



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-357
CLOVER-RAWLINGS 500 KV
120 MW Capacity / 200 MW Energy**

January 2021

Table of Contents

1	Introduction.....	8
2	Preface.....	8
3	General	9
4	Point of Interconnection.....	10
4.1	Primary Point of Interconnection	10
4.2	Secondary Point of Interconnection.....	10
5	Cost Summary	10
6	Transmission Owner Scope of Work.....	12
7	Schedule.....	13
8	Transmission Owner Analysis.....	13
8.1	Power Flow Analysis	13
8.2	Short Circuit Analysis.....	13
8.3	Stability Analysis.....	14
9	Interconnection Customer Requirements.....	14
9.1	System Protection.....	14
9.2	Compliance Issues and Interconnection Customer Requirements	14
9.3	Power Factor Requirements.....	15
10	Revenue Metering and SCADA Requirements	15
10.1	PJM Requirements	15
10.2	Meteorological Data Reporting Requirements	15
10.3	Interconnected Transmission Owner Requirements.....	15
11	Summer Peak - Load Flow Analysis - Primary POI	16
11.1	Generation Deliverability	17
11.2	Multiple Facility Contingency	17
11.3	Contribution to Previously Identified Overloads.....	17
11.4	Potential Congestion due to Local Energy Deliverability.....	21
11.5	System Reinforcements - Summer Peak Load Flow - Primary POI.....	24
11.6	Flow Gate Details - Primary POI	32
11.6.1	Index 1	33
11.6.2	Index 2	36
11.6.3	Index 3	39

11.6.4	Index 4	42
11.6.5	Index 5	45
11.6.6	Index 6	49
11.6.7	Index 7	51
11.6.8	Index 8	54
11.6.9	Index 9	56
11.6.10	Index 10.....	60
11.6.11	Index 11.....	63
11.6.12	Index 12.....	67
11.6.13	Index 13.....	71
11.6.14	Index 14.....	75
11.6.15	Index 15.....	79
11.6.16	Index 16.....	83
11.6.17	Index 17.....	87
11.6.18	Index 18.....	89
11.6.19	Index 19.....	91
11.6.20	Index 20.....	93
11.6.21	Index 21.....	96
11.6.22	Index 22.....	100
11.6.23	Index 23.....	103
11.6.24	Index 24.....	106
11.6.25	Index 25.....	110
11.6.26	Index 26.....	113
11.6.27	Index 27.....	117
11.6.28	Index 28.....	122
11.6.29	Index 29.....	126
11.6.30	Index 30.....	129
11.6.31	Index 31.....	132
11.6.32	Index 32.....	136
11.6.33	Index 33.....	139
11.6.34	Index 34.....	143
11.6.35	Index 35.....	145
11.6.36	Index 36.....	148

11.6.37	Index 37	152
11.6.38	Index 38.....	155
11.6.39	Index 39.....	158
11.6.40	Index 40.....	161
11.6.41	Index 41.....	164
11.6.42	Index 42.....	166
11.6.43	Index 43.....	168
11.6.44	Index 44.....	170
11.6.45	Index 45.....	172
11.7	Queue Dependencies	175
11.8	Contingency Descriptions - Primary POI.....	182
12	Short Circuit Analysis - Primary POI.....	186
12.1	System Reinforcements - Short Circuit.....	186
13	Summer Peak - Load Flow Analysis - Secondary POI	187
13.1	Generation Deliverability	188
13.2	Multiple Facility Contingency	188
13.3	Contribution to Previously Identified Overloads.....	189
13.4	Potential Congestion due to Local Energy Deliverability.....	195
13.5	Flow Gate Details - Secondary POI.....	201
13.5.1	Index 1	202
13.5.2	Index 2	205
13.5.3	Index 3	206
13.5.4	Index 4	208
13.5.5	Index 5	209
13.5.6	Index 6	210
13.5.7	Index 7	211
13.5.8	Index 8	212
13.5.9	Index 9	214
13.5.10	Index 10.....	215
13.5.11	Index 11.....	217
13.5.12	Index 12.....	220
13.5.13	Index 13.....	222
13.5.14	Index 14.....	225

13.5.15	Index 15.....	228
13.5.16	Index 16.....	231
13.5.17	Index 17.....	234
13.5.18	Index 18.....	238
13.5.19	Index 19.....	241
13.5.20	Index 20.....	244
13.5.21	Index 21.....	247
13.5.22	Index 22.....	250
13.5.23	Index 23.....	253
13.5.24	Index 24.....	256
13.5.25	Index 25.....	258
13.5.26	Index 26.....	265
13.5.27	Index 27.....	269
13.5.28	Index 28.....	272
13.5.29	Index 29.....	274
13.5.30	Index 30.....	275
13.5.31	Index 31.....	277
13.5.32	Index 32.....	280
13.5.33	Index 33.....	283
13.5.34	Index 34.....	285
13.5.35	Index 35.....	289
13.5.36	Index 36.....	291
13.5.37	Index 37.....	294
13.5.38	Index 38.....	300
13.5.39	Index 39.....	305
13.5.40	Index 40.....	311
13.5.41	Index 41.....	317
13.5.42	Index 42.....	320
13.5.43	Index 43.....	326
13.5.44	Index 44.....	329
13.5.45	Index 45.....	332
13.5.46	Index 46.....	336
13.5.47	Index 47.....	340

13.5.48	Index 48.....	343
13.5.49	Index 49.....	348
13.5.50	Index 50.....	350
13.5.51	Index 51.....	353
13.5.52	Index 52.....	356
13.5.53	Index 53.....	359
13.5.54	Index 54.....	363
13.5.55	Index 55.....	366
13.5.56	Index 56.....	369
13.5.57	Index 57.....	372
13.5.58	Index 58.....	376
13.5.59	Index 59.....	379
13.5.60	Index 60.....	381
13.5.61	Index 61.....	385
13.5.62	Index 62.....	387
13.5.63	Index 63.....	389
13.5.64	Index 64.....	393
13.5.65	Index 65.....	396
13.5.66	Index 66.....	400
13.5.67	Index 67.....	402
13.5.68	Index 68.....	405
13.5.69	Index 69.....	409
13.5.70	Index 70.....	412
13.5.71	Index 71.....	413
13.5.72	Index 72.....	416
13.5.73	Index 73.....	419
13.5.74	Index 74.....	420
13.5.75	Index 75.....	423
13.5.76	Index 76.....	426
13.5.77	Index 77.....	428
13.5.78	Index 78.....	431
13.5.79	Index 79.....	433
13.5.80	Index 80.....	436

13.5.81	Index 81.....	439
13.5.82	Index 82.....	443
13.5.83	Index 83.....	446
13.5.84	Index 84.....	449
13.5.85	Index 85.....	452
13.5.86	Index 86.....	455
13.5.87	Index 87.....	457
13.5.88	Index 88.....	462
13.5.89	Index 89.....	466
13.5.90	Index 90.....	469
13.5.91	Index 91.....	472
13.5.92	Index 92.....	475
13.5.93	Index 93.....	476
13.5.94	Index 94.....	478
13.5.95	Index 95.....	481
13.6	Contingency Descriptions - Secondary POI.....	485
14	Affected Systems	503
14.1	TVA.....	503
14.2	Duke Energy Progress.....	503
15	Attachment 1: One Line Diagram	504

1 Introduction

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

2 Preface

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

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

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

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

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

3 General

The Interconnection Customer (IC), has proposed a Solar generating facility located in Lunenburg County, Virginia. The installed facilities will have a total capability of 200 MW with 120 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is December 01, 2024. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-357
Project Name	CLOVER-RAWLINGS 500 KV
State	Virginia
County	Lunenburg
Transmission Owner	Dominion
MFO	200
MWE	200
MWC	120
Fuel	Solar
Basecase Study Year	2024

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

4 Point of Interconnection

4.1 Primary Point of Interconnection

AG1-357 "Clover-Rawlings 500 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 500 kV three breaker ring bus located on the line between the Clover substation and Rawlings substation.

