville with 768.2 ACSS 250 C. Project Type : FAC Cost : \$4,536,000 Time Estimate : 30-36 Months	\$4,536,000

ID	Idx	Facility	Upgrade Description	Cost
169812116,169 812115	77	AE1-103 TAP 115.0 kV - 3HOLLAND 115.0 kV Ckt 1	<u>DVP</u> dom-396 (1954) : Reconductor 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
168888806,168 888807,168888 805	2	3S HAMPT 115.0 kV - 3WATKINS 115.0 kV Ckt 1	<u>DVP</u> dom-310 (1868) : Reconductor 0.76 miles of 115 kV Line 93 from South Hampton to Watkins with 768.2 ACSS 250 C. Replace Line Switch at Watkins terminal Project Type : FAC Cost : \$656,000 Time Estimate : 30-36 Months	\$656,000
163937857,163 937856	73	AC1-221 TAP 230.0 kV - 6PERSON230 T 230.0 kV Ckt 1	<u>DVP</u> n6449 (1350) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-636 ACSR. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months dom-259 (1657) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-795 ACSR. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months dom-387 (1785) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-768.2 ACSS 250 C. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months <u>CPL</u> The external (i.e. Non-PJM) Transmission Owner, CPLE, will not evaluate this violation until the impact study phase.	\$9,000,000
167011366,167 011367	54	3CLRKVILLE 115.0 kV - 3BURLING 115.0 kV Ckt 1	<u>DVP</u> dom-340 (1898) : Reconductor 2.58 miles of 115 kV Line 36 from Clarksville to Burlington DP with 768.2 ACSS 250 Project Type : FAC Cost : \$1,548,000 Time Estimate : 30-36 Months	\$1,548,000

ID	Idx	Facility	Upgrade Description	Cost
168582312,168582311	11	6FORK UNION 230.0 kV - AF2-397 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-198 (1756) : Rebuild 5 miles of 230 kV Line 2028 from Fork Union to AF2-397 Tap with 2-636 ACSR. Project Type : FAC Cost : \$7,500,000 Time Estimate : 30-36 Months dom-265 (1823) : Rebuild 5 miles of 230 kV Line 2028 from Fork Union to AF2-397 Tap with 2-795 ACSR 150 C. Project Type : FAC Cost : \$12,500,000 Time Estimate : 36-42 Months	\$20,000,000
169504798,169504800,169504797	67	6BREMO 230.0 kV - 6BREMODIST 230.0 kV Ckt 1	<u>DVP</u> n5873 (1709) : Rebuild 0.16 miles of Line 2028 from Bremono to Bremono Dist with 2-636 ACSR. Project Type : FAC Cost : \$500,000 Time Estimate : 30-36 Months dom-363 (1921) : Rebuild 0.16 miles of Line 2028 from Bremono to Bremono Dist with 2-795 ACSR 150 C. Replace Breaker, Breaker Switch, Breaker Lead, Line Lead at Bremono terminal Project Type : FAC Cost : \$1,690,000 Time Estimate : 30-36 Months	\$2,190,000
169290456,169290455	61	6SEDGE HILL 230.0 kV - AC1-221 TAP 230.0 kV Ckt 1	<u>DVP</u> No upgrade needed on Dominion system. Need coordination with CPLE. <u>CPLE</u> The external (i.e. Non-PJM) Transmission Owner, CPLE, will not evaluate this violation until the impact study phase.	\$0
163417781,163418040,163418041,169071681,169071680,169071682	36	6CLUBHSE 230.0 kV - AE2-033 TAP 230.0 kV Ckt 1	<u>DVP</u> n6872 (1558) : Rebuild 14.28 miles of 230 kV Line 238 from Clubhouse to AE2-033 Tap with 2-795 150C ACSR. Project Type : FAC Cost : \$21,420,000 Time Estimate : 30-36 Months	\$21,420,000
167011419	6	3ISLND C 115.0 kV - 3CLRK TAP 115.0 kV Ckt 1	<u>DVP</u> dom-350 (1908) : Reconnector 5.52 miles of 115 kV Line 193 from Island Creek D.P. to Clarksville D.P. with 636 ACSR 150 C. Project Type : FAC Cost : \$3,312,000 Time Estimate : 30-36 Months	\$3,312,000

ID	Idx	Facility	Upgrade Description	Cost
170087400,170087399	80	AF2-397 TAP 230.0 kV - J1180 TAP 345.0 kV Ckt 1	<u>DVP</u> dom-409 (1635) : Rebuild 5.6 miles of 230 kV Line 2028 from AG1-550 Tap to AF2-397 Tap with 2-636 ACSR 150 C. Project Type : FAC Cost : \$14,000,000 Time Estimate : 36-40 Months	\$14,000,000
163938559	40	6EVERETS 230.0 kV - 6GREENVILE T 230.0 kV Ckt 1	<u>DVP</u> dom-173 (1683) : Rebuild 20.32 miles of 230 kV Line 218 from Everetts to Greenville with 2-636 ACSR Project Type : FAC Cost : \$30,480,000 Time Estimate : 30-36 Months	\$30,480,000
169071583,169071581	35	3CLUBHSE 115.0 kV - 6CLUBHSE 230.0 kV Ckt 1	<u>DVP</u> n6114 (1715) : Add additional 230/115 kV transformer at Clubhouse substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169071564,169071566,169071563	41	6NUCO TP 230.0 kV - AF2-076 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-317 (1875) : Rebuild 26.63 miles of 230 kV Line 246 from Nucor Tap to AF2-076 Tap with 2-768.2 ACSR 250 C. Replace Line Switch at Nucor Tap terminal. Project Type : FAC Cost : \$40,195,000 Time Estimate : 36-40 Months	\$40,195,000
168888702,168888704	25	6HARROWG 230.0 kV - 6TYLER1 230.0 kV Ckt 1	<u>DVP</u> n6178 (1744) : Rebuild 4.5 miles of 230 kV Line 2003 from Harrowgate to Tyler with 2-636 ACSR. Project Type : FAC Cost : \$11,250,000 Time Estimate : 30-36 Months	\$11,250,000
168582464,168582466	16	3PLYWOOD 115.0 kV - 3SEGE HILL 115.0 kV Ckt 1	<u>DVP</u> dom-273 (1831) : 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
			TOTAL COST	\$1,495,926,450

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
168888732	314527	3HOLLAND	DVP	313737	3COPELD DP	DVP	1	DVP_P1-2: LN 136	single	269.78	98.88	101.4	DC	6.81

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
CPLE	CPLE	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

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
168888805	314534	3S HAMPT	DVP	314541	3WATKINS	DVP	1	DVP_P1-2: LN 136	single	269.78	111.63	114.16	DC	6.81

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
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	-0.8220	Adder	-0.97
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
CPLE	CPLE	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

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
169071770	314616	6TRWBRDG	DVP	314594	6PLYMOTH	DVP	1	DVP_P1-2: LN 246-B	single	789.6	99.3	100.29	DC	7.78

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.4752	80/20	3.4752
313719	3CHESTNUT	0.8151	80/20	0.8151
314572	3EMPORIA	0.1885	80/20	0.1885
314582	3KELFORD	0.3847	80/20	0.3847
314589	3MURPHYS	0.0606	80/20	0.0606
314623	3WITAKRS	0.1468	80/20	0.1468
314704	3LAWRENC	0.1075	80/20	0.1075
315126	1ROARAP2	0.8327	80/20	0.8327
315128	1ROARAP4	0.7946	80/20	0.7946
315131	1EDGECEMA (Deactivation : 22/04/2019)	6.2849	80/20	6.2849
315132	1EDGECEMB (Deactivation : 22/04/2019)	6.2849	80/20	6.2849
315136	1ROSEMG1	1.3976	80/20	1.3976
315137	1ROSEMS1	0.8667	80/20	0.8667
315138	1ROSEMG2	0.6550	80/20	0.6550
315139	1GASTONA	2.0277	80/20	2.0277
315141	1GASTONB	2.0277	80/20	2.0277
315158	1KERR 1	0.1284	80/20	0.1284
315159	1KERR 2	0.3595	80/20	0.3595

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315160	1KERR 3	0.3595	80/20	0.3595
315161	1KERR 4	0.3595	80/20	0.3595
315162	1KERR 5	0.3595	80/20	0.3595
315163	1KERR 6	0.3595	80/20	0.3595
315164	1KERR 7	0.3595	80/20	0.3595
315292	1DOMTR78	3.0489	80/20	3.0489
315293	1DOMTR9	15.7692	80/20	15.7692
315294	1DOMTR10	19.3250	80/20	19.3250
315601	1CONETOE2SOL	1.2470	80/20	1.2470
315602	1HOLLOMANSOL	2.0352	80/20	2.0352
315606	3AA2-053SOLA	1.0580	80/20	1.0580
315607	3AA1-063SOLA	0.7676	80/20	0.7676
315608	3AA2-088SOLA	0.4520	80/20	0.4520
316020	AB2-059 C OP	1.1041	80/20	1.1041
316087	AB2-174 C	0.5444	80/20	0.5444
316096	AB2-100 C1	0.3709	80/20	0.3709
316098	AB2-100 C2	0.3709	80/20	0.3709
316129	AC1-054 C	3.4136	80/20	3.4136
316140	AB2-099 C (Suspended)	0.6361	80/20	0.6361
920591	AA2-165 C	0.1094	80/20	0.1094
922922	AB1-081 C OP	0.9368	80/20	0.9368
923991	AB2-040 C O1	3.7849	80/20	3.7849
925121	AB2-169 C	1.9670	80/20	1.9670
925591	AC1-034 C	4.5328	80/20	4.5328
926070	AC1-086 C	14.4531	80/20	14.4531
926201	AC1-098 C	5.2234	80/20	5.2234
926211	AC1-099 C	1.7504	80/20	1.7504
927024	AC1-189 C	8.6823	80/20	8.6823
927145	AC1-208 C	6.6740	80/20	6.6740
932631	AC2-084 C	7.4461	80/20	7.4461
933991	AD1-023 C	30.3473	80/20	30.3473
934331	AD1-057 C O1	6.8270	80/20	6.8270
934521	AD1-076 C	142.2721	80/20	142.2721
936361	AD2-046 C O1	2.8414	80/20	2.8414
936401	AD2-051 C O1	12.4324	80/20	12.4324
938221	AE1-035 C	0.5089	80/20	0.5089
939181	AE1-148 C	2.7729	80/20	2.7729
940571	AE2-044 C	2.9688	80/20	2.9688
940661	AE2-053 O1	1.0270	80/20	1.0270
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.2076	80/20	0.2076
942471	AE2-260 C O1	5.3217	80/20	5.3217
943171	AE2-346 C	1.5265	80/20	1.5265
943911	AF1-059	5.3370	80/20	5.3370
944141	AF1-082	1.9085	80/20	1.9085
946281	AF1-292 C	0.6336	80/20	0.6336
957521	AF2-046 C	13.0429	80/20	13.0429
957861	AF2-080 C	7.8856	80/20	7.8856
959511	AF2-242 C	12.3745	80/20	12.3745
960081	AF2-299 C	1.0679	80/20	1.0679
961671	AG1-007 C	1.0673	80/20	1.0673
961681	AG1-008 C	13.0690	80/20	13.0690
961931	AG1-036 C	1.2783	80/20	1.2783

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961941	AG1-037 C	0.5452	80/20	0.5452
962331	AG1-082 C	2.1808	80/20	2.1808
962341	AG1-083 C	2.1808	80/20	2.1808
962351	AG1-084 C	2.1252	80/20	2.1252
962361	AG1-085 C	2.1252	80/20	2.1252
962571	AG1-106 C	4.0193	80/20	4.0193
963301	AG1-179 C	1.9954	80/20	1.9954
963311	AG1-180	0.9722	80/20	0.9722
964491	AG1-312 C O1	29.2197	80/20	29.2197
964501	AG1-313 C O1	3.9236	80/20	3.9236
964801	AG1-343 C	3.0699	80/20	3.0699
965291	AG1-394 C	0.9749	80/20	0.9749
965451	AG1-413 C O1	2.2435	80/20	2.2435
965601	AG1-428 C O1	1.6658	80/20	1.6658
965691	AG1-437 C O1	20.9082	80/20	20.9082
965701	AG1-438 C O1	20.9082	80/20	20.9082
965711	AG1-439 C O1	22.3695	80/20	22.3695
965721	AG1-440 C	2.8112	80/20	2.8112
965731	AG1-441 C	2.8112	80/20	2.8112
965741	AG1-442 O1	12.1965	80/20	12.1965
965751	AG1-443 O1	12.1965	80/20	12.1965
965761	AG1-444 O1	11.9304	80/20	11.9304
965771	AG1-445	1.6242	80/20	1.6242
965781	AG1-446	1.6242	80/20	1.6242
966621	AG1-532 C	0.5766	80/20	0.5766
966751	AG1-546 C	7.7793	80/20	7.7793
966801	AG1-551 C	3.2918	80/20	3.2918
966811	AG1-552 C	1.3221	80/20	1.3221
WEC	WEC	0.2470	Confirmed LTF	0.2470
LGEE	LGEE	0.5026	Confirmed LTF	0.5026
CPL	CPL	2.6795	Confirmed LTF	2.6795
CBM-W2	CBM-W2	10.3309	Confirmed LTF	10.3309
NY	NY	0.1913	Confirmed LTF	0.1913
TVA	TVA	1.9138	Confirmed LTF	1.9138
SIGE	SIGE	0.1337	Confirmed LTF	0.1337
CBM-S2	CBM-S2	29.0650	Confirmed LTF	29.0650
CBM-S1	CBM-S1	0.4803	Confirmed LTF	0.4803
MEC	MEC	1.4476	Confirmed LTF	1.4476
LAGN	LAGN	2.3888	Confirmed LTF	2.3888
AA2-074	AA2-074	1.7703	LTF	1.7703
CBM-W1	CBM-W1	10.4589	Confirmed LTF	10.4589

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
167011404	313705	3KERRDP	DVP	314699	3ISLND C	DVP	1	DVP_P7-1: LN 38-137-A	tower	202.0	98.28	111.15	DC	26.0

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	-0.2999	Adder	-0.35
315158	1KERR 1	0.6709	50/50	0.6709
315159	1KERR 2	1.8784	50/50	1.8784
315160	1KERR 3	1.8784	50/50	1.8784
315161	1KERR 4	1.8784	50/50	1.8784
315162	1KERR 5	1.8784	50/50	1.8784
315163	1KERR 6	1.8784	50/50	1.8784
315164	1KERR 7	1.8784	50/50	1.8784
316129	AC1-054 C	8.2881	50/50	8.2881
918492	AA1-063AE OP	1.0896	Adder	1.28
919692	AA2-053 E OP	1.0939	Adder	1.29
925785	AC1-054 E	3.8181	50/50	3.8181
927261	AC1-222 C	-1.2514	Adder	-1.47
934311	AD1-055 C	-0.8689	Adder	-1.02
936361	AD2-046 C O1	15.5347	50/50	15.5347
936362	AD2-046 E O1	7.1437	50/50	7.1437
943901	AF1-058 C	-0.7075	Adder	-0.83
943912	AF1-059 BAT	7.5402	Merchant Transmission	7.5402
962443	AG1-093 BAT	2.2337	Merchant Transmission	2.2337
963312	AG1-180 BAT	0.8012	Merchant Transmission	0.8012
963362	AG1-185 BAT	10.5444	50/50	10.5444
963643	AG1-215 BAT	0.6545	Merchant Transmission	0.6545
964113	AG1-272 BAT	2.2590	50/50	2.2590
964123	AG1-273 BAT	2.2590	50/50	2.2590
964133	AG1-274 BAT	2.2590	50/50	2.2590
964793	AG1-342 BAT	0.4741	Merchant Transmission	0.4741
965193	AG1-384 BAT	0.9680	50/50	0.9680
965721	AG1-440 C	11.1569	50/50	11.1569
965722	AG1-440 E	7.4379	50/50	7.4379
965731	AG1-441 C	11.1569	50/50	11.1569
965732	AG1-441 E	7.4379	50/50	7.4379
965771	AG1-445	6.4462	50/50	6.4462
965781	AG1-446	6.4462	50/50	6.4462
965832	AG1-451 BAT	0.5891	Merchant Transmission	0.5891
966751	AG1-546 C	16.9234	50/50	16.9234
966752	AG1-546 E	9.0806	50/50	9.0806
966811	AG1-552 C	0.3634	Adder	0.81
966812	AG1-552 E	0.1557	Adder	0.35
WEC	WEC	0.0129	Confirmed LTF	0.0129
LGEE	LGEE	0.0232	Confirmed LTF	0.0232
CPLE	CPLE	0.5283	Confirmed LTF	0.5283

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W2	CBM-W2	1.0304	Confirmed LTF	1.0304
NY	NY	0.0359	Confirmed LTF	0.0359
TVA	TVA	0.2184	Confirmed LTF	0.2184
O-066	O-066	0.4644	Confirmed LTF	0.4644
SIGE	SIGE	0.0124	Confirmed LTF	0.0124
CBM-S2	CBM-S2	5.1574	Confirmed LTF	5.1574
CBM-S1	CBM-S1	0.0513	Confirmed LTF	0.0513
G-007	G-007	0.0725	Confirmed LTF	0.0725
MEC	MEC	0.1049	Confirmed LTF	0.1049
LAGN	LAGN	0.2800	Confirmed LTF	0.2800
CBM-W1	CBM-W1	0.5047	Confirmed LTF	0.5047

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
167011431	314665	3CLRK TAP	DVP	314682	3BUGGS I	DVP	1	DVP_P7-1: LN 38-137-A	tower	208.0	94.14	106.64	DC	26.0

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	-0.2999	Adder	-0.35
315158	1KERR 1	0.6709	50/50	0.6709
315159	1KERR 2	1.8784	50/50	1.8784
315160	1KERR 3	1.8784	50/50	1.8784
315161	1KERR 4	1.8784	50/50	1.8784
315162	1KERR 5	1.8784	50/50	1.8784
315163	1KERR 6	1.8784	50/50	1.8784
315164	1KERR 7	1.8784	50/50	1.8784
316129	AC1-054 C	8.2881	50/50	8.2881
918492	AA1-063AE OP	1.0896	Adder	1.28
919692	AA2-053 E OP	1.0939	Adder	1.29
925785	AC1-054 E	3.8181	50/50	3.8181
927261	AC1-222 C	-1.2514	Adder	-1.47
934311	AD1-055 C	-0.8689	Adder	-1.02
936361	AD2-046 C O1	15.5347	50/50	15.5347
936362	AD2-046 E O1	7.1437	50/50	7.1437
943901	AF1-058 C	-0.7075	Adder	-0.83
943912	AF1-059 BAT	7.5402	Merchant Transmission	7.5402
962443	AG1-093 BAT	2.2337	Merchant Transmission	2.2337
963312	AG1-180 BAT	0.8012	Merchant Transmission	0.8012
963362	AG1-185 BAT	10.5444	50/50	10.5444
963643	AG1-215 BAT	0.6545	Merchant Transmission	0.6545
964113	AG1-272 BAT	2.2590	50/50	2.2590
964123	AG1-273 BAT	2.2590	50/50	2.2590
964133	AG1-274 BAT	2.2590	50/50	2.2590
964793	AG1-342 BAT	0.4741	Merchant Transmission	0.4741
965193	AG1-384 BAT	0.9680	50/50	0.9680

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	11.1569	50/50	11.1569
965722	AG1-440 E	7.4379	50/50	7.4379
965731	AG1-441 C	11.1569	50/50	11.1569
965732	AG1-441 E	7.4379	50/50	7.4379
965771	AG1-445	6.4462	50/50	6.4462
965781	AG1-446	6.4462	50/50	6.4462
965832	AG1-451 BAT	0.5891	Merchant Transmission	0.5891
966751	AG1-546 C	16.9234	50/50	16.9234
966752	AG1-546 E	9.0806	50/50	9.0806
966811	AG1-552 C	0.3634	Adder	0.81
966812	AG1-552 E	0.1557	Adder	0.35
WEC	WEC	0.0129	Confirmed LTF	0.0129
LGEE	LGEE	0.0232	Confirmed LTF	0.0232
CPLE	CPLE	0.5283	Confirmed LTF	0.5283
CBM-W2	CBM-W2	1.0304	Confirmed LTF	1.0304
NY	NY	0.0359	Confirmed LTF	0.0359
TVA	TVA	0.2184	Confirmed LTF	0.2184
O-066	O-066	0.4644	Confirmed LTF	0.4644
SIGE	SIGE	0.0124	Confirmed LTF	0.0124
CBM-S2	CBM-S2	5.1574	Confirmed LTF	5.1574
CBM-S1	CBM-S1	0.0513	Confirmed LTF	0.0513
G-007	G-007	0.0725	Confirmed LTF	0.0725
MEC	MEC	0.1049	Confirmed LTF	0.1049
LAGN	LAGN	0.2800	Confirmed LTF	0.2800
CBM-W1	CBM-W1	0.5047	Confirmed LTF	0.5047

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
167011419	314699	3ISLND C	DVP	314665	3CLRK TAP	DVP	1	DVP_P7-1: LN 38-137-A	tower	208.0	95.44	107.94	DC	26.0

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	-0.2999	Adder	-0.35
315158	1KERR 1	0.6709	50/50	0.6709
315159	1KERR 2	1.8784	50/50	1.8784
315160	1KERR 3	1.8784	50/50	1.8784
315161	1KERR 4	1.8784	50/50	1.8784
315162	1KERR 5	1.8784	50/50	1.8784
315163	1KERR 6	1.8784	50/50	1.8784
315164	1KERR 7	1.8784	50/50	1.8784
316129	AC1-054 C	8.2881	50/50	8.2881
918492	AA1-063AE OP	1.0896	Adder	1.28
919692	AA2-053 E OP	1.0939	Adder	1.29
925785	AC1-054 E	3.8181	50/50	3.8181
927261	AC1-222 C	-1.2514	Adder	-1.47

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934311	AD1-055 C	-0.8689	Adder	-1.02
936361	AD2-046 C O1	15.5347	50/50	15.5347
936362	AD2-046 E O1	7.1437	50/50	7.1437
943901	AF1-058 C	-0.7075	Adder	-0.83
943912	AF1-059 BAT	7.5402	Merchant Transmission	7.5402
962443	AG1-093 BAT	2.2337	Merchant Transmission	2.2337
963312	AG1-180 BAT	0.8012	Merchant Transmission	0.8012
963362	AG1-185 BAT	10.5444	50/50	10.5444
963643	AG1-215 BAT	0.6545	Merchant Transmission	0.6545
964113	AG1-272 BAT	2.2590	50/50	2.2590
964123	AG1-273 BAT	2.2590	50/50	2.2590
964133	AG1-274 BAT	2.2590	50/50	2.2590
964793	AG1-342 BAT	0.4741	Merchant Transmission	0.4741
965193	AG1-384 BAT	0.9680	50/50	0.9680
965721	AG1-440 C	11.1569	50/50	11.1569
965722	AG1-440 E	7.4379	50/50	7.4379
965731	AG1-441 C	11.1569	50/50	11.1569
965732	AG1-441 E	7.4379	50/50	7.4379
965771	AG1-445	6.4462	50/50	6.4462
965781	AG1-446	6.4462	50/50	6.4462
965832	AG1-451 BAT	0.5891	Merchant Transmission	0.5891
966751	AG1-546 C	16.9234	50/50	16.9234
966752	AG1-546 E	9.0806	50/50	9.0806
966811	AG1-552 C	0.3634	Adder	0.81
966812	AG1-552 E	0.1557	Adder	0.35
WEC	WEC	0.0129	Confirmed LTF	0.0129
LGEE	LGEE	0.0232	Confirmed LTF	0.0232
CPL	CPL	0.5283	Confirmed LTF	0.5283
CBM-W2	CBM-W2	1.0304	Confirmed LTF	1.0304
NY	NY	0.0359	Confirmed LTF	0.0359
TVA	TVA	0.2184	Confirmed LTF	0.2184
O-066	O-066	0.4644	Confirmed LTF	0.4644
SIGE	SIGE	0.0124	Confirmed LTF	0.0124
CBM-S2	CBM-S2	5.1574	Confirmed LTF	5.1574
CBM-S1	CBM-S1	0.0513	Confirmed LTF	0.0513
G-007	G-007	0.0725	Confirmed LTF	0.0725
MEC	MEC	0.1049	Confirmed LTF	0.1049
LAGN	LAGN	0.2800	Confirmed LTF	0.2800
CBM-W1	CBM-W1	0.5047	Confirmed LTF	0.5047

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
167011379	314702	3KERR	DVP	313705	3KERRDP	DVP	1	DVP_P7-1: LN 38-137-A	tower	195.0	102.78	116.11	DC	26.0

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	-0.2999	Adder	-0.35
315158	1KERR 1	0.6709	50/50	0.6709
315159	1KERR 2	1.8784	50/50	1.8784
315160	1KERR 3	1.8784	50/50	1.8784
315161	1KERR 4	1.8784	50/50	1.8784
315162	1KERR 5	1.8784	50/50	1.8784
315163	1KERR 6	1.8784	50/50	1.8784
315164	1KERR 7	1.8784	50/50	1.8784
316129	AC1-054 C	8.2881	50/50	8.2881
918492	AA1-063AE OP	1.0896	Adder	1.28
919692	AA2-053 E OP	1.0939	Adder	1.29
925785	AC1-054 E	3.8181	50/50	3.8181
927261	AC1-222 C	-1.2514	Adder	-1.47
934311	AD1-055 C	-0.8689	Adder	-1.02
936361	AD2-046 C O1	15.5347	50/50	15.5347
936362	AD2-046 E O1	7.1437	50/50	7.1437
943901	AF1-058 C	-0.7075	Adder	-0.83
943912	AF1-059 BAT	7.5402	Merchant Transmission	7.5402
962443	AG1-093 BAT	2.2337	Merchant Transmission	2.2337
963312	AG1-180 BAT	0.8012	Merchant Transmission	0.8012
963362	AG1-185 BAT	10.5444	50/50	10.5444
963643	AG1-215 BAT	0.6545	Merchant Transmission	0.6545
964113	AG1-272 BAT	2.2590	50/50	2.2590
964123	AG1-273 BAT	2.2590	50/50	2.2590
964133	AG1-274 BAT	2.2590	50/50	2.2590
964793	AG1-342 BAT	0.4741	Merchant Transmission	0.4741
965193	AG1-384 BAT	0.9680	50/50	0.9680
965721	AG1-440 C	11.1569	50/50	11.1569
965722	AG1-440 E	7.4379	50/50	7.4379
965731	AG1-441 C	11.1569	50/50	11.1569
965732	AG1-441 E	7.4379	50/50	7.4379
965771	AG1-445	6.4462	50/50	6.4462
965781	AG1-446	6.4462	50/50	6.4462
965832	AG1-451 BAT	0.5891	Merchant Transmission	0.5891
966751	AG1-546 C	16.9234	50/50	16.9234
966752	AG1-546 E	9.0806	50/50	9.0806
966811	AG1-552 C	0.3634	Adder	0.81
966812	AG1-552 E	0.1557	Adder	0.35
WEC	WEC	0.0129	Confirmed LTF	0.0129
LGEE	LGEE	0.0232	Confirmed LTF	0.0232
CPL	CPL	0.5283	Confirmed LTF	0.5283

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W2	CBM-W2	1.0304	Confirmed LTF	1.0304
NY	NY	0.0359	Confirmed LTF	0.0359
TVA	TVA	0.2184	Confirmed LTF	0.2184
O-066	O-066	0.4644	Confirmed LTF	0.4644
SIGE	SIGE	0.0124	Confirmed LTF	0.0124
CBM-S2	CBM-S2	5.1574	Confirmed LTF	5.1574
CBM-S1	CBM-S1	0.0513	Confirmed LTF	0.0513
G-007	G-007	0.0725	Confirmed LTF	0.0725
MEC	MEC	0.1049	Confirmed LTF	0.1049
LAGN	LAGN	0.2800	Confirmed LTF	0.2800
CBM-W1	CBM-W1	0.5047	Confirmed LTF	0.5047

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
161954849	242520	05J.FERR	AEP	242514	05J.FERR	AEP	1	AEP_P7-1_#10781-A	tower	1845.0	109.79	110.29	DC	20.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
244165	05FRIES	-0.4531	Adder	-0.53
313506	AB1-173 C OP	4.2719	Adder	5.03
313719	3CHESTNUT	1.1050	50/50	1.1050
313853	3PONTONDP	0.3458	Adder	0.41
314539	3UNCAMP	3.1351	Adder	3.69
314541	3WATKINS	0.3706	Adder	0.44
314572	3EMPORIA	0.2564	Adder	0.3
314594	6PLYMOTH	0.0540	Adder	0.06
314623	3WITAKRS	0.2152	50/50	0.2152
315131	1EDGECEMA (Deactivation : 22/04/2019)	9.7927	50/50	9.7927
315132	1EDGECEMB (Deactivation : 22/04/2019)	9.7927	50/50	9.7927
315160	1KERR 3	0.9318	50/50	0.9318
315161	1KERR 4	0.9318	50/50	0.9318
315162	1KERR 5	0.9318	50/50	0.9318
315163	1KERR 6	0.9318	50/50	0.9318
315164	1KERR 7	0.9318	50/50	0.9318
315293	1DOMTR9	4.4179	Adder	5.2
315294	1DOMTR10	5.4141	Adder	6.37
315601	1CONETOE2SOL	1.3506	50/50	1.3506
316020	AB2-059 C OP	1.7546	50/50	1.7546
316088	AB2-174 E	3.9742	Adder	4.68
316097	AB2-100 E1	1.6195	Adder	1.91
316099	AB2-100 E2	1.6195	Adder	1.91
316103	AB2-015 C	4.5679	Adder	5.37
316104	AB2-015 E	3.7457	Adder	4.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316118	AC1-105 C	3.6603	Adder	4.31
316129	AC1-054 C	5.1590	Adder	6.07
316140	AB2-099 C (Suspended)	0.3756	Adder	0.44
316141	AB2-099 E (Suspended)	0.1610	Adder	0.19
900672	V4-068 E	0.1821	Adder	0.21
916042	Z1-036 E (Suspended)	22.8302	Adder	26.86
917332	Z2-043 E	0.7285	Adder	0.86
917342	Z2-044 E	0.5847	50/50	0.5847
917512	Z2-088 E OP1	8.0114	50/50	8.0114
918492	AA1-063AE OP	2.5682	Adder	3.02
918512	AA1-065 E OP	2.5796	Adder	3.03
918532	AA1-067 E	0.6934	50/50	0.6934
919692	AA2-053 E OP	2.4960	Adder	2.94
919702	AA2-057 E OP	3.3062	50/50	3.3062
920042	AA2-088 E OP	6.1506	Adder	7.24
920591	AA2-165 C	0.1483	50/50	0.1483
920592	AA2-165 E	0.4544	50/50	0.4544
920692	AA2-178 E	2.3123	Adder	2.72
922922	AB1-081 C OP	1.4887	50/50	1.4887
922923	AB1-081 E OP	4.0440	50/50	4.0440
923262	AB1-132 C OP (Suspended)	9.3927	Adder	11.05
923263	AB1-132 E OP (Suspended)	4.0254	Adder	4.74
923573	AB1-173 E OP	0.6662	Adder	0.78
923991	AB2-040 C O1	4.6526	Adder	5.47
923992	AB2-040 E O1	3.8066	Adder	4.48
924022	AB2-043 E O1	1.7768	Adder	2.09
924152	AB2-059 E OP	5.7290	50/50	5.7290
924162	AB2-060 E OP	2.6734	Adder	3.15
924301	AB2-077 C O1 (Suspended)	1.2700	Adder	1.49
924302	AB2-077 E O1 (Suspended)	0.8467	Adder	1.0
924311	AB2-078 C O1 (Suspended)	1.2700	Adder	1.49
924312	AB2-078 E O1 (Suspended)	0.8467	Adder	1.0
924321	AB2-079 C O1 (Suspended)	1.2700	Adder	1.49
924322	AB2-079 E O1 (Suspended)	0.8467	Adder	1.0
925122	AB2-169 E	4.0606	Adder	4.78
925591	AC1-034 C	7.2034	50/50	7.2034
925592	AC1-034 E	5.4341	50/50	5.4341
925612	AC1-036 E	0.4896	Adder	0.58
925785	AC1-054 E	2.3766	Adder	2.8
926070	AC1-086 C	13.8318	Adder	16.27
926071	AC1-086 E	6.2953	Adder	7.41
926201	AC1-098 C	5.4268	50/50	5.4268
926202	AC1-098 E	3.2330	50/50	3.2330
926211	AC1-099 C	1.8186	50/50	1.8186
926212	AC1-099 E	1.0680	50/50	1.0680

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926274	AC1-105 E	1.7983	Adder	2.12
927024	AC1-189 C	8.4959	50/50	8.4959
927025	AC1-189 E	4.2321	50/50	4.2321
927145	AC1-208 C	8.1250	50/50	8.1250
927146	AC1-208 E	3.5932	50/50	3.5932
927251	AC1-221 C	2.8387	50/50	2.8387
927252	AC1-221 E	2.8387	50/50	2.8387
927261	AC1-222 C	2.1472	Adder	2.53
927262	AC1-222 E	2.0440	Adder	2.4
932631	AC2-084 C	7.7361	50/50	7.7361
932632	AC2-084 E	3.8103	50/50	3.8103
932761	AC2-100 C	6.5328	50/50	6.5328
932762	AC2-100 E	3.1887	50/50	3.1887
933991	AD1-023 C	8.0179	Adder	9.43
933992	AD1-023 E	4.3649	Adder	5.14
934311	AD1-055 C	1.4908	Adder	1.75
934312	AD1-055 E	0.3844	Adder	0.45
934331	AD1-057 C O1	9.3544	50/50	9.3544
934332	AD1-057 E O1	4.9900	50/50	4.9900
934341	AD1-058 C	7.1161	50/50	7.1161
934342	AD1-058 E	1.8082	50/50	1.8082
934521	AD1-076 C	32.6051	Adder	38.36
934522	AD1-076 E	16.6025	Adder	19.53
934615	AD1-087 C	4.4225	Adder	5.2
934616	AD1-087 E	1.8925	Adder	2.23
934625	AD1-088 C	6.2802	Adder	7.39
934626	AD1-088 E	1.6448	Adder	1.94
934991	AD1-131 C	2.3332	50/50	2.3332
934992	AD1-131 E	1.5554	50/50	1.5554
935171	AD1-152 C O1	4.8576	Adder	5.71
935172	AD1-152 E O1	3.2384	Adder	3.81
936161	AD2-022 C O1	12.9162	50/50	12.9162
936162	AD2-022 E O1	7.7497	50/50	7.7497
936171	AD2-023 C O1	7.5344	50/50	7.5344
936172	AD2-023 E O1	4.0901	50/50	4.0901
936265	AD2-033 C	7.5668	Adder	8.9
936266	AD2-033 E	5.0445	Adder	5.93
936361	AD2-046 C O1	6.4192	Adder	7.55
936362	AD2-046 E O1	2.9519	Adder	3.47
936401	AD2-051 C O1	5.6383	Adder	6.63
936402	AD2-051 E O1	2.4210	Adder	2.85
936485	AD2-063 C	9.1134	Adder	10.72
936486	AD2-063 E	6.0756	Adder	7.15
937481	AD2-202 C O1	1.2954	Adder	1.52
937482	AD2-202 E O1	0.7286	Adder	0.86
937493	AD2-205 BAT	0.4112	Merchant Transmission	0.4112
938222	AE1-035 E	0.7094	Adder	0.83
938494	AE1-068_C1	14.6867	Adder	17.28
938497	AE1-068_C2	14.6867	Adder	17.28
938498	AE1-068_E1	8.1188	Adder	9.55
938499	AE1-068_E2	8.1188	Adder	9.55
938504	AE1-069_C1	11.1929	Adder	13.17

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938507	AE1-069_C2	12.0687	Adder	14.2
938508	AE1-069_E1	6.3673	Adder	7.49
938509	AE1-069_E2	6.8599	Adder	8.07
938771	AE1-103 C	1.8386	Adder	2.16
938772	AE1-103 E	2.5390	Adder	2.99
939181	AE1-148 C	6.2993	Adder	7.41
939182	AE1-148 E	4.1995	Adder	4.94
940471	AE2-031 C	15.2544	Adder	17.95
940472	AE2-031 E	10.1696	Adder	11.96
940481	AE2-033 C	7.6550	Adder	9.01
940482	AE2-033 E	5.1607	Adder	6.07
940491	AE2-034 C	4.0466	Adder	4.76
940492	AE2-034 E	1.7343	Adder	2.04
940571	AE2-044 C	4.7180	50/50	4.7180
940572	AE2-044 E	2.0220	50/50	2.0220
940661	AE2-053 O1	2.3331	Adder	2.74
941031	AE2-094 C	18.1791	Adder	21.39
941032	AE2-094 E	8.1420	Adder	9.58
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.3807	Adder	0.45
941791	AE2-182 C	1.0203	Adder	1.2
941792	AE2-182 E	0.4750	Adder	0.56
942451	AE2-258	1.4824	Adder	1.74
942471	AE2-260 C O1	7.9764	Adder	9.38
942472	AE2-260 E O1	11.3135	Adder	13.31
942931	AE2-313 C	16.5617	Adder	19.48
942932	AE2-313 E	11.0411	Adder	12.99
943033	AE2-326 BAT	5.7498	Merchant Transmission	5.7498
943171	AE2-346 C	0.9015	Adder	1.06
943172	AE2-346 E	0.3864	Adder	0.45
943901	AF1-058 C	1.2761	Adder	1.5
943902	AF1-058 E	0.8507	Adder	1.0
943911	AF1-059	10.2592	Adder	12.07
944011	AF1-069 C	5.9398	Adder	6.99
944012	AF1-069 E	2.3075	Adder	2.71
944141	AF1-082	3.0330	50/50	3.0330
945711	AF1-236 C O1	44.3006	Adder	52.12
945712	AF1-236 E O1	27.3627	Adder	32.19
945811	AF1-246 C O1	4.1041	Adder	4.83
945812	AF1-246 E O1	5.6675	Adder	6.67
946011	AF1-266	6.4079	Adder	7.54
946281	AF1-292 C	0.9015	Adder	1.06
946282	AF1-292 E	0.6078	Adder	0.72
946301	AF1-294 C	2.2046	Adder	2.59
946302	AF1-294 E	1.4697	Adder	1.73
954211	J888	2.5375	PJM External (MISO)	2.5375
957481	AF2-042 C	29.3148	Adder	34.49
957482	AF2-042 E	19.5432	Adder	22.99
957521	AF2-046 C	10.3527	Adder	12.18
957522	AF2-046 E	5.2074	Adder	6.13
957531	AF2-047 C	9.6155	Adder	11.31
957532	AF2-047 E	4.8366	Adder	5.69
957861	AF2-080 C	7.7163	50/50	7.7163

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957862	AF2-080 E	3.4206	50/50	3.4206
958211	AF2-115 C	1.2968	Adder	1.53
958212	AF2-115 E	0.8645	Adder	1.02
958801	AF2-171 C	7.7961	Adder	9.17
958802	AF2-171 E	5.1974	Adder	6.11
959311	AF2-222 C	9.3840	Adder	11.04
959312	AF2-222 E	6.2873	Adder	7.4
959511	AF2-242 C	6.4161	50/50	6.4161
959512	AF2-242 E	4.9903	50/50	4.9903
959751	AF2-266	5.0494	Adder	5.94
960061	AF2-297 C	5.1045	Adder	6.01
960062	AF2-297 E	3.4030	Adder	4.0
960081	AF2-299 C	1.5194	Adder	1.79
960082	AF2-299 E	1.0129	Adder	1.19
961091	AF2-400 C	0.2467	Adder	0.29
961092	AF2-400 E	0.4047	Adder	0.48
961671	AG1-007 C	1.2583	50/50	1.2583
961672	AG1-007 E	0.7027	50/50	0.7027
961681	AG1-008 C	5.4979	Adder	12.2
961682	AG1-008 E	2.7490	Adder	6.1
961791	AG1-021 C	0.5498	Adder	1.22
961792	AG1-021 E	0.3666	Adder	0.81
961891	AG1-030 C	4.2674	Adder	9.47
961892	AG1-030 E	2.8449	Adder	6.31
961931	AG1-036 C	0.4535	Adder	1.01
961932	AG1-036 E	0.3023	Adder	0.67
961941	AG1-037 C	0.1706	Adder	0.38
961942	AG1-037 E	0.1138	Adder	0.25
962041	AG1-048 C	3.4365	Adder	7.63
962042	AG1-048 E	2.2910	Adder	5.09
962331	AG1-082 C	0.6826	Adder	1.52
962332	AG1-082 E	0.4550	Adder	1.01
962341	AG1-083 C	0.6826	Adder	1.52
962342	AG1-083 E	0.4550	Adder	1.01
962351	AG1-084 C	0.6053	Adder	1.34
962352	AG1-084 E	0.4036	Adder	0.9
962361	AG1-085 C	0.6053	Adder	1.34
962362	AG1-085 E	0.4036	Adder	0.9
962441	AG1-093 C O1	5.1733	Adder	11.48
962442	AG1-093 E O1	1.5745	Adder	3.5
962491	AG1-098 C O1	3.7386	Adder	8.3
962492	AG1-098 E O1	2.4924	Adder	5.53
962561	AG1-105 C O1	3.3669	Adder	7.47
962562	AG1-105 E O1	2.2446	Adder	4.98
962571	AG1-106 C	2.0387	Adder	4.53
962572	AG1-106 E	0.9245	Adder	2.05
963041	AG1-153 C	1.5203	Adder	3.37
963042	AG1-153 E	2.2805	Adder	5.06
963111	AG1-160 C	1.4800	Adder	3.29
963112	AG1-160 E	2.2200	Adder	4.93
963171	AG1-166 C	0.5498	Adder	1.22
963172	AG1-166 E	0.3666	Adder	0.81