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

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

4.2 Secondary Point of Interconnection

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

The secondary POI for AG1-357 is a new tap on the Chase City-Lunenburg 115 kV line.

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

5 Cost Summary

The AG1-357 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$ 21,950,000
Total System Network Upgrade Costs	\$1,167,332,500 ¹
Total Costs	\$1,189,282,500

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

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

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

6 Transmission Owner Scope of Work

The required Attachment Facilities, Direct Connection and Non-Direct Connection work for the interconnection of AG1-357 to the Dominion Transmission System is detailed in the following sections. The associated one-line showing the generation project attachment facilities and primary direct and non-direct connection is shown in Attachment 1.

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

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

Description	Total Cost
<i>Attachment Facilities</i>	\$2,750,000
<i>500 kV Three Breaker Ring-Bus Substation</i>	\$17,000,000
<i>Re-arrange line and tie-in new substation</i>	\$2,200,000
Total Physical Interconnection Costs	\$21,950,000

AG1-357 "Clover-Rawlings 500 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 500 kV three breaker ring bus located on the line between the Clover substation and Rawlings substation.

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

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

7 Schedule

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

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 report¹.

8 Transmission Owner Analysis

Dominion assessed the impact of the proposed AG1-357 for compliance with NERC Reliability Criteria on the Dominion Transmission System. The system was assessed using the summer 2024 AG1 case provided to Dominion by PJM.

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

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

8.1 Power Flow Analysis

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

8.2 Short Circuit Analysis

No impacts.

8.3 Stability Analysis

To be performed in the Facilities Study phase.

9 Interconnection Customer Requirements

9.1 System Protection

The IC must design its Customer Facilities in accordance with all applicable standards, including the standards in Dominion's "Dominion Energy Electric Transmission Generator Interconnection Requirements" documented in Dominion's Facility Interconnection Requirements "Exhibit C" located at: <https://www.dominionenergy.com/company/moving-energy/electric-transmission-access>. Preliminary Protection requirements will be provided as part of the Facilities Study. Detailed Protection Requirements will be provided once the project enters the construction phase.

9.2 Compliance Issues and Interconnection Customer Requirements

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

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

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

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

9.3 Power Factor Requirements

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

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

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

10.2 Meteorological Data Reporting Requirements

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

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

10.3 Interconnected Transmission Owner Requirements

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

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

11 Summer Peak - Load Flow Analysis - Primary POI

The Queue Project AG1-357 was evaluated as a 200.0 MW (Capacity 120.0 MW) injection tapping the Clover to Rawlings 500 kV line in the Dominion area. Project AG1-357 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-357 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

11.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168479882	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	Base Case	single	661.760009766	99.23	100.4	DC	7.9
169215498	314714	3PERTH	115.0	DVP	942750	AE2-291 TAP	115.0	DVP	1	DVP_P1-2: LN 556-D	single	285.760009766	97.17	100.58	DC	9.73
169215499	314714	3PERTH	115.0	DVP	942750	AE2-291 TAP	115.0	DVP	1	DVP_P1-2: LN 556-C	single	285.760009766	97.17	100.58	DC	9.73
169431760	314747	6BREM O	230.0	DVP	313867	6BREM ODIS T	230.0	DVP	1	Base Case	single	661.760009766	99.81	101.12	DC	8.73

11.2 Multiple Facility Contingency

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163758646	314940	8ROGERS RD	500.0	DVP	938490	AE1-068_POI	500.0	DVP	1	DVP_P4-2: 51172	breaker	5046.0	98.43	100.32	DC	95.79

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168204355	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTI OCH 500 1	single	402.0	127.57	128.4	DC	7.45
168204356	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	127.57	128.4	DC	7.45
168479879	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	150.07	151.26	DC	7.83
168479880	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	146.27	147.45	DC	7.83
168479896	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	143.71	150.54	DC	39.02

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADIN G %	POST PROJE CT LOADIN G %	AC D C	MW IMPAC T
168479901	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	149.92	151.23	DC	8.66
168479902	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	145.75	147.06	DC	8.66
168479891	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	143.76	150.59	DC	39.02
168784125	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	single	559.299987793	162.01	163.46	DC	8.3
168784382	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P1-2: LN 563	single	678.679992676	110.6	111.61	DC	7.08
168784135	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	single	559.299987793	158.2	159.65	DC	8.3
168784158	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	139.26	140.65	DC	6.31
168784278	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	137.7	138.74	DC	6.59
168784205	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	142.87	143.91	DC	6.59
168784154	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	139.29	140.67	DC	6.31
169215297	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	206.9	213.21	DC	36.07
169215300	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	single	571.520019531	121.5	123.29	DC	10.24
169215371	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	132.13	142.0	DC	80.42
169215372	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-C	single	814.979980469	132.17	142.04	DC	80.42
169215413	314686	6CLOVER	230.0	DVP	962490	AG1-098 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	571.520019531	120.4	127.22	DC	39.02
169215414	314686	6CLOVER	230.0	DVP	962490	AG1-098 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	120.41	127.24	DC	39.02
169215367	314690	6BLACK WALNU	230.0	DVP	962560	AG1-105 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	140.74	150.61	DC	80.42
169215368	314690	6BLACK WALNU	230.0	DVP	962560	AG1-105 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	814.979980469	140.78	150.65	DC	80.42
169215276	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	single	559.299987793	208.15	214.6	DC	36.08
169215279	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	single	559.299987793	121.43	123.27	DC	10.26
169215303	314697	6SEGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	674.91998291	184.28	193.39	DC	61.5
169215304	314697	6SEGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	674.91998291	184.31	193.42	DC	61.5
169431757	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	152.08	153.39	DC	8.66

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPACT
169431758	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	147.91	149.22	DC	8.66
169431747	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	153.95	155.13	DC	7.83
169431748	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	150.16	151.34	DC	7.83
169431750	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	Base Case	single	661.760009766	101.61	102.78	DC	7.9
163758551	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	DVP_P4-2: 557T574	breaker	3938.0	145.49	146.09	DC	64.55
163758552	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	DVP_P4-2: H2T557	breaker	3938.0	138.65	139.12	DC	63.1
163758628	314902	8CARSON	500.0	DVP	939410	AE1-173_POI	500.0	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	106.32	107.93	DC	55.44
163758809	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	DVP_P1-2: LN 557	single	3218.56005859	129.73	130.14	DC	35.99
163758810	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	DVP_P1-2: LN 567	single	3218.56005859	123.07	124.13	DC	36.1
168784115	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 563	single	903.903991699	155.15	156.94	DC	16.37
168784117	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 562-C	single	903.903991699	106.46	107.8	DC	12.11
163758741	314903	8CHCKAHM	500.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P1-2: LN 563	single	2442.12011719	183.85	183.97	DC	27.06
163758773	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P1-2: LN 574	single	2442.12011719	176.36	176.69	DC	34.42
163758776	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P1-2: LN 557	single	2442.12011719	154.94	155.17	DC	32.83
163758783	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	Base Case	single	2442.12011719	128.02	128.48	DC	28.49
168784168	314914	8MDLTHAN	500.0	DVP	314322	6MDLTHAN	230.0	DVP	1	DVP_P1-2: LN 576	single	1058.15795898	141.11	142.34	DC	13.71
163758596	314918	8NO ANNA	500.0	DVP	314934	8SPOTSYL	500.0	DVP	1	DVP_P4-2: 568T575	breaker	3938.0	118.98	119.28	DC	39.58
163758644	314923	8SEPTA	500.0	DVP	314924	8SURREY	500.0	DVP	1	DVP_P4-2: 56372	breaker	3637.0	103.38	104.61	DC	51.87
163758904	314923	8SEPTA	500.0	DVP	314924	8SURREY	500.0	DVP	1	DVP_P1-2: LN 563	single	2442.12011719	100.13	101.18	DC	25.76
163758840	314924	8SURREY	500.0	DVP	314903	8CHCKAHM	500.0	DVP	1	DVP_P1-2: LN 563	single	2442.12011719	116.77	117.18	DC	25.49
163758860	314936	8RAWLING S	500.0	DVP	942930	AE2-313 TAP	500.0	DVP	1	DVP_P1-2: LN 585-A	single	4070.19995117	118.27	119.48	DC	65.94
163758861	314936	8RAWLING S	500.0	DVP	942930	AE2-313 TAP	500.0	DVP	1	938490 AE1-068_POI 500 941030 AE2-094 TAP 500 1	single	4070.19995117	114.34	115.55	DC	65.94
163758928	314940	8ROGERS RD	500.0	DVP	938490	AE1-068_POI	500.0	DVP	1	DVP_P1-2: LN 511-A	single	4070.19995117	108.17	109.3	DC	58.83
163758929	314940	8ROGERS RD	500.0	DVP	938490	AE1-068_POI	500.0	DVP	1	DVP_P1-2: LN 511-B	single	4070.19995117	105.31	106.39	DC	58.83

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
163758688	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON2 30 T	230.0	CPL E	1	DVP_P1-2: LN 556-D	single	718.0	185.19	193.76	DC	61.5
163758689	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON2 30 T	230.0	CPL E	1	DVP_P1-2: LN 556-C	single	718.0	185.22	193.79	DC	61.5
169706168	934620	AD1-088 TAP	230.0	DVP	963270	AG1-176 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	571.520019531	132.33	139.16	DC	39.02
169706169	934620	AD1-088 TAP	230.0	DVP	963270	AG1-176 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	132.35	139.17	DC	39.02
163758892	938490	AE1-068_POI	500.0	DVP	941030	AE2-094 TAP	500.0	DVP	1	DVP_P1-2: LN 511-A	single	4070.19995117	117.36	118.5	DC	58.83
163758893	938490	AE1-068_POI	500.0	DVP	941030	AE2-094 TAP	500.0	DVP	1	DVP_P1-2: LN 511-B	single	4070.19995117	114.71	115.79	DC	58.83
163758576	939410	AE1-173_POI	500.0	DVP	314928	8SUFFOLK	500.0	DVP	1	DVP_P4-2: 562T563	break er	3144.0	118.85	120.46	DC	55.44
163758591	940470	AE2-031 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P4-5: W72	break er	5046.0	114.33	116.45	DC	107.08
163758799	940470	AE2-031 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P1-2: LN 585-A	single	4070.19995117	124.58	125.85	DC	65.94
163758800	940470	AE2-031 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	938490 AE1-068_POI 500 941030 AE2-094 TAP 500 1	single	4070.19995117	120.56	121.83	DC	65.94
163758852	941030	AE2-094 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P1-2: LN 511-A	single	4070.19995117	121.95	123.08	DC	58.83
163758853	941030	AE2-094 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P1-2: LN 511-B	single	4070.19995117	119.29	120.38	DC	58.83
163758833	942930	AE2-313 TAP	500.0	DVP	940470	AE2-031 TAP	500.0	DVP	1	DVP_P1-2: LN 585-A	single	4070.19995117	121.46	122.67	DC	65.94
163758834	942930	AE2-313 TAP	500.0	DVP	940470	AE2-031 TAP	500.0	DVP	1	938490 AE1-068_POI 500 941030 AE2-094 TAP 500 1	single	4070.19995117	117.44	118.64	DC	65.94
169993943	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	157.52	158.7	DC	7.83
169993944	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	153.72	154.9	DC	7.83
169993946	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	Base Case	single	661.760009766	105.16	106.33	DC	7.9
169706182	962490	AG1-098 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	571.520019531	125.58	132.41	DC	39.02
169706183	962490	AG1-098 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	125.6	132.43	DC	39.02

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
169215347	962560	AG1-105 TAP	230.0	DVP	314697	6SEGE HILL	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	145.88	155.74	DC	80.42
169215348	962560	AG1-105 TAP	230.0	DVP	314697	6SEGE HILL	230.0	DVP	1	DVP_P1-2: LN 556-C	single	814.979980469	145.91	155.78	DC	80.42
169993984	963270	AG1-176 TAP	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	140.02	146.85	DC	39.02
168784091	964840	AG1-347 TAP	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	144.83	151.66	DC	39.02
169993953	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	157.49	158.67	DC	7.83
169993954	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	153.7	154.89	DC	7.83
169993956	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	Base Case	single	661.760009766	105.15	106.33	DC	7.9

11.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
168204352	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P1-3_#1377_05J.FERR 765_1	operation	402.0	153.35	154.74	DC	12.41
168204353	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	153.35	154.74	DC	12.41
168479894	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	186.54	197.92	DC	65.04
168479889	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	186.6	197.97	DC	65.04
168784124	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	operation	559.299987793	179.49	180.61	DC	13.83
168784381	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P1-2: LN 563	operation	678.679992676	123.74	124.53	DC	11.8
168784134	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	operation	559.299987793	175.68	176.8	DC	13.83