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963181	AG1-167 C	0.5498	Adder	1.22
963182	AG1-167 E	0.3666	Adder	0.81
963191	AG1-168 C	0.5498	Adder	1.22
963192	AG1-168 E	0.3666	Adder	0.81
963201	AG1-169 C	0.5498	Adder	1.22
963202	AG1-169 E	0.3666	Adder	0.81
963211	AG1-170 C	0.5498	Adder	1.22
963212	AG1-170 E	0.3666	Adder	0.81
963271	AG1-176 C O1	4.0931	Adder	9.09
963272	AG1-176 E O1	2.7287	Adder	6.06
963301	AG1-179 C	1.8330	Adder	4.07
963311	AG1-180	0.8931	Adder	1.98
963321	AG1-181 C O1	5.1721	Adder	11.48
963361	AG1-185 O1	2.5024	Adder	5.55
963641	AG1-215 C	0.2566	Adder	0.57
963642	AG1-215 E	0.3849	Adder	0.85
964111	AG1-272 C	0.7769	Adder	1.72
964112	AG1-272 E	0.2308	Adder	0.51
964121	AG1-273 C	0.7769	Adder	1.72
964122	AG1-273 E	0.2308	Adder	0.51
964131	AG1-274 C	0.7769	Adder	1.72
964132	AG1-274 E	0.2308	Adder	0.51
964241	AG1-285 C O1	4.0697	Adder	9.03
964242	AG1-285 E O1	2.7131	Adder	6.02
964261	AG1-287 C	0.5073	Adder	1.13
964262	AG1-287 E	0.3382	Adder	0.75
964471	AG1-310 C	0.6295	Adder	1.4
964472	AG1-310 E	0.3101	Adder	0.69
964491	AG1-312 C O1	6.3459	Adder	14.09
964492	AG1-312 E O1	1.5865	Adder	3.52
964501	AG1-313 C O1	1.6150	Adder	3.58
964502	AG1-313 E O1	1.0767	Adder	2.39
964791	AG1-342 C	1.4136	Adder	3.14
964792	AG1-342 E	1.1107	Adder	2.47
964801	AG1-343 C	1.8681	Adder	4.15
964802	AG1-343 E	1.4678	Adder	3.26
964821	AG1-345 C	0.2202	Adder	0.49
964822	AG1-345 E	0.1468	Adder	0.33
964841	AG1-347 C	2.5521	Adder	5.67
964842	AG1-347 E	2.0052	Adder	4.45
964931	AG1-357 C	6.0628	Adder	13.46
964932	AG1-357 E	4.0419	Adder	8.97
965191	AG1-384 C	0.7769	Adder	1.72
965192	AG1-384 E	0.2308	Adder	0.51
965281	AG1-393 C	0.5498	Adder	1.22
965282	AG1-393 E	0.3666	Adder	0.81
965291	AG1-394 C	0.6376	Adder	1.42
965292	AG1-394 E	0.4251	Adder	0.94
965451	AG1-413 C O1	2.2857	Adder	5.07
965452	AG1-413 E O1	1.5238	Adder	3.38
965591	AG1-427 C	3.8510	Adder	8.55
965592	AG1-427 E	2.5728	Adder	5.71

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965601	AG1-428 C O1	1.5302	Adder	3.4
965602	AG1-428 E O1	1.0183	Adder	2.26
965631	AG1-431	13.5933	Adder	30.17
965691	AG1-437 C O1	3.3198	Adder	7.37
965692	AG1-437 E O1	2.2132	Adder	4.91
965701	AG1-438 C O1	3.3198	Adder	7.37
965702	AG1-438 E O1	2.2132	Adder	4.91
965711	AG1-439 C O1	24.2280	50/50	24.2280
965712	AG1-439 E O1	16.1520	50/50	16.1520
965721	AG1-440 C	2.8193	Adder	6.26
965722	AG1-440 E	1.8795	Adder	4.17
965731	AG1-441 C	2.8193	Adder	6.26
965732	AG1-441 E	1.8795	Adder	4.17
965741	AG1-442 O1	1.9366	Adder	4.3
965751	AG1-443 O1	1.9366	Adder	4.3
965761	AG1-444 O1	12.9216	50/50	12.9216
965771	AG1-445	1.6289	Adder	3.62
965781	AG1-446	1.6289	Adder	3.62
965811	AG1-449	5.6687	Adder	12.58
966361	AG1-505 C	4.4198	Adder	9.81
966362	AG1-505 E	2.9465	Adder	6.54
966371	AG1-506 C	4.4198	Adder	9.81
966372	AG1-506 E	2.9465	Adder	6.54
966621	AG1-532 C	0.4349	Adder	0.97
966622	AG1-532 E	0.2899	Adder	0.64
966751	AG1-546 C	5.9735	Adder	13.26
966752	AG1-546 E	3.2052	Adder	7.11
966801	AG1-551 C	2.0721	50/50	2.0721
966802	AG1-551 E	0.8881	50/50	0.8881
966811	AG1-552 C	0.7440	Adder	1.65
966812	AG1-552 E	0.3189	Adder	0.71
966931	AG1-431A	10.2128	Adder	22.67
CPLE	CPLE	15.4982	Confirmed LTF	15.4982
G-007A	G-007A	1.2994	Confirmed LTF	1.2994
VFT	VFT	3.4120	Confirmed LTF	3.4120
CBM-W2	CBM-W2	41.0816	Confirmed LTF	41.0816
TVA	TVA	10.1388	Confirmed LTF	10.1388
CBM-S2	CBM-S2	274.8121	Confirmed LTF	274.8121
CBM-S1	CBM-S1	2.1854	Confirmed LTF	2.1854
CBM-N	CBM-N	0.6012	Confirmed LTF	0.6012
MEC	MEC	2.2071	Confirmed LTF	2.2071
GIBSON	GIBSON	0.2255	Confirmed LTF	0.2255
BLUEG	BLUEG	1.9634	Confirmed LTF	1.9634
TRIMBLE	TRIMBLE	0.7001	Confirmed LTF	0.7001
LAGN	LAGN	13.3753	Confirmed LTF	13.3753
AA2-074	AA2-074	10.2038	LTF	10.2038

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
168284260	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	139.56	141.38	DC	7.37

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

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

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

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

11.6.10 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
167011336	313705	3KERRDP	DVP	314702	3KERR	DVP	1	DVP_P7-1: LN 171-1009	tower	195.0	123.53	126.82	DC	6.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4229	50/50	0.4229
313853	3PONTONDP	0.2999	Adder	0.35
314713	3PAMPLIN	0.6573	Adder	0.77
315266	1PLYWOOD A	0.9917	50/50	0.9917
316118	AC1-105 C	2.4718	Adder	2.91
316129	AC1-054 C	-7.0449	Adder	-8.29
316131	AB2-060 C	1.1992	50/50	1.1992
924022	AB2-043 E O1	2.3969	50/50	2.3969
924162	AB2-060 E OP	3.5768	50/50	3.5768
924301	AB2-077 C O1 (Suspended)	1.9992	50/50	1.9992
924302	AB2-077 E O1 (Suspended)	1.3328	50/50	1.3328
924311	AB2-078 C O1 (Suspended)	1.9992	50/50	1.9992
924312	AB2-078 E O1 (Suspended)	1.3328	50/50	1.3328

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924321	AB2-079 C O1 (Suspended)	1.9992	50/50	1.9992
924322	AB2-079 E O1 (Suspended)	1.3328	50/50	1.3328
925611	AC1-036 C	0.1533	50/50	0.1533
925612	AC1-036 E	0.5817	50/50	0.5817
926274	AC1-105 E	1.2144	Adder	1.43
927261	AC1-222 C	1.2514	Adder	1.47
927262	AC1-222 E	1.1913	Adder	1.4
934311	AD1-055 C	0.8689	Adder	1.02
934312	AD1-055 E	0.2241	Adder	0.26
935222	AD1-157 E	0.4052	Adder	0.48
936265	AD2-033 C	9.2391	50/50	9.2391
936266	AD2-033 E	6.1594	50/50	6.1594
936485	AD2-063 C	11.7639	50/50	11.7639
936486	AD2-063 E	7.8426	50/50	7.8426
938371	AE1-056 C	2.6206	Adder	3.08
938372	AE1-056 E	1.4319	Adder	1.68
940662	AE2-053 BAT	5.6696	50/50	5.6696
942451	AE2-258	1.9998	50/50	1.9998
942461	AE2-259 C O1	2.8346	Adder	3.33
942462	AE2-259 E O1	1.8897	Adder	2.22
943901	AF1-058 C	0.7075	Adder	0.83
943902	AF1-058 E	0.4716	Adder	0.55
943911	AF1-059	6.4092	Adder	7.54
946301	AF1-294 C	1.9120	Adder	2.25
946302	AF1-294 E	1.2746	Adder	1.5
958211	AF2-115 C	1.1247	Adder	1.32
958212	AF2-115 E	0.7498	Adder	0.88
958801	AF2-171 C	6.7878	Adder	7.99
958802	AF2-171 E	4.5252	Adder	5.32
959311	AF2-222 C	10.9430	50/50	10.9430
959312	AF2-222 E	7.3318	50/50	7.3318
960061	AF2-297 C	2.8299	Adder	3.33
960062	AF2-297 E	1.8866	Adder	2.22
961791	AG1-021 C	0.4769	Adder	1.06
961792	AG1-021 E	0.3179	Adder	0.71
961891	AG1-030 C	3.9256	Adder	8.71
961892	AG1-030 E	2.6170	Adder	5.81
962041	AG1-048 C	2.9804	Adder	6.62
962042	AG1-048 E	1.9869	Adder	4.41
962441	AG1-093 C O1	3.4935	Adder	7.75
962442	AG1-093 E O1	1.0632	Adder	2.36
963171	AG1-166 C	0.4769	Adder	1.06
963172	AG1-166 E	0.3179	Adder	0.71
963181	AG1-167 C	0.4769	Adder	1.06
963182	AG1-167 E	0.3179	Adder	0.71
963191	AG1-168 C	0.4769	Adder	1.06
963192	AG1-168 E	0.3179	Adder	0.71
963201	AG1-169 C	0.4769	Adder	1.06
963202	AG1-169 E	0.3179	Adder	0.71
963211	AG1-170 C	0.4769	Adder	1.06
963212	AG1-170 E	0.3179	Adder	0.71

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963301	AG1-179 C	0.7641	Adder	1.7
963311	AG1-180	0.3723	Adder	0.83
963321	AG1-181 C O1	11.8437	50/50	11.8437
963361	AG1-185 O1	5.7303	50/50	5.7303
963641	AG1-215 C	0.2225	Adder	0.49
963642	AG1-215 E	0.3338	Adder	0.74
964111	AG1-272 C	1.7417	50/50	1.7417
964112	AG1-272 E	0.5173	50/50	0.5173
964121	AG1-273 C	1.7417	50/50	1.7417
964122	AG1-273 E	0.5173	50/50	0.5173
964131	AG1-274 C	1.7417	50/50	1.7417
964132	AG1-274 E	0.5173	50/50	0.5173
964241	AG1-285 C O1	10.0455	50/50	10.0455
964242	AG1-285 E O1	6.6970	50/50	6.6970
964261	AG1-287 C	0.2812	Adder	0.62
964262	AG1-287 E	0.1875	Adder	0.42
964471	AG1-310 C	0.3757	Adder	0.83
964472	AG1-310 E	0.1850	Adder	0.41
964791	AG1-342 C	1.1283	Adder	2.5
964792	AG1-342 E	0.8865	Adder	1.97
964821	AG1-345 C	0.1914	Adder	0.42
964822	AG1-345 E	0.1276	Adder	0.28
965191	AG1-384 C	1.7417	50/50	1.7417
965192	AG1-384 E	0.5173	50/50	0.5173
965281	AG1-393 C	0.4769	Adder	1.06
965282	AG1-393 E	0.3179	Adder	0.71
965451	AG1-413 C O1	1.4279	Adder	3.17
965452	AG1-413 E O1	0.9519	Adder	2.11
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O1	0.6379	Adder	1.42
965602	AG1-428 E O1	0.4245	Adder	0.94
965641	AG1-432 C O1	3.0047	Adder	6.67
965642	AG1-432 E O1	2.0031	Adder	4.45
965772	AG1-445 BAT	6.4462	50/50	6.4462
965782	AG1-446 BAT	6.4462	50/50	6.4462
965831	AG1-451	0.5008	Adder	1.11
966753	AG1-546 BAT	6.4143	50/50	6.4143
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3005	Adder	0.67
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2003	Adder	0.44
G-007A	G-007A	0.1654	Confirmed LTF	0.1654
VFT	VFT	0.4451	Confirmed LTF	0.4451
CALDERWOOD	CALDERWOOD	0.0984	Confirmed LTF	0.0984
PRAIRIE	PRAIRIE	0.2144	Confirmed LTF	0.2144
CHEOAH	CHEOAH	0.1026	Confirmed LTF	0.1026
CBM-N	CBM-N	0.0828	Confirmed LTF	0.0828
COTTONWOOD	COTTONWOOD	0.3360	Confirmed LTF	0.3360
HAMLET	HAMLET	0.3274	Confirmed LTF	0.3274
GIBSON	GIBSON	0.0229	Confirmed LTF	0.0229

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
BLUEG	BLUEG	0.0590	Confirmed LTF	0.0590
TRIMBLE	TRIMBLE	0.0178	Confirmed LTF	0.0178
CATAWBA	CATAWBA	0.1431	Confirmed LTF	0.1431

11.6.11 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
168582311	313707	6FORK UNION	DVP	961060	AF2-397 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	164.77	165.78	DC	6.74

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0108	80/20	14.0108
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9386	80/20	13.9386
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8276	80/20	13.8276
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0480	80/20	10.0480
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2763	80/20	2.2763
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4836	80/20	18.4836
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9989	80/20	0.9989
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1432	80/20	6.1432
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6137	80/20	3.6137
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7380	80/20	19.7380
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9955	80/20	3.9955
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961791	AG1-021 C	2.8909	80/20	2.8909
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0682	80/20	18.0682
962441	AG1-093 C O1	8.5606	80/20	8.5606
962491	AG1-098 C O1	11.2875	80/20	11.2875
962561	AG1-105 C O1	5.6502	80/20	5.6502
962741	AG1-123 C O1	3.4622	80/20	3.4622
962751	AG1-124 C O1	3.7973	80/20	3.7973
963171	AG1-166 C	2.8909	80/20	2.8909
963181	AG1-167 C	2.8909	80/20	2.8909
963191	AG1-168 C	2.8909	80/20	2.8909
963201	AG1-169 C	2.8909	80/20	2.8909

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	2.8909	80/20	2.8909
963271	AG1-176 C O1	18.8540	80/20	18.8540
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O1	18.3458	80/20	18.3458
963361	AG1-185 O1	8.8762	80/20	8.8762
963641	AG1-215 C	1.3491	80/20	1.3491
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O1	20.2255	80/20	20.2255
964241	AG1-285 C O1	11.0250	80/20	11.0250
964261	AG1-287 C	0.7492	80/20	0.7492
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8194	80/20	11.8194
964931	AG1-357 C	7.8348	80/20	7.8348
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8909	80/20	2.8909
965451	AG1-413 C O1	3.9569	80/20	3.9569
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299
965601	AG1-428 C O1	2.2741	80/20	2.2741
965641	AG1-432 C O1	36.9672	80/20	36.9672
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1612	80/20	6.1612
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6967	80/20	3.6967
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPL	CPL	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

11.6.12 Index 12

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168582427	313719	3CHESTNUT	DVP	314623	3WITAKRS	DVP	1	DVP_P1-2: LN 2056-A	single	165.44	113.87	118.31	DC	7.35

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

11.6.13 Index 13

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163417965	313725	6DRY BREAD	DVP	314563	6CLUBHSE	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	217.91	219.46	DC	15.74

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	1.1200	50/50	1.1200
314541	3WATKINS	0.2783	Adder	0.33
314582	3KELFORD	0.3259	50/50	0.3259
314589	3MURPHYS	0.0637	50/50	0.0637
314594	6PLYMOTH	0.0477	Adder	0.06
314623	3WITAKRS	0.2110	50/50	0.2110
315126	1ROARAP2	1.2790	50/50	1.2790
315128	1ROARAP4	1.2205	50/50	1.2205
315131	1EDGECEMA (Deactivation : 22/04/2019)	13.4543	50/50	13.4543
315132	1EDGECEMB (Deactivation : 22/04/2019)	13.4543	50/50	13.4543
315136	1ROSEMG1	4.2810	50/50	4.2810
315137	1ROSEMS1	2.6547	50/50	2.6547

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315138	1ROSEMG2	2.0064	50/50	2.0064
315139	1GASTONA	6.4396	50/50	6.4396
315141	1GASTONB	6.4396	50/50	6.4396
315293	1DOMTR9	3.9847	Adder	4.69
315294	1DOMTR10	4.8833	Adder	5.75
315601	1CONETOE2SOL	1.5555	50/50	1.5555
315602	1HOLLOMANSOL	1.2800	50/50	1.2800
315606	3AA2-053SOLA	1.3751	50/50	1.3751
315607	3AA1-063SOLA	1.1446	50/50	1.1446
316020	AB2-059 C OP	1.7408	50/50	1.7408
316096	AB2-100 C1	3.3890	50/50	3.3890
316097	AB2-100 E1	10.5801	50/50	10.5801
316098	AB2-100 C2	3.3890	50/50	3.3890
316099	AB2-100 E2	10.5801	50/50	10.5801
316103	AB2-015 C	3.2495	Adder	3.82
316104	AB2-015 E	2.6646	Adder	3.13
316129	AC1-054 C	3.7171	Adder	4.37
316140	AB2-099 C (Suspended)	0.5015	50/50	0.5015
316141	AB2-099 E (Suspended)	0.2149	50/50	0.2149
900672	V4-068 E	0.2211	50/50	0.2211
917332	Z2-043 E	0.9722	50/50	0.9722
917342	Z2-044 E	0.5730	50/50	0.5730
917512	Z2-088 E OP1	9.2266	50/50	9.2266
918492	AA1-063AE OP	3.4207	50/50	3.4207
918512	AA1-065 E OP	3.6326	50/50	3.6326
918532	AA1-067 E	0.6273	50/50	0.6273
919692	AA2-053 E OP	3.5786	50/50	3.5786
919702	AA2-057 E OP	3.3511	50/50	3.3511
920042	AA2-088 E OP	5.7712	Adder	6.79
920591	AA2-165 C	0.1504	50/50	0.1504
920592	AA2-165 E	0.4606	50/50	0.4606
920692	AA2-178 E	1.8040	Adder	2.12
922922	AB1-081 C OP	1.4770	50/50	1.4770
922923	AB1-081 E OP	4.0123	50/50	4.0123
923262	AB1-132 C OP (Suspended)	31.1690	50/50	31.1690
923263	AB1-132 E OP (Suspended)	13.3582	50/50	13.3582
924152	AB2-059 E OP	5.6841	50/50	5.6841
925121	AB2-169 C	0.7584	50/50	0.7584
925122	AB2-169 E	4.3138	50/50	4.3138
925591	AC1-034 C	7.1469	50/50	7.1469
925592	AC1-034 E	5.3916	50/50	5.3916
925785	AC1-054 E	1.7124	Adder	2.01
926070	AC1-086 C	45.9001	50/50	45.9001
926071	AC1-086 E	20.8907	50/50	20.8907
926201	AC1-098 C	5.8825	50/50	5.8825
926202	AC1-098 E	3.5045	50/50	3.5045
926211	AC1-099 C	1.9713	50/50	1.9713
926212	AC1-099 E	1.1577	50/50	1.1577
927024	AC1-189 C	9.1234	50/50	9.1234
927025	AC1-189 E	4.5446	50/50	4.5446
927145	AC1-208 C	8.7875	50/50	8.7875

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
927146	AC1-208 E	3.8862	50/50	3.8862
932631	AC2-084 C	8.3857	50/50	8.3857
932632	AC2-084 E	4.1303	50/50	4.1303
933991	AD1-023 C	9.2587	50/50	9.2587
933992	AD1-023 E	5.0405	50/50	5.0405
934331	AD1-057 C O1	18.0112	50/50	18.0112
934332	AD1-057 E O1	9.6079	50/50	9.6079
934521	AD1-076 C	29.3748	Adder	34.56
934522	AD1-076 E	14.9576	Adder	17.6
936401	AD2-051 C O1	8.2336	50/50	8.2336
936402	AD2-051 E O1	3.5354	50/50	3.5354
938221	AE1-035 C	0.3200	50/50	0.3200
938222	AE1-035 E	0.9990	50/50	0.9990
940491	AE2-034 C	3.1570	Adder	3.71
940492	AE2-034 E	1.3530	Adder	1.59
940542	AE2-040 BAT	2.8696	50/50	2.8696
940571	AE2-044 C	4.6810	50/50	4.6810
940572	AE2-044 E	2.0062	50/50	2.0062
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1531	50/50	0.1531
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5226	50/50	0.5226
943171	AE2-346 C	1.2036	50/50	1.2036
943172	AE2-346 E	0.5158	50/50	0.5158
944141	AF1-082	3.0092	50/50	3.0092
945711	AF1-236 C O1	34.5611	Adder	40.66
945712	AF1-236 E O1	21.3470	Adder	25.11
946012	AF1-266 BAT	15.1801	50/50	15.1801
957521	AF2-046 C	12.8113	50/50	12.8113
957522	AF2-046 E	6.4442	50/50	6.4442
957531	AF2-047 C	7.5015	Adder	8.83
957532	AF2-047 E	3.7733	Adder	4.44
957861	AF2-080 C	8.2862	50/50	8.2862
957862	AF2-080 E	3.6733	50/50	3.6733
959511	AF2-242 C	5.7978	50/50	5.7978
959512	AF2-242 E	4.5094	50/50	4.5094
961091	AF2-400 C	0.1755	Adder	0.21
961092	AF2-400 E	0.2879	Adder	0.34
961671	AG1-007 C	1.5237	50/50	1.5237
961672	AG1-007 E	0.8509	50/50	0.8509
961681	AG1-008 C	12.8370	50/50	12.8370
961682	AG1-008 E	6.4185	50/50	6.4185
961931	AG1-036 C	1.1039	50/50	1.1039
961932	AG1-036 E	0.7360	50/50	0.7360
961941	AG1-037 C	0.4298	50/50	0.4298
961942	AG1-037 E	0.2866	50/50	0.2866
962331	AG1-082 C	1.7194	50/50	1.7194
962332	AG1-082 E	1.1462	50/50	1.1462
962341	AG1-083 C	1.7194	50/50	1.7194
962342	AG1-083 E	1.1462	50/50	1.1462
962351	AG1-084 C	1.5679	50/50	1.5679
962352	AG1-084 E	1.0452	50/50	1.0452
962361	AG1-085 C	1.5679	50/50	1.5679

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962362	AG1-085 E	1.0452	50/50	1.0452
962571	AG1-106 C	12.7645	50/50	12.7645
962572	AG1-106 E	5.7885	50/50	5.7885
963312	AG1-180 BAT	1.5599	Merchant Transmission	1.5599
964491	AG1-312 C O1	16.4662	50/50	16.4662
964492	AG1-312 E O1	4.1166	50/50	4.1166
964501	AG1-313 C O1	4.3233	50/50	4.3233
964502	AG1-313 E O1	2.8822	50/50	2.8822
964801	AG1-343 C	4.0533	50/50	4.0533
964802	AG1-343 E	3.1848	50/50	3.1848
965291	AG1-394 C	0.6159	Adder	1.37
965292	AG1-394 E	0.4106	Adder	0.91
965631	AG1-431	10.6048	Adder	23.54
965691	AG1-437 C O1	7.6920	50/50	7.6920
965692	AG1-437 E O1	5.1280	50/50	5.1280
965701	AG1-438 C O1	7.6920	50/50	7.6920
965702	AG1-438 E O1	5.1280	50/50	5.1280
965711	AG1-439 C O1	27.9030	50/50	27.9030
965712	AG1-439 E O1	18.6020	50/50	18.6020
965741	AG1-442 O1	4.4870	50/50	4.4870
965751	AG1-443 O1	4.4870	50/50	4.4870
965761	AG1-444 O1	14.8816	50/50	14.8816
966751	AG1-546 C	4.6133	Adder	10.24
966752	AG1-546 E	2.4753	Adder	5.49
966801	AG1-551 C	1.8735	50/50	1.8735
966802	AG1-551 E	0.8029	50/50	0.8029
966811	AG1-552 C	2.0307	50/50	2.0307
966812	AG1-552 E	0.8703	50/50	0.8703
966931	AG1-431A	7.9675	Adder	17.69
WEC	WEC	0.1386	Confirmed LTF	0.1386
LGEE	LGEE	0.2840	Confirmed LTF	0.2840
CPL	CPL	1.9410	Confirmed LTF	1.9410
CBM-W2	CBM-W2	6.4512	Confirmed LTF	6.4512
NY	NY	0.2278	Confirmed LTF	0.2278
TVA	TVA	1.2362	Confirmed LTF	1.2362
O-066	O-066	3.1631	Confirmed LTF	3.1631
SIGE	SIGE	0.1008	Confirmed LTF	0.1008
CBM-S2	CBM-S2	20.5459	Confirmed LTF	20.5459
CBM-S1	CBM-S1	0.3059	Confirmed LTF	0.3059
G-007	G-007	0.4967	Confirmed LTF	0.4967
MEC	MEC	0.8533	Confirmed LTF	0.8533
LAGN	LAGN	1.5435	Confirmed LTF	1.5435
CBM-W1	CBM-W1	5.7622	Confirmed LTF	5.7622

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
168582451	313725	6DRY BREAD	DVP	314583	6LAKEVEW	DVP	1	DVP_P1-2: LN 238-A	single	375.06	114.98	116.46	DC	5.52

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

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

11.6.15 Index 15

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168582252	313755	3FLAT CREEK	DVP	314707	3MORAN	DVP	1	Base Case	single	203.98	132.25	134.88	DC	5.35

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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
CPLE	CPLE	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

11.6.16 Index 16

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168582464	313825	3PLYWOOD	DVP	314696	3SEEDGE HILL	DVP	1	DVP_P1-2: LN 33	single	141.0	135.37	142.19	DC	9.6

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

11.6.17 Index 17

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163937932	313845	6HATHAWAY	DVP	304222	6ROCKYMT230T	CPL	1	DVP_P1-2: LN 2181	single	478.0	139.64	141.46	DC	8.71

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.9769	80/20	4.9769
313719	3CHESTNUT	1.3428	80/20	1.3428
314435	6SAPONY	0.1633	80/20	0.1633
314572	3EMPORIA	0.2896	80/20	0.2896
314582	3KELFORD	0.2906	80/20	0.2906
314589	3MURPHYS	0.0557	80/20	0.0557
314623	3WITAKRS	0.2693	80/20	0.2693
314704	3LAWRENC	0.1555	80/20	0.1555
315115	1S HAMPT1	0.7175	80/20	0.7175
315126	1ROARAP2	1.0817	80/20	1.0817
315128	1ROARAP4	1.0323	80/20	1.0323
315131	1EDGECEMA (Deactivation : 22/04/2019)	25.4510	80/20	25.4510
315132	1EDGECEMB (Deactivation : 22/04/2019)	25.4510	80/20	25.4510
315136	1ROSEMG1	2.6866	80/20	2.6866
315137	1ROSEMS1	1.6660	80/20	1.6660
315138	1ROSEMG2	1.2591	80/20	1.2591
315139	1GASTONA	3.3238	80/20	3.3238
315141	1GASTONB	3.3238	80/20	3.3238
315292	1DOMTR78	0.7947	80/20	0.7947
315293	1DOMTR9	4.1102	80/20	4.1102
315294	1DOMTR10	5.0370	80/20	5.0370
315601	1CONETOE2SOL	2.3712	80/20	2.3712
315602	1HOLLOMANSOL	0.9675	80/20	0.9675
315605	6W1-029WIND	0.3244	80/20	0.3244
315606	3AA2-053SOLA	1.1540	80/20	1.1540
315607	3AA1-063SOLA	0.9931	80/20	0.9931
315608	3AA2-088SOLA	0.6088	80/20	0.6088

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315611	6Z1-036WIND	0.3884	80/20	0.3884
315614	AA2-178 C	0.7254	80/20	0.7254
316020	AB2-059 C OP	2.7008	80/20	2.7008
316087	AB2-174 C	0.7985	80/20	0.7985
316096	AB2-100 C1	0.6775	80/20	0.6775
316098	AB2-100 C2	0.6775	80/20	0.6775
316103	AB2-015 C	4.0585	80/20	4.0585
316129	AC1-054 C	3.7242	80/20	3.7242
316140	AB2-099 C (Suspended)	0.4120	80/20	0.4120
920591	AA2-165 C	0.1803	80/20	0.1803
922922	AB1-081 C OP	2.2916	80/20	2.2916
923991	AB2-040 C O1	5.4204	80/20	5.4204
925121	AB2-169 C	0.6730	80/20	0.6730
925591	AC1-034 C	11.0881	80/20	11.0881
926070	AC1-086 C	23.6910	80/20	23.6910
926201	AC1-098 C	6.0769	80/20	6.0769
926211	AC1-099 C	2.0364	80/20	2.0364
927024	AC1-189 C	12.4064	80/20	12.4064
927145	AC1-208 C	9.3283	80/20	9.3283
932631	AC2-084 C	8.6628	80/20	8.6628
933991	AD1-023 C	7.6814	80/20	7.6814
934331	AD1-057 C O1	20.4104	80/20	20.4104
934521	AD1-076 C	29.9373	80/20	29.9373
936401	AD2-051 C O1	6.1020	80/20	6.1020
938221	AE1-035 C	0.2419	80/20	0.2419
938771	AE1-103 C	1.4969	80/20	1.4969
940481	AE2-033 C	7.2695	80/20	7.2695
940491	AE2-034 C	3.4486	80/20	3.4486
940541	AE2-040	1.1775	80/20	1.1775
940571	AE2-044 C	7.2624	80/20	7.2624
941501	AE2-147 C	4.7457	80/20	4.7457
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1236	80/20	0.1236
942471	AE2-260 C O1	9.9463	80/20	9.9463
943171	AE2-346 C	0.9888	80/20	0.9888
943911	AF1-059	6.8508	80/20	6.8508
944141	AF1-082	4.6687	80/20	4.6687
944871	AF1-152 C	1.5819	80/20	1.5819
945711	AF1-236 C O1	37.7542	80/20	37.7542
946011	AF1-266	6.0852	80/20	6.0852
946281	AF1-292 C	1.0047	80/20	1.0047
957521	AF2-046 C	11.0658	80/20	11.0658
957531	AF2-047 C	8.1946	80/20	8.1946
957861	AF2-080 C	11.2680	80/20	11.2680
959511	AF2-242 C	5.1822	80/20	5.1822
960081	AF2-299 C	1.6934	80/20	1.6934
961091	AF2-400 C	0.2192	80/20	0.2192
961671	AG1-007 C	2.4920	80/20	2.4920
961681	AG1-008 C	11.0880	80/20	11.0880
961851	AG1-027 C	5.3990	80/20	5.3990
961931	AG1-036 C	0.9275	80/20	0.9275
961941	AG1-037 C	0.3532	80/20	0.3532
962331	AG1-082 C	1.4126	80/20	1.4126

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962341	AG1-083 C	1.4126	80/20	1.4126
962351	AG1-084 C	1.2651	80/20	1.2651
962361	AG1-085 C	1.2651	80/20	1.2651
962571	AG1-106 C	6.5883	80/20	6.5883
963301	AG1-179 C	2.7897	80/20	2.7897
963311	AG1-180	1.3592	80/20	1.3592
964491	AG1-312 C O1	12.5787	80/20	12.5787
964501	AG1-313 C O1	3.5955	80/20	3.5955
964801	AG1-343 C	3.6792	80/20	3.6792
965291	AG1-394 C	1.2510	80/20	1.2510
965451	AG1-413 C O1	2.8798	80/20	2.8798
965601	AG1-428 C O1	2.3289	80/20	2.3289
965631	AG1-431	21.8577	80/20	21.8577
965691	AG1-437 C O1	6.1932	80/20	6.1932
965701	AG1-438 C O1	6.1932	80/20	6.1932
965711	AG1-439 C O1	42.5370	80/20	42.5370
965721	AG1-440 C	2.5713	80/20	2.5713
965731	AG1-441 C	2.5713	80/20	2.5713
965741	AG1-442 O1	3.6127	80/20	3.6127
965751	AG1-443 O1	3.6127	80/20	3.6127
965761	AG1-444 O1	22.6864	80/20	22.6864
965771	AG1-445	1.4856	80/20	1.4856
965781	AG1-446	1.4856	80/20	1.4856
966621	AG1-532 C	0.9144	80/20	0.9144
966751	AG1-546 C	8.7116	80/20	8.7116
966801	AG1-551 C	1.6845	80/20	1.6845
966811	AG1-552 C	1.7175	80/20	1.7175
966931	AG1-431A	16.4220	80/20	16.4220
G-007A	G-007A	0.8583	Confirmed LTF	0.8583
VFT	VFT	2.2898	Confirmed LTF	2.2898
CALDERWOOD	CALDERWOOD	1.0815	Confirmed LTF	1.0815
PRAIRIE	PRAIRIE	3.7557	Confirmed LTF	3.7557
CHEOAH	CHEOAH	1.1081	Confirmed LTF	1.1081
CBM-N	CBM-N	0.4152	Confirmed LTF	0.4152
COTTONWOOD	COTTONWOOD	4.0047	Confirmed LTF	4.0047
HAMLET	HAMLET	2.3123	Confirmed LTF	2.3123
GIBSON	GIBSON	0.6656	Confirmed LTF	0.6656
BLUEG	BLUEG	2.0572	Confirmed LTF	2.0572
TRIMBLE	TRIMBLE	0.6533	Confirmed LTF	0.6533
CATAWBA	CATAWBA	1.1602	Confirmed LTF	1.1602

11.6.18 Index 18

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168582417	313854	3CONSLDL	DVP	314554	3BTLEBRO	DVP	1	DVP_P1-2: LN 2056-B	single	165.44	120.52	124.96	DC	7.34

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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

11.6.19 Index 19

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168582333	313867	6BREMODIST	DVP	313707	6FORK UNION	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	166.27	167.38	DC	7.34

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1780	80/20	2.1780
313527	AB2-043 C	0.4243	80/20	0.4243
314429	3JTRSVLE	0.6669	80/20	0.6669
314572	3EMPORIA	0.1382	80/20	0.1382
314677	6BUCKING	1.0571	80/20	1.0571
314704	3LAWRENC	0.1410	80/20	0.1410
315126	1ROARAP2	0.4085	80/20	0.4085
315128	1ROARAP4	0.3898	80/20	0.3898
315153	1CLOVER1	7.5116	80/20	7.5116
315154	1CLOVER2	7.4368	80/20	7.4368
315158	1KERR 1	0.2345	80/20	0.2345
315159	1KERR 2	0.6567	80/20	0.6567
315160	1KERR 3	0.6567	80/20	0.6567
315161	1KERR 4	0.6567	80/20	0.6567
315162	1KERR 5	0.6567	80/20	0.6567
315163	1KERR 6	0.6567	80/20	0.6567
315164	1KERR 7	0.6567	80/20	0.6567
315191	1BEARGRDN G1	18.4998	80/20	18.4998
315192	1BEARGRDN G2	18.4998	80/20	18.4998
315193	1BEARGRDN S1	23.9239	80/20	23.9239
315266	1PLYWOOD A	0.6737	80/20	0.6737
316087	AB2-174 C	0.3606	80/20	0.3606
316118	AC1-105 C	3.4200	80/20	3.4200

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316123	AC1-075 C	0.3763	80/20	0.3763
316129	AC1-054 C	3.4710	80/20	3.4710
316131	AB2-060 C	1.2610	80/20	1.2610
923991	AB2-040 C O1	2.3720	80/20	2.3720
924301	AB2-077 C O1 (Suspended)	1.6661	80/20	1.6661
924311	AB2-078 C O1 (Suspended)	1.6661	80/20	1.6661
924321	AB2-079 C O1 (Suspended)	1.6661	80/20	1.6661
925611	AC1-036 C	0.2822	80/20	0.2822
926023	AC1-080 C	0.1258	80/20	0.1258
927251	AC1-221 C	0.7947	80/20	0.7947
927261	AC1-222 C	1.8844	80/20	1.8844
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.0415	80/20	1.0415
932761	AC2-100 C	1.8288	80/20	1.8288
933501	AC2-165 C	34.9923	80/20	34.9923
934311	AD1-055 C	1.3084	80/20	1.3084
934341	AD1-058 C	1.9921	80/20	1.9921
934615	AD1-087 C	4.7030	80/20	4.7030
934625	AD1-088 C	15.3924	80/20	15.3924
934991	AD1-131 C	0.6532	80/20	0.6532
935171	AD1-152 C O1	5.1658	80/20	5.1658
935221	AD1-157 C	0.4035	80/20	0.4035
936265	AD2-033 C	15.2365	80/20	15.2365
936361	AD2-046 C O1	5.8230	80/20	5.8230
936485	AD2-063 C	15.0849	80/20	15.0849
937481	AD2-202 C O1	1.3775	80/20	1.3775
938371	AE1-056 C	11.0262	80/20	11.0262
938821	AE1-108 C O1	11.0132	80/20	11.0132
939181	AE1-148 C	5.8169	80/20	5.8169
940661	AE2-053 O1	2.1544	80/20	2.1544
941791	AE2-182 C	2.5007	80/20	2.5007
942451	AE2-258	2.0064	80/20	2.0064
942461	AE2-259 C O1	20.3100	80/20	20.3100
942751	AE2-291 C	3.2791	80/20	3.2791
942761	AE2-292 C O1	4.0828	80/20	4.0828
943901	AF1-058 C	1.0548	80/20	1.0548
943911	AF1-059	10.2781	80/20	10.2781
945811	AF1-246 C O1	3.6616	80/20	3.6616
946281	AF1-292 C	0.4969	80/20	0.4969
946291	AF1-293 C O1	6.2287	80/20	6.2287
946301	AF1-294 C	6.7368	80/20	6.7368
946591	AF1-323 C	3.5356	80/20	3.5356
957481	AF2-042 C	26.1540	80/20	26.1540
958131	AF2-107 C	1.6496	80/20	1.6496
958211	AF2-115 C	3.9629	80/20	3.9629
958801	AF2-171 C	23.6781	80/20	23.6781
959311	AF2-222 C	21.6010	80/20	21.6010
959751	AF2-266	5.3920	80/20	5.3920
960061	AF2-297 C	4.2192	80/20	4.2192
960081	AF2-299 C	0.8375	80/20	0.8375

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960111	AF2-302 C	1.2857	80/20	1.2857
961791	AG1-021 C	3.1703	80/20	3.1703
961801	AG1-022 C	1.2857	80/20	1.2857
961891	AG1-030 C	22.0131	80/20	22.0131
962041	AG1-048 C	19.8142	80/20	19.8142
962441	AG1-093 C O1	9.1200	80/20	9.1200
962491	AG1-098 C O1	12.3900	80/20	12.3900
962561	AG1-105 C O1	6.1674	80/20	6.1674
963171	AG1-166 C	3.1703	80/20	3.1703
963181	AG1-167 C	3.1703	80/20	3.1703
963191	AG1-168 C	3.1703	80/20	3.1703
963201	AG1-169 C	3.1703	80/20	3.1703
963211	AG1-170 C	3.1703	80/20	3.1703
963271	AG1-176 C O1	20.7171	80/20	20.7171
963301	AG1-179 C	2.9803	80/20	2.9803
963311	AG1-180	1.4521	80/20	1.4521
963321	AG1-181 C O1	20.0593	80/20	20.0593
963361	AG1-185 O1	9.7052	80/20	9.7052
963641	AG1-215 C	1.4795	80/20	1.4795
964111	AG1-272 C	3.2072	80/20	3.2072
964121	AG1-273 C	3.2072	80/20	3.2072
964131	AG1-274 C	3.2072	80/20	3.2072
964231	AG1-284 C O1	2.9513	80/20	2.9513
964241	AG1-285 C O1	12.0195	80/20	12.0195
964261	AG1-287 C	0.7911	80/20	0.7911
964471	AG1-310 C	1.0720	80/20	1.0720
964791	AG1-342 C	2.7843	80/20	2.7843
964821	AG1-345 C	1.2648	80/20	1.2648
964841	AG1-347 C	12.9875	80/20	12.9875
964931	AG1-357 C	8.6556	80/20	8.6556
965191	AG1-384 C	3.2072	80/20	3.2072
965281	AG1-393 C	3.1703	80/20	3.1703
965451	AG1-413 C O1	4.3205	80/20	4.3205
965581	AG1-426	2.3994	80/20	2.3994
965591	AG1-427 C	11.4819	80/20	11.4819
965601	AG1-428 C O1	2.4880	80/20	2.4880
965641	AG1-432 C O1	40.6200	80/20	40.6200
965721	AG1-440 C	4.1121	80/20	4.1121
965731	AG1-441 C	4.1121	80/20	4.1121
965771	AG1-445	2.3759	80/20	2.3759
965781	AG1-446	2.3759	80/20	2.3759
965831	AG1-451	6.7700	80/20	6.7700
966361	AG1-505 C	4.9734	80/20	4.9734
966371	AG1-506 C	4.9734	80/20	4.9734
966621	AG1-532 C	0.4522	80/20	0.4522
966691	AG1-539 C	1.7146	80/20	1.7146
966751	AG1-546 C	7.3410	80/20	7.3410
966811	AG1-552 C	0.6485	80/20	0.6485
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	4.0620	80/20	4.0620
WEC	WEC	0.0699	Confirmed LTF	0.0699
LGEE	LGEE	0.1483	Confirmed LTF	0.1483

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CPLE	CPLE	2.3396	Confirmed LTF	2.3396
CBM-W2	CBM-W2	5.8061	Confirmed LTF	5.8061
NY	NY	0.4076	Confirmed LTF	0.4076
TVA	TVA	1.2558	Confirmed LTF	1.2558
SIGE	SIGE	0.1120	Confirmed LTF	0.1120
CBM-S2	CBM-S2	25.9121	Confirmed LTF	25.9121
CBM-S1	CBM-S1	0.2953	Confirmed LTF	0.2953
MEC	MEC	0.5863	Confirmed LTF	0.5863
LAGN	LAGN	1.5645	Confirmed LTF	1.5645
AA2-074	AA2-074	1.5426	LTF	1.5426
CBM-W1	CBM-W1	2.5236	Confirmed LTF	2.5236

11.6.20 Index 20

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168888796	314266	6NORTHAMPTON	DVP	936400	AD2-051 TAP	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	571.52	111.35	113.92	DC	14.69

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3482	80/20	9.3482
313527	AB2-043 C	0.2635	80/20	0.2635
313719	3CHESTNUT	0.6800	80/20	0.6800
314429	3JTRSVLE	0.1333	80/20	0.1333
314572	3EMPORIA	0.6240	80/20	0.6240
314623	3WITAKRS	0.1261	80/20	0.1261
314704	3LAWRENC	0.3599	80/20	0.3599
315126	1ROARAP2	1.5784	80/20	1.5784
315128	1ROARAP4	1.5063	80/20	1.5063
315131	1EDGECEMA (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315132	1EDGECEMB (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315136	1ROSEMG1	3.8526	80/20	3.8526
315137	1ROSEMS1	2.3890	80/20	2.3890
315138	1ROSEMG2	1.8056	80/20	1.8056
315139	1GASTONA	6.0576	80/20	6.0576
315141	1GASTONB	6.0576	80/20	6.0576
315158	1KERR 1	0.2406	80/20	0.2406
315159	1KERR 2	0.6736	80/20	0.6736
315160	1KERR 3	0.6736	80/20	0.6736
315161	1KERR 4	0.6736	80/20	0.6736
315162	1KERR 5	0.6736	80/20	0.6736
315163	1KERR 6	0.6736	80/20	0.6736
315164	1KERR 7	0.6736	80/20	0.6736