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS T LOADING %	POST PROJECTIONS T LOADING %	ACDC	MW IMPACT
168784157	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 563	operation	441.799987793	163.54	164.61	DC	10.52
168784204	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P1-2: LN 563	operation	441.799987793	150.84	151.97	DC	10.99
168784153	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 563	operation	441.799987793	163.56	164.64	DC	10.52
169215295	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	278.68	289.18	DC	60.11
169215369	314686	6CLOVER	230.0	DVP	314690	6BLACKWALNU	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	814.979980469	166.44	182.89	DC	134.04
169215411	314686	6CLOVER	230.0	DVP	962490	AG1-098TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	571.520019531	149.97	161.35	DC	65.04
169215365	314690	6BLACKWALNU	230.0	DVP	962560	AG1-105TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	814.979980469	178.54	194.99	DC	134.04
169215274	314692	6FARMVILLE	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	559.299987793	282.45	293.19	DC	60.14
169215301	314697	6EDGEHILL	230.0	DVP	927250	AC1-221TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	674.91998291	247.36	262.48	DC	102.5
169215305	314697	6EDGEHILL	230.0	DVP	927250	AC1-221TAP	230.0	DVP	1	Base Case	operation	509.480010986	126.77	131.86	DC	25.92
169215496	314714	3PERTH	115.0	DVP	942750	AE2-291TAP	115.0	DVP	1	DVP_P1-2: LN 556-D	operation	285.760009766	114.15	116.71	DC	16.22
163758806	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	DVP_P1-2: LN 567	operation	3218.56005859	148.08	148.99	DC	60.16
163758815	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	Base Case	operation	3218.56005859	121.31	121.67	DC	52.51
168784114	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 563	operation	903.903991699	183.63	186.65	DC	27.28
163758772	314914	8MDLTHAN	500.0	DVP	314918	8NOANNA	500.0	DVP	1	DVP_P1-2: LN 574	operation	2442.12011719	186.16	186.34	DC	57.36
163758782	314914	8MDLTHAN	500.0	DVP	314918	8NOANNA	500.0	DVP	1	Base Case	operation	2442.12011719	138.24	138.49	DC	47.49
168784167	314914	8MDLTHAN	500.0	DVP	314322	6MDLTHAN	230.0	DVP	1	DVP_P1-2: LN 576	operation	1058.15795898	171.19	171.96	DC	22.84
163758871	314918	8NOANNA	500.0	DVP	962840	AG1-133TAP	500.0	DVP	1	DVP_P1-2: LN 573	operation	3218.56005859	140.46	140.62	DC	36.25
163758877	314918	8NOANNA	500.0	DVP	314934	8SPOTSYL	500.0	DVP	1	DVP_P1-2: LN 575-A	operation	3218.56005859	140.18	140.54	DC	38.1
163758902	314923	8SEPTA	500.0	DVP	314924	8SURREY	500.0	DVP	1	DVP_P1-2: LN 563	operation	2442.12011719	128.34	130.11	DC	42.93
163758818	314934	8SPOTSYL	500.0	DVP	314916	8MORRSVILLE	500.0	DVP	1	DVP_P1-2: LN 575-A	operation	3218.56005859	148.01	148.18	DC	37.01
163758949	314935	8HERITAGE	500.0	DVP	314940	8ROGERSRD	500.0	DVP	1	DVP_P1-2: LN 511-A	operation	3256.15991211	110.17	113.06	DC	99.77
163758857	314936	8RAWLINGSGS	500.0	DVP	942930	AE2-313TAP	500.0	DVP	1	DVP_P1-2: LN 585-A	operation	4070.19995117	134.83	137.54	DC	109.9
163758925	314940	8ROGERSRD	500.0	DVP	938490	AE1-068_POI	500.0	DVP	1	DVP_P1-2: LN 511-A	operation	4070.19995117	121.15	123.52	DC	98.06
163758683	927250	AC1-221TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-D	operation	718.0	249.86	264.07	DC	102.5
163758693	927250	AC1-221TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	Base Case	operation	542.0	137.63	142.42	DC	25.92
169706166	934620	AD1-088TAP	230.0	DVP	963270	AG1-176TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	571.520019531	167.4	178.78	DC	65.04
163758889	938490	AE1-068_POI	500.0	DVP	941030	AE2-094TAP	500.0	DVP	1	DVP_P1-2: LN 511-A	operation	4070.19995117	131.06	133.23	DC	98.06
163758796	940470	AE2-031TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P1-2: LN 585-A	operation	4070.19995117	141.61	144.31	DC	109.9
163758849	941030	AE2-094TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P1-2: LN 511-A	operation	4070.19995117	137.46	139.63	DC	98.06
163758830	942930	AE2-313TAP	500.0	DVP	940470	AE2-031TAP	500.0	DVP	1	DVP_P1-2: LN 585-A	operation	4070.19995117	138.89	141.6	DC	109.9
169706180	962490	AG1-098TAP	230.0	DVP	934620	AD1-088TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	571.520019531	158.67	170.05	DC	65.04
169215345	962560	AG1-105TAP	230.0	DVP	314697	6EDGEHILL	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	814.979980469	185.32	201.76	DC	134.04

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
163758865	962840	AG1-133 TAP	500.0	DVP	314911	8LADYSMITH	500.0	DVP	1	DVP_P1-2: LN 573	operation	3218.56005859	142.45	142.74	DC	36.25
169993982	963270	AG1-176 TAP	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	180.85	192.23	DC	65.04
168784089	964840	AG1-347 TAP	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	187.66	199.04	DC	65.04

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
168204355,168 204356	5	05EDAN 1 138.0 kV - 05DANVL2 138.0 kV Ckt 1	<u>AEP</u> n6124 (382) : PJM Network Upgrade n6124. Increasing the Danville East Danville 138 kV circuit summer rating to 572/572/572 MVA will still require us to rebuild the line. The network project has an projected in-service date of 06/01/2021. Project Type : FAC Cost : \$9,000,000 Time Estimate : Months	\$9,000,000
168479902,168 479901	7	6BREMIDIST 230.0 kV - 6FORK UNION 230.0 kV Ckt 1	<u>DVP</u> dom-202 (1733): Rebuild 1.63 miles of 230 kV Line 2028 from Fork Union to Brema Dist with 2-636 ACSR. Project Type : FAC Cost : \$2,445,000 Time Estimate : 30-36 Months dom-276 (1807) : Rebuild 1.63 miles of 230 kV Line 2028 from Fork Union to Brema Dist with 2-795 ACSR (26/7) 150 C Project Type : FAC Cost : \$2,445,000 Time Estimate : 30-36 Months	\$4,890,000
169993956,169 993954,169993 953	45	J1180 TAP 345.0 kV - 6MTEAGLE 230.0 kV Ckt 1	<u>DVP</u> dom-421 (1952) : 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
168784125	9	6CARSON 230.0 kV - 6CHRL249 230.0 kV Ckt 1	<u>DVP</u> n6112 (1686) : 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	\$18,675,000
163758773,163 758783,163758 776	27	8MDLTHAN 500.0 kV - 8NO ANNA 500.0 kV Ckt 1	<u>DVP</u> n5609 (1679) : Rebuild 41.13 miles of 500 kV Line 576 from Midlothian to North Anna with 3-1351.5 125C ACSR. Project Type : FAC Cost : \$127,503,000 Time Estimate : 48-60 Months n6055 (1684) : Replace Wave traps at Midlothian and North Anna 500kV substations Project Type : FAC Cost : \$300,000 Time Estimate : 16-18 Months	\$127,803,000

ID	Idx	Facility	Upgrade Description	Cost
168784135	11	6CHRL249 230.0 kV - 6LOCKS 230.0 kV Ckt 1	<u>DVP</u> n6116 (1689) : 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
163758834,163758833	39	AE2-313 TAP 500.0 kV - AE2-031 TAP 500.0 kV Ckt 1	<u>DVP</u> dom-183 (1665) : Build new 500 kV Line from Rawlings to Morrisville Substation 110 miles Project Type : CON Cost : \$400,000,000 Time Estimate : 60-72 Months n6207 (1723) : Rebuild 27.72 miles of 500 kV Line 557 from Chickahominy to Elmont with 3-1351.5 113C ACSR. Project Type : FAC Cost : \$85,932,000 Time Estimate : 48-60 Months n6172 (1713) : Rebuild 37.41 miles of 500 kV Line 563 from Carson to Midlothian with 3-1351.5 125C ACSR. Project Type : FAC Cost : \$115,971,000 Time Estimate : 48-60 Months dom-125 (1622) : Rebuild 16.45 miles of 500 kV Line 585 from AE2-094 Tap to Carson with 3-1351.5 125C ACSR. Project Type : FAC Cost : \$50,995,000 Time Estimate : 48-60 Months	\$652,898,000
163758799,163758800,163758591	37	AE2-031 TAP 500.0 kV - 8CARSON 500.0 kV Ckt 1		
163758892,163758893	35	AE1-068 TAP 500.0 kV - AE2-094 TAP 500.0 kV Ckt 1		
163758646,163758928,163758929	4	8ROGERS RD 500.0 kV - AE1-068 TAP 500.0 kV Ckt 1		
163758861,163758860	32	8RAWLINGS 500.0 kV - AE2-313 TAP 500.0 kV Ckt 1		
163758741	26	8CHCKAHM 500.0 kV - 8ELMONT 500.0 kV Ckt 1		
163758552,163758551,163758809,163758810	23	8CARSON 500.0 kV - 8MDLTHAN 500.0 kV Ckt 1		
163758852,163758853	38	AE2-094 TAP 500.0 kV - 8CARSON 500.0 kV Ckt 1		
168479896	6	6PRINCE EDW 230.0 kV - 6FARMVIL 230.0 kV Ckt 1	<u>DVP</u> dom-199 (1597) : Rebuild 7.2 miles of 230 kV Line 235 from Prince EDW to Farmville with 2-636 ACSR. Project Type : FAC Cost : \$10,800,000 Time Estimate : 30-36 Months Note: Currently the MVA loading is slightly greater than the new ratings provided for this reinforcement, but there are other topology changing upgrades planned in the area. The impact of these topology changing upgrades may reduce the MVA loading on this facility and will be evaluated in the impact study phase to determine if an additional upgrade is really required on this facility.	\$10,800,000