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315293	1DOMTR9	-3.2350	Adder	-3.81
315294	1DOMTR10	-3.9644	Adder	-4.66
315606	3AA2-053SOLA	1.2789	80/20	1.2789
315607	3AA1-063SOLA	1.1578	80/20	1.1578
315608	3AA2-088SOLA	0.3358	80/20	0.3358
316020	AB2-059 C OP	0.9918	80/20	0.9918
316087	AB2-174 C	1.5774	80/20	1.5774
316096	AB2-100 C1	1.6877	80/20	1.6877
316098	AB2-100 C2	1.6877	80/20	1.6877
316129	AC1-054 C	6.4409	80/20	6.4409
316131	AB2-060 C	0.7464	80/20	0.7464
920591	AA2-165 C	0.0913	80/20	0.0913
922922	AB1-081 C OP	0.8415	80/20	0.8415
923991	AB2-040 C O1	10.1812	80/20	10.1812
924301	AB2-077 C O1 (Suspended)	1.0495	80/20	1.0495
924311	AB2-078 C O1 (Suspended)	1.0495	80/20	1.0495
924321	AB2-079 C O1 (Suspended)	1.0495	80/20	1.0495
925591	AC1-034 C	4.0719	80/20	4.0719
925611	AC1-036 C	0.0939	80/20	0.0939
926070	AC1-086 C	43.1775	80/20	43.1775
926201	AC1-098 C	2.2605	80/20	2.2605
926211	AC1-099 C	0.7575	80/20	0.7575
927145	AC1-208 C	6.0536	80/20	6.0536
932631	AC2-084 C	3.2224	80/20	3.2224
934331	AD1-057 C O1	12.8767	80/20	12.8767
936265	AD2-033 C	5.6831	80/20	5.6831
936361	AD2-046 C O1	5.4499	80/20	5.4499
936485	AD2-063 C	7.2891	80/20	7.2891
939181	AE1-148 C	5.3455	80/20	5.3455
940481	AE2-033 C	28.0875	80/20	28.0875
940571	AE2-044 C	2.6670	80/20	2.6670
940661	AE2-053 O1	1.9798	80/20	1.9798
942451	AE2-258	1.2459	80/20	1.2459
942471	AE2-260 C O1	26.1001	80/20	26.1001
943911	AF1-059	16.2460	80/20	16.2460
944141	AF1-082	1.7145	80/20	1.7145
946011	AF1-266	23.5115	80/20	23.5115
946281	AF1-292 C	2.2861	80/20	2.2861
946301	AF1-294 C	1.3464	80/20	1.3464
958211	AF2-115 C	0.7920	80/20	0.7920
958801	AF2-171 C	4.7826	80/20	4.7826
959311	AF2-222 C	6.6870	80/20	6.6870
960081	AF2-299 C	3.8531	80/20	3.8531
961791	AG1-021 C	0.6336	80/20	0.6336
961891	AG1-030 C	5.2659	80/20	5.2659
962041	AG1-048 C	3.9600	80/20	3.9600
962571	AG1-106 C	12.0073	80/20	12.0073
963171	AG1-166 C	0.6336	80/20	0.6336
963181	AG1-167 C	0.6336	80/20	0.6336
963191	AG1-168 C	0.6336	80/20	0.6336

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963201	AG1-169 C	0.6336	80/20	0.6336
963211	AG1-170 C	0.6336	80/20	0.6336
963301	AG1-179 C	6.5008	80/20	6.5008
963311	AG1-180	3.1673	80/20	3.1673
963321	AG1-181 C O1	7.2785	80/20	7.2785
963361	AG1-185 O1	3.5215	80/20	3.5215
963641	AG1-215 C	0.2957	80/20	0.2957
964111	AG1-272 C	1.0672	80/20	1.0672
964121	AG1-273 C	1.0672	80/20	1.0672
964131	AG1-274 C	1.0672	80/20	1.0672
964241	AG1-285 C O1	6.2348	80/20	6.2348
964501	AG1-313 C O1	2.4851	80/20	2.4851
964791	AG1-342 C	1.3863	80/20	1.3863
964801	AG1-343 C	1.8312	80/20	1.8312
964821	AG1-345 C	0.2544	80/20	0.2544
965191	AG1-384 C	1.0672	80/20	1.0672
965281	AG1-393 C	0.6336	80/20	0.6336
965291	AG1-394 C	0.7217	80/20	0.7217
965451	AG1-413 C O1	6.8292	80/20	6.8292
965591	AG1-427 C	5.8849	80/20	5.8849
965601	AG1-428 C O1	5.4270	80/20	5.4270
965721	AG1-440 C	5.2830	80/20	5.2830
965731	AG1-441 C	5.2830	80/20	5.2830
965771	AG1-445	3.0524	80/20	3.0524
965781	AG1-446	3.0524	80/20	3.0524
966621	AG1-532 C	2.0806	80/20	2.0806
966751	AG1-546 C	14.6869	80/20	14.6869
966811	AG1-552 C	2.5061	80/20	2.5061
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2482	Confirmed LTF	0.2482
CPL	CPL	1.2381	Confirmed LTF	1.2381
CBM-W2	CBM-W2	5.1251	Confirmed LTF	5.1251
NY	NY	0.1637	Confirmed LTF	0.1637
TVA	TVA	0.9604	Confirmed LTF	0.9604
SIGE	SIGE	0.0801	Confirmed LTF	0.0801
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.2405	Confirmed LTF	0.2405
MEC	MEC	0.7103	Confirmed LTF	0.7103
LAGN	LAGN	1.1900	Confirmed LTF	1.1900
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

11.6.21 Index 21

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011400	314267	3CHASCTY2	DVP	314669	3BARNS J	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	110.26	111.78	DC	13.79

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

11.6.22 Index 22

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168888669	314282	6CARSON	DVP	314285	6CHRL249	DVP	1	DVP_P1-2: LN 563	single	559.3	176.18	177.53	DC	7.74

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.4804	80/20	4.4804
313527	AB2-043 C	0.1910	80/20	0.1910
313719	3CHESTNUT	0.5310	80/20	0.5310
314435	6SAPONY	0.4295	80/20	0.4295
314572	3EMPORIA	0.3054	80/20	0.3054
314582	3KELFORD	0.1544	80/20	0.1544
314589	3MURPHYS	0.0349	80/20	0.0349
314623	3WITAKRS	0.0974	80/20	0.0974
314704	3LAWRENC	0.1879	80/20	0.1879
315102	1BRUNSWICKG1	3.2233	80/20	3.2233
315103	1BRUNSWICKG2	3.2233	80/20	3.2233
315104	1BRUNSWICKG3	3.2233	80/20	3.2233
315105	1BRUNSWICKS1	6.6965	80/20	6.6965
315126	1ROARAP2	0.7205	80/20	0.7205
315128	1ROARAP4	0.6875	80/20	0.6875
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.1801	80/20	4.1801
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.1801	80/20	4.1801
315136	1ROSEMG1	1.2326	80/20	1.2326
315137	1ROSEMS1	0.7643	80/20	0.7643
315138	1ROSEMG2	0.5777	80/20	0.5777
315139	1GASTONA	1.8420	80/20	1.8420
315141	1GASTONB	1.8420	80/20	1.8420
315158	1KERR 1	0.1602	80/20	0.1602
315159	1KERR 2	0.4485	80/20	0.4485
315160	1KERR 3	0.4485	80/20	0.4485
315161	1KERR 4	0.4485	80/20	0.4485
315162	1KERR 5	0.4485	80/20	0.4485
315163	1KERR 6	0.4485	80/20	0.4485
315164	1KERR 7	0.4485	80/20	0.4485
315241	1Z1-086 GT1	4.1448	80/20	4.1448
315242	1Z1-086 GT2	4.1448	80/20	4.1448
315243	1Z1-086 GT3	4.1448	80/20	4.1448
315244	1Z1-086 ST	7.2052	80/20	7.2052
315601	1CONETOE2SOL	0.5692	80/20	0.5692
315602	1HOLLOMANSOL	0.5584	80/20	0.5584
315606	3AA2-053SOLA	0.7522	80/20	0.7522
315607	3AA1-063SOLA	0.6572	80/20	0.6572
315608	3AA2-088SOLA	0.3989	80/20	0.3989
316020	AB2-059 C OP	0.7472	80/20	0.7472
316087	AB2-174 C	0.7622	80/20	0.7622

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316096	AB2-100 C1	0.7868	80/20	0.7868
316098	AB2-100 C2	0.7868	80/20	0.7868
316129	AC1-054 C	3.4674	80/20	3.4674
316131	AB2-060 C	0.5437	80/20	0.5437
316140	AB2-099 C (Suspended)	0.2427	80/20	0.2427
920591	AA2-165 C	0.0713	80/20	0.0713
922922	AB1-081 C OP	0.6340	80/20	0.6340
923991	AB2-040 C O1	4.8796	80/20	4.8796
924301	AB2-077 C O1 (Suspended)	0.7674	80/20	0.7674
924311	AB2-078 C O1 (Suspended)	0.7674	80/20	0.7674
924321	AB2-079 C O1 (Suspended)	0.7674	80/20	0.7674
925591	AC1-034 C	3.0677	80/20	3.0677
926070	AC1-086 C	13.1295	80/20	13.1295
926201	AC1-098 C	2.8621	80/20	2.8621
926211	AC1-099 C	0.9591	80/20	0.9591
927024	AC1-189 C	3.5650	80/20	3.5650
927145	AC1-208 C	4.3905	80/20	4.3905
932631	AC2-084 C	4.0800	80/20	4.0800
934331	AD1-057 C O1	5.3386	80/20	5.3386
934615	AD1-087 C	2.2480	Adder	2.64
935171	AD1-152 C O1	2.4692	Adder	2.9
936361	AD2-046 C O1	3.6760	80/20	3.6760
936401	AD2-051 C O1	3.5166	80/20	3.5166
936485	AD2-063 C	4.6061	Adder	5.42
936761	AD2-097 C	-0.6639	Adder	-0.78
937481	AD2-202 C O1	0.6585	Adder	0.77
938221	AE1-035 C	0.1396	80/20	0.1396
938494	AE1-068_C1	12.4131	80/20	12.4131
938497	AE1-068_C2	12.4131	80/20	12.4131
938504	AE1-069_C1	9.4602	80/20	9.4602
938507	AE1-069_C2	10.2003	80/20	10.2003
939181	AE1-148 C	3.6158	80/20	3.6158
939414	AE1-173_C1	10.8125	80/20	10.8125
939415	AE1-173_C2	9.2678	80/20	9.2678
939416	AE1-173_C3	10.8125	80/20	10.8125
940471	AE2-031 C	13.5007	80/20	13.5007
940481	AE2-033 C	16.9910	80/20	16.9910
940541	AE2-040	3.0970	80/20	3.0970
940571	AE2-044 C	2.0093	80/20	2.0093
940641	AE2-051 C O1	6.6348	80/20	6.6348
940661	AE2-053 O1	1.3392	80/20	1.3392
941031	AE2-094 C	16.2569	80/20	16.2569
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0714	80/20	0.0714
942161	AE2-228 C	-1.6663	Adder	-1.96
942451	AE2-258	0.9032	80/20	0.9032
942471	AE2-260 C O1	12.7532	80/20	12.7532
942931	AE2-313 C	14.5953	80/20	14.5953
943171	AE2-346 C	0.5825	80/20	0.5825
943911	AF1-059	9.1343	80/20	9.1343

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
944011	AF1-069 C	5.3117	80/20	5.3117
944141	AF1-082	1.2917	80/20	1.2917
945811	AF1-246 C O1	2.7531	80/20	2.7531
946011	AF1-266	14.2228	80/20	14.2228
946261	AF1-291 C	-1.0163	Adder	-1.2
946281	AF1-292 C	1.1273	80/20	1.1273
957481	AF2-042 C	19.6650	80/20	19.6650
957521	AF2-046 C	6.8573	80/20	6.8573
957861	AF2-080 C	3.2379	80/20	3.2379
959511	AF2-242 C	2.7680	80/20	2.7680
959651	AF2-256 C	-0.4166	Adder	-0.49
959751	AF2-266	2.5742	Adder	3.03
960081	AF2-299 C	1.8999	80/20	1.8999
961671	AG1-007 C	0.5321	80/20	0.5321
961681	AG1-008 C	6.8710	80/20	6.8710
961931	AG1-036 C	0.5593	80/20	0.5593
961941	AG1-037 C	0.2080	80/20	0.2080
962331	AG1-082 C	0.8321	80/20	0.8321
962341	AG1-083 C	0.8321	80/20	0.8321
962351	AG1-084 C	0.7308	80/20	0.7308
962361	AG1-085 C	0.7308	80/20	0.7308
962561	AG1-105 C O1	1.6050	Adder	3.56
962571	AG1-106 C	3.6512	80/20	3.6512
963041	AG1-153 C	2.2617	80/20	2.2617
963111	AG1-160 C	2.2911	80/20	2.2911
963291	AG1-178 C O1	22.9993	80/20	22.9993
963301	AG1-179 C	3.4663	80/20	3.4663
963311	AG1-180	1.6889	80/20	1.6889
963351	AG1-184 O1	12.3907	80/20	12.3907
964241	AG1-285 C O1	4.5998	80/20	4.5998
964491	AG1-312 C O1	7.2890	80/20	7.2890
964501	AG1-313 C O1	2.2825	80/20	2.2825
964801	AG1-343 C	2.3867	80/20	2.3867
964931	AG1-357 C	8.3004	80/20	8.3004
965291	AG1-394 C	0.8173	80/20	0.8173
965451	AG1-413 C O1	3.8397	80/20	3.8397
965591	AG1-427 C	4.3471	80/20	4.3471
965601	AG1-428 C O1	2.8937	80/20	2.8937
965691	AG1-437 C O1	3.6582	80/20	3.6582
965701	AG1-438 C O1	3.6582	80/20	3.6582
965711	AG1-439 C O1	10.2105	80/20	10.2105
965721	AG1-440 C	3.2139	80/20	3.2139
965731	AG1-441 C	3.2139	80/20	3.2139
965741	AG1-442 O1	2.1340	80/20	2.1340
965751	AG1-443 O1	2.1340	80/20	2.1340
965761	AG1-444 O1	5.4456	80/20	5.4456
965771	AG1-445	1.8569	80/20	1.8569
965781	AG1-446	1.8569	80/20	1.8569
965811	AG1-449	9.4660	80/20	9.4660
966361	AG1-505 C	6.5907	80/20	6.5907
966371	AG1-506 C	6.5907	80/20	6.5907
966621	AG1-532 C	1.0259	80/20	1.0259

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966751	AG1-546 C	7.7393	80/20	7.7393
966801	AG1-551 C	0.8778	80/20	0.8778
966811	AG1-552 C	1.1440	80/20	1.1440
WEC	WEC	0.2983	Confirmed LTF	0.2983
LGEE	LGEE	0.6138	Confirmed LTF	0.6138
CPLE	CPLE	3.2016	Confirmed LTF	3.2016
CBM-W2	CBM-W2	13.2250	Confirmed LTF	13.2250
NY	NY	0.4424	Confirmed LTF	0.4424
TVA	TVA	2.5032	Confirmed LTF	2.5032
SIGE	SIGE	0.2067	Confirmed LTF	0.2067
CBM-S2	CBM-S2	37.8972	Confirmed LTF	37.8972
CBM-S1	CBM-S1	0.6236	Confirmed LTF	0.6236
MEC	MEC	1.7956	Confirmed LTF	1.7956
LAGN	LAGN	3.1133	Confirmed LTF	3.1133
AA2-074	AA2-074	2.1145	LTF	2.1145
CBM-W1	CBM-W1	12.4638	Confirmed LTF	12.4638

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
168888927	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P1-2: LN 249	single	678.68	118.78	119.55	DC	7.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.8496	80/20	4.8496
313527	AB2-043 C	0.1848	80/20	0.1848
313719	3CHESTNUT	0.4963	80/20	0.4963
314435	6SAPONY	0.5314	80/20	0.5314
314572	3EMPORIA	0.3423	80/20	0.3423
314582	3KELFORD	0.1318	80/20	0.1318
314623	3WITAKRS	0.0909	80/20	0.0909
314704	3LAWRENC	0.2076	80/20	0.2076
315102	1BRUNSWICKG1	2.4306	80/20	2.4306
315103	1BRUNSWICKG2	2.4306	80/20	2.4306
315104	1BRUNSWICKG3	2.4306	80/20	2.4306
315105	1BRUNSWICKS1	5.0497	80/20	5.0497
315126	1ROARAP2	0.7139	80/20	0.7139
315128	1ROARAP4	0.6813	80/20	0.6813
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.9109	80/20	3.9109
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.9109	80/20	3.9109
315136	1ROSEMG1	1.2983	80/20	1.2983
315137	1ROSEMS1	0.8051	80/20	0.8051
315138	1ROSEMG2	0.6085	80/20	0.6085
315139	1GASTONA	1.9606	80/20	1.9606

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315141	1GASTONB	1.9606	80/20	1.9606
315158	1KERR 1	0.1527	80/20	0.1527
315159	1KERR 2	0.4275	80/20	0.4275
315160	1KERR 3	0.4275	80/20	0.4275
315161	1KERR 4	0.4275	80/20	0.4275
315162	1KERR 5	0.4275	80/20	0.4275
315163	1KERR 6	0.4275	80/20	0.4275
315164	1KERR 7	0.4275	80/20	0.4275
315241	1Z1-086 GT1	3.1185	80/20	3.1185
315242	1Z1-086 GT2	3.1185	80/20	3.1185
315243	1Z1-086 GT3	3.1185	80/20	3.1185
315244	1Z1-086 ST	5.4211	80/20	5.4211
315601	1CONETOE2SOL	0.5048	80/20	0.5048
315606	3AA2-053SOLA	0.7264	80/20	0.7264
315607	3AA1-063SOLA	0.5804	80/20	0.5804
316020	AB2-059 C OP	0.6965	80/20	0.6965
316087	AB2-174 C	0.8363	80/20	0.8363
316096	AB2-100 C1	0.9230	80/20	0.9230
316098	AB2-100 C2	0.9230	80/20	0.9230
316129	AC1-054 C	3.3722	80/20	3.3722
316131	AB2-060 C	0.5253	80/20	0.5253
316132	AB2-190 C	-8.1101	Adder	-9.54
316140	AB2-099 C (Suspended)	0.1918	80/20	0.1918
920591	AA2-165 C	0.0666	80/20	0.0666
922922	AB1-081 C OP	0.5910	80/20	0.5910
923991	AB2-040 C O1	5.2818	80/20	5.2818
924301	AB2-077 C O1 (Suspended)	0.7397	80/20	0.7397
924311	AB2-078 C O1 (Suspended)	0.7397	80/20	0.7397
924321	AB2-079 C O1 (Suspended)	0.7397	80/20	0.7397
925591	AC1-034 C	2.8595	80/20	2.8595
926070	AC1-086 C	13.9744	80/20	13.9744
926201	AC1-098 C	2.6158	80/20	2.6158
926211	AC1-099 C	0.8766	80/20	0.8766
927024	AC1-189 C	3.0993	80/20	3.0993
927145	AC1-208 C	4.1428	80/20	4.1428
932581	AC2-078 C O1	-4.8865	Adder	-5.75
932631	AC2-084 C	3.7290	80/20	3.7290
934331	AD1-057 C O1	5.3662	80/20	5.3662
936265	AD2-033 C	4.1722	80/20	4.1722
936361	AD2-046 C O1	3.5116	80/20	3.5116
936401	AD2-051 C O1	2.8134	80/20	2.8134
936485	AD2-063 C	5.2128	80/20	5.2128
936761	AD2-097 C	-0.8307	Adder	-0.98
938494	AE1-068_C1	9.3235	80/20	9.3235
938497	AE1-068_C2	9.3235	80/20	9.3235
938504	AE1-069_C1	7.1056	80/20	7.1056
938507	AE1-069_C2	7.6615	80/20	7.6615
939181	AE1-148 C	3.4555	80/20	3.4555
940471	AE2-031 C	10.1251	80/20	10.1251
940481	AE2-033 C	20.9114	80/20	20.9114

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940541	AE2-040	3.8317	80/20	3.8317
940571	AE2-044 C	1.8729	80/20	1.8729
940661	AE2-053 O1	1.2798	80/20	1.2798
941031	AE2-094 C	12.1730	80/20	12.1730
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0582	80/20	0.0582
942151	AE2-227 C	-0.7632	Adder	-0.9
942161	AE2-228 C	-1.7813	Adder	-2.1
942451	AE2-258	0.8736	80/20	0.8736
942471	AE2-260 C O1	15.0795	80/20	15.0795
942931	AE2-313 C	10.9479	80/20	10.9479
943171	AE2-346 C	0.4602	80/20	0.4602
943911	AF1-059	9.7722	80/20	9.7722
944011	AF1-069 C	3.9774	80/20	3.9774
944141	AF1-082	1.2040	80/20	1.2040
946011	AF1-266	17.5045	80/20	17.5045
946261	AF1-291 C	-2.1026	Adder	-2.47
946281	AF1-292 C	1.2784	80/20	1.2784
957861	AF2-080 C	2.8149	80/20	2.8149
959641	AF2-255 C	-0.1908	Adder	-0.22
959651	AF2-256 C	-0.4453	Adder	-0.52
960081	AF2-299 C	2.1546	80/20	2.1546
961671	AG1-007 C	0.4789	80/20	0.4789
961941	AG1-037 C	0.1644	80/20	0.1644
962331	AG1-082 C	0.6575	80/20	0.6575
962341	AG1-083 C	0.6575	80/20	0.6575
962351	AG1-084 C	0.5962	80/20	0.5962
962361	AG1-085 C	0.5962	80/20	0.5962
962571	AG1-106 C	3.8862	80/20	3.8862
963041	AG1-153 C	1.7055	80/20	1.7055
963111	AG1-160 C	1.7238	80/20	1.7238
963301	AG1-179 C	3.7948	80/20	3.7948
963311	AG1-180	1.8489	80/20	1.8489
963321	AG1-181 C O1	5.3588	80/20	5.3588
964241	AG1-285 C O1	4.4325	80/20	4.4325
964501	AG1-313 C O1	2.1332	80/20	2.1332
965451	AG1-413 C O1	4.1079	80/20	4.1079
965591	AG1-427 C	4.1878	80/20	4.1878
965601	AG1-428 C O1	3.1680	80/20	3.1680
965711	AG1-439 C O1	9.0555	80/20	9.0555
965721	AG1-440 C	3.0884	80/20	3.0884
965731	AG1-441 C	3.0884	80/20	3.0884
965761	AG1-444 O1	4.8296	80/20	4.8296
965771	AG1-445	1.7844	80/20	1.7844
965781	AG1-446	1.7844	80/20	1.7844
965811	AG1-449	7.0992	80/20	7.0992
966361	AG1-505 C	4.9869	80/20	4.9869
966371	AG1-506 C	4.9869	80/20	4.9869
966621	AG1-532 C	1.1635	80/20	1.1635
966751	AG1-546 C	7.5441	80/20	7.5441
966811	AG1-552 C	1.1335	80/20	1.1335
WEC	WEC	0.2580	Confirmed LTF	0.2580
LGEE	LGEE	0.5278	Confirmed LTF	0.5278

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CPLE	CPLE	2.6679	Confirmed LTF	2.6679
CBM-W2	CBM-W2	11.1642	Confirmed LTF	11.1642
NY	NY	0.2881	Confirmed LTF	0.2881
TVA	TVA	2.0958	Confirmed LTF	2.0958
SIGE	SIGE	0.1584	Confirmed LTF	0.1584
CBM-S2	CBM-S2	31.4453	Confirmed LTF	31.4453
CBM-S1	CBM-S1	0.5236	Confirmed LTF	0.5236
MEC	MEC	1.5350	Confirmed LTF	1.5350
LAGN	LAGN	2.6093	Confirmed LTF	2.6093
AA2-074	AA2-074	1.7622	LTF	1.7622
CBM-W1	CBM-W1	10.8375	Confirmed LTF	10.8375

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
168888679	314285	6CHRL249	DVP	314316	6LOCKS	DVP	1	DVP_P1-2: LN 563	single	559.3	172.37	173.72	DC	7.74

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.4804	80/20	4.4804
313527	AB2-043 C	0.1910	80/20	0.1910
313719	3CHESTNUT	0.5310	80/20	0.5310
314435	6SAPONY	0.4295	80/20	0.4295
314572	3EMPORIA	0.3054	80/20	0.3054
314582	3KELFORD	0.1544	80/20	0.1544
314589	3MURPHYS	0.0349	80/20	0.0349
314623	3WITAKRS	0.0974	80/20	0.0974
314704	3LAWRENC	0.1879	80/20	0.1879
315102	1BRUNSWICKG1	3.2233	80/20	3.2233
315103	1BRUNSWICKG2	3.2233	80/20	3.2233
315104	1BRUNSWICKG3	3.2233	80/20	3.2233
315105	1BRUNSWICKS1	6.6965	80/20	6.6965
315126	1ROARAP2	0.7205	80/20	0.7205
315128	1ROARAP4	0.6875	80/20	0.6875
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.1801	80/20	4.1801
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.1801	80/20	4.1801
315136	1ROSEMG1	1.2326	80/20	1.2326
315137	1ROSEMS1	0.7643	80/20	0.7643
315138	1ROSEMG2	0.5777	80/20	0.5777
315139	1GASTONA	1.8420	80/20	1.8420
315141	1GASTONB	1.8420	80/20	1.8420
315158	1KERR 1	0.1602	80/20	0.1602
315159	1KERR 2	0.4485	80/20	0.4485
315160	1KERR 3	0.4485	80/20	0.4485

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315161	1KERR 4	0.4485	80/20	0.4485
315162	1KERR 5	0.4485	80/20	0.4485
315163	1KERR 6	0.4485	80/20	0.4485
315164	1KERR 7	0.4485	80/20	0.4485
315241	1Z1-086 GT1	4.1448	80/20	4.1448
315242	1Z1-086 GT2	4.1448	80/20	4.1448
315243	1Z1-086 GT3	4.1448	80/20	4.1448
315244	1Z1-086 ST	7.2052	80/20	7.2052
315601	1CONETOE2SOL	0.5692	80/20	0.5692
315602	1HOLLOMANSOL	0.5584	80/20	0.5584
315606	3AA2-053SOLA	0.7522	80/20	0.7522
315607	3AA1-063SOLA	0.6572	80/20	0.6572
315608	3AA2-088SOLA	0.3989	80/20	0.3989
316020	AB2-059 C OP	0.7472	80/20	0.7472
316087	AB2-174 C	0.7622	80/20	0.7622
316096	AB2-100 C1	0.7868	80/20	0.7868
316098	AB2-100 C2	0.7868	80/20	0.7868
316129	AC1-054 C	3.4674	80/20	3.4674
316131	AB2-060 C	0.5437	80/20	0.5437
316140	AB2-099 C (Suspended)	0.2427	80/20	0.2427
920591	AA2-165 C	0.0713	80/20	0.0713
922922	AB1-081 C OP	0.6340	80/20	0.6340
923991	AB2-040 C O1	4.8796	80/20	4.8796
924301	AB2-077 C O1 (Suspended)	0.7674	80/20	0.7674
924311	AB2-078 C O1 (Suspended)	0.7674	80/20	0.7674
924321	AB2-079 C O1 (Suspended)	0.7674	80/20	0.7674
925591	AC1-034 C	3.0677	80/20	3.0677
926070	AC1-086 C	13.1295	80/20	13.1295
926201	AC1-098 C	2.8621	80/20	2.8621
926211	AC1-099 C	0.9591	80/20	0.9591
927024	AC1-189 C	3.5650	80/20	3.5650
927145	AC1-208 C	4.3905	80/20	4.3905
932631	AC2-084 C	4.0800	80/20	4.0800
934331	AD1-057 C O1	5.3386	80/20	5.3386
934615	AD1-087 C	2.2480	Adder	2.64
935171	AD1-152 C O1	2.4692	Adder	2.9
936361	AD2-046 C O1	3.6760	80/20	3.6760
936401	AD2-051 C O1	3.5166	80/20	3.5166
936485	AD2-063 C	4.6061	Adder	5.42
936761	AD2-097 C	-0.6639	Adder	-0.78
937481	AD2-202 C O1	0.6585	Adder	0.77
938221	AE1-035 C	0.1396	80/20	0.1396
938494	AE1-068_C1	12.4131	80/20	12.4131
938497	AE1-068_C2	12.4131	80/20	12.4131
938504	AE1-069_C1	9.4602	80/20	9.4602
938507	AE1-069_C2	10.2003	80/20	10.2003
939181	AE1-148 C	3.6158	80/20	3.6158
939414	AE1-173_C1	10.8125	80/20	10.8125
939415	AE1-173_C2	9.2678	80/20	9.2678
939416	AE1-173_C3	10.8125	80/20	10.8125

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940471	AE2-031 C	13.5007	80/20	13.5007
940481	AE2-033 C	16.9910	80/20	16.9910
940541	AE2-040	3.0970	80/20	3.0970
940571	AE2-044 C	2.0093	80/20	2.0093
940641	AE2-051 C O1	6.6348	80/20	6.6348
940661	AE2-053 O1	1.3392	80/20	1.3392
941031	AE2-094 C	16.2569	80/20	16.2569
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0714	80/20	0.0714
942161	AE2-228 C	-1.6663	Adder	-1.96
942451	AE2-258	0.9032	80/20	0.9032
942471	AE2-260 C O1	12.7532	80/20	12.7532
942931	AE2-313 C	14.5953	80/20	14.5953
943171	AE2-346 C	0.5825	80/20	0.5825
943911	AF1-059	9.1343	80/20	9.1343
944011	AF1-069 C	5.3117	80/20	5.3117
944141	AF1-082	1.2917	80/20	1.2917
945811	AF1-246 C O1	2.7531	80/20	2.7531
946011	AF1-266	14.2228	80/20	14.2228
946261	AF1-291 C	-1.0163	Adder	-1.2
946281	AF1-292 C	1.1273	80/20	1.1273
957481	AF2-042 C	19.6650	80/20	19.6650
957521	AF2-046 C	6.8573	80/20	6.8573
957861	AF2-080 C	3.2379	80/20	3.2379
959511	AF2-242 C	2.7680	80/20	2.7680
959651	AF2-256 C	-0.4166	Adder	-0.49
959751	AF2-266	2.5742	Adder	3.03
960081	AF2-299 C	1.8999	80/20	1.8999
961671	AG1-007 C	0.5321	80/20	0.5321
961681	AG1-008 C	6.8710	80/20	6.8710
961931	AG1-036 C	0.5593	80/20	0.5593
961941	AG1-037 C	0.2080	80/20	0.2080
962331	AG1-082 C	0.8321	80/20	0.8321
962341	AG1-083 C	0.8321	80/20	0.8321
962351	AG1-084 C	0.7308	80/20	0.7308
962361	AG1-085 C	0.7308	80/20	0.7308
962561	AG1-105 C O1	1.6050	Adder	3.56
962571	AG1-106 C	3.6512	80/20	3.6512
963041	AG1-153 C	2.2617	80/20	2.2617
963111	AG1-160 C	2.2911	80/20	2.2911
963291	AG1-178 C O1	22.9993	80/20	22.9993
963301	AG1-179 C	3.4663	80/20	3.4663
963311	AG1-180	1.6889	80/20	1.6889
963351	AG1-184 O1	12.3907	80/20	12.3907
964241	AG1-285 C O1	4.5998	80/20	4.5998
964491	AG1-312 C O1	7.2890	80/20	7.2890
964501	AG1-313 C O1	2.2825	80/20	2.2825
964801	AG1-343 C	2.3867	80/20	2.3867
964931	AG1-357 C	8.3004	80/20	8.3004
965291	AG1-394 C	0.8173	80/20	0.8173
965451	AG1-413 C O1	3.8397	80/20	3.8397
965591	AG1-427 C	4.3471	80/20	4.3471
965601	AG1-428 C O1	2.8937	80/20	2.8937

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965691	AG1-437 C O1	3.6582	80/20	3.6582
965701	AG1-438 C O1	3.6582	80/20	3.6582
965711	AG1-439 C O1	10.2105	80/20	10.2105
965721	AG1-440 C	3.2139	80/20	3.2139
965731	AG1-441 C	3.2139	80/20	3.2139
965741	AG1-442 O1	2.1340	80/20	2.1340
965751	AG1-443 O1	2.1340	80/20	2.1340
965761	AG1-444 O1	5.4456	80/20	5.4456
965771	AG1-445	1.8569	80/20	1.8569
965781	AG1-446	1.8569	80/20	1.8569
965811	AG1-449	9.4660	80/20	9.4660
966361	AG1-505 C	6.5907	80/20	6.5907
966371	AG1-506 C	6.5907	80/20	6.5907
966621	AG1-532 C	1.0259	80/20	1.0259
966751	AG1-546 C	7.7393	80/20	7.7393
966801	AG1-551 C	0.8778	80/20	0.8778
966811	AG1-552 C	1.1440	80/20	1.1440
WEC	WEC	0.2983	Confirmed LTF	0.2983
LGEE	LGEE	0.6138	Confirmed LTF	0.6138
CPLE	CPLE	3.2016	Confirmed LTF	3.2016
CBM-W2	CBM-W2	13.2250	Confirmed LTF	13.2250
NY	NY	0.4424	Confirmed LTF	0.4424
TVA	TVA	2.5032	Confirmed LTF	2.5032
SIGE	SIGE	0.2067	Confirmed LTF	0.2067
CBM-S2	CBM-S2	37.8972	Confirmed LTF	37.8972
CBM-S1	CBM-S1	0.6236	Confirmed LTF	0.6236
MEC	MEC	1.7956	Confirmed LTF	1.7956
LAGN	LAGN	3.1133	Confirmed LTF	3.1133
AA2-074	AA2-074	2.1145	LTF	2.1145
CBM-W1	CBM-W1	12.4638	Confirmed LTF	12.4638

11.6.25 Index 25

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168888702	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P1-2: LN 563	single	441.8	154.72	156.04	DC	6.02

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.3710	80/20	3.3710
313719	3CHESTNUT	0.4186	80/20	0.4186
314435	6SAPONY	0.3020	80/20	0.3020
314572	3EMPORIA	0.2256	80/20	0.2256
314582	3KELFORD	0.1281	80/20	0.1281
314589	3MURPHYS	0.0323	80/20	0.0323
314623	3WITAKRS	0.0765	80/20	0.0765
314704	3LAWRENC	0.1387	80/20	0.1387

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315102	1BRUNSWICKG1	2.4537	80/20	2.4537
315103	1BRUNSWICKG2	2.4537	80/20	2.4537
315104	1BRUNSWICKG3	2.4537	80/20	2.4537
315105	1BRUNSWICKS1	5.0976	80/20	5.0976
315115	1S HAMPT1	0.5403	80/20	0.5403
315126	1ROARAP2	0.5660	80/20	0.5660
315128	1ROARAP4	0.5401	80/20	0.5401
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.2550	80/20	3.2550
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.2550	80/20	3.2550
315136	1ROSEMG1	0.9338	80/20	0.9338
315137	1ROSEMS1	0.5791	80/20	0.5791
315138	1ROSEMG2	0.4377	80/20	0.4377
315139	1GASTONA	1.3920	80/20	1.3920
315141	1GASTONB	1.3920	80/20	1.3920
315159	1KERR 2	0.3447	80/20	0.3447
315160	1KERR 3	0.3447	80/20	0.3447
315161	1KERR 4	0.3447	80/20	0.3447
315162	1KERR 5	0.3447	80/20	0.3447
315163	1KERR 6	0.3447	80/20	0.3447
315164	1KERR 7	0.3447	80/20	0.3447
315241	1Z1-086 GT1	3.1549	80/20	3.1549
315242	1Z1-086 GT2	3.1549	80/20	3.1549
315243	1Z1-086 GT3	3.1549	80/20	3.1549
315244	1Z1-086 ST	5.4843	80/20	5.4843
315293	1DOMTR9	1.7503	Adder	2.06
315294	1DOMTR10	2.1450	Adder	2.52
315601	1CONETOE2SOL	0.4539	80/20	0.4539
315602	1HOLLOMANSOL	0.4740	80/20	0.4740
315606	3AA2-053SOLA	0.5973	80/20	0.5973
315607	3AA1-063SOLA	0.5544	80/20	0.5544
315608	3AA2-088SOLA	0.3920	80/20	0.3920
316020	AB2-059 C OP	0.5832	80/20	0.5832
316083	AB2-161 C	3.6003	80/20	3.6003
316087	AB2-174 C	0.5694	80/20	0.5694
316096	AB2-100 C1	0.5685	80/20	0.5685
316098	AB2-100 C2	0.5685	80/20	0.5685
316103	AB2-015 C	3.2120	80/20	3.2120
316129	AC1-054 C	2.6954	80/20	2.6954
316140	AB2-099 C (Suspended)	0.2101	80/20	0.2101
920591	AA2-165 C	0.0562	80/20	0.0562
922922	AB1-081 C OP	0.4949	80/20	0.4949
923991	AB2-040 C O1	3.6714	80/20	3.6714
925591	AC1-034 C	2.3944	80/20	2.3944
926070	AC1-086 C	9.9220	80/20	9.9220
926201	AC1-098 C	2.2985	80/20	2.2985
926211	AC1-099 C	0.7702	80/20	0.7702
927024	AC1-189 C	2.8660	80/20	2.8660
927145	AC1-208 C	3.4775	80/20	3.4775
932581	AC2-078 C O1	4.4132	80/20	4.4132
932591	AC2-079 C O1	4.2148	80/20	4.2148
932631	AC2-084 C	3.2766	80/20	3.2766

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933991	AD1-023 C	3.4020	Adder	4.0
934331	AD1-057 C O1	4.0899	80/20	4.0899
934575	AD1-082 C	8.2049	80/20	8.2049
936361	AD2-046 C O1	2.3961	Adder	2.82
936401	AD2-051 C O1	2.9711	80/20	2.9711
936661	AD2-085 C	1.9675	80/20	1.9675
936761	AD2-097 C	-0.5795	Adder	-0.68
938221	AE1-035 C	0.1185	80/20	0.1185
938494	AE1-068_C1	9.4459	80/20	9.4459
938497	AE1-068_C2	9.4459	80/20	9.4459
938504	AE1-069_C1	7.1988	80/20	7.1988
938507	AE1-069_C2	7.7620	80/20	7.7620
938634	AE1-085 C	9.8510	80/20	9.8510
938771	AE1-103 C	1.3373	80/20	1.3373
939181	AE1-148 C	2.3556	Adder	2.77
939195	AE1-149 C	12.8658	80/20	12.8658
939414	AE1-173_C1	7.3956	Adder	8.7
939415	AE1-173_C2	6.3391	Adder	7.46
939416	AE1-173_C3	7.3956	Adder	8.7
940061	AE2-000BC O1	10.9578	80/20	10.9578
940471	AE2-031 C	10.2695	80/20	10.2695
940481	AE2-033 C	11.9803	80/20	11.9803
940541	AE2-040	2.1774	80/20	2.1774
940571	AE2-044 C	1.5683	80/20	1.5683
940641	AE2-051 C O1	5.1129	80/20	5.1129
940651	AE2-052	4.2886	80/20	4.2886
940661	AE2-053 O1	0.8724	Adder	1.03
941031	AE2-094 C	12.3678	80/20	12.3678
941101	AE2-104 C O1	1.1780	80/20	1.1780
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0604	80/20	0.0604
942161	AE2-228 C	-1.0844	Adder	-1.28
942341	AE2-247 C	0.8575	80/20	0.8575
942471	AE2-260 C O1	9.1780	80/20	9.1780
942931	AE2-313 C	11.1024	80/20	11.1024
943171	AE2-346 C	0.5043	80/20	0.5043
943461	AF1-017 C	0.7758	80/20	0.7758
943911	AF1-059	6.7853	80/20	6.7853
944011	AF1-069 C	4.0410	80/20	4.0410
944141	AF1-082	1.0082	80/20	1.0082
946011	AF1-266	10.0284	80/20	10.0284
946261	AF1-291 C	-1.8452	Adder	-2.17
946281	AF1-292 C	0.8273	80/20	0.8273
957521	AF2-046 C	6.2694	80/20	6.2694
957861	AF2-080 C	2.6030	80/20	2.6030
958161	AF2-110 C	0.4856	80/20	0.4856
959511	AF2-242 C	1.9726	Adder	2.32
959651	AF2-256 C	-0.2711	Adder	-0.32
960081	AF2-299 C	1.3944	80/20	1.3944
961091	AF2-400 C	0.1734	80/20	0.1734
961671	AG1-007 C	0.4216	80/20	0.4216
961681	AG1-008 C	6.2820	80/20	6.2820
961851	AG1-027 C	6.0684	80/20	6.0684