ID	Idx	Facility	Upgrade Description	Cost
169215367,169215368	19	6BLACK WALNU 230.0 kV - AG1-105 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-345 (1876) : Rebuild 3.441 miles of 230 kV Line 2068 from AG1-105 to Black Walnut with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$5,161,500 Time Estimate : 30-36 Months	\$5,161,500
169215498,169215499	2	3PERTH 115.0 kV - AE2-291 TAP 115.0 kV Ckt 1	<u>DVP</u> dom-356 (1887) : Reconductor 5.67miles of 115 kV Line 31 from Perth to AE2-291 Tap with 768.2 ACSS 250 Project Type : FAC Cost : \$3,402,000 Time Estimate : 30-36 Months	\$3,402,000
168784115,168784117	25	8CARSON 500.0 kV - 6CARSON 230.0 kV Ckt 1	<u>DVP</u> dom-030 (1509) : Add additional 500/230 kV transformer at Carson substation Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
168479891	8	6BRIERY 230.0 kV - 6PRINCE EDW 230.0 kV Ckt 1	<u>DVP</u> dom-212 (1743) : Rebuild 5.7 miles of 230 kV Line 235 from Briery to Prince EDW with 2-636 ACSR. Project Type : FAC Cost : \$8,550,000 Time Estimate : 30-36 Months	\$8,550,000
169215371,169215372	17	6CLOVER 230.0 kV - 6BLACK WALNU 230.0 kV Ckt 1	<u>DVP</u> dom-342 (1873) : Rebuild 0.16 miles of 230 kV Line 2068 from Clover to Black Walnut with 2-768.2 ACSS 250 C. Replace wave trap at Clover terminal. Project Type : FAC Cost : \$440,000 Time Estimate : 30-36 Months	\$440,000
169215300,169215297	16	6BUCKING 230.0 kV - 6BREMO 230.0 kV Ckt 1	<u>DVP</u> n6219 (1514) : Rebuild 15.51 miles of 230 kV Line 298 from Buckingham to Brema with 2-636 ACSR. Project Type : FAC Cost : \$23,265,000 Time Estimate : 30-36 Months dom-337 (1868) : Rebuild 15.51 miles of 230 kV Line 298 from Buckingham to Brema with 2-768.2 ACSS 250 C. Replace Breaker, Breaker Switch, Breaker Lead, Wave Trap, Relay (Secondary CT), Relay Trip at Brema terminal. Replace Line Switch at Buckingham terminal Project Type : FAC Cost : \$25,285,000 Time Estimate : 36-40 Months	\$48,550,000

ID	Idx	Facility	Upgrade Description	Cost
169215276,169 215279	20	6FARMVIL 230.0 kV - 6BUCKING 230.0 kV Ckt 1	<u>DVP</u> n6245 (1516) : 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 (1877) : 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
163758596	29	8NO ANNA 500.0 kV - 8SPOTSYL 500.0 kV Ckt 1	<u>DVP</u> n6132 (1694) : Rebuild 14.02 miles of 500 kV Line 573 from North Anna to Spotsylvania with 3-1351.5 113C ACSR. Project Type : FAC Cost : \$43,462,000 Time Estimate : 48-60 Months	\$43,462,000
168784158	12	6HARROWG 230.0 kV - 6TYLER1 230.0 kV Ckt 1	<u>DVP</u> n6178 (1717) : 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
168784154	15	6POE 230.0 kV - 6HARROWG 230.0 kV Ckt 1	<u>DVP</u> n6179 (1718) : 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
169431747,169 431748,169431 750	22	6MTEAGLE 230.0 kV - 6CHARLVL 230.0 kV Ckt 1	<u>DVP</u> n6184 (1720) : 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 (1900) : 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

ID	Idx	Facility	Upgrade Description	Cost
168784168	28	8MDLTHAN 500.0 kV - 6MDLTHAN 230.0 kV Ckt 1	<u>DVP</u> dom-378 (1909) : Add additional 500/230 kV transformer at Midlothian Substation Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
168784205	14	6LOCKS 230.0 kV - 6HARR205 230.0 kV Ckt 1	<u>DVP</u> dom-165 (1648) : Uprate 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
168784382	10	6CARSON 230.0 kV - 6POE 230.0 kV Ckt 1	<u>DVP</u> dom-120 (1617) : 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
163758904,163 758644	30	8SEPTA 500.0 kV - 8SURRY 500.0 kV Ckt 1	<u>DVP</u> dom-380 (1911) : Rebuild 11.46 miles of 500 kV Line 578 from Septa to Surry with 3-1351.5 113C ACSR. Replace wave traps at both terminals. Project Type : FAC Cost : \$36,126,000 Time Estimate : 48-60 Months	\$36,126,000
163758840	31	8SURRY 500.0 kV - 8CHCKAHM 500.0 kV Ckt 1	<u>DVP</u> n6324 (1522) : Replace Terminal Equipment at Surry and Chickahominy Substations Project Type : FAC Cost : \$4,000,000 Time Estimate : 16-18 Months	\$4,000,000

ID	Idx	Facility	Upgrade Description	Cost
163758689,163758688	33	AC1-221 TAP 230.0 kV - 6PERSON230 T 230.0 kV Ckt 1	<u>DVP</u> n6449 (1483) : 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 (1790) : 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 (1918) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-768.2 ACSS 250 C. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months	\$9,000,000
169215303,169215304	21	6SEDGE HILL 230.0 kV - AC1- 221 TAP 230.0 kV Ckt 1	<u>CPL</u> The external (i.e. Non-PJM) Transmission Owner, CPLE, will not evaluate this violation until the impact study phase.	\$0
163758628	24	8CARSON 500.0 kV - AE1-173 TAP 500.0 kV Ckt 1	<u>DVP</u> No Violation. Incorrect Ratings in PSSe Case. Actual Ratings are 3464.0/3464.0/4156.0 MVA	\$0
163758576	36	AE1-173 TAP 500.0 kV - 8SUFFOLK 500.0 kV Ckt 1		
168784091	44	AG1-347 TAP 230.0 kV - 6BRIERY 230.0 kV Ckt 1	<u>DVP</u> dom-297 (1828) : Rebuild 16.821 mi miles of 230 kV Line 235 from Briery DP to AG1-347 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$42,052,500 Time Estimate : 36-40 Months	\$42,052,500
168784278	13	6HARR205 230.0 kV - 6TYLER 230.0 kV Ckt 1	<u>DVP</u> dom-163 (1645) : Reconnector 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

ID	Idx	Facility	Upgrade Description	Cost
169706183,169706182	41	AG1-098 TAP 230.0 kV - AD1-088 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-391 (1922) : 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
169215413,169215414	18	6CLOVER 230.0 kV - AG1-098 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-343 (1874) : 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
169706169,169706168	34	AD1-088 TAP 230.0 kV - AG1-176 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-392 (1923) : Rebuild 2.729 miles of 230 kV line 235 from AD1-088 Tap to AG1-176 Tap with 2-636 ACSR 150 C. Project Type : FAC Cost : \$6,822,500 Time Estimate : 30-36 Months	\$6,822,500
168479882,168479880,168479879	1	6FORK UNION 230.0 kV - AF2-397 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-198 (1729) : 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 (1796) : 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
169431758,169431757,169431760	3	6BREMO 230.0 kV - 6BREMODIST 230.0 kV Ckt 1	<u>DVP</u> n5873 (1682) : Rebuild 0.16 miles of Line 2028 from Brema to Brema Dist with 2-636 ACSR. Project Type : FAC Cost : \$500,000 Time Estimate : 30-36 Months dom-363 (1894) : Rebuild 0.16 miles of Line 2028 from Brema to Brema Dist with 2-795 ACSR 150 C. Replace Breaker, Breaker Switch, Breaker Lead, Line Lead at Brema terminal Project Type : FAC Cost : \$1,690,000 Time Estimate : 30-36 Months	\$2,190,000

ID	Idx	Facility	Upgrade Description	Cost
169993984	43	AG1-176 TAP 230.0 kV - AG1-347 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-415 (1946) : Rebuild 0.17 mi miles of 230 kV Line 235 from AG1-347 Tap to AG1-176 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$255,000 Time Estimate : 30-36 Months	\$255,000
169993944,169993946,169993943	40	AF2-397 TAP 230.0 kV - J1180 TAP 345.0 kV Ckt 1	<u>DVP</u> dom-409 (1940) : 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
169215347,169215348	42	AG1-105 TAP 230.0 kV - 6SEEDGE HILL 230.0 kV Ckt 1	<u>DVP</u> dom-412 (1943) : Rebuild 13.3 miles of 230 kV Line 2068 from AG1-105 to Sedge Hill with 2-768.2 ACSS 250 C. Replace Wave Trap at Sedge Hill terminal. Project Type : FAC Cost : \$20,150,000 Time Estimate : 36-40 Months	\$20,150,000
			TOTAL COST	\$1,167,332,500

11.6 Flow Gate Details - Primary POI

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

11.6.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168479879	313707	6FORK UNION	DVP	961060	AF2-397 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	150.07	151.26	DC	7.83

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

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

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

11.6.2 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
169215499	314714	3PERTH	DVP	942750	AE2-291 TAP	DVP	1	DVP_P1-2: LN 556-C	single	285.76	97.17	100.58	DC	9.73

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

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

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

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
169431757	314747	6BREMO	DVP	313867	6BREMODIST	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	152.08	153.39	DC	8.66

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

11.6.4 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
163758928	314940	8ROGERS RD	DVP	938490	AE1-068_POI	DVP	1	DVP_P1-2: LN 511-A	single	4070.2	108.17	109.3	DC	58.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4501	80/20	0.4501
314429	3JTRSVLE	0.3871	80/20	0.3871
315102	1BRUNSWICKG1	25.0620	80/20	25.0620
315103	1BRUNSWICKG2	25.0620	80/20	25.0620
315104	1BRUNSWICKG3	25.0620	80/20	25.0620
315105	1BRUNSWICKS1	52.0660	80/20	52.0660
315153	1CLOVER1	28.1358	80/20	28.1358
315154	1CLOVER2	27.8554	80/20	27.8554
315158	1KERR 1	0.3224	80/20	0.3224
315159	1KERR 2	0.9028	80/20	0.9028
315160	1KERR 3	0.9028	80/20	0.9028
315161	1KERR 4	0.9028	80/20	0.9028
315162	1KERR 5	0.9028	80/20	0.9028
315163	1KERR 6	0.9028	80/20	0.9028
315164	1KERR 7	0.9028	80/20	0.9028
315241	1Z1-086 GT1	33.3239	80/20	33.3239
315242	1Z1-086 GT2	33.3239	80/20	33.3239
315243	1Z1-086 GT3	33.3239	80/20	33.3239
315244	1Z1-086 ST	57.9294	80/20	57.9294
315266	1PLYWOOD A	1.7322	80/20	1.7322
316118	AC1-105 C	8.2617	80/20	8.2617
316123	AC1-075 C	1.1943	80/20	1.1943
316131	AB2-060 C	1.2970	80/20	1.2970
924301	AB2-077 C O1 (Suspended)	1.8391	80/20	1.8391
924311	AB2-078 C O1 (Suspended)	1.8391	80/20	1.8391
924321	AB2-079 C O1 (Suspended)	1.8391	80/20	1.8391
925611	AC1-036 C	0.2065	80/20	0.2065
926023	AC1-080 C	0.3991	80/20	0.3991
926051	AC1-083 C O1	4.7823	80/20	4.7823
926754	AC1-161 C	-27.1829	Adder	-31.98
927251	AC1-221 C	3.7078	80/20	3.7078
927261	AC1-222 C	5.6854	80/20	5.6854
932581	AC2-078 C O1	-3.0043	Adder	-3.53
932761	AC2-100 C	8.5331	80/20	8.5331
933941	AD1-017 C	0.9565	80/20	0.9565
934061	AD1-033 C	-6.1290	Adder	-7.21
934311	AD1-055 C	3.9475	80/20	3.9475
934341	AD1-058 C	9.2949	80/20	9.2949
934615	AD1-087 C	17.6137	80/20	17.6137

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934625	AD1-088 C	22.3004	80/20	22.3004
934991	AD1-131 C	3.0475	80/20	3.0475
935171	AD1-152 C O1	19.3469	80/20	19.3469
935221	AD1-157 C	0.2182	80/20	0.2182
936161	AD2-022 C O1	12.4158	80/20	12.4158
936171	AD2-023 C O1	7.2425	80/20	7.2425
936265	AD2-033 C	11.8583	80/20	11.8583
936361	AD2-046 C O1	7.5997	80/20	7.5997
936485	AD2-063 C	13.6305	80/20	13.6305
937481	AD2-202 C O1	5.1592	80/20	5.1592
938371	AE1-056 C	5.9632	80/20	5.9632
939181	AE1-148 C	7.5157	80/20	7.5157
939431	AE1-175 C	-1.7800	Adder	-2.09
940081	AE1-250 C	12.8997	80/20	12.8997
940471	AE2-031 C	97.1860	80/20	97.1860
940601	AE2-047 C O1	4.0999	80/20	4.0999
940661	AE2-053 O1	2.7836	80/20	2.7836
940891	AE2-078 C	-1.8176	Adder	-2.14
940901	AE2-079 C	-1.8176	Adder	-2.14
941791	AE2-182 C	3.6230	80/20	3.6230
942131	AE2-225 C	-1.6251	Adder	-1.91
942171	AE2-229 C	-1.2188	Adder	-1.43
942451	AE2-258	2.1285	80/20	2.1285
942461	AE2-259 C O1	9.2838	80/20	9.2838
942751	AE2-291 C	10.7516	80/20	10.7516
942761	AE2-292 C O1	13.3868	80/20	13.3868
942931	AE2-313 C	105.2289	80/20	105.2289
943611	AF1-032 C	-1.3271	Adder	-1.56
943621	AF1-033 C	-1.8176	Adder	-2.14
943811	AF1-049 C	10.3650	80/20	10.3650
943901	AF1-058 C	3.1495	80/20	3.1495
945811	AF1-246 C O1	19.0634	80/20	19.0634
946301	AF1-294 C	3.9099	80/20	3.9099
957481	AF2-042 C	136.1670	80/20	136.1670
957491	AF2-043 C	-1.6251	Adder	-1.91
958211	AF2-115 C	2.3000	80/20	2.3000
958801	AF2-171 C	13.7952	80/20	13.7952
959311	AF2-222 C	15.2380	80/20	15.2380
959751	AF2-266	20.1965	80/20	20.1965
960061	AF2-297 C	12.5981	80/20	12.5981
961791	AG1-021 C	1.8400	80/20	1.8400
961891	AG1-030 C	13.7664	80/20	13.7664
962041	AG1-048 C	11.4997	80/20	11.4997
962441	AG1-093 C O1	22.0312	80/20	22.0312
962491	AG1-098 C O1	26.6370	80/20	26.6370
962561	AG1-105 C O1	23.0550	80/20	23.0550
963041	AG1-153 C	17.5851	80/20	17.5851
963111	AG1-160 C	18.4203	80/20	18.4203
963171	AG1-166 C	1.8400	80/20	1.8400
963181	AG1-167 C	1.8400	80/20	1.8400
963191	AG1-168 C	1.8400	80/20	1.8400
963201	AG1-169 C	1.8400	80/20	1.8400