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961931	AG1-036 C	0.4969	80/20	0.4969
961941	AG1-037 C	0.1801	80/20	0.1801
962331	AG1-082 C	0.7204	80/20	0.7204
962341	AG1-083 C	0.7204	80/20	0.7204
962351	AG1-084 C	0.6183	80/20	0.6183
962361	AG1-085 C	0.6183	80/20	0.6183
962571	AG1-106 C	2.7592	80/20	2.7592
963041	AG1-153 C	1.7217	80/20	1.7217
963111	AG1-160 C	1.7439	80/20	1.7439
963291	AG1-178 C O1	17.8262	80/20	17.8262
963301	AG1-179 C	2.5632	80/20	2.5632
963311	AG1-180	1.2489	80/20	1.2489
963351	AG1-184 O1	9.6038	80/20	9.6038
964491	AG1-312 C O1	6.2093	80/20	6.2093
964501	AG1-313 C O1	1.8373	80/20	1.8373
964801	AG1-343 C	2.2813	80/20	2.2813
964931	AG1-357 C	6.3144	80/20	6.3144
965291	AG1-394 C	0.7865	80/20	0.7865
965451	AG1-413 C O1	2.8523	80/20	2.8523
965601	AG1-428 C O1	2.1398	80/20	2.1398
965691	AG1-437 C O1	3.1668	80/20	3.1668
965701	AG1-438 C O1	3.1668	80/20	3.1668
965711	AG1-439 C O1	8.1420	80/20	8.1420
965721	AG1-440 C	2.4817	80/20	2.4817
965731	AG1-441 C	2.4817	80/20	2.4817
965741	AG1-442 O1	1.8473	80/20	1.8473
965751	AG1-443 O1	1.8473	80/20	1.8473
965761	AG1-444 O1	4.3424	80/20	4.3424
965771	AG1-445	1.4339	80/20	1.4339
965781	AG1-446	1.4339	80/20	1.4339
965811	AG1-449	7.2004	80/20	7.2004
966361	AG1-505 C	5.0148	80/20	5.0148
966371	AG1-506 C	5.0148	80/20	5.0148
966621	AG1-532 C	0.7530	80/20	0.7530
966731	AG1-544 C	7.6936	80/20	7.6936
966741	AG1-545 C	2.5440	80/20	2.5440
966751	AG1-546 C	6.0232	80/20	6.0232
966801	AG1-551 C	0.3278	Adder	0.73
966811	AG1-552 C	0.8986	80/20	0.8986
WEC	WEC	0.2255	Confirmed LTF	0.2255
LGEE	LGEE	0.4643	Confirmed LTF	0.4643
CPL	CPL	2.4734	Confirmed LTF	2.4734
CBM-W2	CBM-W2	10.0890	Confirmed LTF	10.0890
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.9138	Confirmed LTF	1.9138
SIGE	SIGE	0.1599	Confirmed LTF	0.1599
CBM-S2	CBM-S2	29.1902	Confirmed LTF	29.1902
CBM-S1	CBM-S1	0.4761	Confirmed LTF	0.4761
MEC	MEC	1.3634	Confirmed LTF	1.3634
LAGN	LAGN	2.3800	Confirmed LTF	2.3800
AA2-074	AA2-074	1.6339	LTF	1.6339
CBM-W1	CBM-W1	9.4074	Confirmed LTF	9.4074

11.6.26 Index 26

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
16888822	314301	6HARR205	DVP	314346	6TYLER	DVP	1	DVP_P1-2: LN 563	single	441.8	146.36	147.33	DC	6.17

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.5370	80/20	3.5370
313719	3CHESTNUT	0.4248	80/20	0.4248
314314	3LOCKS	0.4064	80/20	0.4064
314435	6SAPONY	0.3331	80/20	0.3331
314572	3EMPORIA	0.2400	80/20	0.2400
314582	3KELFORD	0.1253	80/20	0.1253
314589	3MURPHYS	0.0293	80/20	0.0293
314623	3WITAKRS	0.0778	80/20	0.0778
314704	3LAWRENC	0.1476	80/20	0.1476
315102	1BRUNSWICKG1	2.5619	80/20	2.5619
315103	1BRUNSWICKG2	2.5619	80/20	2.5619
315104	1BRUNSWICKG3	2.5619	80/20	2.5619
315105	1BRUNSWICKS1	5.3223	80/20	5.3223
315126	1ROARAP2	0.5755	80/20	0.5755
315128	1ROARAP4	0.5492	80/20	0.5492
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.3333	80/20	3.3333
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.3333	80/20	3.3333
315136	1ROSEMG1	0.9751	80/20	0.9751
315137	1ROSEMS1	0.6047	80/20	0.6047
315138	1ROSEMG2	0.4570	80/20	0.4570
315139	1GASTONA	1.4561	80/20	1.4561
315141	1GASTONB	1.4561	80/20	1.4561
315158	1KERR 1	0.1272	80/20	0.1272
315159	1KERR 2	0.3562	80/20	0.3562
315160	1KERR 3	0.3562	80/20	0.3562
315161	1KERR 4	0.3562	80/20	0.3562
315162	1KERR 5	0.3562	80/20	0.3562
315163	1KERR 6	0.3562	80/20	0.3562
315164	1KERR 7	0.3562	80/20	0.3562
315241	1Z1-086 GT1	3.2949	80/20	3.2949
315242	1Z1-086 GT2	3.2949	80/20	3.2949
315243	1Z1-086 GT3	3.2949	80/20	3.2949
315244	1Z1-086 ST	5.7278	80/20	5.7278
315601	1CONETOESOL	0.4569	80/20	0.4569
315602	1HOLLOMANSOL	0.4561	80/20	0.4561
315606	3AA2-053SOLA	0.6027	80/20	0.6027
315607	3AA1-063SOLA	0.5356	80/20	0.5356
315608	3AA2-088SOLA	0.3403	80/20	0.3403

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316020	AB2-059 C OP	0.5962	80/20	0.5962
316083	AB2-161 C	1.0556	80/20	1.0556
316087	AB2-174 C	0.6005	80/20	0.6005
316096	AB2-100 C1	0.6146	80/20	0.6146
316098	AB2-100 C2	0.6146	80/20	0.6146
316108	AB2-160 C	7.8316	80/20	7.8316
316129	AC1-054 C	2.7621	80/20	2.7621
316140	AB2-099 C (Suspended)	0.1993	80/20	0.1993
920591	AA2-165 C	0.0570	80/20	0.0570
922922	AB1-081 C OP	0.5059	80/20	0.5059
923991	AB2-040 C O1	3.8522	80/20	3.8522
925591	AC1-034 C	2.4479	80/20	2.4479
926070	AC1-086 C	10.3784	80/20	10.3784
926201	AC1-098 C	2.3011	80/20	2.3011
926211	AC1-099 C	0.7711	80/20	0.7711
927024	AC1-189 C	2.8676	80/20	2.8676
927145	AC1-208 C	3.5157	80/20	3.5157
932581	AC2-078 C O1	1.2802	80/20	1.2802
932631	AC2-084 C	3.2803	80/20	3.2803
934331	AD1-057 C O1	4.2371	80/20	4.2371
934575	AD1-082 C	2.4057	80/20	2.4057
936361	AD2-046 C O1	2.9176	80/20	2.9176
936401	AD2-051 C O1	2.8684	80/20	2.8684
936761	AD2-097 C	-0.6015	Adder	-0.71
938221	AE1-035 C	0.1140	80/20	0.1140
938494	AE1-068_C1	9.8661	80/20	9.8661
938497	AE1-068_C2	9.8661	80/20	9.8661
938504	AE1-069_C1	7.5191	80/20	7.5191
938507	AE1-069_C2	8.1073	80/20	8.1073
938634	AE1-085 C	2.8325	80/20	2.8325
939181	AE1-148 C	2.8690	80/20	2.8690
939195	AE1-149 C	3.5496	80/20	3.5496
940061	AE2-000BC O1	3.2742	80/20	3.2742
940431	AE2-027 C O1	11.7007	80/20	11.7007
940471	AE2-031 C	10.7306	80/20	10.7306
940481	AE2-033 C	13.1880	80/20	13.1880
940541	AE2-040	2.4021	80/20	2.4021
940571	AE2-044 C	1.6033	80/20	1.6033
940641	AE2-051 C O1	5.3001	80/20	5.3001
940651	AE2-052	1.1832	80/20	1.1832
941031	AE2-094 C	12.9210	80/20	12.9210
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0582	80/20	0.0582
942001	AE2-212 C	7.5800	80/20	7.5800
942161	AE2-228 C	-2.0735	Adder	-2.44
942371	AE2-250 C O1	13.9115	80/20	13.9115
942471	AE2-260 C O1	9.9513	80/20	9.9513
942931	AE2-313 C	11.5998	80/20	11.5998
943171	AE2-346 C	0.4783	80/20	0.4783
943911	AF1-059	7.1860	80/20	7.1860
944011	AF1-069 C	4.2218	80/20	4.2218
944141	AF1-082	1.0307	80/20	1.0307
946011	AF1-266	11.0394	80/20	11.0394

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946261	AF1-291 C	-1.2662	Adder	-1.49
946281	AF1-292 C	0.8841	80/20	0.8841
957521	AF2-046 C	5.7225	80/20	5.7225
957861	AF2-080 C	2.6045	80/20	2.6045
958141	AF2-108	4.4468	80/20	4.4468
959651	AF2-256 C	-0.5184	Adder	-0.61
959671	AF2-258 C	1.8950	80/20	1.8950
959681	AF2-259 C	6.6702	80/20	6.6702
960081	AF2-299 C	1.4901	80/20	1.4901
961671	AG1-007 C	0.4263	80/20	0.4263
961681	AG1-008 C	5.7340	80/20	5.7340
961931	AG1-036 C	0.4628	80/20	0.4628
961941	AG1-037 C	0.1708	80/20	0.1708
962271	AG1-075 C O1	24.0102	80/20	24.0102
962331	AG1-082 C	0.6833	80/20	0.6833
962341	AG1-083 C	0.6833	80/20	0.6833
962351	AG1-084 C	0.5962	80/20	0.5962
962361	AG1-085 C	0.5962	80/20	0.5962
962571	AG1-106 C	2.8862	80/20	2.8862
963041	AG1-153 C	1.7976	80/20	1.7976
963111	AG1-160 C	1.8213	80/20	1.8213
963291	AG1-178 C O1	18.4111	80/20	18.4111
963301	AG1-179 C	2.7238	80/20	2.7238
963311	AG1-180	1.3271	80/20	1.3271
963351	AG1-184 O1	9.9189	80/20	9.9189
964491	AG1-312 C O1	5.9595	80/20	5.9595
964501	AG1-313 C O1	1.8357	80/20	1.8357
964801	AG1-343 C	2.0188	80/20	2.0188
964931	AG1-357 C	6.5940	80/20	6.5940
965291	AG1-394 C	0.6928	80/20	0.6928
965451	AG1-413 C O1	3.0207	80/20	3.0207
965601	AG1-428 C O1	2.2739	80/20	2.2739
965711	AG1-439 C O1	8.1960	80/20	8.1960
965721	AG1-440 C	2.5556	80/20	2.5556
965731	AG1-441 C	2.5556	80/20	2.5556
965761	AG1-444 O1	4.3712	80/20	4.3712
965771	AG1-445	1.4765	80/20	1.4765
965781	AG1-446	1.4765	80/20	1.4765
965811	AG1-449	7.5237	80/20	7.5237
966361	AG1-505 C	5.2371	80/20	5.2371
966371	AG1-506 C	5.2371	80/20	5.2371
966621	AG1-532 C	0.8047	80/20	0.8047
966731	AG1-544 C	2.2122	80/20	2.2122
966741	AG1-545 C	0.7345	80/20	0.7345
966751	AG1-546 C	6.1667	80/20	6.1667
966811	AG1-552 C	0.9138	80/20	0.9138
WEC	WEC	0.2353	Confirmed LTF	0.2353
LGEE	LGEE	0.4844	Confirmed LTF	0.4844
CPL	CPL	2.5498	Confirmed LTF	2.5498
CBM-W2	CBM-W2	10.4742	Confirmed LTF	10.4742
NY	NY	0.3561	Confirmed LTF	0.3561
TVA	TVA	1.9852	Confirmed LTF	1.9852

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
SIGE	SIGE	0.1646	Confirmed LTF	0.1646
CBM-S2	CBM-S2	30.1507	Confirmed LTF	30.1507
CBM-S1	CBM-S1	0.4940	Confirmed LTF	0.4940
MEC	MEC	1.4190	Confirmed LTF	1.4190
LAGN	LAGN	2.4675	Confirmed LTF	2.4675
AA2-074	AA2-074	1.6843	LTF	1.6843
CBM-W1	CBM-W1	9.8280	Confirmed LTF	9.8280

11.6.27 Index 27

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168888749	314316	6LOCKS	DVP	314301	6HARR205	DVP	1	DVP_P1-2: LN 563	single	441.8	151.53	152.5	DC	6.17

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.5370	80/20	3.5370
313719	3CHESTNUT	0.4248	80/20	0.4248
314314	3LOCKS	0.4064	80/20	0.4064
314435	6SAPONY	0.3331	80/20	0.3331
314572	3EMPORIA	0.2400	80/20	0.2400
314582	3KELFORD	0.1253	80/20	0.1253
314589	3MURPHYS	0.0293	80/20	0.0293
314623	3WITAKRS	0.0778	80/20	0.0778
314704	3LAWRENC	0.1476	80/20	0.1476
315102	1BRUNSWICKG1	2.5619	80/20	2.5619
315103	1BRUNSWICKG2	2.5619	80/20	2.5619
315104	1BRUNSWICKG3	2.5619	80/20	2.5619
315105	1BRUNSWICKS1	5.3223	80/20	5.3223
315126	1ROARAP2	0.5755	80/20	0.5755
315128	1ROARAP4	0.5492	80/20	0.5492
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.3333	80/20	3.3333
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.3333	80/20	3.3333
315136	1ROSEMG1	0.9751	80/20	0.9751
315137	1ROSEMS1	0.6047	80/20	0.6047
315138	1ROSEMG2	0.4570	80/20	0.4570
315139	1GASTONA	1.4561	80/20	1.4561
315141	1GASTONB	1.4561	80/20	1.4561
315158	1KERR 1	0.1272	80/20	0.1272
315159	1KERR 2	0.3562	80/20	0.3562
315160	1KERR 3	0.3562	80/20	0.3562
315161	1KERR 4	0.3562	80/20	0.3562
315162	1KERR 5	0.3562	80/20	0.3562
315163	1KERR 6	0.3562	80/20	0.3562
315164	1KERR 7	0.3562	80/20	0.3562

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315241	1Z1-086 GT1	3.2949	80/20	3.2949
315242	1Z1-086 GT2	3.2949	80/20	3.2949
315243	1Z1-086 GT3	3.2949	80/20	3.2949
315244	1Z1-086 ST	5.7278	80/20	5.7278
315601	1CONETOE2SOL	0.4569	80/20	0.4569
315602	1HOLLOMANSOL	0.4561	80/20	0.4561
315606	3AA2-053SOLA	0.6027	80/20	0.6027
315607	3AA1-063SOLA	0.5356	80/20	0.5356
315608	3AA2-088SOLA	0.3403	80/20	0.3403
316020	AB2-059 C OP	0.5962	80/20	0.5962
316083	AB2-161 C	1.0556	80/20	1.0556
316087	AB2-174 C	0.6005	80/20	0.6005
316096	AB2-100 C1	0.6146	80/20	0.6146
316098	AB2-100 C2	0.6146	80/20	0.6146
316108	AB2-160 C	7.8316	80/20	7.8316
316129	AC1-054 C	2.7621	80/20	2.7621
316140	AB2-099 C (Suspended)	0.1993	80/20	0.1993
920591	AA2-165 C	0.0570	80/20	0.0570
922922	AB1-081 C OP	0.5059	80/20	0.5059
923991	AB2-040 C O1	3.8522	80/20	3.8522
925591	AC1-034 C	2.4479	80/20	2.4479
926070	AC1-086 C	10.3784	80/20	10.3784
926201	AC1-098 C	2.3011	80/20	2.3011
926211	AC1-099 C	0.7711	80/20	0.7711
927024	AC1-189 C	2.8676	80/20	2.8676
927145	AC1-208 C	3.5157	80/20	3.5157
932581	AC2-078 C O1	1.2802	80/20	1.2802
932631	AC2-084 C	3.2803	80/20	3.2803
934331	AD1-057 C O1	4.2371	80/20	4.2371
934575	AD1-082 C	2.4057	80/20	2.4057
936361	AD2-046 C O1	2.9176	80/20	2.9176
936401	AD2-051 C O1	2.8684	80/20	2.8684
936761	AD2-097 C	-0.6015	Adder	-0.71
938221	AE1-035 C	0.1140	80/20	0.1140
938494	AE1-068_C1	9.8661	80/20	9.8661
938497	AE1-068_C2	9.8661	80/20	9.8661
938504	AE1-069_C1	7.5191	80/20	7.5191
938507	AE1-069_C2	8.1073	80/20	8.1073
938634	AE1-085 C	2.8325	80/20	2.8325
939181	AE1-148 C	2.8690	80/20	2.8690
939195	AE1-149 C	3.5496	80/20	3.5496
940061	AE2-000BC O1	3.2742	80/20	3.2742
940431	AE2-027 C O1	11.7007	80/20	11.7007
940471	AE2-031 C	10.7306	80/20	10.7306
940481	AE2-033 C	13.1880	80/20	13.1880
940541	AE2-040	2.4021	80/20	2.4021
940571	AE2-044 C	1.6033	80/20	1.6033
940641	AE2-051 C O1	5.3001	80/20	5.3001
940651	AE2-052	1.1832	80/20	1.1832
941031	AE2-094 C	12.9210	80/20	12.9210
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0582	80/20	0.0582
942161	AE2-228 C	-2.0735	Adder	-2.44

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942371	AE2-250 C O1	13.9115	80/20	13.9115
942471	AE2-260 C O1	9.9513	80/20	9.9513
942931	AE2-313 C	11.5998	80/20	11.5998
943171	AE2-346 C	0.4783	80/20	0.4783
943911	AF1-059	7.1860	80/20	7.1860
944011	AF1-069 C	4.2218	80/20	4.2218
944141	AF1-082	1.0307	80/20	1.0307
946011	AF1-266	11.0394	80/20	11.0394
946261	AF1-291 C	-1.2662	Adder	-1.49
946281	AF1-292 C	0.8841	80/20	0.8841
957521	AF2-046 C	5.7225	80/20	5.7225
957861	AF2-080 C	2.6045	80/20	2.6045
958141	AF2-108	4.4468	80/20	4.4468
959651	AF2-256 C	-0.5184	Adder	-0.61
959681	AF2-259 C	6.6702	80/20	6.6702
960081	AF2-299 C	1.4901	80/20	1.4901
961671	AG1-007 C	0.4263	80/20	0.4263
961681	AG1-008 C	5.7340	80/20	5.7340
961931	AG1-036 C	0.4628	80/20	0.4628
961941	AG1-037 C	0.1708	80/20	0.1708
962271	AG1-075 C O1	24.0102	80/20	24.0102
962331	AG1-082 C	0.6833	80/20	0.6833
962341	AG1-083 C	0.6833	80/20	0.6833
962351	AG1-084 C	0.5962	80/20	0.5962
962361	AG1-085 C	0.5962	80/20	0.5962
962571	AG1-106 C	2.8862	80/20	2.8862
963041	AG1-153 C	1.7976	80/20	1.7976
963111	AG1-160 C	1.8213	80/20	1.8213
963291	AG1-178 C O1	18.4111	80/20	18.4111
963301	AG1-179 C	2.7238	80/20	2.7238
963311	AG1-180	1.3271	80/20	1.3271
963351	AG1-184 O1	9.9189	80/20	9.9189
964491	AG1-312 C O1	5.9595	80/20	5.9595
964501	AG1-313 C O1	1.8357	80/20	1.8357
964801	AG1-343 C	2.0188	80/20	2.0188
964931	AG1-357 C	6.5940	80/20	6.5940
965291	AG1-394 C	0.6928	80/20	0.6928
965451	AG1-413 C O1	3.0207	80/20	3.0207
965601	AG1-428 C O1	2.2739	80/20	2.2739
965711	AG1-439 C O1	8.1960	80/20	8.1960
965721	AG1-440 C	2.5556	80/20	2.5556
965731	AG1-441 C	2.5556	80/20	2.5556
965761	AG1-444 O1	4.3712	80/20	4.3712
965771	AG1-445	1.4765	80/20	1.4765
965781	AG1-446	1.4765	80/20	1.4765
965811	AG1-449	7.5237	80/20	7.5237
966361	AG1-505 C	5.2371	80/20	5.2371
966371	AG1-506 C	5.2371	80/20	5.2371
966621	AG1-532 C	0.8047	80/20	0.8047
966731	AG1-544 C	2.2122	80/20	2.2122
966741	AG1-545 C	0.7345	80/20	0.7345
966751	AG1-546 C	6.1667	80/20	6.1667

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966811	AG1-552 C	0.9138	80/20	0.9138
WEC	WEC	0.2353	Confirmed LTF	0.2353
LGEE	LGEE	0.4844	Confirmed LTF	0.4844
CPLE	CPLE	2.5498	Confirmed LTF	2.5498
CBM-W2	CBM-W2	10.4742	Confirmed LTF	10.4742
NY	NY	0.3561	Confirmed LTF	0.3561
TVA	TVA	1.9852	Confirmed LTF	1.9852
SIGE	SIGE	0.1646	Confirmed LTF	0.1646
CBM-S2	CBM-S2	30.1507	Confirmed LTF	30.1507
CBM-S1	CBM-S1	0.4940	Confirmed LTF	0.4940
MEC	MEC	1.4190	Confirmed LTF	1.4190
LAGN	LAGN	2.4675	Confirmed LTF	2.4675
AA2-074	AA2-074	1.6843	LTF	1.6843
CBM-W1	CBM-W1	9.8280	Confirmed LTF	9.8280

11.6.28 Index 28

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168888698	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P1-2: LN 563	single	441.8	154.74	156.06	DC	6.02

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.3710	80/20	3.3710
313719	3CHESTNUT	0.4186	80/20	0.4186
314435	6SAPONY	0.3020	80/20	0.3020
314572	3EMPORIA	0.2256	80/20	0.2256
314582	3KELFORD	0.1281	80/20	0.1281
314589	3MURPHYS	0.0323	80/20	0.0323
314623	3WITAKRS	0.0765	80/20	0.0765
314704	3LAWRENC	0.1387	80/20	0.1387
315102	1BRUNSWICKG1	2.4537	80/20	2.4537
315103	1BRUNSWICKG2	2.4537	80/20	2.4537
315104	1BRUNSWICKG3	2.4537	80/20	2.4537
315105	1BRUNSWICKS1	5.0976	80/20	5.0976
315115	1S HAMPT1	0.5403	80/20	0.5403
315126	1ROARAP2	0.5660	80/20	0.5660
315128	1ROARAP4	0.5401	80/20	0.5401
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.2550	80/20	3.2550
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.2550	80/20	3.2550
315136	1ROSEMG1	0.9338	80/20	0.9338
315137	1ROSEMS1	0.5791	80/20	0.5791
315138	1ROSEMG2	0.4377	80/20	0.4377
315139	1GASTONA	1.3920	80/20	1.3920
315141	1GASTONB	1.3920	80/20	1.3920

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315159	1KERR 2	0.3447	80/20	0.3447
315160	1KERR 3	0.3447	80/20	0.3447
315161	1KERR 4	0.3447	80/20	0.3447
315162	1KERR 5	0.3447	80/20	0.3447
315163	1KERR 6	0.3447	80/20	0.3447
315164	1KERR 7	0.3447	80/20	0.3447
315241	1Z1-086 GT1	3.1549	80/20	3.1549
315242	1Z1-086 GT2	3.1549	80/20	3.1549
315243	1Z1-086 GT3	3.1549	80/20	3.1549
315244	1Z1-086 ST	5.4843	80/20	5.4843
315293	1DOMTR9	1.7503	Adder	2.06
315294	1DOMTR10	2.1450	Adder	2.52
315601	1CONETOE2SOL	0.4539	80/20	0.4539
315602	1HOLLOMANSOL	0.4740	80/20	0.4740
315606	3AA2-053SOLA	0.5973	80/20	0.5973
315607	3AA1-063SOLA	0.5544	80/20	0.5544
315608	3AA2-088SOLA	0.3920	80/20	0.3920
316020	AB2-059 C OP	0.5832	80/20	0.5832
316083	AB2-161 C	3.6003	80/20	3.6003
316087	AB2-174 C	0.5694	80/20	0.5694
316096	AB2-100 C1	0.5685	80/20	0.5685
316098	AB2-100 C2	0.5685	80/20	0.5685
316103	AB2-015 C	3.2120	80/20	3.2120
316129	AC1-054 C	2.6954	80/20	2.6954
316140	AB2-099 C (Suspended)	0.2101	80/20	0.2101
920591	AA2-165 C	0.0562	80/20	0.0562
922922	AB1-081 C OP	0.4949	80/20	0.4949
923991	AB2-040 C O1	3.6714	80/20	3.6714
925591	AC1-034 C	2.3944	80/20	2.3944
926070	AC1-086 C	9.9220	80/20	9.9220
926201	AC1-098 C	2.2985	80/20	2.2985
926211	AC1-099 C	0.7702	80/20	0.7702
927024	AC1-189 C	2.8660	80/20	2.8660
927145	AC1-208 C	3.4775	80/20	3.4775
932581	AC2-078 C O1	4.4132	80/20	4.4132
932591	AC2-079 C O1	4.2148	80/20	4.2148
932631	AC2-084 C	3.2766	80/20	3.2766
933991	AD1-023 C	3.4020	Adder	4.0
934331	AD1-057 C O1	4.0899	80/20	4.0899
934575	AD1-082 C	8.2049	80/20	8.2049
936361	AD2-046 C O1	2.3961	Adder	2.82
936401	AD2-051 C O1	2.9711	80/20	2.9711
936661	AD2-085 C	1.9675	80/20	1.9675
936761	AD2-097 C	-0.5795	Adder	-0.68
938221	AE1-035 C	0.1185	80/20	0.1185
938494	AE1-068_C1	9.4459	80/20	9.4459
938497	AE1-068_C2	9.4459	80/20	9.4459
938504	AE1-069_C1	7.1988	80/20	7.1988
938507	AE1-069_C2	7.7620	80/20	7.7620
938634	AE1-085 C	9.8510	80/20	9.8510
938771	AE1-103 C	1.3373	80/20	1.3373
939181	AE1-148 C	2.3556	Adder	2.77

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939195	AE1-149 C	12.8658	80/20	12.8658
939414	AE1-173_C1	7.3956	Adder	8.7
939415	AE1-173_C2	6.3391	Adder	7.46
939416	AE1-173_C3	7.3956	Adder	8.7
940061	AE2-000BC O1	10.9578	80/20	10.9578
940471	AE2-031 C	10.2695	80/20	10.2695
940481	AE2-033 C	11.9803	80/20	11.9803
940541	AE2-040	2.1774	80/20	2.1774
940571	AE2-044 C	1.5683	80/20	1.5683
940641	AE2-051 C O1	5.1129	80/20	5.1129
940651	AE2-052	4.2886	80/20	4.2886
940661	AE2-053 O1	0.8724	Adder	1.03
941031	AE2-094 C	12.3678	80/20	12.3678
941101	AE2-104 C O1	1.1780	80/20	1.1780
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0604	80/20	0.0604
942161	AE2-228 C	-1.0844	Adder	-1.28
942341	AE2-247 C	0.8575	80/20	0.8575
942471	AE2-260 C O1	9.1780	80/20	9.1780
942931	AE2-313 C	11.1024	80/20	11.1024
943171	AE2-346 C	0.5043	80/20	0.5043
943461	AF1-017 C	0.7758	80/20	0.7758
943911	AF1-059	6.7853	80/20	6.7853
944011	AF1-069 C	4.0410	80/20	4.0410
944141	AF1-082	1.0082	80/20	1.0082
946011	AF1-266	10.0284	80/20	10.0284
946261	AF1-291 C	-1.8452	Adder	-2.17
946281	AF1-292 C	0.8273	80/20	0.8273
957521	AF2-046 C	6.2694	80/20	6.2694
957861	AF2-080 C	2.6030	80/20	2.6030
958161	AF2-110 C	0.4856	80/20	0.4856
959511	AF2-242 C	1.9726	Adder	2.32
959651	AF2-256 C	-0.2711	Adder	-0.32
960081	AF2-299 C	1.3944	80/20	1.3944
961091	AF2-400 C	0.1734	80/20	0.1734
961671	AG1-007 C	0.4216	80/20	0.4216
961681	AG1-008 C	6.2820	80/20	6.2820
961851	AG1-027 C	6.0684	80/20	6.0684
961931	AG1-036 C	0.4969	80/20	0.4969
961941	AG1-037 C	0.1801	80/20	0.1801
962331	AG1-082 C	0.7204	80/20	0.7204
962341	AG1-083 C	0.7204	80/20	0.7204
962351	AG1-084 C	0.6183	80/20	0.6183
962361	AG1-085 C	0.6183	80/20	0.6183
962571	AG1-106 C	2.7592	80/20	2.7592
963041	AG1-153 C	1.7217	80/20	1.7217
963111	AG1-160 C	1.7439	80/20	1.7439
963291	AG1-178 C O1	17.8262	80/20	17.8262
963301	AG1-179 C	2.5632	80/20	2.5632
963311	AG1-180	1.2489	80/20	1.2489
963351	AG1-184 O1	9.6038	80/20	9.6038
964491	AG1-312 C O1	6.2093	80/20	6.2093
964501	AG1-313 C O1	1.8373	80/20	1.8373

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964801	AG1-343 C	2.2813	80/20	2.2813
964931	AG1-357 C	6.3144	80/20	6.3144
965291	AG1-394 C	0.7865	80/20	0.7865
965451	AG1-413 C O1	2.8523	80/20	2.8523
965601	AG1-428 C O1	2.1398	80/20	2.1398
965691	AG1-437 C O1	3.1668	80/20	3.1668
965701	AG1-438 C O1	3.1668	80/20	3.1668
965711	AG1-439 C O1	8.1420	80/20	8.1420
965721	AG1-440 C	2.4817	80/20	2.4817
965731	AG1-441 C	2.4817	80/20	2.4817
965741	AG1-442 O1	1.8473	80/20	1.8473
965751	AG1-443 O1	1.8473	80/20	1.8473
965761	AG1-444 O1	4.3424	80/20	4.3424
965771	AG1-445	1.4339	80/20	1.4339
965781	AG1-446	1.4339	80/20	1.4339
965811	AG1-449	7.2004	80/20	7.2004
966361	AG1-505 C	5.0148	80/20	5.0148
966371	AG1-506 C	5.0148	80/20	5.0148
966621	AG1-532 C	0.7530	80/20	0.7530
966731	AG1-544 C	7.6936	80/20	7.6936
966741	AG1-545 C	2.5440	80/20	2.5440
966751	AG1-546 C	6.0232	80/20	6.0232
966801	AG1-551 C	0.3278	Adder	0.73
966811	AG1-552 C	0.8986	80/20	0.8986
WEC	WEC	0.2255	Confirmed LTF	0.2255
LGEE	LGEE	0.4643	Confirmed LTF	0.4643
CPL	CPL	2.4734	Confirmed LTF	2.4734
CBM-W2	CBM-W2	10.0890	Confirmed LTF	10.0890
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.9138	Confirmed LTF	1.9138
SIGE	SIGE	0.1599	Confirmed LTF	0.1599
CBM-S2	CBM-S2	29.1902	Confirmed LTF	29.1902
CBM-S1	CBM-S1	0.4761	Confirmed LTF	0.4761
MEC	MEC	1.3634	Confirmed LTF	1.3634
LAGN	LAGN	2.3800	Confirmed LTF	2.3800
AA2-074	AA2-074	1.6339	LTF	1.6339
CBM-W1	CBM-W1	9.4074	Confirmed LTF	9.4074

11.6.29 Index 29

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163418036	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P7-1: LN 54-2012-A	tower	830.0	165.59	169.9	DC	35.61

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

11.6.30 Index 30

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168888686	314524	3FRNKLN	DVP	314539	3UNCAMP	DVP	1	DVP_P1-2: LN 136	single	224.66	128.55	131.59	DC	6.81

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

11.6.31 Index 31

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163938556	314554	3BTLEBRO	DVP	304223	3ROCKYMT115T	CPL	1	DVP_P7-1: LN 2058-2181	tower	164.0	334.25	337.23	DC	10.8

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.1181	Adder	3.67
313719	3CHESTNUT	2.4261	50/50	2.4261
314541	3WATKINS	0.2172	Adder	0.26
314572	3EMPORIA	0.1704	Adder	0.2
314582	3KELFORD	0.3112	50/50	0.3112
314623	3WITAKRS	0.5240	50/50	0.5240
315126	1ROARAP2	0.8712	50/50	0.8712
315128	1ROARAP4	0.8314	50/50	0.8314
315131	1EDGECEMA (Deactivation : 22/04/2019)	12.5808	50/50	12.5808
315132	1EDGECEMB (Deactivation : 22/04/2019)	12.5808	50/50	12.5808
315136	1ROSEMG1	1.5086	50/50	1.5086

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315137	1ROSEMS1	0.9355	50/50	0.9355
315138	1ROSEMG2	0.7070	50/50	0.7070
315139	1GASTONA	1.9383	50/50	1.9383
315141	1GASTONB	1.9383	50/50	1.9383
315293	1DOMTR9	2.0513	Adder	2.41
315294	1DOMTR10	2.5139	Adder	2.96
315601	1CONETOE2SOL	1.1895	50/50	1.1895
315606	3AA2-053SOLA	0.9246	50/50	0.9246
316020	AB2-059 C OP	4.4268	50/50	4.4268
316088	AB2-174 E	2.8075	Adder	3.3
316097	AB2-100 E1	1.0834	Adder	1.27
316099	AB2-100 E2	1.0834	Adder	1.27
316103	AB2-015 C	2.5912	Adder	3.05
316104	AB2-015 E	2.1248	Adder	2.5
316129	AC1-054 C	2.5555	Adder	3.01
316140	AB2-099 C (Suspended)	0.2729	Adder	0.32
316141	AB2-099 E (Suspended)	0.1170	Adder	0.14
900672	V4-068 E	0.1280	Adder	0.15
917332	Z2-043 E	0.9284	50/50	0.9284
917342	Z2-044 E	1.4235	50/50	1.4235
917512	Z2-088 E OP1	7.0561	50/50	7.0561
918492	AA1-063AE OP	2.0088	Adder	2.36
918512	AA1-065 E OP	1.4796	Adder	1.74
918532	AA1-067 E	0.2544	Adder	0.3
919692	AA2-053 E OP	2.4062	50/50	2.4062
919702	AA2-057 E OP	7.2586	50/50	7.2586
920042	AA2-088 E OP	4.1496	Adder	4.88
920591	AA2-165 C	0.3257	50/50	0.3257
920592	AA2-165 E	0.9976	50/50	0.9976
922922	AB1-081 C OP	3.7561	50/50	3.7561
922923	AB1-081 E OP	10.2031	50/50	10.2031
923262	AB1-132 C OP (Suspended)	9.3820	50/50	9.3820
923263	AB1-132 E OP (Suspended)	4.0208	50/50	4.0208
923573	AB1-173 E OP	0.4862	Adder	0.57
923991	AB2-040 C O1	3.3959	Adder	4.0
923992	AB2-040 E O1	2.7785	Adder	3.27
924152	AB2-059 E OP	14.4544	50/50	14.4544
925122	AB2-169 E	1.8344	Adder	2.16
925591	AC1-034 C	18.1743	50/50	18.1743
925592	AC1-034 E	13.7104	50/50	13.7104
925785	AC1-054 E	1.1772	Adder	1.38
926070	AC1-086 C	13.8161	50/50	13.8161
926071	AC1-086 E	6.2881	50/50	6.2881
926201	AC1-098 C	8.8191	50/50	8.8191
926202	AC1-098 E	5.2539	50/50	5.2539
926211	AC1-099 C	2.9553	50/50	2.9553
926212	AC1-099 E	1.7357	50/50	1.7357
927024	AC1-189 C	6.2804	50/50	6.2804
927025	AC1-189 E	3.1284	50/50	3.1284
927145	AC1-208 C	14.0422	50/50	14.0422
927146	AC1-208 E	6.2100	50/50	6.2100

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932631	AC2-084 C	12.5719	50/50	12.5719
932632	AC2-084 E	6.1921	50/50	6.1921
933991	AD1-023 C	4.0327	Adder	4.74
933992	AD1-023 E	2.1954	Adder	2.58
934331	AD1-057 C O1	10.5448	50/50	10.5448
934332	AD1-057 E O1	5.6251	50/50	5.6251
936401	AD2-051 C O1	3.2781	Adder	3.86
936402	AD2-051 E O1	1.4076	Adder	1.66
938222	AE1-035 E	0.4069	Adder	0.48
940571	AE2-044 C	11.9036	50/50	11.9036
940572	AE2-044 E	5.1016	50/50	5.1016
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2794	Adder	0.33
942471	AE2-260 C O1	5.1280	Adder	6.03
942472	AE2-260 E O1	7.2735	Adder	8.56
943171	AE2-346 C	0.6550	Adder	0.77
943172	AE2-346 E	0.2807	Adder	0.33
944141	AF1-082	7.6523	50/50	7.6523
946281	AF1-292 C	0.5743	Adder	0.68
946282	AF1-292 E	0.3872	Adder	0.46
957521	AF2-046 C	7.3234	Adder	8.62
957522	AF2-046 E	3.6837	Adder	4.33
957861	AF2-080 C	5.7041	50/50	5.7041
957862	AF2-080 E	2.5286	50/50	2.5286
959511	AF2-242 C	2.4228	Adder	2.85
959512	AF2-242 E	1.8844	Adder	2.22
960081	AF2-299 C	0.9680	Adder	1.14
960082	AF2-299 E	0.6453	Adder	0.76
961091	AF2-400 C	0.1399	Adder	0.16
961092	AF2-400 E	0.2296	Adder	0.27
961671	AG1-007 C	1.2437	50/50	1.2437
961672	AG1-007 E	0.6945	50/50	0.6945
961681	AG1-008 C	3.8892	Adder	8.63
961682	AG1-008 E	1.9446	Adder	4.32
961931	AG1-036 C	0.3255	Adder	0.72
961932	AG1-036 E	0.2170	Adder	0.48
961941	AG1-037 C	0.1240	Adder	0.28
961942	AG1-037 E	0.0826	Adder	0.18
962331	AG1-082 C	0.4959	Adder	1.1
962332	AG1-082 E	0.3306	Adder	0.73
962341	AG1-083 C	0.4959	Adder	1.1
962342	AG1-083 E	0.3306	Adder	0.73
962351	AG1-084 C	0.4442	Adder	0.99
962352	AG1-084 E	0.2961	Adder	0.66
962361	AG1-085 C	0.4442	Adder	0.99
962362	AG1-085 E	0.2961	Adder	0.66
962571	AG1-106 C	3.8421	50/50	3.8421
962572	AG1-106 E	1.7424	50/50	1.7424
964491	AG1-312 C O1	3.5814	Adder	7.95
964492	AG1-312 E O1	0.8953	Adder	1.99
964501	AG1-313 C O1	2.8627	50/50	2.8627
964502	AG1-313 E O1	1.9084	50/50	1.9084
964801	AG1-343 C	1.2896	Adder	2.86

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964802	AG1-343 E	1.0133	Adder	2.25
965291	AG1-394 C	0.4384	Adder	0.97
965292	AG1-394 E	0.2923	Adder	0.65
965691	AG1-437 C O1	1.7375	Adder	3.86
965692	AG1-437 E O1	1.1583	Adder	2.57
965701	AG1-438 C O1	1.7375	Adder	3.86
965702	AG1-438 E O1	1.1583	Adder	2.57
965711	AG1-439 C O1	21.3390	50/50	21.3390
965712	AG1-439 E O1	14.2260	50/50	14.2260
965741	AG1-442 O1	1.0135	Adder	2.25
965751	AG1-443 O1	1.0135	Adder	2.25
965761	AG1-444 O1	11.3808	50/50	11.3808
966621	AG1-532 C	0.2770	Adder	0.61
966622	AG1-532 E	0.1847	Adder	0.41
966751	AG1-546 C	3.1668	Adder	7.03
966752	AG1-546 E	1.6992	Adder	3.77
966801	AG1-551 C	0.4089	Adder	0.91
966802	AG1-551 E	0.1753	Adder	0.39
966811	AG1-552 C	1.3832	50/50	1.3832
966812	AG1-552 E	0.5928	50/50	0.5928
G-007A	G-007A	0.4867	Confirmed LTF	0.4867
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	0.7087	Confirmed LTF	0.7087
PRAIRIE	PRAIRIE	2.4719	Confirmed LTF	2.4719
CHEOAH	CHEOAH	0.7262	Confirmed LTF	0.7262
CBM-N	CBM-N	0.2340	Confirmed LTF	0.2340
COTTONWOOD	COTTONWOOD	2.6313	Confirmed LTF	2.6313
HAMLET	HAMLET	1.5263	Confirmed LTF	1.5263
GIBSON	GIBSON	0.4390	Confirmed LTF	0.4390
BLUEG	BLUEG	1.3558	Confirmed LTF	1.3558
TRIMBLE	TRIMBLE	0.4307	Confirmed LTF	0.4307
CATAWBA	CATAWBA	0.7581	Confirmed LTF	0.7581

11.6.32 Index 32

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169071636	314559	3CAROLNA	DVP	314561	6CAROLNA	DVP	1	DVP_P1-2: LN 68-A	single	239.89	148.16	159.58	DC	27.39

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960081	AF2-299 C	1.2731	80/20	1.2731
961091	AF2-400 C	0.7845	80/20	0.7845
961681	AG1-008 C	19.9960	80/20	19.9960
961791	AG1-021 C	0.6774	80/20	0.6774
961891	AG1-030 C	5.6061	80/20	5.6061
961931	AG1-036 C	1.2171	80/20	1.2171
961941	AG1-037 C	0.3193	80/20	0.3193
962041	AG1-048 C	4.2337	80/20	4.2337
962331	AG1-082 C	1.2773	80/20	1.2773
962341	AG1-083 C	1.2773	80/20	1.2773
962351	AG1-084 C	0.7200	80/20	0.7200
962361	AG1-085 C	0.7200	80/20	0.7200
963171	AG1-166 C	0.6774	80/20	0.6774
963181	AG1-167 C	0.6774	80/20	0.6774
963191	AG1-168 C	0.6774	80/20	0.6774
963201	AG1-169 C	0.6774	80/20	0.6774
963211	AG1-170 C	0.6774	80/20	0.6774
963301	AG1-179 C	2.9574	80/20	2.9574
963311	AG1-180	1.4409	80/20	1.4409
963321	AG1-181 C O1	7.6889	80/20	7.6889
963361	AG1-185 O1	3.7201	80/20	3.7201
963641	AG1-215 C	0.3161	80/20	0.3161
964111	AG1-272 C	1.1289	80/20	1.1289
964121	AG1-273 C	1.1289	80/20	1.1289
964131	AG1-274 C	1.1289	80/20	1.1289
964241	AG1-285 C O1	6.5573	80/20	6.5573
964501	AG1-313 C O1	7.6739	80/20	7.6739
964791	AG1-342 C	1.4230	80/20	1.4230
964801	AG1-343 C	9.7545	80/20	9.7545
964821	AG1-345 C	0.2719	80/20	0.2719
965191	AG1-384 C	1.1289	80/20	1.1289
965281	AG1-393 C	0.6774	80/20	0.6774
965291	AG1-394 C	3.4868	80/20	3.4868
965451	AG1-413 C O1	3.7213	80/20	3.7213
965591	AG1-427 C	6.1907	80/20	6.1907
965601	AG1-428 C O1	2.4689	80/20	2.4689
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

11.6.33 Index 33

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169071667	314561	6CAROLNA	DVP	314583	6LAKEVEW	DVP	1	DVP_P1-2: LN 246-B	single	375.06	113.95	119.16	DC	19.55

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
CPLE	CPLE	0.4402	Confirmed LTF	0.4402
CBM-W2	CBM-W2	1.4784	Confirmed LTF	1.4784
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

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
169071741	314561	6CAROLNA	DVP	314599	6ROA VAL	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	548.02	114.77	117.45	DC	14.69

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3482	80/20	9.3482
313527	AB2-043 C	0.2635	80/20	0.2635
313719	3CHESTNUT	0.6800	80/20	0.6800
314429	3JTRSVLE	0.1333	80/20	0.1333
314572	3EMPORIA	0.6240	80/20	0.6240
314623	3WITAKRS	0.1261	80/20	0.1261
314704	3LAWRENC	0.3599	80/20	0.3599
315126	1ROARAP2	1.5784	80/20	1.5784
315128	1ROARAP4	1.5063	80/20	1.5063
315131	1EDGECEMA (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315132	1EDGECEMB (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315136	1ROSEMG1	3.8526	80/20	3.8526
315137	1ROSEMS1	2.3890	80/20	2.3890
315138	1ROSEMG2	1.8056	80/20	1.8056
315139	1GASTONA	6.0576	80/20	6.0576
315141	1GASTONB	6.0576	80/20	6.0576
315158	1KERR 1	0.2406	80/20	0.2406
315159	1KERR 2	0.6736	80/20	0.6736
315160	1KERR 3	0.6736	80/20	0.6736

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315161	1KERR 4	0.6736	80/20	0.6736
315162	1KERR 5	0.6736	80/20	0.6736
315163	1KERR 6	0.6736	80/20	0.6736
315164	1KERR 7	0.6736	80/20	0.6736
315293	1DOMTR9	-3.2350	Adder	-3.81
315294	1DOMTR10	-3.9644	Adder	-4.66
315606	3AA2-053SOLA	1.2789	80/20	1.2789
315607	3AA1-063SOLA	1.1578	80/20	1.1578
315608	3AA2-088SOLA	0.3358	80/20	0.3358
316020	AB2-059 C OP	0.9918	80/20	0.9918
316087	AB2-174 C	1.5774	80/20	1.5774
316096	AB2-100 C1	1.6877	80/20	1.6877
316098	AB2-100 C2	1.6877	80/20	1.6877
316129	AC1-054 C	6.4409	80/20	6.4409
316131	AB2-060 C	0.7464	80/20	0.7464
920591	AA2-165 C	0.0913	80/20	0.0913
922922	AB1-081 C OP	0.8415	80/20	0.8415
923991	AB2-040 C O1	10.1812	80/20	10.1812
924301	AB2-077 C O1 (Suspended)	1.0495	80/20	1.0495
924311	AB2-078 C O1 (Suspended)	1.0495	80/20	1.0495
924321	AB2-079 C O1 (Suspended)	1.0495	80/20	1.0495
925591	AC1-034 C	4.0719	80/20	4.0719
925611	AC1-036 C	0.0939	80/20	0.0939
926070	AC1-086 C	43.1775	80/20	43.1775
926201	AC1-098 C	2.2605	80/20	2.2605
926211	AC1-099 C	0.7575	80/20	0.7575
927145	AC1-208 C	6.0536	80/20	6.0536
932631	AC2-084 C	3.2224	80/20	3.2224
934331	AD1-057 C O1	12.8767	80/20	12.8767
936265	AD2-033 C	5.6831	80/20	5.6831
936361	AD2-046 C O1	5.4499	80/20	5.4499
936485	AD2-063 C	7.2891	80/20	7.2891
939181	AE1-148 C	5.3455	80/20	5.3455
940481	AE2-033 C	28.0875	80/20	28.0875
940571	AE2-044 C	2.6670	80/20	2.6670
940661	AE2-053 O1	1.9798	80/20	1.9798
942451	AE2-258	1.2459	80/20	1.2459
942471	AE2-260 C O1	26.1001	80/20	26.1001
943911	AF1-059	16.2460	80/20	16.2460
944141	AF1-082	1.7145	80/20	1.7145
946011	AF1-266	23.5115	80/20	23.5115
946281	AF1-292 C	2.2861	80/20	2.2861
946301	AF1-294 C	1.3464	80/20	1.3464
958211	AF2-115 C	0.7920	80/20	0.7920
958801	AF2-171 C	4.7826	80/20	4.7826
959311	AF2-222 C	6.6870	80/20	6.6870
960081	AF2-299 C	3.8531	80/20	3.8531
961791	AG1-021 C	0.6336	80/20	0.6336
961891	AG1-030 C	5.2659	80/20	5.2659
962041	AG1-048 C	3.9600	80/20	3.9600

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962571	AG1-106 C	12.0073	80/20	12.0073
963171	AG1-166 C	0.6336	80/20	0.6336
963181	AG1-167 C	0.6336	80/20	0.6336
963191	AG1-168 C	0.6336	80/20	0.6336
963201	AG1-169 C	0.6336	80/20	0.6336
963211	AG1-170 C	0.6336	80/20	0.6336
963301	AG1-179 C	6.5008	80/20	6.5008
963311	AG1-180	3.1673	80/20	3.1673
963321	AG1-181 C O1	7.2785	80/20	7.2785
963361	AG1-185 O1	3.5215	80/20	3.5215
963641	AG1-215 C	0.2957	80/20	0.2957
964111	AG1-272 C	1.0672	80/20	1.0672
964121	AG1-273 C	1.0672	80/20	1.0672
964131	AG1-274 C	1.0672	80/20	1.0672
964241	AG1-285 C O1	6.2348	80/20	6.2348
964501	AG1-313 C O1	2.4851	80/20	2.4851
964791	AG1-342 C	1.3863	80/20	1.3863
964801	AG1-343 C	1.8312	80/20	1.8312
964821	AG1-345 C	0.2544	80/20	0.2544
965191	AG1-384 C	1.0672	80/20	1.0672
965281	AG1-393 C	0.6336	80/20	0.6336
965291	AG1-394 C	0.7217	80/20	0.7217
965451	AG1-413 C O1	6.8292	80/20	6.8292
965591	AG1-427 C	5.8849	80/20	5.8849
965601	AG1-428 C O1	5.4270	80/20	5.4270
965721	AG1-440 C	5.2830	80/20	5.2830
965731	AG1-441 C	5.2830	80/20	5.2830
965771	AG1-445	3.0524	80/20	3.0524
965781	AG1-446	3.0524	80/20	3.0524
966621	AG1-532 C	2.0806	80/20	2.0806
966751	AG1-546 C	14.6869	80/20	14.6869
966811	AG1-552 C	2.5061	80/20	2.5061
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2482	Confirmed LTF	0.2482
CPL	CPL	1.2381	Confirmed LTF	1.2381
CBM-W2	CBM-W2	5.1251	Confirmed LTF	5.1251
NY	NY	0.1637	Confirmed LTF	0.1637
TVA	TVA	0.9604	Confirmed LTF	0.9604
SIGE	SIGE	0.0801	Confirmed LTF	0.0801
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.2405	Confirmed LTF	0.2405
MEC	MEC	0.7103	Confirmed LTF	0.7103
LAGN	LAGN	1.1900	Confirmed LTF	1.1900
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

11.6.35 Index 35

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169071581	314562	3CLUBHSE	DVP	314563	6CLUBHSE	DVP	1	DVP_P1-2: LN 2201	single	182.64	238.6	245.59	DC	12.77

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

11.6.36 Index 36

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163418040	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	164.43	168.19	DC	31.22

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

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

11.6.37 Index 37

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169071657	314568	3EARLEYS	DVP	314569	6EARLEYS	DVP	2	DVP_P1-3: 6EARLEYS-TX#3	single	175.78	143.61	147.81	DC	7.38

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
CPLE	CPLE	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

11.6.38 Index 38

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169071701	314568	3EARLEYS	DVP	314569	6EARLEYS	DVP	1	DVP_P1-3: 6EARLEYS-TX#4	single	202.48	124.78	128.43	DC	7.39

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
CPLE	CPLE	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

11.6.39 Index 39

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169071545	314569	6EARLEYS	DVP	314575	6NUCO TP	DVP	1	DVP_P1-2: LN 2092	single	571.52	244.64	246.73	DC	11.95

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	5.3764	80/20	5.3764
313527	AB2-043 C	0.1797	80/20	0.1797
313719	3CHESTNUT	1.2166	80/20	1.2166
314572	3EMPORIA	0.2919	80/20	0.2919
314582	3KELFORD	0.6058	80/20	0.6058
314589	3MURPHYS	0.0945	80/20	0.0945
314623	3WITAKRS	0.2162	80/20	0.2162
314704	3LAWRENC	0.1658	80/20	0.1658
315115	1S HAMPT1	0.4948	80/20	0.4948
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGE CMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315132	1EDGE CMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6258	80/20	2.6258
315293	1DOMTR9	13.5807	80/20	13.5807
315294	1DOMTR10	16.6430	80/20	16.6430
315601	1CONETOE2SOL	1.7196	80/20	1.7196
315602	1HOLLOMAN SOL	3.2518	80/20	3.2518
315606	3AA2-053SOLA	1.6490	80/20	1.6490
315607	3AA1-063SOLA	1.1822	80/20	1.1822
315608	3AA2-088SOLA	0.6872	80/20	0.6872
315611	6Z1-036WIND	2.1843	80/20	2.1843
315614	AA2-178 C	3.1366	80/20	3.1366
316020	AB2-059 C OP	1.5978	80/20	1.5978
316087	AB2-174 C	0.8423	80/20	0.8423
316096	AB2-100 C1	0.5758	80/20	0.5758
316098	AB2-100 C2	0.5758	80/20	0.5758
316129	AC1-054 C	5.2403	80/20	5.2403

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	0.5087	80/20	0.5087
316140	AB2-099 C (Suspended)	1.0074	80/20	1.0074
920591	AA2-165 C	0.1633	80/20	0.1633
922922	AB1-081 C OP	1.3557	80/20	1.3557
923991	AB2-040 C O1	5.8555	80/20	5.8555
924301	AB2-077 C O1 (Suspended)	0.7260	80/20	0.7260
924311	AB2-078 C O1 (Suspended)	0.7260	80/20	0.7260
924321	AB2-079 C O1 (Suspended)	0.7260	80/20	0.7260
925121	AB2-169 C	1.8885	80/20	1.8885
925591	AC1-034 C	6.5600	80/20	6.5600
926070	AC1-086 C	22.3600	80/20	22.3600
926201	AC1-098 C	8.0404	80/20	8.0404
926211	AC1-099 C	2.6944	80/20	2.6944
927024	AC1-189 C	11.8698	80/20	11.8698
927145	AC1-208 C	10.1498	80/20	10.1498
932631	AC2-084 C	11.4618	80/20	11.4618
933991	AD1-023 C	28.1849	80/20	28.1849
934331	AD1-057 C O1	10.1494	80/20	10.1494
934521	AD1-076 C	113.8581	80/20	113.8581
936361	AD2-046 C O1	4.3133	80/20	4.3133
936401	AD2-051 C O1	19.8559	80/20	19.8559
936485	AD2-063 C	4.9392	80/20	4.9392
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2104	80/20	4.2104
940481	AE2-033 C	4.4571	80/20	4.4571
940491	AE2-034 C	14.9108	80/20	14.9108
940571	AE2-044 C	4.2966	80/20	4.2966
940661	AE2-053 O1	1.5594	80/20	1.5594
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.3297	80/20	0.3297
942131	AE2-225 C	-1.0743	Adder	-1.26
942171	AE2-229 C	-0.8057	Adder	-0.95
942451	AE2-258	0.8499	80/20	0.8499
942471	AE2-260 C O1	8.2667	80/20	8.2667
943171	AE2-346 C	2.4178	80/20	2.4178
943611	AF1-032 C	-0.8773	Adder	-1.03
943911	AF1-059	8.1959	80/20	8.1959
944141	AF1-082	2.7621	80/20	2.7621
945711	AF1-236 C O1	163.2382	80/20	163.2382
946281	AF1-292 C	0.9810	80/20	0.9810
957491	AF2-043 C	-1.0743	Adder	-1.26
957521	AF2-046 C	20.4271	80/20	20.4271
957531	AF2-047 C	35.4310	80/20	35.4310
957861	AF2-080 C	10.7806	80/20	10.7806
959511	AF2-242 C	13.0307	80/20	13.0307
960081	AF2-299 C	1.6533	80/20	1.6533
961671	AG1-007 C	1.4833	80/20	1.4833
961681	AG1-008 C	20.4680	80/20	20.4680
961931	AG1-036 C	2.0158	80/20	2.0158
961941	AG1-037 C	0.8635	80/20	0.8635

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962331	AG1-082 C	3.4540	80/20	3.4540
962341	AG1-083 C	3.4540	80/20	3.4540
962351	AG1-084 C	3.3758	80/20	3.3758
962361	AG1-085 C	3.3758	80/20	3.3758
962571	AG1-106 C	6.2181	80/20	6.2181
963301	AG1-179 C	3.0738	80/20	3.0738
963311	AG1-180	1.4976	80/20	1.4976
964241	AG1-285 C O1	4.2330	80/20	4.2330
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O1	6.1567	80/20	6.1567
964801	AG1-343 C	4.7135	80/20	4.7135
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O1	3.4453	80/20	3.4453
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O1	2.5661	80/20	2.5661
965631	AG1-431	94.5063	80/20	94.5063
965691	AG1-437 C O1	22.1316	80/20	22.1316
965701	AG1-438 C O1	22.1316	80/20	22.1316
965711	AG1-439 C O1	30.8475	80/20	30.8475
965721	AG1-440 C	4.2890	80/20	4.2890
965731	AG1-441 C	4.2890	80/20	4.2890
965741	AG1-442 O1	12.9101	80/20	12.9101
965751	AG1-443 O1	12.9101	80/20	12.9101
965761	AG1-444 O1	16.4520	80/20	16.4520
965771	AG1-445	2.4781	80/20	2.4781
965781	AG1-446	2.4781	80/20	2.4781
966621	AG1-532 C	0.8928	80/20	0.8928
966751	AG1-546 C	11.9536	80/20	11.9536
966801	AG1-551 C	3.8374	80/20	3.8374
966811	AG1-552 C	2.0442	80/20	2.0442
966931	AG1-431A	71.0040	80/20	71.0040
WEC	WEC	0.3330	Confirmed LTF	0.3330
LGEE	LGEE	0.6786	Confirmed LTF	0.6786
CPL	CPL	3.7381	Confirmed LTF	3.7381
CBM-W2	CBM-W2	14.1299	Confirmed LTF	14.1299
NY	NY	0.3019	Confirmed LTF	0.3019
TVA	TVA	2.6320	Confirmed LTF	2.6320
SIGE	SIGE	0.1896	Confirmed LTF	0.1896
CBM-S2	CBM-S2	40.4863	Confirmed LTF	40.4863
CBM-S1	CBM-S1	0.6593	Confirmed LTF	0.6593
MEC	MEC	1.9656	Confirmed LTF	1.9656
LAGN	LAGN	3.2847	Confirmed LTF	3.2847
AA2-074	AA2-074	2.4687	LTF	2.4687
CBM-W1	CBM-W1	14.0621	Confirmed LTF	14.0621

11.6.40 Index 40

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163938559	314574	6EVERETS	DVP	304451	6GREENVILLE	CPL	1	DVP_P7-1: LN 2058-2181	tower	478.0	234.36	235.25	DC	9.47

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.9855	Adder	3.51
314539	3UNCAMP	2.4187	Adder	2.85
314541	3WATKINS	0.2950	Adder	0.35
314572	3EMPORIA	0.1716	Adder	0.2
314582	3KELFORD	0.2963	50/50	0.2963
314589	3MURPHYS	0.0602	50/50	0.0602
314594	6PLYMOTH	0.0896	50/50	0.0896
314632	6AYDLETOLD	0.6586	Adder	0.77
315131	1EDGECEMA (Deactivation : 22/04/2019)	9.5990	50/50	9.5990
315132	1EDGECEMB (Deactivation : 22/04/2019)	9.5990	50/50	9.5990
315136	1ROSEMG1	1.5370	50/50	1.5370
315137	1ROSEMS1	0.9531	50/50	0.9531
315138	1ROSEMG2	0.7203	50/50	0.7203
315139	1GASTONA	2.1216	50/50	2.1216
315141	1GASTONB	2.1216	50/50	2.1216
315292	1DOMTR78	1.6763	50/50	1.6763
315293	1DOMTR9	8.6700	50/50	8.6700
315294	1DOMTR10	10.6250	50/50	10.6250
315601	1CONETOESOL	2.1704	50/50	2.1704
315602	1HOLLOMANSOL	1.5332	50/50	1.5332
315606	3AA2-053SOLA	0.9398	50/50	0.9398
315611	6Z1-036WIND	0.6573	50/50	0.6573
315614	AA2-178 C	1.2997	50/50	1.2997
316088	AB2-174 E	2.7352	Adder	3.22
316097	AB2-100 E1	1.2133	Adder	1.43
316099	AB2-100 E2	1.2133	Adder	1.43
316103	AB2-015 C	3.5908	Adder	4.22
316104	AB2-015 E	2.9445	Adder	3.46
316140	AB2-099 C (Suspended)	0.5180	50/50	0.5180
316141	AB2-099 E (Suspended)	0.2220	50/50	0.2220
900672	V4-068 E	0.2092	50/50	0.2092
901082	W1-029 E	18.7397	Adder	22.05
913392	Y1-086 E	0.7676	Adder	0.9
916042	Z1-036 E (Suspended)	27.9147	50/50	27.9147
917122	Z2-027 E	0.3981	Adder	0.47
917332	Z2-043 E	0.8838	50/50	0.8838
917342	Z2-044 E	0.2085	Adder	0.25
917512	Z2-088 E OP1	12.8742	50/50	12.8742
918492	AA1-063AE OP	2.0182	Adder	2.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
918512	AA1-065 E OP	4.3514	50/50	4.3514
918532	AA1-067 E	1.5974	50/50	1.5974
919692	AA2-053 E OP	2.4457	50/50	2.4457
919702	AA2-057 E OP	1.3810	Adder	1.62
920042	AA2-088 E OP	5.1904	Adder	6.11
920592	AA2-165 E	0.1898	Adder	0.22
920692	AA2-178 E	3.5306	50/50	3.5306
922923	AB1-081 E OP	1.4211	Adder	1.67
923262	AB1-132 C OP (Suspended)	10.2690	50/50	10.2690
923263	AB1-132 E OP (Suspended)	4.4010	50/50	4.4010
923573	AB1-173 E OP	0.4656	Adder	0.55
923832	AB2-022 E	0.4333	Adder	0.51
923991	AB2-040 C O1	3.2516	Adder	3.83
923992	AB2-040 E O1	2.6604	Adder	3.13
924152	AB2-059 E OP	2.0132	Adder	2.37
925121	AB2-169 C	1.6064	50/50	1.6064
925122	AB2-169 E	9.1375	50/50	9.1375
925591	AC1-034 C	2.5313	Adder	2.98
925592	AC1-034 E	1.9096	Adder	2.25
926070	AC1-086 C	15.1223	50/50	15.1223
926071	AC1-086 E	6.8827	50/50	6.8827
926201	AC1-098 C	3.8972	50/50	3.8972
926202	AC1-098 E	2.3218	50/50	2.3218
926211	AC1-099 C	1.3060	50/50	1.3060
926212	AC1-099 E	0.7670	50/50	0.7670
927024	AC1-189 C	15.5186	50/50	15.5186
927025	AC1-189 E	7.7302	50/50	7.7302
927145	AC1-208 C	4.2602	Adder	5.01
927146	AC1-208 E	1.8840	Adder	2.22
932631	AC2-084 C	5.5556	50/50	5.5556
932632	AC2-084 E	2.7364	50/50	2.7364
933991	AD1-023 C	13.4949	50/50	13.4949
933992	AD1-023 E	7.3467	50/50	7.3467
934331	AD1-057 C O1	8.8818	50/50	8.8818
934332	AD1-057 E O1	4.7379	50/50	4.7379
934521	AD1-076 C	54.8301	50/50	54.8301
934522	AD1-076 E	27.9194	50/50	27.9194
936401	AD2-051 C O1	9.4142	50/50	9.4142
936402	AD2-051 E O1	4.0424	50/50	4.0424
938221	AE1-035 C	0.3834	50/50	0.3834
938222	AE1-035 E	1.1966	50/50	1.1966
938535	AE1-072 C	5.1769	Adder	6.09
938536	AE1-072 E	2.6669	Adder	3.14
938771	AE1-103 C	1.3869	Adder	1.63
938772	AE1-103 E	1.9153	Adder	2.25
940491	AE2-034 C	6.1786	50/50	6.1786
940492	AE2-034 E	2.6480	50/50	2.6480
940571	AE2-044 C	1.6579	Adder	1.95
940572	AE2-044 E	0.7105	Adder	0.84
941501	AE2-147 C	6.4620	Adder	7.6
941502	AE2-147 E	4.3080	Adder	5.07

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1618	50/50	0.1618
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5523	50/50	0.5523
942471	AE2-260 C O1	5.7670	Adder	6.78
942472	AE2-260 E O1	8.1798	Adder	9.62
943171	AE2-346 C	1.2432	50/50	1.2432
943172	AE2-346 E	0.5328	50/50	0.5328
944141	AF1-082	1.0658	Adder	1.25
944871	AF1-152 C	2.1540	Adder	2.53
944872	AF1-152 E	1.4360	Adder	1.69
945711	AF1-236 C O1	67.6412	50/50	67.6412
945712	AF1-236 E O1	41.7792	50/50	41.7792
946281	AF1-292 C	0.5921	Adder	0.7
946282	AF1-292 E	0.3992	Adder	0.47
957521	AF2-046 C	12.3552	50/50	12.3552
957522	AF2-046 E	6.2148	50/50	6.2148
957531	AF2-047 C	14.6816	50/50	14.6816
957532	AF2-047 E	7.3849	50/50	7.3849
957821	AF2-076 C	1.7985	Adder	2.12
957822	AF2-076 E	1.1990	Adder	1.41
957861	AF2-080 C	14.0946	50/50	14.0946
957862	AF2-080 E	6.2481	50/50	6.2481
959511	AF2-242 C	13.2102	50/50	13.2102
959512	AF2-242 E	10.2746	50/50	10.2746
960081	AF2-299 C	0.9979	Adder	1.17
960082	AF2-299 E	0.6653	Adder	0.78
961091	AF2-400 C	0.1939	Adder	0.23
961092	AF2-400 E	0.3181	Adder	0.37
961671	AG1-007 C	1.8117	50/50	1.8117
961672	AG1-007 E	1.0117	50/50	1.0117
961681	AG1-008 C	12.3800	50/50	12.3800
961682	AG1-008 E	6.1900	50/50	6.1900
961851	AG1-027 C	2.9209	Adder	6.48
961852	AG1-027 E	1.6147	Adder	3.58
961931	AG1-036 C	1.1069	50/50	1.1069
961932	AG1-036 E	0.7380	50/50	0.7380
961941	AG1-037 C	0.4440	50/50	0.4440
961942	AG1-037 E	0.2960	50/50	0.2960
962331	AG1-082 C	1.7760	50/50	1.7760
962332	AG1-082 E	1.1840	50/50	1.1840
962341	AG1-083 C	1.7760	50/50	1.7760
962342	AG1-083 E	1.1840	50/50	1.1840
962351	AG1-084 C	1.6569	50/50	1.6569
962352	AG1-084 E	1.1046	50/50	1.1046
962361	AG1-085 C	1.6569	50/50	1.6569
962362	AG1-085 E	1.1046	50/50	1.1046
962571	AG1-106 C	4.2054	50/50	4.2054
962572	AG1-106 E	1.9071	50/50	1.9071
964491	AG1-312 C O1	20.1914	50/50	20.1914
964492	AG1-312 E O1	5.0478	50/50	5.0478
964501	AG1-313 C O1	3.3352	50/50	3.3352
964502	AG1-313 E O1	2.2235	50/50	2.2235

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964801	AG1-343 C	3.6197	50/50	3.6197
964802	AG1-343 E	2.8440	50/50	2.8440
965291	AG1-394 C	1.2042	50/50	1.2042
965292	AG1-394 E	0.8028	50/50	0.8028
965631	AG1-431	39.1607	50/50	39.1607
965691	AG1-437 C O1	10.5492	50/50	10.5492
965692	AG1-437 E O1	7.0328	50/50	7.0328
965701	AG1-438 C O1	10.5492	50/50	10.5492
965702	AG1-438 E O1	7.0328	50/50	7.0328
965711	AG1-439 C O1	38.9340	50/50	38.9340
965712	AG1-439 E O1	25.9560	50/50	25.9560
965741	AG1-442 O1	6.1537	50/50	6.1537
965751	AG1-443 O1	6.1537	50/50	6.1537
965761	AG1-444 O1	20.7648	50/50	20.7648
966621	AG1-532 C	0.2856	Adder	0.63
966622	AG1-532 E	0.1904	Adder	0.42
966751	AG1-546 C	2.7754	Adder	6.16
966752	AG1-546 E	1.4892	Adder	3.31
966801	AG1-551 C	4.5154	50/50	4.5154
966802	AG1-551 E	1.9352	50/50	1.9352
966811	AG1-552 C	0.5563	Adder	1.23
966812	AG1-552 E	0.2384	Adder	0.53
966931	AG1-431A	29.4220	50/50	29.4220
G-007A	G-007A	1.1364	Confirmed LTF	1.1364
VFT	VFT	3.0250	Confirmed LTF	3.0250
CALDERWOOD	CALDERWOOD	1.3349	Confirmed LTF	1.3349
PRAIRIE	PRAIRIE	4.5383	Confirmed LTF	4.5383
AC1-131	AC1-131	5.3107	LTF	5.3107
CHEOAH	CHEOAH	1.3689	Confirmed LTF	1.3689
CBM-N	CBM-N	0.5508	Confirmed LTF	0.5508
COTTONWOOD	COTTONWOOD	4.9854	Confirmed LTF	4.9854
HAMLET	HAMLET	3.1098	Confirmed LTF	3.1098
GIBSON	GIBSON	0.7851	Confirmed LTF	0.7851
BLUEG	BLUEG	2.4096	Confirmed LTF	2.4096
TRIMBLE	TRIMBLE	0.7641	Confirmed LTF	0.7641
CATAWBA	CATAWBA	1.4357	Confirmed LTF	1.4357

11.6.41 Index 41

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169071563	314575	6NUCO TP	DVP	957820	AF2-076 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	235.96	238.05	DC	11.95

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	5.3764	80/20	5.3764
313527	AB2-043 C	0.1797	80/20	0.1797

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	1.2166	80/20	1.2166
314572	3EMPORIA	0.2919	80/20	0.2919
314582	3KELFORD	0.6058	80/20	0.6058
314589	3MURPHYS	0.0945	80/20	0.0945
314623	3WITAKRS	0.2162	80/20	0.2162
314704	3LAWRENC	0.1658	80/20	0.1658
315115	1S HAMPT1	0.4948	80/20	0.4948
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGECSMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315132	1EDGECSMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6258	80/20	2.6258
315293	1DOMTR9	13.5807	80/20	13.5807
315294	1DOMTR10	16.6430	80/20	16.6430
315601	1CONETO2SOL	1.7196	80/20	1.7196
315602	1HOLLOMAN SOL	3.2518	80/20	3.2518
315606	3AA2-053SOLA	1.6490	80/20	1.6490
315607	3AA1-063SOLA	1.1822	80/20	1.1822
315608	3AA2-088SOLA	0.6872	80/20	0.6872
315611	6Z1-036WIND	2.1843	80/20	2.1843
315614	AA2-178 C	3.1366	80/20	3.1366
316020	AB2-059 C OP	1.5978	80/20	1.5978
316087	AB2-174 C	0.8423	80/20	0.8423
316096	AB2-100 C1	0.5758	80/20	0.5758
316098	AB2-100 C2	0.5758	80/20	0.5758
316129	AC1-054 C	5.2403	80/20	5.2403
316131	AB2-060 C	0.5087	80/20	0.5087
316140	AB2-099 C (Suspended)	1.0074	80/20	1.0074
920591	AA2-165 C	0.1633	80/20	0.1633
922922	AB1-081 C OP	1.3557	80/20	1.3557
923991	AB2-040 C O1	5.8555	80/20	5.8555
924301	AB2-077 C O1 (Suspended)	0.7260	80/20	0.7260
924311	AB2-078 C O1 (Suspended)	0.7260	80/20	0.7260
924321	AB2-079 C O1 (Suspended)	0.7260	80/20	0.7260
925121	AB2-169 C	1.8885	80/20	1.8885
925591	AC1-034 C	6.5600	80/20	6.5600

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926070	AC1-086 C	22.3600	80/20	22.3600
926201	AC1-098 C	8.0404	80/20	8.0404
926211	AC1-099 C	2.6944	80/20	2.6944
927024	AC1-189 C	11.8698	80/20	11.8698
927145	AC1-208 C	10.1498	80/20	10.1498
932631	AC2-084 C	11.4618	80/20	11.4618
933991	AD1-023 C	28.1849	80/20	28.1849
934331	AD1-057 C O1	10.1494	80/20	10.1494
934521	AD1-076 C	113.8581	80/20	113.8581
936361	AD2-046 C O1	4.3133	80/20	4.3133
936401	AD2-051 C O1	19.8559	80/20	19.8559
936485	AD2-063 C	4.9392	80/20	4.9392
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2104	80/20	4.2104
940481	AE2-033 C	4.4571	80/20	4.4571
940491	AE2-034 C	14.9108	80/20	14.9108
940571	AE2-044 C	4.2966	80/20	4.2966
940661	AE2-053 O1	1.5594	80/20	1.5594
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.3297	80/20	0.3297
942131	AE2-225 C	-1.0743	Adder	-1.26
942171	AE2-229 C	-0.8057	Adder	-0.95
942451	AE2-258	0.8499	80/20	0.8499
942471	AE2-260 C O1	8.2667	80/20	8.2667
943171	AE2-346 C	2.4178	80/20	2.4178
943611	AF1-032 C	-0.8773	Adder	-1.03
943911	AF1-059	8.1959	80/20	8.1959
944141	AF1-082	2.7621	80/20	2.7621
945711	AF1-236 C O1	163.2382	80/20	163.2382
946281	AF1-292 C	0.9810	80/20	0.9810
957491	AF2-043 C	-1.0743	Adder	-1.26
957521	AF2-046 C	20.4271	80/20	20.4271
957531	AF2-047 C	35.4310	80/20	35.4310
957861	AF2-080 C	10.7806	80/20	10.7806
959511	AF2-242 C	13.0307	80/20	13.0307
960081	AF2-299 C	1.6533	80/20	1.6533
961671	AG1-007 C	1.4833	80/20	1.4833
961681	AG1-008 C	20.4680	80/20	20.4680
961931	AG1-036 C	2.0158	80/20	2.0158
961941	AG1-037 C	0.8635	80/20	0.8635
962331	AG1-082 C	3.4540	80/20	3.4540
962341	AG1-083 C	3.4540	80/20	3.4540
962351	AG1-084 C	3.3758	80/20	3.3758
962361	AG1-085 C	3.3758	80/20	3.3758
962571	AG1-106 C	6.2181	80/20	6.2181
963301	AG1-179 C	3.0738	80/20	3.0738
963311	AG1-180	1.4976	80/20	1.4976
964241	AG1-285 C O1	4.2330	80/20	4.2330
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O1	6.1567	80/20	6.1567
964801	AG1-343 C	4.7135	80/20	4.7135
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O1	3.4453	80/20	3.4453

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O1	2.5661	80/20	2.5661
965631	AG1-431	94.5063	80/20	94.5063
965691	AG1-437 C O1	22.1316	80/20	22.1316
965701	AG1-438 C O1	22.1316	80/20	22.1316
965711	AG1-439 C O1	30.8475	80/20	30.8475
965721	AG1-440 C	4.2890	80/20	4.2890
965731	AG1-441 C	4.2890	80/20	4.2890
965741	AG1-442 O1	12.9101	80/20	12.9101
965751	AG1-443 O1	12.9101	80/20	12.9101
965761	AG1-444 O1	16.4520	80/20	16.4520
965771	AG1-445	2.4781	80/20	2.4781
965781	AG1-446	2.4781	80/20	2.4781
966621	AG1-532 C	0.8928	80/20	0.8928
966751	AG1-546 C	11.9536	80/20	11.9536
966801	AG1-551 C	3.8374	80/20	3.8374
966811	AG1-552 C	2.0442	80/20	2.0442
966931	AG1-431A	71.0040	80/20	71.0040
WEC	WEC	0.3330	Confirmed LTF	0.3330
LGEE	LGEE	0.6786	Confirmed LTF	0.6786
CPLE	CPLE	3.7381	Confirmed LTF	3.7381
CBM-W2	CBM-W2	14.1299	Confirmed LTF	14.1299
NY	NY	0.3019	Confirmed LTF	0.3019
TVA	TVA	2.6320	Confirmed LTF	2.6320
SIGE	SIGE	0.1896	Confirmed LTF	0.1896
CBM-S2	CBM-S2	40.4863	Confirmed LTF	40.4863
CBM-S1	CBM-S1	0.6593	Confirmed LTF	0.6593
MEC	MEC	1.9656	Confirmed LTF	1.9656
LAGN	LAGN	3.2847	Confirmed LTF	3.2847
AA2-074	AA2-074	2.4687	LTF	2.4687
CBM-W1	CBM-W1	14.0621	Confirmed LTF	14.0621

11.6.42 Index 42

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169071697	314579	6HORNRTN	DVP	934330	AD1-057 TAP	DVP	1	DVP_P1-2: LN 238-A	single	441.8	134.42	137.59	DC	14.01

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946281	AF1-292 C	2.3063	80/20	2.3063
957521	AF2-046 C	11.4780	80/20	11.4780
959311	AF2-222 C	5.9580	80/20	5.9580
960081	AF2-299 C	3.8870	80/20	3.8870
961091	AF2-400 C	0.2397	80/20	0.2397
961681	AG1-008 C	11.5010	80/20	11.5010
961891	AG1-030 C	4.7403	80/20	4.7403
961931	AG1-036 C	0.8882	80/20	0.8882
961941	AG1-037 C	0.3148	80/20	0.3148
962331	AG1-082 C	1.2593	80/20	1.2593
962341	AG1-083 C	1.2593	80/20	1.2593
962351	AG1-084 C	1.0590	80/20	1.0590
962361	AG1-085 C	1.0590	80/20	1.0590
962571	AG1-106 C	12.2447	80/20	12.2447
963301	AG1-179 C	6.4075	80/20	6.4075
963311	AG1-180	3.1219	80/20	3.1219
963321	AG1-181 C O1	6.4516	80/20	6.4516
963361	AG1-185 O1	3.1214	80/20	3.1214
964111	AG1-272 C	0.9486	80/20	0.9486
964121	AG1-273 C	0.9486	80/20	0.9486
964131	AG1-274 C	0.9486	80/20	0.9486
964241	AG1-285 C O1	5.4765	80/20	5.4765
964491	AG1-312 C O1	10.1315	80/20	10.1315
964501	AG1-313 C O1	4.4867	80/20	4.4867
964801	AG1-343 C	4.3221	80/20	4.3221
965191	AG1-384 C	0.9486	80/20	0.9486
965291	AG1-394 C	1.4972	80/20	1.4972
965451	AG1-413 C O1	6.6178	80/20	6.6178
965591	AG1-427 C	5.1711	80/20	5.1711
965601	AG1-428 C O1	5.3491	80/20	5.3491
965691	AG1-437 C O1	4.4274	80/20	4.4274
965701	AG1-438 C O1	4.4274	80/20	4.4274
965721	AG1-440 C	4.6998	80/20	4.6998
965731	AG1-441 C	4.6998	80/20	4.6998
965741	AG1-442 O1	2.5826	80/20	2.5826
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CATAWBA	CATAWBA	0.6983	Confirmed LTF	0.6983

11.6.43 Index 43

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163417990	314583	6LAKEVEW	DVP	313725	6DRY BREAD	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	203.47	205.02	DC	15.79

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

11.6.44 Index 44

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169071776	314583	6LAKEVEW	DVP	314579	6HORNRTN	DVP	1	DVP_P1-2: LN 238-A	single	441.8	106.91	110.1	DC	14.09

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

11.6.45 ndex 45

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163937920	314591	6NASH	DVP	304226	6PA-RMOUNT#4	CPL	1	DVP_P1-2: LN 2058	single	478.0	140.62	142.37	DC	8.39

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.8981	80/20	4.8981
313719	3CHESTNUT	0.9415	80/20	0.9415
314435	6SAPONY	0.1663	80/20	0.1663
314572	3EMPORIA	0.2884	80/20	0.2884
314582	3KELFORD	0.2606	80/20	0.2606
314589	3MURPHYS	0.0543	80/20	0.0543
314623	3WITAKRS	0.1788	80/20	0.1788
314639	6TANGLEW	0.1106	80/20	0.1106
314704	3LAWRENC	0.1552	80/20	0.1552
315115	1S HAMPT1	0.7028	80/20	0.7028
315126	1ROARAP2	1.0451	80/20	1.0451
315128	1ROARAP4	0.9973	80/20	0.9973
315131	1EDGECEMA (Deactivation : 22/04/2019)	26.6922	80/20	26.6922
315132	1EDGECEMB (Deactivation : 22/04/2019)	26.6922	80/20	26.6922
315136	1ROSEMG1	2.7702	80/20	2.7702
315137	1ROSEMS1	1.7178	80/20	1.7178
315138	1ROSEMG2	1.2983	80/20	1.2983
315139	1GASTONA	3.4079	80/20	3.4079
315141	1GASTONB	3.4079	80/20	3.4079
315292	1DOMTR78	0.8158	80/20	0.8158
315293	1DOMTR9	4.2195	80/20	4.2195
315294	1DOMTR10	5.1710	80/20	5.1710
315601	1CONETOE2SOL	2.4841	80/20	2.4841
315602	1HOLLOMANSOL	0.9804	80/20	0.9804
315605	6W1-029WIND	0.3297	80/20	0.3297
315606	3AA2-053SOLA	1.1164	80/20	1.1164
315607	3AA1-063SOLA	0.9620	80/20	0.9620
315608	3AA2-088SOLA	0.5932	80/20	0.5932
315611	6Z1-036WIND	0.3953	80/20	0.3953
315614	AA2-178 C	0.7394	80/20	0.7394
316020	AB2-059 C OP	1.7747	80/20	1.7747
316087	AB2-174 C	0.7892	80/20	0.7892
316096	AB2-100 C1	0.6912	80/20	0.6912
316098	AB2-100 C2	0.6912	80/20	0.6912
316103	AB2-015 C	3.9820	80/20	3.9820
316129	AC1-054 C	3.5854	80/20	3.5854
316140	AB2-099 C (Suspended)	0.4014	80/20	0.4014
920591	AA2-165 C	0.1264	80/20	0.1264
922922	AB1-081 C OP	1.5058	80/20	1.5058
923991	AB2-040 C O1	5.3346	80/20	5.3346

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925121	AB2-169 C	0.6954	80/20	0.6954
925591	AC1-034 C	7.2859	80/20	7.2859
926070	AC1-086 C	24.2910	80/20	24.2910
926201	AC1-098 C	4.8342	80/20	4.8342
926211	AC1-099 C	1.6200	80/20	1.6200
927024	AC1-189 C	12.9879	80/20	12.9879
927145	AC1-208 C	7.2851	80/20	7.2851
932631	AC2-084 C	6.8914	80/20	6.8914
933991	AD1-023 C	7.8190	80/20	7.8190
934331	AD1-057 C O1	21.2858	80/20	21.2858
934521	AD1-076 C	30.5338	80/20	30.5338
936401	AD2-051 C O1	6.1863	80/20	6.1863
938221	AE1-035 C	0.2451	80/20	0.2451
938771	AE1-103 C	1.4755	80/20	1.4755
940481	AE2-033 C	7.4057	80/20	7.4057
940491	AE2-034 C	3.5150	80/20	3.5150
940541	AE2-040	1.1995	80/20	1.1995
940571	AE2-044 C	4.7720	80/20	4.7720
941501	AE2-147 C	4.8222	80/20	4.8222
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1204	80/20	0.1204
942471	AE2-260 C O1	10.1365	80/20	10.1365
943171	AE2-346 C	0.9633	80/20	0.9633
943911	AF1-059	6.8021	80/20	6.8021
944141	AF1-082	3.0677	80/20	3.0677
944871	AF1-152 C	1.6074	80/20	1.6074
945711	AF1-236 C O1	38.4807	80/20	38.4807
946011	AF1-266	6.1991	80/20	6.1991
946281	AF1-292 C	1.0061	80/20	1.0061
957521	AF2-046 C	10.7784	80/20	10.7784
957531	AF2-047 C	8.3523	80/20	8.3523
957861	AF2-080 C	11.7962	80/20	11.7962
959511	AF2-242 C	5.3743	80/20	5.3743
960081	AF2-299 C	1.6956	80/20	1.6956
961091	AF2-400 C	0.2150	80/20	0.2150
961671	AG1-007 C	2.6116	80/20	2.6116
961681	AG1-008 C	10.8000	80/20	10.8000
961851	AG1-027 C	5.3768	80/20	5.3768
961931	AG1-036 C	0.9036	80/20	0.9036
961941	AG1-037 C	0.3440	80/20	0.3440
962331	AG1-082 C	1.3762	80/20	1.3762
962341	AG1-083 C	1.3762	80/20	1.3762
962351	AG1-084 C	1.2326	80/20	1.2326
962361	AG1-085 C	1.2326	80/20	1.2326
962571	AG1-106 C	6.7551	80/20	6.7551
963301	AG1-179 C	2.7800	80/20	2.7800
963311	AG1-180	1.3545	80/20	1.3545
964491	AG1-312 C O1	12.7534	80/20	12.7534
964501	AG1-313 C O1	3.4839	80/20	3.4839
964801	AG1-343 C	3.5833	80/20	3.5833
965291	AG1-394 C	1.2184	80/20	1.2184
965451	AG1-413 C O1	2.8594	80/20	2.8594
965601	AG1-428 C O1	2.3208	80/20	2.3208