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	1.8400	80/20	1.8400
963271	AG1-176 C O1	26.8427	80/20	26.8427
963321	AG1-181 C O1	15.3697	80/20	15.3697
963361	AG1-185 O1	7.4363	80/20	7.4363
963641	AG1-215 C	0.8586	80/20	0.8586
964111	AG1-272 C	2.3474	80/20	2.3474
964121	AG1-273 C	2.3474	80/20	2.3474
964131	AG1-274 C	2.3474	80/20	2.3474
964241	AG1-285 C O1	11.3482	80/20	11.3482
964261	AG1-287 C	2.3621	80/20	2.3621
964471	AG1-310 C	3.2494	80/20	3.2494
964791	AG1-342 C	5.4487	80/20	5.4487
964821	AG1-345 C	0.7359	80/20	0.7359
964841	AG1-347 C	16.7126	80/20	16.7126
964931	AG1-357 C	58.8336	80/20	58.8336
965191	AG1-384 C	2.3474	80/20	2.3474
965281	AG1-393 C	1.8400	80/20	1.8400
965591	AG1-427 C	10.7596	80/20	10.7596
965641	AG1-432 C O1	18.5676	80/20	18.5676
965811	AG1-449	68.1419	80/20	68.1419
965831	AG1-451	3.0946	80/20	3.0946
966361	AG1-505 C	47.7945	80/20	47.7945
966371	AG1-506 C	47.7945	80/20	47.7945
966691	AG1-539 C	5.6218	80/20	5.6218
966701	AG1-540 C	2.9506	80/20	2.9506
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	1.8568	80/20	1.8568
WEC	WEC	1.5019	Confirmed LTF	1.5019
LGEE	LGEE	3.0894	Confirmed LTF	3.0894
CPL	CPL	14.5093	Confirmed LTF	14.5093
CBM-W2	CBM-W2	65.5334	Confirmed LTF	65.5334
NY	NY	2.0555	Confirmed LTF	2.0555
TVA	TVA	12.3466	Confirmed LTF	12.3466
SIGE	SIGE	1.0043	Confirmed LTF	1.0043
CBM-S2	CBM-S2	180.4972	Confirmed LTF	180.4972
CBM-S1	CBM-S1	3.0818	Confirmed LTF	3.0818
MEC	MEC	8.9747	Confirmed LTF	8.9747
LAGN	LAGN	15.3422	Confirmed LTF	15.3422
AA2-074	AA2-074	9.5854	LTF	9.5854
CBM-W1	CBM-W1	62.8797	Confirmed LTF	62.8797

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
168204356	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	127.57	128.4	DC	7.45

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960081	AF2-299 C	0.8133	Adder	0.96
961671	AG1-007 C	0.6235	80/20	0.6235
961681	AG1-008 C	2.8418	Adder	6.31
961791	AG1-021 C	0.3307	Adder	0.73
961891	AG1-030 C	2.5649	Adder	5.69
961931	AG1-036 C	0.2331	Adder	0.52
961941	AG1-037 C	0.0873	Adder	0.19
962041	AG1-048 C	2.0671	Adder	4.59
962331	AG1-082 C	0.3491	Adder	0.77
962341	AG1-083 C	0.3491	Adder	0.77
962351	AG1-084 C	0.3084	Adder	0.68
962361	AG1-085 C	0.3084	Adder	0.68
962441	AG1-093 C 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

11.6.6 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
168479896	313802	6PRINCE EDW	DVP	314692	6FARMVIL	DVP	1	DVP_P1-2: LN 556-C	single	571.52	143.71	150.54	DC	39.02

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964841	AG1-347 C	27.5044	80/20	27.5044
964931	AG1-357 C	39.0228	80/20	39.0228
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

11.6.7 Index 7

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168479901	313867	6BREMODIST	DVP	313707	6FORK UNION	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	149.92	151.23	DC	8.66

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

11.6.8 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
168479891	314268	6BRIERY	DVP	313802	6PRINCE EDW	DVP	1	DVP_P1-2: LN 556-C	single	571.52	143.76	150.59	DC	39.02

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964841	AG1-347 C	27.5044	80/20	27.5044
964931	AG1-357 C	39.0228	80/20	39.0228
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

11.6.9 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
168784125	314282	6CARSON	DVP	314285	6CHRL249	DVP	1	DVP_P1-2: LN 563	single	559.3	162.01	163.46	DC	8.3

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
CPL	CPL	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

11.6.10 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
168784382	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P1-2: LN 563	single	678.68	110.6	111.61	DC	7.08

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.8521	80/20	3.8521
313527	AB2-043 C	0.1631	80/20	0.1631
313719	3CHESTNUT	0.4332	80/20	0.4332
314435	6SAPONY	0.3957	80/20	0.3957
314572	3EMPORIA	0.2678	80/20	0.2678
314582	3KELFORD	0.1180	80/20	0.1180
314623	3WITAKRS	0.0799	80/20	0.0799
314704	3LAWRENC	0.1650	80/20	0.1650
315102	1BRUNSWICKG1	2.7479	80/20	2.7479
315103	1BRUNSWICKG2	2.7479	80/20	2.7479
315104	1BRUNSWICKG3	2.7479	80/20	2.7479
315105	1BRUNSWICKS1	5.7087	80/20	5.7087
315126	1ROARAP2	0.5899	80/20	0.5899
315128	1ROARAP4	0.5630	80/20	0.5630
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.4609	80/20	3.4609
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.4609	80/20	3.4609
315136	1ROSEMG1	1.0521	80/20	1.0521
315137	1ROSEMS1	0.6524	80/20	0.6524
315138	1ROSEMG2	0.4931	80/20	0.4931
315139	1GASTONA	1.5767	80/20	1.5767
315141	1GASTONB	1.5767	80/20	1.5767
315158	1KERR 1	0.1345	80/20	0.1345
315159	1KERR 2	0.3767	80/20	0.3767
315160	1KERR 3	0.3767	80/20	0.3767
315161	1KERR 4	0.3767	80/20	0.3767
315162	1KERR 5	0.3767	80/20	0.3767
315163	1KERR 6	0.3767	80/20	0.3767
315164	1KERR 7	0.3767	80/20	0.3767
315241	1Z1-086 GT1	3.5348	80/20	3.5348
315242	1Z1-086 GT2	3.5348	80/20	3.5348
315243	1Z1-086 GT3	3.5348	80/20	3.5348
315244	1Z1-086 ST	6.1448	80/20	6.1448
315601	1CONETOE2SOL	0.4581	80/20	0.4581
315606	3AA2-053SOLA	0.6077	80/20	0.6077
315607	3AA1-063SOLA	0.4905	80/20	0.4905
316020	AB2-059 C OP	0.6170	80/20	0.6170
316087	AB2-174 C	0.6604	80/20	0.6604
316096	AB2-100 C1	0.7058	80/20	0.7058
316098	AB2-100 C2	0.7058	80/20	0.7058
316129	AC1-054 C	2.8747	80/20	2.8747