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965631	AG1-431	22.2783	80/20	22.2783
965691	AG1-437 C O1	6.2958	80/20	6.2958
965701	AG1-438 C O1	6.2958	80/20	6.2958
965711	AG1-439 C O1	44.5620	80/20	44.5620
965721	AG1-440 C	2.4651	80/20	2.4651
965731	AG1-441 C	2.4651	80/20	2.4651
965741	AG1-442 O1	3.6725	80/20	3.6725
965751	AG1-443 O1	3.6725	80/20	3.6725
965761	AG1-444 O1	23.7664	80/20	23.7664
965771	AG1-445	1.4243	80/20	1.4243
965781	AG1-446	1.4243	80/20	1.4243
966621	AG1-532 C	0.9156	80/20	0.9156
966751	AG1-546 C	8.3914	80/20	8.3914
966801	AG1-551 C	1.7522	80/20	1.7522
966811	AG1-552 C	1.6593	80/20	1.6593
966931	AG1-431A	16.7380	80/20	16.7380
G-007A	G-007A	0.8895	Confirmed LTF	0.8895
VFT	VFT	2.3672	Confirmed LTF	2.3672
CALDERWOOD	CALDERWOOD	1.0899	Confirmed LTF	1.0899
PRAIRIE	PRAIRIE	3.7763	Confirmed LTF	3.7763
CHEOAH	CHEOAH	1.1166	Confirmed LTF	1.1166
CBM-N	CBM-N	0.4308	Confirmed LTF	0.4308
COTTONWOOD	COTTONWOOD	4.0320	Confirmed LTF	4.0320
HAMLET	HAMLET	2.3325	Confirmed LTF	2.3325
GIBSON	GIBSON	0.6688	Confirmed LTF	0.6688
BLUEG	BLUEG	2.0658	Confirmed LTF	2.0658
TRIMBLE	TRIMBLE	0.6561	Confirmed LTF	0.6561
CATAWBA	CATAWBA	1.1704	Confirmed LTF	1.1704

11.6.46 Index 46

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168888760	314599	6ROA VAL	DVP	314266	6NORTHAMPTON	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	548.02	114.72	117.4	DC	14.69

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3482	80/20	9.3482
313527	AB2-043 C	0.2635	80/20	0.2635
313719	3CHESTNUT	0.6800	80/20	0.6800
314429	3JTRSVLE	0.1333	80/20	0.1333
314572	3EMPORIA	0.6240	80/20	0.6240
314623	3WITAKRS	0.1261	80/20	0.1261
314704	3LAWRENC	0.3599	80/20	0.3599

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315126	1ROARAP2	1.5784	80/20	1.5784
315128	1ROARAP4	1.5063	80/20	1.5063
315131	1EDGECEMA (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315132	1EDGECEMB (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315136	1ROSEMG1	3.8526	80/20	3.8526
315137	1ROSEMS1	2.3890	80/20	2.3890
315138	1ROSEMG2	1.8056	80/20	1.8056
315139	1GASTONA	6.0576	80/20	6.0576
315141	1GASTONB	6.0576	80/20	6.0576
315158	1KERR 1	0.2406	80/20	0.2406
315159	1KERR 2	0.6736	80/20	0.6736
315160	1KERR 3	0.6736	80/20	0.6736
315161	1KERR 4	0.6736	80/20	0.6736
315162	1KERR 5	0.6736	80/20	0.6736
315163	1KERR 6	0.6736	80/20	0.6736
315164	1KERR 7	0.6736	80/20	0.6736
315293	1DOMTR9	-3.2350	Adder	-3.81
315294	1DOMTR10	-3.9644	Adder	-4.66
315606	3AA2-053SOLA	1.2789	80/20	1.2789
315607	3AA1-063SOLA	1.1578	80/20	1.1578
315608	3AA2-088SOLA	0.3358	80/20	0.3358
316020	AB2-059 C OP	0.9918	80/20	0.9918
316087	AB2-174 C	1.5774	80/20	1.5774
316096	AB2-100 C1	1.6877	80/20	1.6877
316098	AB2-100 C2	1.6877	80/20	1.6877
316129	AC1-054 C	6.4409	80/20	6.4409
316131	AB2-060 C	0.7464	80/20	0.7464
920591	AA2-165 C	0.0913	80/20	0.0913
922922	AB1-081 C OP	0.8415	80/20	0.8415
923991	AB2-040 C O1	10.1812	80/20	10.1812
924301	AB2-077 C O1 (Suspended)	1.0495	80/20	1.0495
924311	AB2-078 C O1 (Suspended)	1.0495	80/20	1.0495
924321	AB2-079 C O1 (Suspended)	1.0495	80/20	1.0495
925591	AC1-034 C	4.0719	80/20	4.0719
925611	AC1-036 C	0.0939	80/20	0.0939
926070	AC1-086 C	43.1775	80/20	43.1775
926201	AC1-098 C	2.2605	80/20	2.2605
926211	AC1-099 C	0.7575	80/20	0.7575
927145	AC1-208 C	6.0536	80/20	6.0536
932631	AC2-084 C	3.2224	80/20	3.2224
934331	AD1-057 C O1	12.8767	80/20	12.8767
936265	AD2-033 C	5.6831	80/20	5.6831
936361	AD2-046 C O1	5.4499	80/20	5.4499
936485	AD2-063 C	7.2891	80/20	7.2891
939181	AE1-148 C	5.3455	80/20	5.3455
940481	AE2-033 C	28.0875	80/20	28.0875
940571	AE2-044 C	2.6670	80/20	2.6670
940661	AE2-053 O1	1.9798	80/20	1.9798

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942451	AE2-258	1.2459	80/20	1.2459
942471	AE2-260 C O1	26.1001	80/20	26.1001
943911	AF1-059	16.2460	80/20	16.2460
944141	AF1-082	1.7145	80/20	1.7145
946011	AF1-266	23.5115	80/20	23.5115
946281	AF1-292 C	2.2861	80/20	2.2861
946301	AF1-294 C	1.3464	80/20	1.3464
958211	AF2-115 C	0.7920	80/20	0.7920
958801	AF2-171 C	4.7826	80/20	4.7826
959311	AF2-222 C	6.6870	80/20	6.6870
960081	AF2-299 C	3.8531	80/20	3.8531
961791	AG1-021 C	0.6336	80/20	0.6336
961891	AG1-030 C	5.2659	80/20	5.2659
962041	AG1-048 C	3.9600	80/20	3.9600
962571	AG1-106 C	12.0073	80/20	12.0073
963171	AG1-166 C	0.6336	80/20	0.6336
963181	AG1-167 C	0.6336	80/20	0.6336
963191	AG1-168 C	0.6336	80/20	0.6336
963201	AG1-169 C	0.6336	80/20	0.6336
963211	AG1-170 C	0.6336	80/20	0.6336
963301	AG1-179 C	6.5008	80/20	6.5008
963311	AG1-180	3.1673	80/20	3.1673
963321	AG1-181 C O1	7.2785	80/20	7.2785
963361	AG1-185 O1	3.5215	80/20	3.5215
963641	AG1-215 C	0.2957	80/20	0.2957
964111	AG1-272 C	1.0672	80/20	1.0672
964121	AG1-273 C	1.0672	80/20	1.0672
964131	AG1-274 C	1.0672	80/20	1.0672
964241	AG1-285 C O1	6.2348	80/20	6.2348
964501	AG1-313 C O1	2.4851	80/20	2.4851
964791	AG1-342 C	1.3863	80/20	1.3863
964801	AG1-343 C	1.8312	80/20	1.8312
964821	AG1-345 C	0.2544	80/20	0.2544
965191	AG1-384 C	1.0672	80/20	1.0672
965281	AG1-393 C	0.6336	80/20	0.6336
965291	AG1-394 C	0.7217	80/20	0.7217
965451	AG1-413 C O1	6.8292	80/20	6.8292
965591	AG1-427 C	5.8849	80/20	5.8849
965601	AG1-428 C O1	5.4270	80/20	5.4270
965721	AG1-440 C	5.2830	80/20	5.2830
965731	AG1-441 C	5.2830	80/20	5.2830
965771	AG1-445	3.0524	80/20	3.0524
965781	AG1-446	3.0524	80/20	3.0524
966621	AG1-532 C	2.0806	80/20	2.0806
966751	AG1-546 C	14.6869	80/20	14.6869
966811	AG1-552 C	2.5061	80/20	2.5061
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2482	Confirmed LTF	0.2482
CPL	CPL	1.2381	Confirmed LTF	1.2381
CBM-W2	CBM-W2	5.1251	Confirmed LTF	5.1251
NY	NY	0.1637	Confirmed LTF	0.1637
TVA	TVA	0.9604	Confirmed LTF	0.9604

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
SIGE	SIGE	0.0801	Confirmed LTF	0.0801
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.2405	Confirmed LTF	0.2405
MEC	MEC	0.7103	Confirmed LTF	0.7103
LAGN	LAGN	1.1900	Confirmed LTF	1.1900
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

11.6.47 Index 47

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169290608	314623	3WITAKRS	DVP	313854	3CONSLDL	DVP	1	DVP_P1-2: LN 2056-B	single	165.44	120.58	125.02	DC	7.34

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

11.6.48 Index 48

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011364	314665	3CLRK TAP	DVP	314699	3ISLND C	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	116.67	119.76	DC	6.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4229	50/50	0.4229
313853	3PONTONDP	0.2999	Adder	0.35
314713	3PAMPLIN	0.6573	Adder	0.77
315266	1PLYWOOD A	0.9917	50/50	0.9917

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316118	AC1-105 C	2.4718	Adder	2.91
316129	AC1-054 C	-7.0449	Adder	-8.29
316131	AB2-060 C	1.1992	50/50	1.1992
924022	AB2-043 E O1	2.3969	50/50	2.3969
924162	AB2-060 E OP	3.5768	50/50	3.5768
924301	AB2-077 C O1 (Suspended)	1.9992	50/50	1.9992
924302	AB2-077 E O1 (Suspended)	1.3328	50/50	1.3328
924311	AB2-078 C O1 (Suspended)	1.9992	50/50	1.9992
924312	AB2-078 E O1 (Suspended)	1.3328	50/50	1.3328
924321	AB2-079 C O1 (Suspended)	1.9992	50/50	1.9992
924322	AB2-079 E O1 (Suspended)	1.3328	50/50	1.3328
925611	AC1-036 C	0.1533	50/50	0.1533
925612	AC1-036 E	0.5817	50/50	0.5817
926274	AC1-105 E	1.2144	Adder	1.43
927261	AC1-222 C	1.2514	Adder	1.47
927262	AC1-222 E	1.1913	Adder	1.4
934311	AD1-055 C	0.8689	Adder	1.02
934312	AD1-055 E	0.2241	Adder	0.26
935222	AD1-157 E	0.4052	Adder	0.48
936265	AD2-033 C	9.2391	50/50	9.2391
936266	AD2-033 E	6.1594	50/50	6.1594
936485	AD2-063 C	11.7639	50/50	11.7639
936486	AD2-063 E	7.8426	50/50	7.8426
938371	AE1-056 C	2.6206	Adder	3.08
938372	AE1-056 E	1.4319	Adder	1.68
940662	AE2-053 BAT	5.6696	50/50	5.6696
942451	AE2-258	1.9998	50/50	1.9998
942461	AE2-259 C O1	2.8346	Adder	3.33
942462	AE2-259 E O1	1.8897	Adder	2.22
943901	AF1-058 C	0.7075	Adder	0.83
943902	AF1-058 E	0.4716	Adder	0.55
943911	AF1-059	6.4092	Adder	7.54
946301	AF1-294 C	1.9120	Adder	2.25
946302	AF1-294 E	1.2746	Adder	1.5
958211	AF2-115 C	1.1247	Adder	1.32
958212	AF2-115 E	0.7498	Adder	0.88
958801	AF2-171 C	6.7878	Adder	7.99
958802	AF2-171 E	4.5252	Adder	5.32
959311	AF2-222 C	10.9430	50/50	10.9430
959312	AF2-222 E	7.3318	50/50	7.3318
960061	AF2-297 C	2.8299	Adder	3.33
960062	AF2-297 E	1.8866	Adder	2.22
961791	AG1-021 C	0.4769	Adder	1.06
961792	AG1-021 E	0.3179	Adder	0.71
961891	AG1-030 C	3.9256	Adder	8.71
961892	AG1-030 E	2.6170	Adder	5.81
962041	AG1-048 C	2.9804	Adder	6.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962042	AG1-048 E	1.9869	Adder	4.41
962441	AG1-093 C O1	3.4935	Adder	7.75
962442	AG1-093 E O1	1.0632	Adder	2.36
963171	AG1-166 C	0.4769	Adder	1.06
963172	AG1-166 E	0.3179	Adder	0.71
963181	AG1-167 C	0.4769	Adder	1.06
963182	AG1-167 E	0.3179	Adder	0.71
963191	AG1-168 C	0.4769	Adder	1.06
963192	AG1-168 E	0.3179	Adder	0.71
963201	AG1-169 C	0.4769	Adder	1.06
963202	AG1-169 E	0.3179	Adder	0.71
963211	AG1-170 C	0.4769	Adder	1.06
963212	AG1-170 E	0.3179	Adder	0.71
963301	AG1-179 C	0.7641	Adder	1.7
963311	AG1-180	0.3723	Adder	0.83
963321	AG1-181 C O1	11.8437	50/50	11.8437
963361	AG1-185 O1	5.7303	50/50	5.7303
963641	AG1-215 C	0.2225	Adder	0.49
963642	AG1-215 E	0.3338	Adder	0.74
964111	AG1-272 C	1.7417	50/50	1.7417
964112	AG1-272 E	0.5173	50/50	0.5173
964121	AG1-273 C	1.7417	50/50	1.7417
964122	AG1-273 E	0.5173	50/50	0.5173
964131	AG1-274 C	1.7417	50/50	1.7417
964132	AG1-274 E	0.5173	50/50	0.5173
964241	AG1-285 C O1	10.0455	50/50	10.0455
964242	AG1-285 E O1	6.6970	50/50	6.6970
964261	AG1-287 C	0.2812	Adder	0.62
964262	AG1-287 E	0.1875	Adder	0.42
964471	AG1-310 C	0.3757	Adder	0.83
964472	AG1-310 E	0.1850	Adder	0.41
964791	AG1-342 C	1.1283	Adder	2.5
964792	AG1-342 E	0.8865	Adder	1.97
964821	AG1-345 C	0.1914	Adder	0.42
964822	AG1-345 E	0.1276	Adder	0.28
965191	AG1-384 C	1.7417	50/50	1.7417
965192	AG1-384 E	0.5173	50/50	0.5173
965281	AG1-393 C	0.4769	Adder	1.06
965282	AG1-393 E	0.3179	Adder	0.71
965451	AG1-413 C O1	1.4279	Adder	3.17
965452	AG1-413 E O1	0.9519	Adder	2.11
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O1	0.6379	Adder	1.42
965602	AG1-428 E O1	0.4245	Adder	0.94
965641	AG1-432 C O1	3.0047	Adder	6.67
965642	AG1-432 E O1	2.0031	Adder	4.45
965772	AG1-445 BAT	6.4462	50/50	6.4462
965782	AG1-446 BAT	6.4462	50/50	6.4462
965831	AG1-451	0.5008	Adder	1.11
966753	AG1-546 BAT	6.4143	50/50	6.4143

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3005	Adder	0.67
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2003	Adder	0.44
G-007A	G-007A	0.1654	Confirmed LTF	0.1654
VFT	VFT	0.4451	Confirmed LTF	0.4451
CALDERWOOD	CALDERWOOD	0.0984	Confirmed LTF	0.0984
PRAIRIE	PRAIRIE	0.2144	Confirmed LTF	0.2144
CHEOAH	CHEOAH	0.1026	Confirmed LTF	0.1026
CBM-N	CBM-N	0.0828	Confirmed LTF	0.0828
COTTONWOOD	COTTONWOOD	0.3360	Confirmed LTF	0.3360
HAMLET	HAMLET	0.3274	Confirmed LTF	0.3274
GIBSON	GIBSON	0.0229	Confirmed LTF	0.0229
BLUEG	BLUEG	0.0590	Confirmed LTF	0.0590
TRIMBLE	TRIMBLE	0.0178	Confirmed LTF	0.0178
CATAWBA	CATAWBA	0.1431	Confirmed LTF	0.1431

11.6.49 Index 49

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011406	314669	3BARNJ	DVP	314684	3MT LREL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	109.39	110.92	DC	13.79

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

11.6.50 Index 50

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169290449	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P1-2: LN 556-C	single	571.52	236.46	238.36	DC	10.84

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LGEE	LGEE	0.6051	Confirmed LTF	0.6051
CPLE	CPLE	3.6248	Confirmed LTF	3.6248
CBM-W2	CBM-W2	13.4490	Confirmed LTF	13.4490
NY	NY	0.4020	Confirmed LTF	0.4020
TVA	TVA	2.5732	Confirmed LTF	2.5732
SIGE	SIGE	0.1956	Confirmed LTF	0.1956
CBM-S2	CBM-S2	41.5512	Confirmed LTF	41.5512
CBM-S1	CBM-S1	0.6380	Confirmed LTF	0.6380
MEC	MEC	1.7940	Confirmed LTF	1.7940
LAGN	LAGN	3.1955	Confirmed LTF	3.1955
AA2-074	AA2-074	2.3936	LTF	2.3936
CBM-W1	CBM-W1	12.2254	Confirmed LTF	12.2254

11.6.51 Index 51

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011368	314681	3CHASCTY	DVP	314781	3BLACKBR	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	118.52	119.08	DC	3.21

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958212	AF2-115 E	1.3698	50/50	1.3698
958801	AF2-171 C	12.4101	50/50	12.4101
958802	AF2-171 E	8.2734	50/50	8.2734
959311	AF2-222 C	17.2850	50/50	17.2850
959312	AF2-222 E	11.5809	50/50	11.5809
961791	AG1-021 C	1.6438	50/50	1.6438
961792	AG1-021 E	1.0958	50/50	1.0958
961891	AG1-030 C	13.6368	50/50	13.6368
961892	AG1-030 E	9.0912	50/50	9.0912
962041	AG1-048 C	10.2735	50/50	10.2735
962042	AG1-048 E	6.8490	50/50	6.8490
963171	AG1-166 C	1.6438	50/50	1.6438
963172	AG1-166 E	1.0958	50/50	1.0958
963181	AG1-167 C	1.6438	50/50	1.6438
963182	AG1-167 E	1.0958	50/50	1.0958
963191	AG1-168 C	1.6438	50/50	1.6438
963192	AG1-168 E	1.0958	50/50	1.0958
963201	AG1-169 C	1.6438	50/50	1.6438
963202	AG1-169 E	1.0958	50/50	1.0958
963211	AG1-170 C	1.6438	50/50	1.6438
963212	AG1-170 E	1.0958	50/50	1.0958
963301	AG1-179 C	3.4390	50/50	3.4390
963311	AG1-180	1.6756	50/50	1.6756
963321	AG1-181 C O1	18.7936	50/50	18.7936
963361	AG1-185 O1	9.0929	50/50	9.0929
963641	AG1-215 C	0.7671	50/50	0.7671
963642	AG1-215 E	1.1506	50/50	1.1506
964111	AG1-272 C	2.7573	50/50	2.7573
964112	AG1-272 E	0.8189	50/50	0.8189
964121	AG1-273 C	2.7573	50/50	2.7573
964122	AG1-273 E	0.8189	50/50	0.8189
964131	AG1-274 C	2.7573	50/50	2.7573
964132	AG1-274 E	0.8189	50/50	0.8189
964241	AG1-285 C O1	16.0687	50/50	16.0687
964242	AG1-285 E O1	10.7125	50/50	10.7125
964791	AG1-342 C	1.0172	Adder	2.26
964792	AG1-342 E	0.7992	Adder	1.77
964821	AG1-345 C	0.6599	50/50	0.6599
964822	AG1-345 E	0.4399	50/50	0.4399
965191	AG1-384 C	2.7573	50/50	2.7573
965192	AG1-384 E	0.8189	50/50	0.8189
965281	AG1-393 C	1.6438	50/50	1.6438
965282	AG1-393 E	1.0958	50/50	1.0958
965451	AG1-413 C O1	5.7258	50/50	5.7258
965452	AG1-413 E O1	3.8172	50/50	3.8172
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O1	2.8710	50/50	2.8710
965602	AG1-428 E O1	1.9106	50/50	1.9106
965641	AG1-432 C O1	4.4270	Adder	9.83
965642	AG1-432 E O1	2.9513	Adder	6.55
965772	AG1-445 BAT	3.3454	50/50	3.3454

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965782	AG1-446 BAT	3.3454	50/50	3.3454
965831	AG1-451	0.7378	Adder	1.64
966753	AG1-546 BAT	1.7033	Merchant Transmission	1.7033
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4427	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2951	Adder	0.66
G-007A	G-007A	0.2062	Confirmed LTF	0.2062
VFT	VFT	0.5483	Confirmed LTF	0.5483
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
PRAIRIE	PRAIRIE	0.4314	Confirmed LTF	0.4314
CHEOAH	CHEOAH	0.1426	Confirmed LTF	0.1426
CBM-N	CBM-N	0.1008	Confirmed LTF	0.1008
COTTONWOOD	COTTONWOOD	0.4977	Confirmed LTF	0.4977
HAMLET	HAMLET	0.3182	Confirmed LTF	0.3182
GIBSON	GIBSON	0.0710	Confirmed LTF	0.0710
BLUEG	BLUEG	0.2153	Confirmed LTF	0.2153
TRIMBLE	TRIMBLE	0.0684	Confirmed LTF	0.0684
CATAWBA	CATAWBA	0.1614	Confirmed LTF	0.1614

11.6.52 Index 52

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168888800	314681	3CHASCTY	DVP	314267	3CHASCTY2	DVP	Z1	DVP_P1-2: LN 84	single	449.32	100.34	101.76	DC	6.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.5774	80/20	3.5774
313527	AB2-043 C	1.6933	80/20	1.6933
314572	3EMPORIA	0.2717	80/20	0.2717
314704	3LAWRENC	0.4326	80/20	0.4326
315126	1ROARAP2	0.4174	80/20	0.4174
315128	1ROARAP4	0.3983	80/20	0.3983
315158	1KERR 1	0.1865	80/20	0.1865
315159	1KERR 2	0.5223	80/20	0.5223
315160	1KERR 3	0.5223	80/20	0.5223
315161	1KERR 4	0.5223	80/20	0.5223
315162	1KERR 5	0.5223	80/20	0.5223
315163	1KERR 6	0.5223	80/20	0.5223
315164	1KERR 7	0.5223	80/20	0.5223
316087	AB2-174 C	0.6356	80/20	0.6356
316129	AC1-054 C	2.9904	80/20	2.9904
923991	AB2-040 C O1	3.8962	80/20	3.8962
924301	AB2-077 C O1 (Suspended)	6.3460	80/20	6.3460

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924311	AB2-078 C O1 (Suspended)	6.3460	80/20	6.3460
924321	AB2-079 C O1 (Suspended)	6.3460	80/20	6.3460
925611	AC1-036 C	0.7705	80/20	0.7705
935221	AD1-157 C	0.8063	80/20	0.8063
936361	AD2-046 C O1	8.7620	80/20	8.7620
936485	AD2-063 C	51.1074	80/20	51.1074
938371	AE1-056 C	22.0330	80/20	22.0330
942451	AE2-258	8.0068	80/20	8.0068
943911	AF1-059	36.3052	80/20	36.3052
946281	AF1-292 C	1.0391	80/20	1.0391
958801	AF2-171 C	51.1074	80/20	51.1074
959311	AF2-222 C	56.7860	80/20	56.7860
960081	AF2-299 C	1.7513	80/20	1.7513
963301	AG1-179 C	9.6739	80/20	9.6739
963311	AG1-180	4.7134	80/20	4.7134
963321	AG1-181 C O1	57.4050	80/20	57.4050
963361	AG1-185 O1	27.7740	80/20	27.7740
964111	AG1-272 C	8.7564	80/20	8.7564
964121	AG1-273 C	8.7564	80/20	8.7564
964131	AG1-274 C	8.7564	80/20	8.7564
964241	AG1-285 C O1	42.5895	80/20	42.5895
965191	AG1-384 C	8.7564	80/20	8.7564
965451	AG1-413 C O1	15.2614	80/20	15.2614
965591	AG1-427 C	40.3748	80/20	40.3748
965601	AG1-428 C O1	8.0759	80/20	8.0759
965721	AG1-440 C	3.3557	80/20	3.3557
965731	AG1-441 C	3.3557	80/20	3.3557
965771	AG1-445	1.9388	80/20	1.9388
965781	AG1-446	1.9388	80/20	1.9388
966621	AG1-532 C	0.9457	80/20	0.9457
966751	AG1-546 C	6.4097	80/20	6.4097
966811	AG1-552 C	0.6628	80/20	0.6628
CPLE	CPLE	0.2566	Confirmed LTF	0.2566
CBM-W2	CBM-W2	0.0538	Confirmed LTF	0.0538
NY	NY	0.0127	Confirmed LTF	0.0127
PRAIRIE	PRAIRIE	0.0284	Confirmed LTF	0.0284
TVA	TVA	0.0364	Confirmed LTF	0.0364
CBM-S2	CBM-S2	2.2133	Confirmed LTF	2.2133
CBM-S1	CBM-S1	0.0057	Confirmed LTF	0.0057
GIBSON	GIBSON	0.0180	Confirmed LTF	0.0180
BLUEG	BLUEG	0.0660	Confirmed LTF	0.0660
TRIMBLE	TRIMBLE	0.0217	Confirmed LTF	0.0217
LAGN	LAGN	0.0525	Confirmed LTF	0.0525

11.6.53 Index 53

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011358	314682	3BUGGS I	DVP	314665	3CLRK TAP	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	118.02	121.1	DC	6.41

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

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

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

11.6.54 Index 54

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011366	314683	3CLRKVILLE	DVP	314869	3BURLING	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	118.89	119.46	DC	3.21

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6786	50/50	0.6786
313853	3PONTONDP	0.5479	50/50	0.5479
314429	3JTRSVLE	0.3458	50/50	0.3458
314713	3PAMPLIN	1.1895	50/50	1.1895
316129	AC1-054 C	-3.5586	Adder	-4.19

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	1.9221	50/50	1.9221
924022	AB2-043 E O1	3.8463	50/50	3.8463
924162	AB2-060 E OP	5.7331	50/50	5.7331
924301	AB2-077 C O1 (Suspended)	3.3240	50/50	3.3240
924302	AB2-077 E O1 (Suspended)	2.2160	50/50	2.2160
924311	AB2-078 C O1 (Suspended)	3.3240	50/50	3.3240
924312	AB2-078 E O1 (Suspended)	2.2160	50/50	2.2160
924321	AB2-079 C O1 (Suspended)	3.3240	50/50	3.3240
924322	AB2-079 E O1 (Suspended)	2.2160	50/50	2.2160
925611	AC1-036 C	0.2426	50/50	0.2426
925612	AC1-036 E	0.9209	50/50	0.9209
935221	AD1-157 C	0.1736	50/50	0.1736
935222	AD1-157 E	0.7334	50/50	0.7334
936265	AD2-033 C	14.6671	50/50	14.6671
936266	AD2-033 E	9.7781	50/50	9.7781
936485	AD2-063 C	18.7920	50/50	18.7920
936486	AD2-063 E	12.5280	50/50	12.5280
938371	AE1-056 C	4.7425	50/50	4.7425
938372	AE1-056 E	2.5913	50/50	2.5913
940662	AE2-053 BAT	2.9720	50/50	2.9720
942451	AE2-258	3.2090	50/50	3.2090
942461	AE2-259 C O1	4.1764	Adder	4.91
942462	AE2-259 E O1	2.7843	Adder	3.28
943911	AF1-059	13.6212	50/50	13.6212
946301	AF1-294 C	3.4930	50/50	3.4930
946302	AF1-294 E	2.3287	50/50	2.3287
958211	AF2-115 C	2.0547	50/50	2.0547
958212	AF2-115 E	1.3698	50/50	1.3698
958801	AF2-171 C	12.4101	50/50	12.4101
958802	AF2-171 E	8.2734	50/50	8.2734
959311	AF2-222 C	17.2850	50/50	17.2850
959312	AF2-222 E	11.5809	50/50	11.5809
961791	AG1-021 C	1.6438	50/50	1.6438
961792	AG1-021 E	1.0958	50/50	1.0958
961891	AG1-030 C	13.6368	50/50	13.6368
961892	AG1-030 E	9.0912	50/50	9.0912
962041	AG1-048 C	10.2735	50/50	10.2735
962042	AG1-048 E	6.8490	50/50	6.8490
963171	AG1-166 C	1.6438	50/50	1.6438
963172	AG1-166 E	1.0958	50/50	1.0958
963181	AG1-167 C	1.6438	50/50	1.6438
963182	AG1-167 E	1.0958	50/50	1.0958
963191	AG1-168 C	1.6438	50/50	1.6438
963192	AG1-168 E	1.0958	50/50	1.0958
963201	AG1-169 C	1.6438	50/50	1.6438
963202	AG1-169 E	1.0958	50/50	1.0958
963211	AG1-170 C	1.6438	50/50	1.6438

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963212	AG1-170 E	1.0958	50/50	1.0958
963301	AG1-179 C	3.4390	50/50	3.4390
963311	AG1-180	1.6756	50/50	1.6756
963321	AG1-181 C O1	18.7936	50/50	18.7936
963361	AG1-185 O1	9.0929	50/50	9.0929
963641	AG1-215 C	0.7671	50/50	0.7671
963642	AG1-215 E	1.1506	50/50	1.1506
964111	AG1-272 C	2.7573	50/50	2.7573
964112	AG1-272 E	0.8189	50/50	0.8189
964121	AG1-273 C	2.7573	50/50	2.7573
964122	AG1-273 E	0.8189	50/50	0.8189
964131	AG1-274 C	2.7573	50/50	2.7573
964132	AG1-274 E	0.8189	50/50	0.8189
964241	AG1-285 C O1	16.0687	50/50	16.0687
964242	AG1-285 E O1	10.7125	50/50	10.7125
964791	AG1-342 C	1.0172	Adder	2.26
964792	AG1-342 E	0.7992	Adder	1.77
964821	AG1-345 C	0.6599	50/50	0.6599
964822	AG1-345 E	0.4399	50/50	0.4399
965191	AG1-384 C	2.7573	50/50	2.7573
965192	AG1-384 E	0.8189	50/50	0.8189
965281	AG1-393 C	1.6438	50/50	1.6438
965282	AG1-393 E	1.0958	50/50	1.0958
965451	AG1-413 C O1	5.7258	50/50	5.7258
965452	AG1-413 E O1	3.8172	50/50	3.8172
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O1	2.8710	50/50	2.8710
965602	AG1-428 E O1	1.9106	50/50	1.9106
965641	AG1-432 C O1	4.4270	Adder	9.83
965642	AG1-432 E O1	2.9513	Adder	6.55
965772	AG1-445 BAT	3.3454	50/50	3.3454
965782	AG1-446 BAT	3.3454	50/50	3.3454
965831	AG1-451	0.7378	Adder	1.64
966753	AG1-546 BAT	1.7033	Merchant Transmission	1.7033
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4427	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2951	Adder	0.66
G-007A	G-007A	0.2062	Confirmed LTF	0.2062
VFT	VFT	0.5483	Confirmed LTF	0.5483
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
PRAIRIE	PRAIRIE	0.4314	Confirmed LTF	0.4314
CHEOAH	CHEOAH	0.1426	Confirmed LTF	0.1426
CBM-N	CBM-N	0.1008	Confirmed LTF	0.1008
COTTONWOOD	COTTONWOOD	0.4977	Confirmed LTF	0.4977
HAMLET	HAMLET	0.3182	Confirmed LTF	0.3182
GIBSON	GIBSON	0.0710	Confirmed LTF	0.0710
BLUEG	BLUEG	0.2153	Confirmed LTF	0.2153
TRIMBLE	TRIMBLE	0.0684	Confirmed LTF	0.0684
CATAWBA	CATAWBA	0.1614	Confirmed LTF	0.1614

11.6.55 Index 55

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011383	314684	3MT LREL	DVP	316115	AC1-105 TAP	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	113.39	114.92	DC	13.79

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

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

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

11.6.56 Index 56

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169290407	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	2	DVP_P1-2: LN 235-A	single	182.64	331.47	336.2	DC	8.64

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963641	AG1-215 C	2.5767	80/20	2.5767
964111	AG1-272 C	5.3022	80/20	5.3022
964121	AG1-273 C	5.3022	80/20	5.3022
964131	AG1-274 C	5.3022	80/20	5.3022
964241	AG1-285 C O1	18.3810	80/20	18.3810
964261	AG1-287 C	0.5597	80/20	0.5597
964471	AG1-310 C	0.7473	80/20	0.7473
964791	AG1-342 C	3.0915	80/20	3.0915
964821	AG1-345 C	2.2020	80/20	2.2020
965191	AG1-384 C	5.3022	80/20	5.3022
965281	AG1-393 C	5.5216	80/20	5.5216
965451	AG1-413 C O1	5.8764	80/20	5.8764
965591	AG1-427 C	17.6058	80/20	17.6058
965601	AG1-428 C O1	3.2273	80/20	3.2273
965641	AG1-432 C O1	73.6692	80/20	73.6692
965721	AG1-440 C	5.1777	80/20	5.1777
965731	AG1-441 C	5.1777	80/20	5.1777
965771	AG1-445	2.9916	80/20	2.9916
965781	AG1-446	2.9916	80/20	2.9916
965831	AG1-451	12.2782	80/20	12.2782
966621	AG1-532 C	0.4715	80/20	0.4715
966751	AG1-546 C	8.6364	80/20	8.6364
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	7.3669	80/20	7.3669
WEC	WEC	0.0813	Confirmed LTF	0.0813
LGEE	LGEE	0.1659	Confirmed LTF	0.1659
CPL	CPL	1.2422	Confirmed LTF	1.2422
CBM-W2	CBM-W2	4.0768	Confirmed LTF	4.0768
NY	NY	0.1233	Confirmed LTF	0.1233
TVA	TVA	0.7980	Confirmed LTF	0.7980
SIGE	SIGE	0.0565	Confirmed LTF	0.0565
CBM-S2	CBM-S2	13.8748	Confirmed LTF	13.8748
CBM-S1	CBM-S1	0.1953	Confirmed LTF	0.1953
MEC	MEC	0.5180	Confirmed LTF	0.5180
LAGN	LAGN	0.9958	Confirmed LTF	0.9958
CBM-W1	CBM-W1	3.3508	Confirmed LTF	3.3508

11.6.57 Index 57

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169290418	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	1	DVP_P1-2: LN 298	single	198.06	228.87	232.17	DC	6.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5190	80/20	0.5190

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965191	AG1-384 C	4.6644	80/20	4.6644
965281	AG1-393 C	4.9483	80/20	4.9483
965451	AG1-413 C O1	4.7901	80/20	4.7901
965591	AG1-427 C	15.0419	80/20	15.0419
965601	AG1-428 C O1	2.5804	80/20	2.5804
965641	AG1-432 C O1	66.9216	80/20	66.9216
965721	AG1-440 C	4.0478	80/20	4.0478
965731	AG1-441 C	4.0478	80/20	4.0478
965771	AG1-445	2.3387	80/20	2.3387
965781	AG1-446	2.3387	80/20	2.3387
965831	AG1-451	11.1536	80/20	11.1536
966751	AG1-546 C	6.5405	80/20	6.5405
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.6922	80/20	6.6922
WEC	WEC	0.0236	Confirmed LTF	0.0236
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPLE	CPLE	0.2361	Confirmed LTF	0.2361
CBM-W2	CBM-W2	0.9498	Confirmed LTF	0.9498
NY	NY	0.0321	Confirmed LTF	0.0321
TVA	TVA	0.1736	Confirmed LTF	0.1736
SIGE	SIGE	0.0158	Confirmed LTF	0.0158
CBM-S2	CBM-S2	2.5056	Confirmed LTF	2.5056
CBM-S1	CBM-S1	0.0441	Confirmed LTF	0.0441
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2135	Confirmed LTF	0.2135
CBM-W1	CBM-W1	0.9954	Confirmed LTF	0.9954

11.6.58 Index 58

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169290428	314692	6FARMVIL	DVP	314677	6BUCKING	DVP	1	DVP_P1-2: LN 556-C	single	559.3	238.38	240.32	DC	10.86

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	18.1909	80/20	18.1909
965601	AG1-428 C O1	3.6218	80/20	3.6218
965641	AG1-432 C O1	60.3744	80/20	60.3744
965721	AG1-440 C	6.4543	80/20	6.4543
965731	AG1-441 C	6.4543	80/20	6.4543
965771	AG1-445	3.7292	80/20	3.7292
965781	AG1-446	3.7292	80/20	3.7292
965831	AG1-451	10.0624	80/20	10.0624
966621	AG1-532 C	0.5504	80/20	0.5504
966691	AG1-539 C	3.5120	80/20	3.5120
966751	AG1-546 C	10.8553	80/20	10.8553
966761	AG1-547 C	1.6892	80/20	1.6892
966811	AG1-552 C	0.8056	80/20	0.8056
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.0374	80/20	6.0374
WEC	WEC	0.2983	Confirmed LTF	0.2983
LGEE	LGEE	0.6138	Confirmed LTF	0.6138
CPLE	CPLE	3.6343	Confirmed LTF	3.6343
CBM-W2	CBM-W2	13.5744	Confirmed LTF	13.5744
NY	NY	0.3943	Confirmed LTF	0.3943
TVA	TVA	2.5928	Confirmed LTF	2.5928
SIGE	SIGE	0.1956	Confirmed LTF	0.1956
CBM-S2	CBM-S2	41.6974	Confirmed LTF	41.6974
CBM-S1	CBM-S1	0.6433	Confirmed LTF	0.6433
MEC	MEC	1.8162	Confirmed LTF	1.8162
LAGN	LAGN	3.2200	Confirmed LTF	3.2200
AA2-074	AA2-074	2.3999	LTF	2.3999
CBM-W1	CBM-W1	12.4217	Confirmed LTF	12.4217

11.6.59 Index 59

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169290477	314696	3SEGE HILL	DVP	314697	6SEGE HILL	DVP	1	DVP_P1-3: 6SEGE HILL-TX#2	single	226.73	179.54	183.78	DC	9.61

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

11.6.60 Index 60

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169290493	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.06	158.5	162.24	DC	9.58

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

11.6.61 Index 61

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169290455	314697	6SEGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-D	single	674.92	220.9	222.12	DC	8.2

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9277	80/20	0.9277
315160	1KERR 3	0.9277	80/20	0.9277
315161	1KERR 4	0.9277	80/20	0.9277
315162	1KERR 5	0.9277	80/20	0.9277
315163	1KERR 6	0.9277	80/20	0.9277
315164	1KERR 7	0.9277	80/20	0.9277
315191	1BEARGRDN G1	3.3141	80/20	3.3141
315192	1BEARGRDN G2	3.3141	80/20	3.3141

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315193	1BEARGRDN S1	4.2858	80/20	4.2858
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6956	80/20	14.6956
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	-2.4502	Adder	-2.88
927261	AC1-222 C	10.1051	80/20	10.1051
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3929	80/20	0.3929
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0162	80/20	7.0162
934341	AD1-058 C	-6.1424	Adder	-7.23
934615	AD1-087 C	22.4303	80/20	22.4303
934625	AD1-088 C	29.6903	80/20	29.6903
935171	AD1-152 C O1	24.6374	80/20	24.6374
935221	AD1-157 C	0.3412	80/20	0.3412
936265	AD2-033 C	18.1139	80/20	18.1139
936361	AD2-046 C O1	8.4650	80/20	8.4650
936485	AD2-063 C	20.6649	80/20	20.6649
937481	AD2-202 C O1	6.5700	80/20	6.5700
938371	AE1-056 C	9.3221	80/20	9.3221
938561	AE1-075 C	0.1048	80/20	0.1048
938821	AE1-108 C O1	7.2807	80/20	7.2807
939181	AE1-148 C	8.5007	80/20	8.5007
939941	AE1-230 C	0.7209	80/20	0.7209
940661	AE2-053 O1	3.1484	80/20	3.1484
941011	AE2-092 C	6.3234	80/20	6.3234
941791	AE2-182 C	4.8236	80/20	4.8236
941801	AE2-185 C	3.6043	80/20	3.6043
941821	AE2-187 C	3.6043	80/20	3.6043
942451	AE2-258	3.2048	80/20	3.2048
942461	AE2-259 C O1	14.7132	80/20	14.7132
942671	AE2-283 C	3.9648	80/20	3.9648
942751	AE2-291 C	15.6354	80/20	15.6354
942761	AE2-292 C O1	19.4676	80/20	19.4676
943901	AF1-058 C	5.7308	80/20	5.7308
943911	AF1-059	14.4227	80/20	14.4227
945081	AF1-173	1.3967	80/20	1.3967
945811	AF1-246 C O1	21.5242	80/20	21.5242
946291	AF1-293 C O1	9.4568	80/20	9.4568
946301	AF1-294 C	6.0812	80/20	6.0812

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946591	AF1-323 C	2.4073	80/20	2.4073
957481	AF2-042 C	153.7440	80/20	153.7440
958211	AF2-115 C	3.5772	80/20	3.5772
958501	AF2-144 C	0.5649	80/20	0.5649
958801	AF2-171 C	21.4497	80/20	21.4497
959311	AF2-222 C	23.4030	80/20	23.4030
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5206	80/20	0.5206
959751	AF2-266	25.6235	80/20	25.6235
960061	AF2-297 C	22.9234	80/20	22.9234
960111	AF2-302 C	0.8754	80/20	0.8754
961061	AF2-397 C	7.1206	80/20	7.1206
961121	AF2-403	0.8010	80/20	0.8010
961791	AG1-021 C	2.8618	80/20	2.8618
961801	AG1-022 C	0.8754	80/20	0.8754
961891	AG1-030 C	21.3030	80/20	21.3030
962041	AG1-048 C	17.8860	80/20	17.8860
962441	AG1-093 C O1	39.1883	80/20	39.1883
962491	AG1-098 C O1	34.5765	80/20	34.5765
962561	AG1-105 C O1	31.8432	80/20	31.8432
963171	AG1-166 C	2.8618	80/20	2.8618
963181	AG1-167 C	2.8618	80/20	2.8618
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O1	36.0621	80/20	36.0621
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O1	23.4953	80/20	23.4953
963361	AG1-185 O1	11.3677	80/20	11.3677
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O1	3.9711	80/20	3.9711
964241	AG1-285 C O1	17.1705	80/20	17.1705
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4655	80/20	22.4655
964931	AG1-357 C	61.4988	80/20	61.4988
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O1	6.0628	80/20	6.0628
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O1	3.1896	80/20	3.1896
965641	AG1-432 C O1	29.4264	80/20	29.4264

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9044	80/20	4.9044
966361	AG1-505 C	46.1250	80/20	46.1250
966371	AG1-506 C	46.1250	80/20	46.1250
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O1	2.6947	80/20	2.6947
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.9426	80/20	2.9426
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078
TRIMBLE	TRIMBLE	0.7618	Confirmed LTF	0.7618
CATAWBA	CATAWBA	1.6965	Confirmed LTF	1.6965

11.6.62 Index 62

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
167011348	314699	3ISLND C	DVP	313705	3KERRDP	DVP	1	DVP_P7-1: LN 171-1009	tower	202.0	120.14	123.32	DC	6.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4229	50/50	0.4229
313853	3PONTONDP	0.2999	Adder	0.35
314713	3PAMPLIN	0.6573	Adder	0.77
315266	1PLYWOOD A	0.9917	50/50	0.9917
316118	AC1-105 C	2.4718	Adder	2.91
316129	AC1-054 C	-7.0449	Adder	-8.29
316131	AB2-060 C	1.1992	50/50	1.1992
924022	AB2-043 E O1	2.3969	50/50	2.3969
924162	AB2-060 E OP	3.5768	50/50	3.5768
924301	AB2-077 C O1 (Suspended)	1.9992	50/50	1.9992

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924302	AB2-077 E O1 (Suspended)	1.3328	50/50	1.3328
924311	AB2-078 C O1 (Suspended)	1.9992	50/50	1.9992
924312	AB2-078 E O1 (Suspended)	1.3328	50/50	1.3328
924321	AB2-079 C O1 (Suspended)	1.9992	50/50	1.9992
924322	AB2-079 E O1 (Suspended)	1.3328	50/50	1.3328
925611	AC1-036 C	0.1533	50/50	0.1533
925612	AC1-036 E	0.5817	50/50	0.5817
926274	AC1-105 E	1.2144	Adder	1.43
927261	AC1-222 C	1.2514	Adder	1.47
927262	AC1-222 E	1.1913	Adder	1.4
934311	AD1-055 C	0.8689	Adder	1.02
934312	AD1-055 E	0.2241	Adder	0.26
935222	AD1-157 E	0.4052	Adder	0.48
936265	AD2-033 C	9.2391	50/50	9.2391
936266	AD2-033 E	6.1594	50/50	6.1594
936485	AD2-063 C	11.7639	50/50	11.7639
936486	AD2-063 E	7.8426	50/50	7.8426
938371	AE1-056 C	2.6206	Adder	3.08
938372	AE1-056 E	1.4319	Adder	1.68
940662	AE2-053 BAT	5.6696	50/50	5.6696
942451	AE2-258	1.9998	50/50	1.9998
942461	AE2-259 C O1	2.8346	Adder	3.33
942462	AE2-259 E O1	1.8897	Adder	2.22
943901	AF1-058 C	0.7075	Adder	0.83
943902	AF1-058 E	0.4716	Adder	0.55
943911	AF1-059	6.4092	Adder	7.54
946301	AF1-294 C	1.9120	Adder	2.25
946302	AF1-294 E	1.2746	Adder	1.5
958211	AF2-115 C	1.1247	Adder	1.32
958212	AF2-115 E	0.7498	Adder	0.88
958801	AF2-171 C	6.7878	Adder	7.99
958802	AF2-171 E	4.5252	Adder	5.32
959311	AF2-222 C	10.9430	50/50	10.9430
959312	AF2-222 E	7.3318	50/50	7.3318
960061	AF2-297 C	2.8299	Adder	3.33
960062	AF2-297 E	1.8866	Adder	2.22
961791	AG1-021 C	0.4769	Adder	1.06
961792	AG1-021 E	0.3179	Adder	0.71
961891	AG1-030 C	3.9256	Adder	8.71
961892	AG1-030 E	2.6170	Adder	5.81
962041	AG1-048 C	2.9804	Adder	6.62
962042	AG1-048 E	1.9869	Adder	4.41
962441	AG1-093 C O1	3.4935	Adder	7.75
962442	AG1-093 E O1	1.0632	Adder	2.36
963171	AG1-166 C	0.4769	Adder	1.06
963172	AG1-166 E	0.3179	Adder	0.71
963181	AG1-167 C	0.4769	Adder	1.06
963182	AG1-167 E	0.3179	Adder	0.71

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963191	AG1-168 C	0.4769	Adder	1.06
963192	AG1-168 E	0.3179	Adder	0.71
963201	AG1-169 C	0.4769	Adder	1.06
963202	AG1-169 E	0.3179	Adder	0.71
963211	AG1-170 C	0.4769	Adder	1.06
963212	AG1-170 E	0.3179	Adder	0.71
963301	AG1-179 C	0.7641	Adder	1.7
963311	AG1-180	0.3723	Adder	0.83
963321	AG1-181 C O1	11.8437	50/50	11.8437
963361	AG1-185 O1	5.7303	50/50	5.7303
963641	AG1-215 C	0.2225	Adder	0.49
963642	AG1-215 E	0.3338	Adder	0.74
964111	AG1-272 C	1.7417	50/50	1.7417
964112	AG1-272 E	0.5173	50/50	0.5173
964121	AG1-273 C	1.7417	50/50	1.7417
964122	AG1-273 E	0.5173	50/50	0.5173
964131	AG1-274 C	1.7417	50/50	1.7417
964132	AG1-274 E	0.5173	50/50	0.5173
964241	AG1-285 C O1	10.0455	50/50	10.0455
964242	AG1-285 E O1	6.6970	50/50	6.6970
964261	AG1-287 C	0.2812	Adder	0.62
964262	AG1-287 E	0.1875	Adder	0.42
964471	AG1-310 C	0.3757	Adder	0.83
964472	AG1-310 E	0.1850	Adder	0.41
964791	AG1-342 C	1.1283	Adder	2.5
964792	AG1-342 E	0.8865	Adder	1.97
964821	AG1-345 C	0.1914	Adder	0.42
964822	AG1-345 E	0.1276	Adder	0.28
965191	AG1-384 C	1.7417	50/50	1.7417
965192	AG1-384 E	0.5173	50/50	0.5173
965281	AG1-393 C	0.4769	Adder	1.06
965282	AG1-393 E	0.3179	Adder	0.71
965451	AG1-413 C O1	1.4279	Adder	3.17
965452	AG1-413 E O1	0.9519	Adder	2.11
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O1	0.6379	Adder	1.42
965602	AG1-428 E O1	0.4245	Adder	0.94
965641	AG1-432 C O1	3.0047	Adder	6.67
965642	AG1-432 E O1	2.0031	Adder	4.45
965772	AG1-445 BAT	6.4462	50/50	6.4462
965782	AG1-446 BAT	6.4462	50/50	6.4462
965831	AG1-451	0.5008	Adder	1.11
966753	AG1-546 BAT	6.4143	50/50	6.4143
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3005	Adder	0.67
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2003	Adder	0.44
G-007A	G-007A	0.1654	Confirmed LTF	0.1654
VFT	VFT	0.4451	Confirmed LTF	0.4451
CALDERWOOD	CALDERWOOD	0.0984	Confirmed LTF	0.0984

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
PRAIRIE	PRAIRIE	0.2144	Confirmed LTF	0.2144
CHEOAH	CHEOAH	0.1026	Confirmed LTF	0.1026
CBM-N	CBM-N	0.0828	Confirmed LTF	0.0828
COTTONWOOD	COTTONWOOD	0.3360	Confirmed LTF	0.3360
HAMLET	HAMLET	0.3274	Confirmed LTF	0.3274
GIBSON	GIBSON	0.0229	Confirmed LTF	0.0229
BLUEG	BLUEG	0.0590	Confirmed LTF	0.0590
TRIMBLE	TRIMBLE	0.0178	Confirmed LTF	0.0178
CATAWBA	CATAWBA	0.1431	Confirmed LTF	0.1431

11.6.63 Index 63

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168582247	314701	3LONEPN	DVP	313755	3FLAT CREEK	DVP	1	Base Case	single	203.98	132.25	134.88	DC	5.35

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

11.6.64 Index 64

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163937689	314702	3KERR	DVP	304102	3GW KING TAP	CPL	1	DVP_P4-6: CAROLIN T122	breaker	199.0	236.98	263.38	DC	53.4

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

11.6.65 Index 65

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169290602	314702	3KERR	DVP	314673	3PALMERSPRNG	DVP	1	DVP_P1-2: LN 45	single	138.18	128.06	132.57	DC	6.23

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3145	80/20	0.3145
314429	3JTRSVLE	0.1632	80/20	0.1632

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315158	1KERR 1	0.4757	80/20	0.4757
315159	1KERR 2	1.3319	80/20	1.3319
315160	1KERR 3	1.3319	80/20	1.3319
315161	1KERR 4	1.3319	80/20	1.3319
315162	1KERR 5	1.3319	80/20	1.3319
315163	1KERR 6	1.3319	80/20	1.3319
315164	1KERR 7	1.3319	80/20	1.3319
315266	1PLYWOOD A	0.4101	80/20	0.4101
316129	AC1-054 C	3.5524	80/20	3.5524
316131	AB2-060 C	0.8921	80/20	0.8921
924301	AB2-077 C O1 (Suspended)	1.2964	80/20	1.2964
924311	AB2-078 C O1 (Suspended)	1.2964	80/20	1.2964
924321	AB2-079 C O1 (Suspended)	1.2964	80/20	1.2964
925611	AC1-036 C	0.1133	80/20	0.1133
935221	AD1-157 C	0.0823	80/20	0.0823
936265	AD2-033 C	6.8422	80/20	6.8422
936361	AD2-046 C O1	10.1468	80/20	10.1468
936485	AD2-063 C	8.7300	80/20	8.7300
938371	AE1-056 C	2.2488	80/20	2.2488
939181	AE1-148 C	9.8258	80/20	9.8258
940661	AE2-053 O1	3.6392	80/20	3.6392
942451	AE2-258	1.4873	80/20	1.4873
943911	AF1-059	5.1118	80/20	5.1118
946301	AF1-294 C	1.6486	80/20	1.6486
958211	AF2-115 C	0.9698	80/20	0.9698
958801	AF2-171 C	5.8518	80/20	5.8518
959311	AF2-222 C	8.0790	80/20	8.0790
961791	AG1-021 C	0.7758	80/20	0.7758
961891	AG1-030 C	6.4098	80/20	6.4098
962041	AG1-048 C	4.8487	80/20	4.8487
963171	AG1-166 C	0.7758	80/20	0.7758
963181	AG1-167 C	0.7758	80/20	0.7758
963191	AG1-168 C	0.7758	80/20	0.7758
963201	AG1-169 C	0.7758	80/20	0.7758
963211	AG1-170 C	0.7758	80/20	0.7758
963321	AG1-181 C O1	8.7625	80/20	8.7625
963361	AG1-185 O1	4.2395	80/20	4.2395
963641	AG1-215 C	0.3620	80/20	0.3620
964111	AG1-272 C	1.2873	80/20	1.2873
964121	AG1-273 C	1.2873	80/20	1.2873
964131	AG1-274 C	1.2873	80/20	1.2873
964241	AG1-285 C O1	7.4595	80/20	7.4595
964791	AG1-342 C	1.6188	80/20	1.6188
964821	AG1-345 C	0.3114	80/20	0.3114
965191	AG1-384 C	1.2873	80/20	1.2873
965281	AG1-393 C	0.7758	80/20	0.7758
965451	AG1-413 C O1	2.1488	80/20	2.1488
965591	AG1-427 C	7.0425	80/20	7.0425
966751	AG1-546 C	6.2252	80/20	6.2252
WEC	WEC	0.0047	Confirmed LTF	0.0047

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LGEE	LGEE	0.0126	Confirmed LTF	0.0126
CALDERWOOD	CALDERWOOD	0.0035	Confirmed LTF	0.0035
CBM-W2	CBM-W2	0.0269	Confirmed LTF	0.0269
NY	NY	0.0171	Confirmed LTF	0.0171
SIGE	SIGE	0.0056	Confirmed LTF	0.0056
CHEOAH	CHEOAH	0.0045	Confirmed LTF	0.0045
CBM-S1	CBM-S1	0.0004	Confirmed LTF	0.0004
COTTONWOOD	COTTONWOOD	0.0126	Confirmed LTF	0.0126
HAMLET	HAMLET	0.0733	Confirmed LTF	0.0733
MEC	MEC	0.0175	Confirmed LTF	0.0175
CATAWBA	CATAWBA	0.0175	Confirmed LTF	0.0175
CBM-W1	CBM-W1	0.2103	Confirmed LTF	0.2103

11.6.66 Index 66

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169290446	314707	3MORAN	DVP	314691	3FARMVIL	DVP	1	Base Case	single	203.98	128.82	131.45	DC	5.35

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
CPLE	CPLE	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

11.6.67 Index 67

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169504797	314747	6BREMO	DVP	313867	6BREMODIST	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	168.43	169.54	DC	7.34

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

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

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

11.6.68 Index 68

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169504787	314765	6MTEAGLE	DVP	314749	6CHARLVL	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	168.64	169.66	DC	6.74

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

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

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

11.6.69 Index 69

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011346	314781	3BLACKBR	DVP	314788	3JONESTO	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	122.88	123.44	DC	3.21

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

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

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

11.6.70 Index 70

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011352	314788	3JONESTO	DVP	314683	3CLRKVILLE	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	121.52	122.08	DC	3.21

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6786	50/50	0.6786
313853	3PONTONDP	0.5479	50/50	0.5479
314429	3JTRSVLE	0.3458	50/50	0.3458
314713	3PAMPLIN	1.1895	50/50	1.1895
316129	AC1-054 C	-3.5586	Adder	-4.19
316131	AB2-060 C	1.9221	50/50	1.9221
924022	AB2-043 E O1	3.8463	50/50	3.8463
924162	AB2-060 E OP	5.7331	50/50	5.7331
924301	AB2-077 C O1 (Suspended)	3.3240	50/50	3.3240
924302	AB2-077 E O1 (Suspended)	2.2160	50/50	2.2160
924311	AB2-078 C O1 (Suspended)	3.3240	50/50	3.3240
924312	AB2-078 E O1 (Suspended)	2.2160	50/50	2.2160
924321	AB2-079 C O1 (Suspended)	3.3240	50/50	3.3240
924322	AB2-079 E O1 (Suspended)	2.2160	50/50	2.2160

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925611	AC1-036 C	0.2426	50/50	0.2426
925612	AC1-036 E	0.9209	50/50	0.9209
935221	AD1-157 C	0.1736	50/50	0.1736
935222	AD1-157 E	0.7334	50/50	0.7334
936265	AD2-033 C	14.6671	50/50	14.6671
936266	AD2-033 E	9.7781	50/50	9.7781
936485	AD2-063 C	18.7920	50/50	18.7920
936486	AD2-063 E	12.5280	50/50	12.5280
938371	AE1-056 C	4.7425	50/50	4.7425
938372	AE1-056 E	2.5913	50/50	2.5913
940662	AE2-053 BAT	2.9720	50/50	2.9720
942451	AE2-258	3.2090	50/50	3.2090
942461	AE2-259 C O1	4.1764	Adder	4.91
942462	AE2-259 E O1	2.7843	Adder	3.28
943911	AF1-059	13.6212	50/50	13.6212
946301	AF1-294 C	3.4930	50/50	3.4930
946302	AF1-294 E	2.3287	50/50	2.3287
958211	AF2-115 C	2.0547	50/50	2.0547
958212	AF2-115 E	1.3698	50/50	1.3698
958801	AF2-171 C	12.4101	50/50	12.4101
958802	AF2-171 E	8.2734	50/50	8.2734
959311	AF2-222 C	17.2850	50/50	17.2850
959312	AF2-222 E	11.5809	50/50	11.5809
961791	AG1-021 C	1.6438	50/50	1.6438
961792	AG1-021 E	1.0958	50/50	1.0958
961891	AG1-030 C	13.6368	50/50	13.6368
961892	AG1-030 E	9.0912	50/50	9.0912
962041	AG1-048 C	10.2735	50/50	10.2735
962042	AG1-048 E	6.8490	50/50	6.8490
963171	AG1-166 C	1.6438	50/50	1.6438
963172	AG1-166 E	1.0958	50/50	1.0958
963181	AG1-167 C	1.6438	50/50	1.6438
963182	AG1-167 E	1.0958	50/50	1.0958
963191	AG1-168 C	1.6438	50/50	1.6438
963192	AG1-168 E	1.0958	50/50	1.0958
963201	AG1-169 C	1.6438	50/50	1.6438
963202	AG1-169 E	1.0958	50/50	1.0958
963211	AG1-170 C	1.6438	50/50	1.6438
963212	AG1-170 E	1.0958	50/50	1.0958
963301	AG1-179 C	3.4390	50/50	3.4390
963311	AG1-180	1.6756	50/50	1.6756
963321	AG1-181 C O1	18.7936	50/50	18.7936
963361	AG1-185 O1	9.0929	50/50	9.0929
963641	AG1-215 C	0.7671	50/50	0.7671
963642	AG1-215 E	1.1506	50/50	1.1506
964111	AG1-272 C	2.7573	50/50	2.7573
964112	AG1-272 E	0.8189	50/50	0.8189
964121	AG1-273 C	2.7573	50/50	2.7573
964122	AG1-273 E	0.8189	50/50	0.8189
964131	AG1-274 C	2.7573	50/50	2.7573
964132	AG1-274 E	0.8189	50/50	0.8189
964241	AG1-285 C O1	16.0687	50/50	16.0687

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964242	AG1-285 E O1	10.7125	50/50	10.7125
964791	AG1-342 C	1.0172	Adder	2.26
964792	AG1-342 E	0.7992	Adder	1.77
964821	AG1-345 C	0.6599	50/50	0.6599
964822	AG1-345 E	0.4399	50/50	0.4399
965191	AG1-384 C	2.7573	50/50	2.7573
965192	AG1-384 E	0.8189	50/50	0.8189
965281	AG1-393 C	1.6438	50/50	1.6438
965282	AG1-393 E	1.0958	50/50	1.0958
965451	AG1-413 C O1	5.7258	50/50	5.7258
965452	AG1-413 E O1	3.8172	50/50	3.8172
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O1	2.8710	50/50	2.8710
965602	AG1-428 E O1	1.9106	50/50	1.9106
965641	AG1-432 C O1	4.4270	Adder	9.83
965642	AG1-432 E O1	2.9513	Adder	6.55
965772	AG1-445 BAT	3.3454	50/50	3.3454
965782	AG1-446 BAT	3.3454	50/50	3.3454
965831	AG1-451	0.7378	Adder	1.64
966753	AG1-546 BAT	1.7033	Merchant Transmission	1.7033
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.4427	Adder	0.98
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2951	Adder	0.66
G-007A	G-007A	0.2062	Confirmed LTF	0.2062
VFT	VFT	0.5483	Confirmed LTF	0.5483
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
PRAIRIE	PRAIRIE	0.4314	Confirmed LTF	0.4314
CHEOAH	CHEOAH	0.1426	Confirmed LTF	0.1426
CBM-N	CBM-N	0.1008	Confirmed LTF	0.1008
COTTONWOOD	COTTONWOOD	0.4977	Confirmed LTF	0.4977
HAMLET	HAMLET	0.3182	Confirmed LTF	0.3182
GIBSON	GIBSON	0.0710	Confirmed LTF	0.0710
BLUEG	BLUEG	0.2153	Confirmed LTF	0.2153
TRIMBLE	TRIMBLE	0.0684	Confirmed LTF	0.0684
CATAWBA	CATAWBA	0.1614	Confirmed LTF	0.1614

11.6.71 Index 71

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011370	314869	3BURLING	DVP	314682	3BUGGS I	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	117.79	118.36	DC	3.21

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6786	50/50	0.6786
313853	3PONTONDP	0.5479	50/50	0.5479
314429	3JTRSVLE	0.3458	50/50	0.3458
314713	3PAMPLIN	1.1895	50/50	1.1895
316129	AC1-054 C	-3.5586	Adder	-4.19
316131	AB2-060 C	1.9221	50/50	1.9221
924022	AB2-043 E O1	3.8463	50/50	3.8463
924162	AB2-060 E OP	5.7331	50/50	5.7331
924301	AB2-077 C O1 (Suspended)	3.3240	50/50	3.3240
924302	AB2-077 E O1 (Suspended)	2.2160	50/50	2.2160
924311	AB2-078 C O1 (Suspended)	3.3240	50/50	3.3240
924312	AB2-078 E O1 (Suspended)	2.2160	50/50	2.2160
924321	AB2-079 C O1 (Suspended)	3.3240	50/50	3.3240
924322	AB2-079 E O1 (Suspended)	2.2160	50/50	2.2160
925611	AC1-036 C	0.2426	50/50	0.2426
925612	AC1-036 E	0.9209	50/50	0.9209
935221	AD1-157 C	0.1736	50/50	0.1736
935222	AD1-157 E	0.7334	50/50	0.7334
936265	AD2-033 C	14.6671	50/50	14.6671
936266	AD2-033 E	9.7781	50/50	9.7781
936485	AD2-063 C	18.7920	50/50	18.7920
936486	AD2-063 E	12.5280	50/50	12.5280
938371	AE1-056 C	4.7425	50/50	4.7425
938372	AE1-056 E	2.5913	50/50	2.5913
940662	AE2-053 BAT	2.9720	50/50	2.9720
942451	AE2-258	3.2090	50/50	3.2090
942461	AE2-259 C O1	4.1764	Adder	4.91
942462	AE2-259 E O1	2.7843	Adder	3.28
943911	AF1-059	13.6212	50/50	13.6212
946301	AF1-294 C	3.4930	50/50	3.4930
946302	AF1-294 E	2.3287	50/50	2.3287
958211	AF2-115 C	2.0547	50/50	2.0547
958212	AF2-115 E	1.3698	50/50	1.3698
958801	AF2-171 C	12.4101	50/50	12.4101
958802	AF2-171 E	8.2734	50/50	8.2734
959311	AF2-222 C	17.2850	50/50	17.2850
959312	AF2-222 E	11.5809	50/50	11.5809
961791	AG1-021 C	1.6438	50/50	1.6438
961792	AG1-021 E	1.0958	50/50	1.0958
961891	AG1-030 C	13.6368	50/50	13.6368
961892	AG1-030 E	9.0912	50/50	9.0912
962041	AG1-048 C	10.2735	50/50	10.2735
962042	AG1-048 E	6.8490	50/50	6.8490
963171	AG1-166 C	1.6438	50/50	1.6438
963172	AG1-166 E	1.0958	50/50	1.0958
963181	AG1-167 C	1.6438	50/50	1.6438
963182	AG1-167 E	1.0958	50/50	1.0958

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

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

11.6.72 Index 72

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
167011305	316115	AC1-105 TAP	DVP	314696	3SEGE HILL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	142.55	144.08	DC	13.79

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

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

11.6.73 Index 73

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163937856	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-D	single	718.0	219.62	220.76	DC	8.2

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O1	36.0621	80/20	36.0621
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O1	23.4953	80/20	23.4953
963361	AG1-185 O1	11.3677	80/20	11.3677
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O1	3.9711	80/20	3.9711
964241	AG1-285 C O1	17.1705	80/20	17.1705
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4655	80/20	22.4655
964931	AG1-357 C	61.4988	80/20	61.4988
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O1	6.0628	80/20	6.0628
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O1	3.1896	80/20	3.1896
965641	AG1-432 C O1	29.4264	80/20	29.4264
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9044	80/20	4.9044
966361	AG1-505 C	46.1250	80/20	46.1250
966371	AG1-506 C	46.1250	80/20	46.1250
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O1	2.6947	80/20	2.6947
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.9426	80/20	2.9426
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078
TRIMBLE	TRIMBLE	0.7618	Confirmed LTF	0.7618
CATAWBA	CATAWBA	1.6965	Confirmed LTF	1.6965

11.6.74 Index 74

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168582391	934330	AD1-057 TAP	DVP	313845	6HATHAWAY	DVP	1	DVP_P1-2: LN 238-B	single	441.8	133.06	135.94	DC	12.69

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	6.5812	80/20	6.5812
313527	AB2-043 C	0.1616	80/20	0.1616
314572	3EMPORIA	0.3707	80/20	0.3707
314582	3KELFORD	0.1701	80/20	0.1701
314589	3MURPHYS	0.0588	80/20	0.0588
314704	3LAWRENC	0.2022	80/20	0.2022
315115	1S HAMPT1	0.7802	80/20	0.7802
315126	1ROARAP2	1.4999	80/20	1.4999
315128	1ROARAP4	1.4313	80/20	1.4313
315136	1ROSEMG1	5.2261	80/20	5.2261
315137	1ROSEMS1	3.2407	80/20	3.2407
315138	1ROSEMG2	2.4493	80/20	2.4493
315139	1GASTONA	6.5715	80/20	6.5715
315141	1GASTONB	6.5715	80/20	6.5715
315158	1KERR 1	0.1671	80/20	0.1671
315159	1KERR 2	0.4679	80/20	0.4679
315160	1KERR 3	0.4679	80/20	0.4679
315161	1KERR 4	0.4679	80/20	0.4679
315162	1KERR 5	0.4679	80/20	0.4679
315163	1KERR 6	0.4679	80/20	0.4679
315164	1KERR 7	0.4679	80/20	0.4679
315602	1HOLLOMANSOL	0.8537	80/20	0.8537
315606	3AA2-053SOLA	1.5027	80/20	1.5027
315607	3AA1-063SOLA	1.3009	80/20	1.3009
315608	3AA2-088SOLA	0.6986	80/20	0.6986
315614	AA2-178 C	0.4723	80/20	0.4723
316087	AB2-174 C	1.0440	80/20	1.0440
316096	AB2-100 C1	2.0014	80/20	2.0014
316098	AB2-100 C2	2.0014	80/20	2.0014
316103	AB2-015 C	4.3260	80/20	4.3260
316129	AC1-054 C	5.4766	80/20	5.4766
316131	AB2-060 C	0.4583	80/20	0.4583
316140	AB2-099 C (Suspended)	0.3741	80/20	0.3741

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923991	AB2-040 C O1	7.1676	80/20	7.1676
924301	AB2-077 C O1 (Suspended)	0.6449	80/20	0.6449
924311	AB2-078 C O1 (Suspended)	0.6449	80/20	0.6449
924321	AB2-079 C O1 (Suspended)	0.6449	80/20	0.6449
925591	AC1-034 C	-5.1726	Adder	-6.09
926070	AC1-086 C	46.8402	80/20	46.8402
933991	AD1-023 C	5.5252	80/20	5.5252
934331	AD1-057 C O1	38.3548	80/20	38.3548
934521	AD1-076 C	19.4152	80/20	19.4152
936361	AD2-046 C O1	3.7209	80/20	3.7209
936401	AD2-051 C O1	5.6765	80/20	5.6765
938221	AE1-035 C	0.2134	80/20	0.2134
938771	AE1-103 C	1.5114	80/20	1.5114
939181	AE1-148 C	3.6364	80/20	3.6364
940491	AE2-034 C	2.2453	80/20	2.2453
940661	AE2-053 O1	1.3468	80/20	1.3468
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1068	80/20	0.1068
942451	AE2-258	0.7644	80/20	0.7644
942471	AE2-260 C O1	31.3160	80/20	31.3160
943171	AE2-346 C	0.8980	80/20	0.8980
943911	AF1-059	9.2940	80/20	9.2940
945711	AF1-236 C O1	24.5809	80/20	24.5809
946281	AF1-292 C	1.2677	80/20	1.2677
957521	AF2-046 C	11.3592	80/20	11.3592
957531	AF2-047 C	5.3353	80/20	5.3353
960081	AF2-299 C	2.1366	80/20	2.1366
961091	AF2-400 C	0.2336	80/20	0.2336
961681	AG1-008 C	11.3820	80/20	11.3820
961931	AG1-036 C	0.8921	80/20	0.8921
961941	AG1-037 C	0.3207	80/20	0.3207
962331	AG1-082 C	1.2828	80/20	1.2828
962341	AG1-083 C	1.2828	80/20	1.2828
962351	AG1-084 C	1.0930	80/20	1.0930
962361	AG1-085 C	1.0930	80/20	1.0930
962571	AG1-106 C	13.0259	80/20	13.0259
963301	AG1-179 C	3.6710	80/20	3.6710
963311	AG1-180	1.7886	80/20	1.7886
964241	AG1-285 C O1	3.8400	80/20	3.8400
964491	AG1-312 C O1	10.8550	80/20	10.8550
964501	AG1-313 C O1	4.3213	80/20	4.3213
964801	AG1-343 C	4.1877	80/20	4.1877
965291	AG1-394 C	1.4462	80/20	1.4462
965451	AG1-413 C O1	3.9069	80/20	3.9069
965591	AG1-427 C	3.6254	80/20	3.6254
965601	AG1-428 C O1	3.0646	80/20	3.0646
965631	AG1-431	14.2311	80/20	14.2311
965691	AG1-437 C O1	4.7694	80/20	4.7694
965701	AG1-438 C O1	4.7694	80/20	4.7694
965721	AG1-440 C	4.0406	80/20	4.0406

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965731	AG1-441 C	4.0406	80/20	4.0406
965741	AG1-442 O1	2.7821	80/20	2.7821
965751	AG1-443 O1	2.7821	80/20	2.7821
965771	AG1-445	2.3345	80/20	2.3345
965781	AG1-446	2.3345	80/20	2.3345
966621	AG1-532 C	1.1538	80/20	1.1538
966751	AG1-546 C	12.6926	80/20	12.6926
966811	AG1-552 C	2.3814	80/20	2.3814
966931	AG1-431A	10.6920	80/20	10.6920
G-007A	G-007A	0.2925	Confirmed LTF	0.2925
VFT	VFT	0.7675	Confirmed LTF	0.7675
CALDERWOOD	CALDERWOOD	0.6436	Confirmed LTF	0.6436
PRAIRIE	PRAIRIE	2.2679	Confirmed LTF	2.2679
CHEOAH	CHEOAH	0.6592	Confirmed LTF	0.6592
CBM-N	CBM-N	0.1380	Confirmed LTF	0.1380
COTTONWOOD	COTTONWOOD	2.4045	Confirmed LTF	2.4045
HAMLET	HAMLET	1.4010	Confirmed LTF	1.4010
GIBSON	GIBSON	0.4040	Confirmed LTF	0.4040
BLUEG	BLUEG	1.2464	Confirmed LTF	1.2464
TRIMBLE	TRIMBLE	0.3962	Confirmed LTF	0.3962
CATAWBA	CATAWBA	0.6836	Confirmed LTF	0.6836

11.6.75 Index 75

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169812164	934620	AD1-088 TAP	DVP	962490	AG1-098 TAP	DVP	1	DVP_P1-2: LN 298	single	571.52	110.45	111.6	DC	6.54

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924321	AB2-079 C O1 (Suspended)	2.0004	80/20	2.0004
925611	AC1-036 C	0.4104	80/20	0.4104
934625	AD1-088 C	64.0337	80/20	64.0337
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
941791	AE2-182 C	10.4032	80/20	10.4032
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
963211	AG1-170 C	4.9483	80/20	4.9483
963271	AG1-176 C O1	79.5791	80/20	79.5791
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
964841	AG1-347 C	49.6479	80/20	49.6479
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.6922	80/20	6.6922
WEC	WEC	0.0236	Confirmed LTF	0.0236
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPLE	CPLE	0.2361	Confirmed LTF	0.2361
CBM-W2	CBM-W2	0.9498	Confirmed LTF	0.9498
NY	NY	0.0321	Confirmed LTF	0.0321
TVA	TVA	0.1736	Confirmed LTF	0.1736
SIGE	SIGE	0.0158	Confirmed LTF	0.0158
CBM-S2	CBM-S2	2.5056	Confirmed LTF	2.5056
CBM-S1	CBM-S1	0.0441	Confirmed LTF	0.0441
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2135	Confirmed LTF	0.2135
CBM-W1	CBM-W1	0.9954	Confirmed LTF	0.9954

11.6.76 Index 76

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169071733	936400	AD2-051 TAP	DVP	314569	GEARLEYS	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	571.52	118.87	121.44	DC	14.69

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3482	80/20	9.3482
313527	AB2-043 C	0.2635	80/20	0.2635
313719	3CHESTNUT	0.6800	80/20	0.6800
314429	3JTRSVLE	0.1333	80/20	0.1333
314572	3EMPORIA	0.6240	80/20	0.6240
314623	3WITAKRS	0.1261	80/20	0.1261
314704	3LAWRENC	0.3599	80/20	0.3599
315126	1ROARAP2	1.5784	80/20	1.5784
315128	1ROARAP4	1.5063	80/20	1.5063
315131	1EDGECEMA (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315132	1EDGECEMB (Deactivation : 22/04/2019)	5.7466	80/20	5.7466
315136	1ROSEMG1	3.8526	80/20	3.8526
315137	1ROSEMS1	2.3890	80/20	2.3890
315138	1ROSEMG2	1.8056	80/20	1.8056
315139	1GASTONA	6.0576	80/20	6.0576
315141	1GASTONB	6.0576	80/20	6.0576
315158	1KERR 1	0.2406	80/20	0.2406
315159	1KERR 2	0.6736	80/20	0.6736
315160	1KERR 3	0.6736	80/20	0.6736

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315161	1KERR 4	0.6736	80/20	0.6736
315162	1KERR 5	0.6736	80/20	0.6736
315163	1KERR 6	0.6736	80/20	0.6736
315164	1KERR 7	0.6736	80/20	0.6736
315293	1DOMTR9	-3.2350	Adder	-3.81
315294	1DOMTR10	-3.9644	Adder	-4.66
315606	3AA2-053SOLA	1.2789	80/20	1.2789
315607	3AA1-063SOLA	1.1578	80/20	1.1578
315608	3AA2-088SOLA	0.3358	80/20	0.3358
316020	AB2-059 C OP	0.9918	80/20	0.9918
316087	AB2-174 C	1.5774	80/20	1.5774
316096	AB2-100 C1	1.6877	80/20	1.6877
316098	AB2-100 C2	1.6877	80/20	1.6877
316129	AC1-054 C	6.4409	80/20	6.4409
316131	AB2-060 C	0.7464	80/20	0.7464
920591	AA2-165 C	0.0913	80/20	0.0913
922922	AB1-081 C OP	0.8415	80/20	0.8415
923991	AB2-040 C O1	10.1812	80/20	10.1812
924301	AB2-077 C O1 (Suspended)	1.0495	80/20	1.0495
924311	AB2-078 C O1 (Suspended)	1.0495	80/20	1.0495
924321	AB2-079 C O1 (Suspended)	1.0495	80/20	1.0495
925591	AC1-034 C	4.0719	80/20	4.0719
925611	AC1-036 C	0.0939	80/20	0.0939
926070	AC1-086 C	43.1775	80/20	43.1775
926201	AC1-098 C	2.2605	80/20	2.2605
926211	AC1-099 C	0.7575	80/20	0.7575
927145	AC1-208 C	6.0536	80/20	6.0536
932631	AC2-084 C	3.2224	80/20	3.2224
934331	AD1-057 C O1	12.8767	80/20	12.8767
936265	AD2-033 C	5.6831	80/20	5.6831
936361	AD2-046 C O1	5.4499	80/20	5.4499
936401	AD2-051 C O1	43.0623	80/20	43.0623
936485	AD2-063 C	7.2891	80/20	7.2891
939181	AE1-148 C	5.3455	80/20	5.3455
940481	AE2-033 C	28.0875	80/20	28.0875
940571	AE2-044 C	2.6670	80/20	2.6670
940661	AE2-053 O1	1.9798	80/20	1.9798
942451	AE2-258	1.2459	80/20	1.2459
942471	AE2-260 C O1	26.1001	80/20	26.1001
943911	AF1-059	16.2460	80/20	16.2460
944141	AF1-082	1.7145	80/20	1.7145
946011	AF1-266	23.5115	80/20	23.5115
946281	AF1-292 C	2.2861	80/20	2.2861
946301	AF1-294 C	1.3464	80/20	1.3464
958211	AF2-115 C	0.7920	80/20	0.7920
958801	AF2-171 C	4.7826	80/20	4.7826
959311	AF2-222 C	6.6870	80/20	6.6870
960081	AF2-299 C	3.8531	80/20	3.8531
961791	AG1-021 C	0.6336	80/20	0.6336
961891	AG1-030 C	5.2659	80/20	5.2659

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962041	AG1-048 C	3.9600	80/20	3.9600
962571	AG1-106 C	12.0073	80/20	12.0073
963171	AG1-166 C	0.6336	80/20	0.6336
963181	AG1-167 C	0.6336	80/20	0.6336
963191	AG1-168 C	0.6336	80/20	0.6336
963201	AG1-169 C	0.6336	80/20	0.6336
963211	AG1-170 C	0.6336	80/20	0.6336
963301	AG1-179 C	6.5008	80/20	6.5008
963311	AG1-180	3.1673	80/20	3.1673
963321	AG1-181 C O1	7.2785	80/20	7.2785
963361	AG1-185 O1	3.5215	80/20	3.5215
963641	AG1-215 C	0.2957	80/20	0.2957
964111	AG1-272 C	1.0672	80/20	1.0672
964121	AG1-273 C	1.0672	80/20	1.0672
964131	AG1-274 C	1.0672	80/20	1.0672
964241	AG1-285 C O1	6.2348	80/20	6.2348
964501	AG1-313 C O1	2.4851	80/20	2.4851
964791	AG1-342 C	1.3863	80/20	1.3863
964801	AG1-343 C	1.8312	80/20	1.8312
964821	AG1-345 C	0.2544	80/20	0.2544
965191	AG1-384 C	1.0672	80/20	1.0672
965281	AG1-393 C	0.6336	80/20	0.6336
965291	AG1-394 C	0.7217	80/20	0.7217
965451	AG1-413 C O1	6.8292	80/20	6.8292
965591	AG1-427 C	5.8849	80/20	5.8849
965601	AG1-428 C O1	5.4270	80/20	5.4270
965721	AG1-440 C	5.2830	80/20	5.2830
965731	AG1-441 C	5.2830	80/20	5.2830
965771	AG1-445	3.0524	80/20	3.0524
965781	AG1-446	3.0524	80/20	3.0524
966621	AG1-532 C	2.0806	80/20	2.0806
966751	AG1-546 C	14.6869	80/20	14.6869
966811	AG1-552 C	2.5061	80/20	2.5061
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2482	Confirmed LTF	0.2482
CPL	CPL	1.2381	Confirmed LTF	1.2381
CBM-W2	CBM-W2	5.1251	Confirmed LTF	5.1251
NY	NY	0.1637	Confirmed LTF	0.1637
TVA	TVA	0.9604	Confirmed LTF	0.9604
SIGE	SIGE	0.0801	Confirmed LTF	0.0801
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.2405	Confirmed LTF	0.2405
MEC	MEC	0.7103	Confirmed LTF	0.7103
LAGN	LAGN	1.1900	Confirmed LTF	1.1900
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

11.6.77 Index 77

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169812115	938770	AE1-103 TAP	DVP	314527	3HOLLAND	DVP	1	DVP_P1-2: LN 136	single	224.66	122.88	125.91	DC	6.81

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

11.6.78 Index 78

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163418020	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	170.58	174.35	DC	31.22

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	14.5739	50/50	14.5739
313719	3CHESTNUT	1.3547	50/50	1.3547
314541	3WATKINS	0.3968	Adder	0.47
314572	3EMPORIA	1.0296	50/50	1.0296
314582	3KELFORD	0.3886	50/50	0.3886
314594	6PLYMOTH	0.0480	Adder	0.06
314623	3WITAKRS	0.2420	50/50	0.2420
314704	3LAWRENC	0.5984	50/50	0.5984
315126	1ROARAP2	2.1390	50/50	2.1390
315128	1ROARAP4	2.0412	50/50	2.0412
315131	1EDGECEMA (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315132	1EDGECEMB (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315136	1ROSEMG1	4.0488	50/50	4.0488
315137	1ROSEMS1	2.5107	50/50	2.5107
315138	1ROSEMG2	1.8975	50/50	1.8975
315139	1GASTONA	6.0660	50/50	6.0660
315141	1GASTONB	6.0660	50/50	6.0660
315293	1DOMTR9	4.0274	Adder	4.74
315294	1DOMTR10	4.9355	Adder	5.81
315601	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
962351	AG1-084 C	0.8099	Adder	1.8

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962352	AG1-084 E	0.5399	Adder	1.2
962361	AG1-085 C	0.8099	Adder	1.8
962362	AG1-085 E	0.5399	Adder	1.2
962571	AG1-106 C	12.0238	50/50	12.0238
962572	AG1-106 E	5.4527	50/50	5.4527
963301	AG1-179 C	10.7581	50/50	10.7581
963311	AG1-180	5.2416	50/50	5.2416
963321	AG1-181 C O1	4.9612	Adder	11.01
963361	AG1-185 O1	2.4004	Adder	5.33
964111	AG1-272 C	0.7266	Adder	1.61
964112	AG1-272 E	0.2158	Adder	0.48
964121	AG1-273 C	0.7266	Adder	1.61
964122	AG1-273 E	0.2158	Adder	0.48
964131	AG1-274 C	0.7266	Adder	1.61
964132	AG1-274 E	0.2158	Adder	0.48
964241	AG1-285 C O1	4.2670	Adder	9.47
964242	AG1-285 E O1	2.8447	Adder	6.31
964491	AG1-312 C O1	7.5745	Adder	16.81
964492	AG1-312 E O1	1.8936	Adder	4.2
964501	AG1-313 C O1	6.4026	50/50	6.4026
964502	AG1-313 E O1	4.2684	50/50	4.2684
964801	AG1-343 C	2.6428	Adder	5.87
964802	AG1-343 E	2.0765	Adder	4.61
965191	AG1-384 C	0.7266	Adder	1.61
965192	AG1-384 E	0.2158	Adder	0.48
965291	AG1-394 C	0.9050	Adder	2.01
965292	AG1-394 E	0.6033	Adder	1.34
965451	AG1-413 C O1	11.1643	50/50	11.1643
965452	AG1-413 E O1	7.4429	50/50	7.4429
965591	AG1-427 C	4.0275	Adder	8.94
965592	AG1-427 E	2.6907	Adder	5.97
965601	AG1-428 C O1	8.9810	50/50	8.9810
965602	AG1-428 E O1	5.9767	50/50	5.9767
965691	AG1-437 C O1	3.5190	Adder	7.81
965692	AG1-437 E O1	2.3460	Adder	5.21
965701	AG1-438 C O1	3.5190	Adder	7.81
965702	AG1-438 E O1	2.3460	Adder	5.21
965711	AG1-439 C O1	27.9180	50/50	27.9180
965712	AG1-439 E O1	18.6120	50/50	18.6120
965721	AG1-440 C	3.3703	Adder	7.48
965722	AG1-440 E	2.2469	Adder	4.99
965731	AG1-441 C	3.3703	Adder	7.48
965732	AG1-441 E	2.2469	Adder	4.99
965741	AG1-442 O1	2.0528	Adder	4.56
965751	AG1-443 O1	2.0528	Adder	4.56
965761	AG1-444 O1	14.8896	50/50	14.8896
965771	AG1-445	1.9473	Adder	4.32
965781	AG1-446	1.9473	Adder	4.32
966621	AG1-532 C	3.5014	50/50	3.5014
966622	AG1-532 E	2.3343	50/50	2.3343
966751	AG1-546 C	20.3177	50/50	20.3177
966752	AG1-546 E	10.9018	50/50	10.9018

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966801	AG1-551 C	0.8593	Adder	1.91
966802	AG1-551 E	0.3683	Adder	0.82
966811	AG1-552 C	3.3962	50/50	3.3962
966812	AG1-552 E	1.4555	50/50	1.4555
WEC	WEC	0.2003	Confirmed LTF	0.2003
LGEE	LGEE	0.4128	Confirmed LTF	0.4128
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

11.6.79 Index 79

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168888545	957820	AF2-076 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2092	single	571.52	240.29	242.38	DC	11.95

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	5.3764	80/20	5.3764
313527	AB2-043 C	0.1797	80/20	0.1797
313719	3CHESTNUT	1.2166	80/20	1.2166
314572	3EMPORIA	0.2919	80/20	0.2919
314582	3KELFORD	0.6058	80/20	0.6058
314589	3MURPHYS	0.0945	80/20	0.0945
314623	3WITAKRS	0.2162	80/20	0.2162
314704	3LAWRENC	0.1658	80/20	0.1658
315115	1S HAMPT1	0.4948	80/20	0.4948
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGECEMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315132	1EDGECEMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6258	80/20	2.6258
315293	1DOMTR9	13.5807	80/20	13.5807
315294	1DOMTR10	16.6430	80/20	16.6430
315601	1CONETOE2SOL	1.7196	80/20	1.7196
315602	1HOLLOMANSOL	3.2518	80/20	3.2518
315606	3AA2-053SOLA	1.6490	80/20	1.6490
315607	3AA1-063SOLA	1.1822	80/20	1.1822
315608	3AA2-088SOLA	0.6872	80/20	0.6872
315611	6Z1-036WIND	2.1843	80/20	2.1843
315614	AA2-178 C	3.1366	80/20	3.1366
316020	AB2-059 C OP	1.5978	80/20	1.5978
316087	AB2-174 C	0.8423	80/20	0.8423
316096	AB2-100 C1	0.5758	80/20	0.5758
316098	AB2-100 C2	0.5758	80/20	0.5758
316129	AC1-054 C	5.2403	80/20	5.2403
316131	AB2-060 C	0.5087	80/20	0.5087
316140	AB2-099 C (Suspended)	1.0074	80/20	1.0074
920591	AA2-165 C	0.1633	80/20	0.1633
922922	AB1-081 C OP	1.3557	80/20	1.3557
923991	AB2-040 C O1	5.8555	80/20	5.8555
924301	AB2-077 C O1 (Suspended)	0.7260	80/20	0.7260
924311	AB2-078 C O1 (Suspended)	0.7260	80/20	0.7260
924321	AB2-079 C O1 (Suspended)	0.7260	80/20	0.7260
925121	AB2-169 C	1.8885	80/20	1.8885
925591	AC1-034 C	6.5600	80/20	6.5600
926070	AC1-086 C	22.3600	80/20	22.3600
926201	AC1-098 C	8.0404	80/20	8.0404
926211	AC1-099 C	2.6944	80/20	2.6944
927024	AC1-189 C	11.8698	80/20	11.8698
927145	AC1-208 C	10.1498	80/20	10.1498
932631	AC2-084 C	11.4618	80/20	11.4618
933991	AD1-023 C	28.1849	80/20	28.1849
934331	AD1-057 C O1	10.1494	80/20	10.1494
934521	AD1-076 C	113.8581	80/20	113.8581
936361	AD2-046 C O1	4.3133	80/20	4.3133
936401	AD2-051 C O1	19.8559	80/20	19.8559
936485	AD2-063 C	4.9392	80/20	4.9392
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2104	80/20	4.2104
940481	AE2-033 C	4.4571	80/20	4.4571
940491	AE2-034 C	14.9108	80/20	14.9108
940571	AE2-044 C	4.2966	80/20	4.2966

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940661	AE2-053 O1	1.5594	80/20	1.5594
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.3297	80/20	0.3297
942131	AE2-225 C	-1.0743	Adder	-1.26
942171	AE2-229 C	-0.8057	Adder	-0.95
942451	AE2-258	0.8499	80/20	0.8499
942471	AE2-260 C O1	8.2667	80/20	8.2667
943171	AE2-346 C	2.4178	80/20	2.4178
943611	AF1-032 C	-0.8773	Adder	-1.03
943911	AF1-059	8.1959	80/20	8.1959
944141	AF1-082	2.7621	80/20	2.7621
945711	AF1-236 C O1	163.2382	80/20	163.2382
946281	AF1-292 C	0.9810	80/20	0.9810
957491	AF2-043 C	-1.0743	Adder	-1.26
957521	AF2-046 C	20.4271	80/20	20.4271
957531	AF2-047 C	35.4310	80/20	35.4310
957821	AF2-076 C	25.4541	80/20	25.4541
957861	AF2-080 C	10.7806	80/20	10.7806
959511	AF2-242 C	13.0307	80/20	13.0307
960081	AF2-299 C	1.6533	80/20	1.6533
961671	AG1-007 C	1.4833	80/20	1.4833
961681	AG1-008 C	20.4680	80/20	20.4680
961931	AG1-036 C	2.0158	80/20	2.0158
961941	AG1-037 C	0.8635	80/20	0.8635
962331	AG1-082 C	3.4540	80/20	3.4540
962341	AG1-083 C	3.4540	80/20	3.4540
962351	AG1-084 C	3.3758	80/20	3.3758
962361	AG1-085 C	3.3758	80/20	3.3758
962571	AG1-106 C	6.2181	80/20	6.2181
963301	AG1-179 C	3.0738	80/20	3.0738
963311	AG1-180	1.4976	80/20	1.4976
964241	AG1-285 C O1	4.2330	80/20	4.2330
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O1	6.1567	80/20	6.1567
964801	AG1-343 C	4.7135	80/20	4.7135
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O1	3.4453	80/20	3.4453
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O1	2.5661	80/20	2.5661
965631	AG1-431	94.5063	80/20	94.5063
965691	AG1-437 C O1	22.1316	80/20	22.1316
965701	AG1-438 C O1	22.1316	80/20	22.1316
965711	AG1-439 C O1	30.8475	80/20	30.8475
965721	AG1-440 C	4.2890	80/20	4.2890
965731	AG1-441 C	4.2890	80/20	4.2890
965741	AG1-442 O1	12.9101	80/20	12.9101
965751	AG1-443 O1	12.9101	80/20	12.9101
965761	AG1-444 O1	16.4520	80/20	16.4520
965771	AG1-445	2.4781	80/20	2.4781
965781	AG1-446	2.4781	80/20	2.4781
966621	AG1-532 C	0.8928	80/20	0.8928
966751	AG1-546 C	11.9536	80/20	11.9536
966801	AG1-551 C	3.8374	80/20	3.8374

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966811	AG1-552 C	2.0442	80/20	2.0442
966931	AG1-431A	71.0040	80/20	71.0040
WEC	WEC	0.3330	Confirmed LTF	0.3330
LGEE	LGEE	0.6786	Confirmed LTF	0.6786
CPLE	CPLE	3.7381	Confirmed LTF	3.7381
CBM-W2	CBM-W2	14.1299	Confirmed LTF	14.1299
NY	NY	0.3019	Confirmed LTF	0.3019
TVA	TVA	2.6320	Confirmed LTF	2.6320
SIGE	SIGE	0.1896	Confirmed LTF	0.1896
CBM-S2	CBM-S2	40.4863	Confirmed LTF	40.4863
CBM-S1	CBM-S1	0.6593	Confirmed LTF	0.6593
MEC	MEC	1.9656	Confirmed LTF	1.9656
LAGN	LAGN	3.2847	Confirmed LTF	3.2847
AA2-074	AA2-074	2.4687	LTF	2.4687
CBM-W1	CBM-W1	14.0621	Confirmed LTF	14.0621

11.6.80 Index 80

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
170087399	961060	AF2-397 TAP	DVP	966790	AG1-550 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	172.21	173.23	DC	6.74

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0108	80/20	14.0108
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9386	80/20	13.9386
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8276	80/20	13.8276
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0480	80/20	10.0480
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2763	80/20	2.2763
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4836	80/20	18.4836
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9989	80/20	0.9989
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1432	80/20	6.1432
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6137	80/20	3.6137
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7380	80/20	19.7380
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9955	80/20	3.9955
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961061	AF2-397 C	49.3810	80/20	49.3810
961791	AG1-021 C	2.8909	80/20	2.8909

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0682	80/20	18.0682
962441	AG1-093 C O1	8.5606	80/20	8.5606
962491	AG1-098 C O1	11.2875	80/20	11.2875
962561	AG1-105 C O1	5.6502	80/20	5.6502
962741	AG1-123 C O1	3.4622	80/20	3.4622
962751	AG1-124 C O1	3.7973	80/20	3.7973
963171	AG1-166 C	2.8909	80/20	2.8909
963181	AG1-167 C	2.8909	80/20	2.8909
963191	AG1-168 C	2.8909	80/20	2.8909
963201	AG1-169 C	2.8909	80/20	2.8909
963211	AG1-170 C	2.8909	80/20	2.8909
963271	AG1-176 C O1	18.8540	80/20	18.8540
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O1	18.3458	80/20	18.3458
963361	AG1-185 O1	8.8762	80/20	8.8762
963641	AG1-215 C	1.3491	80/20	1.3491
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O1	20.2255	80/20	20.2255
964241	AG1-285 C O1	11.0250	80/20	11.0250
964261	AG1-287 C	0.7492	80/20	0.7492
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8194	80/20	11.8194
964931	AG1-357 C	7.8348	80/20	7.8348
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8909	80/20	2.8909
965451	AG1-413 C O1	3.9569	80/20	3.9569
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299
965601	AG1-428 C O1	2.2741	80/20	2.2741
965641	AG1-432 C O1	36.9672	80/20	36.9672
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1612	80/20	6.1612
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6967	80/20	3.6967
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPL	CPL	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

11.6.81 Index 81

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
170087416	961850	AG1-027 TAP	DVP	314536	3SUFFOLK	DVP	1	DVP_P1-2: LN 136	single	269.78	126.1	128.62	DC	6.81

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
961851	AG1-027 C	82.8345	80/20	82.8345
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

11.6.82 Index 82

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169290550	962490	AG1-098 TAP	DVP	314686	6CLOVER	DVP	1	DVP_P1-2: LN 298	single	571.52	122.57	123.71	DC	6.54

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
934625	AD1-088 C	64.0337	80/20	64.0337
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940661	AE2-053 O1	2.3094	80/20	2.3094
941791	AE2-182 C	10.4032	80/20	10.4032
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
962491	AG1-098 C O1	69.6345	80/20	69.6345
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
963211	AG1-170 C	4.9483	80/20	4.9483
963271	AG1-176 C O1	79.5791	80/20	79.5791
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
964841	AG1-347 C	49.6479	80/20	49.6479
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
SIGE	SIGE	0.0158	Confirmed LTF	0.0158
CBM-S2	CBM-S2	2.5056	Confirmed LTF	2.5056
CBM-S1	CBM-S1	0.0441	Confirmed LTF	0.0441
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2135	Confirmed LTF	0.2135
CBM-W1	CBM-W1	0.9954	Confirmed LTF	0.9954

11.6.83 Index 83

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
170087409	966790	AG1-550 TAP	DVP	314765	6MTEAGLE	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	172.18	173.2	DC	6.74

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
927261	AC1-222 C	1.8205	80/20	1.8205
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0108	80/20	14.0108
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9386	80/20	13.9386
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8276	80/20	13.8276
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0480	80/20	10.0480
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2763	80/20	2.2763
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4836	80/20	18.4836
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9989	80/20	0.9989
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1432	80/20	6.1432
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6137	80/20	3.6137
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7380	80/20	19.7380
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9955	80/20	3.9955
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961061	AF2-397 C	49.3810	80/20	49.3810
961791	AG1-021 C	2.8909	80/20	2.8909
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0682	80/20	18.0682
962441	AG1-093 C O1	8.5606	80/20	8.5606
962491	AG1-098 C O1	11.2875	80/20	11.2875
962561	AG1-105 C O1	5.6502	80/20	5.6502
962741	AG1-123 C O1	3.4622	80/20	3.4622
962751	AG1-124 C O1	3.7973	80/20	3.7973
963171	AG1-166 C	2.8909	80/20	2.8909

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963181	AG1-167 C	2.8909	80/20	2.8909
963191	AG1-168 C	2.8909	80/20	2.8909
963201	AG1-169 C	2.8909	80/20	2.8909
963211	AG1-170 C	2.8909	80/20	2.8909
963271	AG1-176 C O1	18.8540	80/20	18.8540
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O1	18.3458	80/20	18.3458
963361	AG1-185 O1	8.8762	80/20	8.8762
963641	AG1-215 C	1.3491	80/20	1.3491
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O1	20.2255	80/20	20.2255
964241	AG1-285 C O1	11.0250	80/20	11.0250
964261	AG1-287 C	0.7492	80/20	0.7492
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8194	80/20	11.8194
964931	AG1-357 C	7.8348	80/20	7.8348
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8909	80/20	2.8909
965451	AG1-413 C O1	3.9569	80/20	3.9569
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299
965601	AG1-428 C O1	2.2741	80/20	2.2741
965641	AG1-432 C O1	36.9672	80/20	36.9672
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1612	80/20	6.1612
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966791	AG1-550 O1	24.3694	80/20	24.3694
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6967	80/20	3.6967
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPL	CPL	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

11.7 Queue Dependencies

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

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA1-063A	Carolina–Seaboard 115kV	In Service
AA1-065	Earleys 230kV	In Service
AA1-067	Everetts 34.5kV	In Service
AA2-053	Carolina-Jackson 115kV	In Service
AA2-057	Hornertown-Whitakers 115kV	In Service
AA2-074	CPL- 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
AB2-022	Elizabeth City 34.5kV	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	Partially in Service - Under Construction
AB2-160	Reams 115kV	Engineering and Procurement
AB2-161	Waverly #2 DP 115kV	Engineering and Procurement
AB2-169	Pantago-Five Points 115kV	Partially in Service - Under Construction
AB2-174	Emporia-Trego 115kV	In Service
AB2-190	Hopewell-Surry 230kV	Engineering and Procurement
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

Queue Number	Project Name	Status
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-116	Mount Eagle 34.5kV	Engineering and Procurement
AC1-131	PJM-CPLE	Confirmed
AC1-145	Gretna DP 69 kV	Engineering and Procurement
AC1-189	Chinquapin-Everetts 230kV	Active
AC1-208	Cox-Whitakers 115kV	Engineering and Procurement
AC1-221	Halifax-Person 230kV	Engineering and Procurement
AC1-222	Crystal Hill-Halifax 115kV	Engineering and Procurement
AC2-071	Buckingham 35kV	Withdrawn
AC2-078	Disputanta-Waverly 115kV	Engineering and Procurement
AC2-079	Ivor-Oak Ridge 115kV	Engineering and Procurement
AC2-084	Dawson-South Justice 115kV	Active
AC2-100	Halifax-Person 230kV	Engineering and Procurement
AC2-165	Bremo-Powhatan 230kV	Engineering and Procurement
AD1-017	Smith Mountain-Bearskin 138 kV	Active
AD1-023	Cashie-Trowbridge 230 kV	Active
AD1-055	Crystal Hill-Halifax 115 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-058	Halifax-Person 230 kV	Engineering and Procurement
AD1-076	Trowbridge 230 kV	Active
AD1-082	Bakers Pond-Ivor 115kV	Engineering and Procurement
AD1-087	Clover-Sedge Hill 230 kV	Active
AD1-088	Briery-Clover 230 kV	Active
AD1-131	Sedge Hill-Person 230 kV	Engineering and Procurement
AD1-152	Clover-Sedge Hill 230 kV	Active
AD1-157	South Creek 34.5 kV	Engineering and Procurement
AD2-022	East Danville-Roxborough 230 kV	Active
AD2-023	E. Danville-Roxborough 230 kV	Active
AD2-033	Chase City-Lunenburg 115 kV	Active
AD2-046	Boydton DP-Kerr Dam 115 kV	Active
AD2-051	Earleys – Northampton 230kV	Active
AD2-063	Central-Chase City 115kV	Active
AD2-085	Myrtle-Windsor DP 115kV	Active
AD2-097	Spruance NUG 230kV	In Service
AD2-202	Clover-Sedge Hill 230kV	Active
AD2-205	Byllesby 69 kV	In Service
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-056	Red House-South Creek 115 kV	Active
AE1-068	Carson-Rogers Rd 500 kV	Active
AE1-069	Carson-Rogers Road 500 kV	Active
AE1-072	Shawboro-Sligo 230 kV	Active
AE1-075	Powhatan 34.5 kV	Engineering and Procurement
AE1-085	Bakers Pond-Bell Ave 115 kV	Active
AE1-103	Holland-Union Camp 115 kV	Active
AE1-108	Bremo-Scottsville 138 kV	Active
AE1-148	Kerr Dam-Ridge Rd 115 kV	Active
AE1-149	Disputanta-Poe 115 kV	Active
AE1-173	Carson-Suffolk 500 kV	Active
AE1-230	Shockoe 69 kV	Active
AE1-250	Smith Mountain-E. Danville 138 kV	Active
AE2-000B	N/A	N/A

Queue Number	Project Name	Status
AE2-027	Harrowgate-Locks 115kV	Active
AE2-031	Carson-Rawlings 500 kV	Active
AE2-033	Clubhouse-Sappony 230 kV	Active
AE2-034	Mackeys 230 kV	Active
AE2-040	Sapony 34.5 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-051	Carson-Septa 500 kV	Active
AE2-052	Disputanta-Poe 115 kV	Active
AE2-053	Kerr Dam-Ridge Road 115 kV	Active
AE2-092	Kidds Store-Sherwood 115 kV	Active
AE2-094	Carson-Rogers Road 500 kV	Active
AE2-104	Suffolk 115 kV	Active
AE2-147	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
AE2-212	Harrowgate 34 kV	Active
AE2-225	Suffolk 34 kV	Engineering and Procurement
AE2-227	Iron Bridge 34 kV	Engineering and Procurement
AE2-228	Tyler 34 kv	Engineering and Procurement
AE2-229	Suffolk 34 kV	Engineering and Procurement
AE2-247	Myrtle-Windsor 115 kV	Active
AE2-250	Purdy Sw.-Reams 115 kV	Active
AE2-258	Chase City 115 kV	Active
AE2-259	Curdsville-Willis Mtn 115 kV	Active
AE2-260	Clubhouse 230 kV	Active
AE2-283	Gladys-Stone Mill 69 kV	Active
AE2-291	Grit DP-Perth 115 kV	Active
AE2-292	Grit DP-Perth 115 kV	Active
AE2-313	Carson-Rawlings 500 kV	Active
AE2-326	Jacksons Ferry 138 kV	Active
AE2-346	Ahoskie 34.5 kV	Active
AF1-017	Myrtle-Windsor 115 kV	Active
AF1-032	Suffolk 34.5 kV	Engineering and Procurement
AF1-058	Welco 34.5 kV	Engineering and Procurement
AF1-059	Brodnax-South Hill 115 kV	Active
AF1-069	Carson-Rogers Rd 500 kV	Active
AF1-082	Heartsease-Mayo Dunbar DP	Active
AF1-152	Swamp 230 kV	Active
AF1-173	Gretna DP-Shockoe DP 69 kV	Active
AF1-236	Mackeys 230 kV	Active
AF1-246	Clover-Rawlings 500 kV	Active
AF1-266	Clubhouse-Sapony 230 kV	Active
AF1-291	Tyler 34.5 kV	Engineering and Procurement
AF1-292	Fields 34.5kV	Active
AF1-293	Kidds Store-Fort Union 115 kV	Active
AF1-294	Jetersville-Ponton 115 kV	Active
AF1-323	Scottsville-Colleen 138 kV	Active
AF2-042	Clover-Rawlings 500 kV	Active
AF2-043	Suffolk 34.5 kV	Engineering and Procurement
AF2-046	Tunis-Mapleton 115 kV	Active

Queue Number	Project Name	Status
AF2-047	Creswell-Riders Creek 115 kV	Active
AF2-076	Suffolk-Nucor Steel 230 kV	Active
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-107	Clifford 138 kV	Active
AF2-108	Locks 34.5 kV	Active
AF2-110	Suffolk 115 kV	Active
AF2-115	Jetersville-Ponton 115 kV	Active
AF2-144	Powhatan 34.5 kV	Active
AF2-171	Madisonville 115 kV	Active
AF2-222	Madisonville DP-Twitty's Creek 115 kV	Active
AF2-242	Wharton 115 kV	Active
AF2-244	Powhatan 34.5 kV	Withdrawn
AF2-255	Iron Bridge 34.5 kV	Engineering and Procurement
AF2-256	Tyler 34.5 kV	Engineering and Procurement
AF2-258	Harrowgate 34.5 kV	Active
AF2-259	Locks 34.5 kV	Active
AF2-266	Clover 230 kV	Active
AF2-297	Sedge Hill 115 kV	Active
AF2-299	Fields 34.5 kV	Active
AF2-302	Scottsville-Colleen 138 kV	Active
AF2-397	Fork Union-Mt. Eagle 230 kV	Active
AF2-400	Franklin 13.2 kV	Engineering and Procurement
AF2-403	Shockoe DP-Chatham 69 kV	Active
AG1-007	Tar River 12.5 kV	Active
AG1-008	Tunis-Mapleton 115 kV	Active
AG1-021	Jetersville-Ponton 115 kV	Active
AG1-022	Scottsville-Colleen 138 kV	Active
AG1-027	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
AG1-075	Purdy-Sapony 115 kV	Active
AG1-082	Ahoskie 34.5 kV	Active
AG1-083	Ahoskie 34.5 kV	Active
AG1-084	Earlys 34.5 kV	Active
AG1-085	Earlys 34.5	Active
AG1-093	Halifax-Chase City 115 kV	Active
AG1-098	Briery-Clover 230 kV	Active
AG1-105	Clover-Sedge Hill 230 kV	Active
AG1-106	Thelma 230 kV	Active
AG1-123	Amherst-Riverville 138 kV	Active
AG1-124	Gladstone 138 kV	Active
AG1-153	Heritage 500 kV	Active
AG1-160	Rogers Road 500 kV	Active
AG1-166	Lone Pine 115 kV	Active
AG1-167	Lone Pine 115 kV	Active
AG1-168	Lone Pine 115 kV	Active
AG1-169	Lone Pine 115 kV	Active
AG1-170	Lone Pine 115 kV	Active
AG1-176	Briery-Clover 230 kV	Active
AG1-178	Carson-Septa 500 kV	Active

Queue Number	Project Name	Status
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 kV	Active
AG1-184	Carson-Septa 500 kV	Active
AG1-185	Pamplin-Chase City 115 kV	Active
AG1-209	Gretna 12.5 kV	Active
AG1-215	Fort Pickett 13.2 kV	Active
AG1-272	Twitty's Creek 115 kV	Active
AG1-273	Twitty's Creek 115 kV	Active
AG1-274	Twitty's Creek 115 kV	Active
AG1-275	Gladys DP-Stone Mill 69 kV	Active
AG1-276	Gladys DP-Stone Mill 69 kV	Active
AG1-284	Bremo-Cunningham DP 115 kV	Active
AG1-285	Chase City-Central 115 kV	Active
AG1-286	Johnson Mountain 138 kV	Active
AG1-287	South Boston 12.5 kV	Active
AG1-310	Crystal Hill-Perth 115 kV	Active
AG1-312	Earleys-Cashie 230 kV	Active
AG1-313	Jackson DP-Occoneetchee 115 kV	Active
AG1-342	Dryburg 115 kV	Active
AG1-343	Boykins-Murphy 115 kV	Active
AG1-345	Crewe 12.5 kV	Active
AG1-347	Briery DP-Clover 230 kV	Active
AG1-357	Clover-Rawlings 500 kV	Active
AG1-384	Twitty's Creek 115 kV	Active
AG1-393	Fort Pickett DP 34.5 kV	Active
AG1-394	Boykins 34.5 kV	Active
AG1-413	South Hill-Bordnax 115 kV	Active
AG1-426	Bremo-Scottsville 138 kV	Active
AG1-427	Chase City-Drakes Branch 115 kV	Active
AG1-428	Danieltown 69 kV	Active
AG1-431	Mackeys 230 kV	Active
AG1-431A	Mackeys 230 kV	Active
AG1-432	Curdsville DP-Willis Mt. 115 kV	Active
AG1-437	Cashie-Earleys 230 kV	Active
AG1-438	Cashie-Earleys 230 kV	Active
AG1-439	Chinquapin 230 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 kV	Active
AG1-442	Cashie-Earleys 230 kV	Active
AG1-443	Cashie-Earleys 230 kV	Active
AG1-444	Chinquapin 230 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-449	Rawlings-Carson 500 kV	Active
AG1-451	Curdsville DP-Willis Mt. 115 kV	Active
AG1-494	Boxwood-Riverville 138 kV	Active
AG1-505	Rawlings-Clover 500 kV	Active
AG1-506	Rawlings-Clover 500 kV	Active
AG1-532	Fields 34.5 kV	Active
AG1-539	Grit DP-Perth 115 kV	Active
AG1-544	Bakers Pond DP 115 kV	Active

Queue Number	Project Name	Status
AG1-545	W. Quaker Rd-Disputanta 34.5 kV	Active
AG1-546	Ebony-Elams Road 115 kV	Active
AG1-547	Mount Airy-Chatham 69 kV	Active
AG1-550	Mount Eagle-Fork Union 230 kV	Active
AG1-551	Parmele 12.5 kV	Active
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
Y1-086	Morgans Corner	In Service
Z1-036	WinFall-Chowan 230kV	Suspended
Z1-086	Heritage-Carson	In Service
Z2-027	Pasquotank 34.5kV	In Service
Z2-043	Kelford 34.5kV	In Service
Z2-044	Whitakers 34.5kV	In Service
Z2-088	Tarboro-Everetts 230kV	In Service
J888	MISO	MISO

11.8 Contingency Descriptions

Contingency Name	Contingency Definition
EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1	CONTINGENCY 'EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1' OPEN BRANCH FROM BUS 304222 TO BUS 304226 CKT 1 END
DVP_P1-2: LN 2058	CONTINGENCY 'DVP_P1-2: LN 2058' 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 END
PL:48:P71:102649	CONTINGENCY 'PL:48:P71:102649' /* SUSQ-GEN1 230KV & BETA-SUSQ 230KV DISCONNECT BRANCH FROM BUS 207915 TO BUS 208113 CKT 1 /* BETA-SUSQ DISCONNECT BUS 208114 /* SUSQ G1 END
DVP_P1-2: LN 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 249	CONTINGENCY 'DVP_P1-2: LN 249' OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 /* 6CARSON 230.00 - 6CHRL249 230.00 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 /* 6CHRL249 230.00 - 6LOCKS 230.00 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 /* 3LOCKS 115.00 - 6LOCKS 230.00 OPEN BUS 314285 /* ISLAND: 6CHRL249 230.00 END
DVP_P7-1: LN 137-1041	CONTINGENCY 'DVP_P7-1: LN 137-1041' /* . OPEN BRANCH FROM BUS 313849 TO BUS 939180 CKT 1 /* 3RIDGERD 115.00 - AE1-148 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 939180 CKT 1 /* 3KERR 115.00 - AE1-148 TAP 115.00 OPEN BUS 939180 /* ISLAND: AE1-148 TAP 115.00 OPEN BUS 939181 /* ISLAND: AE1-148 C 115.00 OPEN BUS 939182 /* ISLAND: AE1-148 E 115.00 OPEN BRANCH FROM BUS 313757 TO BUS 314674 CKT 1 /* 3CLOUD 115.00 - 3BOYDTON 115.00 OPEN BRANCH FROM BUS 314255 TO BUS 314674 CKT 1 /* 3BOYDPLK 115.00 - 3BOYDTON 115.00 OPEN BUS 314674 /* ISLAND: 3BOYDTON 115.00 END

Contingency Name	Contingency Definition
EXT_304099 3WARREN TAP 115 304102 3GW KING TAP 115 1	CONTINGENCY 'EXT_304099 3WARREN TAP 115 304102 3GW KING TAP 115 1' OPEN BRANCH FROM BUS 304099 TO BUS 304102 CKT 1 END
AEP_P2-2_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P2-2_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
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 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

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_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 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 84	CONTINGENCY 'DVP_P1-2: LN 84' OPEN BRANCH FROM BUS 314521 TO BUS 314713 CKT 1 /* 3PAMPL_1 115.00 - 3PAMPLIN 115.00 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 /* 3FARMVIL 115.00 - 3WILLIS 115.00 OPEN BRANCH FROM BUS 314713 TO BUS 314726 CKT 1 /* 3PAMPLIN 115.00 - 3WILLIS 115.00 OPEN BUS 314521 /* ISLAND: 3PAMPL_1 115.00 OPEN BUS 314726 /* ISLAND: 3WILLIS 115.00 END
DVP_P1-2: LN 2131	CONTINGENCY 'DVP_P1-2: LN 2131' OPEN BRANCH FROM BUS 313714 TO BUS 313885 CKT 1 /* 6PERQUIMANS 230.00 - 6WALBMRL 230.00 OPEN BRANCH FROM BUS 313885 TO BUS 314637 CKT 1 /* 6WALBMRL 230.00 - 6EDENTON 230.00 OPEN BRANCH FROM BUS 314203 TO BUS 314637 CKT 1 /* 6MACKEYS 230.00 - 6EDENTON 230.00 OPEN BUS 313885 /* ISLAND: 6WALBMRL 230.00 OPEN BUS 314637 /* ISLAND: 6EDENTON 230.00 END
DVP_P1-2: LN 171	CONTINGENCY 'DVP_P1-2: LN 171' OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 /* 3HERBERT 115.00 - 3CHASCTY 115.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 171-1009	CONTINGENCY 'DVP_P7-1: LN 171-1009' /* . OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 /* 3HERBERT 115.00 - 3CHASCTY 115.00 OPEN BRANCH FROM BUS 313849 TO BUS 314267 CKT 1 /* 3RIDGERD 115.00 - 3CHASCTY2 115.00 END
DVP_P7-1: LN 2058-2181	CONTINGENCY 'DVP_P7-1: LN 2058-2181' /* . OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
314333 6POWHATN 230 933500 AC2-165 TAP 230 1	CONTINGENCY '314333 6POWHATN 230 933500 AC2-165 TAP 230 1' OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 END
DVP_P1-2: 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 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 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

Contingency Name	Contingency Definition
DVP_P1-2: LN 2181	CONTINGENCY 'DVP_P1-2: LN 2181' OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P1-2: LN 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 END
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 /* 6DRY BREAD 230.00 - 6CLUBHSE 230.00 END
DVP_P1-2: LN 45	CONTINGENCY 'DVP_P1-2: LN 45' OPEN BUS 304099 /* ISLAND: 3WARREN TAP 115.00 OPEN BUS 304100 /* ISLAND: 3HEND
314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1	CONTINGENCY '314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1' OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 END
DVP_P1-2: LN 218	CONTINGENCY 'DVP_P1-2: LN 218' OPEN BRANCH FROM BUS 304451 TO BUS 314574 CKT 1 /* 6GREENVILE T230.00 - 6EVERETS 230.00 END
DVP_P1-3: 6SEEDGE HILL-TX#2	CONTINGENCY 'DVP_P1-3: 6SEEDGE HILL-TX#2' OPEN BRANCH FROM BUS 314696 TO BUS 314697 CKT 2 /* 3SEEDGE HILL 115.00 - 6SEEDGE HILL 230.00 END
DVP_P1-2: LN 238-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

Contingency Name	Contingency Definition
DVP_P1-2: LN 238-A	CONTINGENCY 'DVP_P1-2: LN 238-A' OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2-033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 END
DVP_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END
DVP_P7-1: LN 54-2012-B	CONTINGENCY 'DVP_P7-1: LN 54-2012-B' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* AD2-051 TAP - 6EARLEYS 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 END
DVP_P1-2: LN 1026	CONTINGENCY 'DVP_P1-2: LN 1026' OPEN BRANCH FROM BUS 313806 TO BUS 314255 CKT 1 /* 3HERBERT 115.00 - 3BOYDPLK 115.00 END

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

Contingency Name	Contingency Definition
DVP_P1-2: LN 126	CONTINGENCY 'DVP_P1-2: LN 126' OPEN BRANCH FROM BUS 314568 TO BUS 314582 CKT 1 /* 3EARLEYS 115.00 - 3KELFORD 115.00 OPEN BRANCH FROM BUS 314582 TO BUS 314602 CKT 1 /* 3KELFORD 115.00 - 3SAMS HD 115.00 OPEN BRANCH FROM BUS 314602 TO BUS 314603 CKT 1 /* 3SAMS HD 115.00 - 3SCOT NK 115.00 OPEN BUS 314582 /* ISLAND: 3KELFORD 115.00 OPEN BUS 314602 /* ISLAND: 3SAMS HD 115.00 END
DVP_P7-1: LN 38-137-B	CONTINGENCY 'DVP_P7-1: LN 38-137-B' /*. OPEN BRANCH FROM BUS 936360 TO BUS 314702 CKT 1 /* AD2-046 TAP 115.00 - 3KERR 115.00 OPEN BRANCH FROM BUS 313849 TO BUS 939180 CKT 1 /* 3RIDGERD 115.00 - AE1-148 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 939180 CKT 1 /* 3KERR 115.00 - AE1-148 TAP 115.00 OPEN BUS 939180 /* ISLAND: AE1-148 TAP 115.00 OPEN BUS 939181 /* ISLAND: AE1-148 C 115.00 OPEN BUS 939182 /* ISLAND: AE1-148 E 115.00 END
DVP_P7-1: LN 38-137-A	CONTINGENCY 'DVP_P7-1: LN 38-137-A' /*. OPEN BRANCH FROM BUS 313757 TO BUS 936360 CKT 1 /* 3CLOUD 115.00 - AD2-046 TAP 115.00 OPEN BRANCH FROM BUS 313849 TO BUS 939180 CKT 1 /* 3RIDGERD 115.00 - AE1-148 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 939180 CKT 1 /* 3KERR 115.00 - AE1-148 TAP 115.00 OPEN BUS 939180 /* ISLAND: AE1-148 TAP 115.00 OPEN BUS 939181 /* ISLAND: AE1-148 C 115.00 OPEN BUS 939182 /* ISLAND: AE1-148 E 115.00 END
DVP_P1-2: LN 298	CONTINGENCY 'DVP_P1-2: LN 298' OPEN BRANCH FROM BUS 314677 TO BUS 314692 CKT 1 /* 6BUCKING 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 OPEN BUS 314677 /* ISLAND: 6BUCKING 230.00 OPEN BUS 924032 /* ISLAND: AB2-045 E 230.00 OPEN BUS 932511 /* ISLAND: AC2-071 C 230.00 OPEN BUS 932512 /* ISLAND: AC2-071 E 230.00 END
AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1' OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2027	CONTINGENCY 'DVP_P1-2: LN 2027' OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 933500 CKT 1 /* 6CARTERV 230.00 - AC2-165 TAP 230.00 OPEN BRANCH FROM BUS 314310 TO BUS 314322 CKT 1 /* 6JUDES F 230.00 - 6MDLTHAN 230.00 OPEN BRANCH FROM BUS 314310 TO BUS 314333 CKT 1 /* 6JUDES F 230.00 - 6POWHATN 230.00 OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 /* 6POWHATN 230.00 - AC2-165 TAP 230.00 OPEN BUS 313868 /* ISLAND: 6CARTERV 230.00 OPEN BUS 314310 /* ISLAND: 6JUDES F 230.00 OPEN BUS 314333 /* ISLAND: 6POWHATN 230.00 OPEN BUS 923862 /* ISLAND: AB2-026 E 230.00 OPEN BUS 938561 /* ISLAND: AE1-075 C 230.00 OPEN BUS 938562 /* ISLAND: AE1-075 E 230.00 OPEN BUS 933500 /* ISLAND: AC2-165 TAP 230.00 OPEN BUS 933501 /* ISLAND: AC2-165 C 230.00 OPEN BUS 933502 /* ISLAND: AC2-165 E 230.00 END
DVP_P1-2: LN 68-A	CONTINGENCY 'DVP_P1-2: LN 68-A' OPEN BRANCH FROM BUS 313737 TO BUS 314527 CKT 1 /* 3COPELD DP 115.00 - 3HOLLAND 115.00 OPEN BRANCH FROM BUS 313737 TO BUS 961850 CKT 1 /* 3COPELD DP 115.00 - 3SUFFOLK 115.00 OPEN BRANCH FROM BUS 314527 TO BUS 938770 CKT 1 /* 3HOLLAND 115.00 - AE1-103 TAP 115.00 OPEN BUS 313737 /* ISLAND: 3COPELD DP 115.00 OPEN BUS 314527 /* ISLAND: 3HOLLAND 115.00 END
Base Case	
AEP_P7-1_#10781-A	CONTINGENCY 'AEP_P7-1_#10781-A' /* OPEN BRANCH FROM BUS 242530 TO BUS 936160 CKT 1 / 242530 05EDANV1 230 936160 AD2-022 TAP 230 1 OPEN BRANCH FROM BUS 242531 TO BUS 304094 CKT 1 / 242531 05EDANV2 230 304094 6YANCY TAP 230 1 OPEN BRANCH FROM BUS 304094 TO BUS 304097 CKT 1 / 304094 6YANCY TAP 230 304097 6CONCD2230TT 230 1 OPEN BRANCH FROM BUS 304094 TO BUS 304095 CKT 1 / 304094 6YANCY TAP 230 304095 6YANCYVILLE 230 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2003	CONTINGENCY 'DVP_P1-2: LN 2003' OPEN BRANCH FROM BUS 314263 TO BUS 314287 CKT 1 /* 6TYLER1 230.00 - 6CHESTF B 230.00 OPEN BRANCH FROM BUS 314263 TO BUS 314299 CKT 1 /* 6TYLER1 230.00 - 6HARROWG 230.00 OPEN BRANCH FROM BUS 314299 TO BUS 314331 CKT 1 /* 6HARROWG 230.00 - 6POE 230.00 OPEN BRANCH FROM BUS 314329 TO BUS 314331 CKT 2 /* 3POE 115.00 - 6POE 230.00 OPEN BUS 314263 /* ISLAND: 6TYLER1 230.00 OPEN BUS 314299 /* ISLAND: 6HARROWG 230.00 END
AEP_P1-3_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P1-3_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
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 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

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_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
AEP_P1-2_#5463_158-A	CONTINGENCY 'AEP_P1-2_#5463_158-A' OPEN BRANCH FROM BUS 242544 TO BUS 943810 CKT 2 / 242544 05AXTON 138 943810 AF1-049 TAP 138 2 END
DVP_P1-2: LN 33	CONTINGENCY 'DVP_P1-2: LN 33' OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 /* 3CHASCTY2 115.00 - 3BARNES J 115.00 OPEN BRANCH FROM BUS 314669 TO BUS 314684 CKT 1 /* 3BARNES J 115.00 - 3MT LREL 115.00 OPEN BRANCH FROM BUS 314684 TO BUS 316115 CKT 1 /* 3MT LREL 115.00 - AC1- 105 TAP 115.00 OPEN BRANCH FROM BUS 314696 TO BUS 316115 CKT 1 /* 3SEEDGE HILL 115.00 - AC1-105 TAP 115.00 OPEN BUS 314669 /* ISLAND: 3BARNES J 115.00 OPEN BUS 314684 /* ISLAND: 3MT LREL 115.00 OPEN BUS 316115 /* ISLAND: AC1-105 TAP 115.00 OPEN BUS 316116 /* ISLAND: AC1-105 MAIN115.00 OPEN BUS 316117 /* ISLAND: AC1-105 COL 34.500 OPEN BUS 316118 /* ISLAND: AC1-105 C 0.5750 OPEN BUS 926274 /* ISLAND: AC1-105 E 0.5750 END
DVP_P1-3: 8SUFFOLK-TX#8	CONTINGENCY 'DVP_P1-3: 8SUFFOLK-TX#8' OPEN BRANCH FROM BUS 314537 TO BUS 314928 CKT 2 /* 6SUFFOLK 230.00 - 8SUFFOLK 500.00 END
DVP_P1-3: 6SEEDGE HILL-TX#1	CONTINGENCY 'DVP_P1-3: 6SEEDGE HILL-TX#1' OPEN BRANCH FROM BUS 314696 TO BUS 314697 CKT 1 /* 3SEEDGE HILL 115.00 - 6SEEDGE HILL 230.00 END
DVP_P1-2: LN 140	CONTINGENCY 'DVP_P1-2: LN 140' OPEN BRANCH FROM BUS 313720 TO BUS 314526 CKT 1 /* 3NEWSOMS 115.00 - 3HANDSOM 115.00 OPEN BRANCH FROM BUS 314526 TO BUS 314534 CKT 1 /* 3HANDSOM 115.00 - 3S HAMPT 115.00 OPEN BUS 314526 /* ISLAND: 3HANDSOM 115.00 END

Contingency Name	Contingency Definition
DVP_P1-3: 8SUFFOLK-TX#7	CONTINGENCY 'DVP_P1-3: 8SUFFOLK-TX#7' OPEN BRANCH FROM BUS 314537 TO BUS 314928 CKT 1 /* 6SUFFOLK 230.00 - 8SUFFOLK 500.00 END
DVP_P4-2: 13002	CONTINGENCY 'DVP_P4-2: 13002' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314595 TO BUS 314600 CKT 1 /* 3PL HILL 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314600 TO BUS 314615 CKT 1 /* 3PLHITP 115.00 - 3SKIPPER 115.00 OPEN BUS 314595 /* ISLAND: 3PL HILL 115.00 OPEN BUS 314600 /* ISLAND: 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 END
DVP_P1-2: LN 2002	CONTINGENCY 'DVP_P1-2: LN 2002' OPEN BRANCH FROM BUS 314282 TO BUS 314331 CKT 1 /* 6CARSON 230.00 - 6POE 230.00 OPEN BRANCH FROM BUS 314329 TO BUS 314331 CKT 1 /* 3POE 115.00 - 6POE 230.00 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