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	0.4641	80/20	0.4641
920591	AA2-165 C	0.0581	80/20	0.0581
922922	AB1-081 C OP	0.5235	80/20	0.5235
923991	AB2-040 C O1	4.1954	80/20	4.1954
924301	AB2-077 C O1 (Suspended)	0.6545	80/20	0.6545
924311	AB2-078 C O1 (Suspended)	0.6545	80/20	0.6545
924321	AB2-079 C O1 (Suspended)	0.6545	80/20	0.6545
925591	AC1-034 C	2.5329	80/20	2.5329
926070	AC1-086 C	11.2381	80/20	11.2381
926201	AC1-098 C	2.2819	80/20	2.2819
926211	AC1-099 C	0.7647	80/20	0.7647
927024	AC1-189 C	2.8393	80/20	2.8393
927145	AC1-208 C	3.5600	80/20	3.5600
932581	AC2-078 C O1	-4.5082	Adder	-5.3
932631	AC2-084 C	3.2530	80/20	3.2530
934331	AD1-057 C O1	4.5019	80/20	4.5019
934615	AD1-087 C	1.9156	Adder	2.25
935171	AD1-152 C O1	2.1041	Adder	2.48
936361	AD2-046 C O1	3.0957	80/20	3.0957
936401	AD2-051 C O1	2.2274	Adder	2.62
936485	AD2-063 C	3.9352	Adder	4.63
936761	AD2-097 C	-0.5388	Adder	-0.63
937481	AD2-202 C O1	0.5611	Adder	0.66
938494	AE1-068_C1	10.5874	80/20	10.5874
938497	AE1-068_C2	10.5874	80/20	10.5874
938504	AE1-069_C1	8.0688	80/20	8.0688
938507	AE1-069_C2	8.7000	80/20	8.7000
939181	AE1-148 C	3.0461	80/20	3.0461
939414	AE1-173_C1	7.3513	Adder	8.65
939415	AE1-173_C2	6.3012	Adder	7.41
939416	AE1-173_C3	7.3513	Adder	8.65
940471	AE2-031 C	11.5205	80/20	11.5205
940481	AE2-033 C	15.6115	80/20	15.6115
940541	AE2-040	2.8532	80/20	2.8532
940571	AE2-044 C	1.6590	80/20	1.6590
940641	AE2-051 C O1	5.5890	80/20	5.5890
940661	AE2-053 O1	1.1282	80/20	1.1282
941031	AE2-094 C	13.8700	80/20	13.8700
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0531	80/20	0.0531
942161	AE2-228 C	-0.8781	Adder	-1.03
942451	AE2-258	0.7711	80/20	0.7711
942471	AE2-260 C O1	11.4862	80/20	11.4862
942931	AE2-313 C	12.4532	80/20	12.4532
943911	AF1-059	7.9618	80/20	7.9618
944011	AF1-069 C	4.5318	80/20	4.5318
944141	AF1-082	1.0665	80/20	1.0665
945811	AF1-246 C O1	2.3470	80/20	2.3470
946011	AF1-266	13.0680	80/20	13.0680
946261	AF1-291 C	-1.4994	Adder	-1.76

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946281	AF1-292 C	0.9954	80/20	0.9954
957481	AF2-042 C	16.7640	80/20	16.7640
957861	AF2-080 C	2.5787	80/20	2.5787
959651	AF2-256 C	-0.2195	Adder	-0.26
959751	AF2-266	2.1938	Adder	2.58
960081	AF2-299 C	1.6776	80/20	1.6776
961671	AG1-007 C	0.4315	80/20	0.4315
962351	AG1-084 C	0.5432	80/20	0.5432
962361	AG1-085 C	0.5432	80/20	0.5432
962561	AG1-105 C O1	1.3666	Adder	3.03
962571	AG1-106 C	3.1252	80/20	3.1252
963041	AG1-153 C	1.9281	80/20	1.9281
963111	AG1-160 C	1.9539	80/20	1.9539
963291	AG1-178 C O1	19.2559	80/20	19.2559
963301	AG1-179 C	3.0368	80/20	3.0368
963311	AG1-180	1.4796	80/20	1.4796
963351	AG1-184 O1	10.3741	80/20	10.3741
964241	AG1-285 C O1	3.9285	80/20	3.9285
964501	AG1-313 C O1	1.8133	80/20	1.8133
964931	AG1-357 C	7.0776	80/20	7.0776
965451	AG1-413 C O1	3.3468	80/20	3.3468
965591	AG1-427 C	3.7128	80/20	3.7128
965601	AG1-428 C O1	2.5352	80/20	2.5352
965711	AG1-439 C O1	8.2170	80/20	8.2170
965721	AG1-440 C	2.6856	80/20	2.6856
965731	AG1-441 C	2.6856	80/20	2.6856
965761	AG1-444 O1	4.3824	80/20	4.3824
965771	AG1-445	1.5517	80/20	1.5517
965781	AG1-446	1.5517	80/20	1.5517
965811	AG1-449	8.0776	80/20	8.0776
966361	AG1-505 C	5.6214	80/20	5.6214
966371	AG1-506 C	5.6214	80/20	5.6214
966621	AG1-532 C	0.9059	80/20	0.9059
966751	AG1-546 C	6.4058	80/20	6.4058
966811	AG1-552 C	0.9367	80/20	0.9367
WEC	WEC	0.2545	Confirmed LTF	0.2545
LGEE	LGEE	0.5234	Confirmed LTF	0.5234
CPL	CPL	2.6774	Confirmed LTF	2.6774
CBM-W2	CBM-W2	11.2000	Confirmed LTF	11.2000
NY	NY	0.3606	Confirmed LTF	0.3606
TVA	TVA	2.1140	Confirmed LTF	2.1140
SIGE	SIGE	0.1728	Confirmed LTF	0.1728
CBM-S2	CBM-S2	31.8002	Confirmed LTF	31.8002
CBM-S1	CBM-S1	0.5271	Confirmed LTF	0.5271
MEC	MEC	1.5270	Confirmed LTF	1.5270
LAGN	LAGN	2.6285	Confirmed LTF	2.6285
AA2-074	AA2-074	1.7685	LTF	1.7685
CBM-W1	CBM-W1	10.6412	Confirmed LTF	10.6412

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
168784135	314285	6CHRL249	DVP	314316	6LOCKS	DVP	1	DVP_P1-2: LN 563	single	559.3	158.2	159.65	DC	8.3

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
CPL	CPL	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

11.6.12 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
168784158	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P1-2: LN 563	single	441.8	139.26	140.65	DC	6.31

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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

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

11.6.13 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
168784278	314301	6HARR205	DVP	314346	6TYLER	DVP	1	DVP_P1-2: LN 563	single	441.8	137.7	138.74	DC	6.59

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	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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
946261	AF1-291 C	-1.2662	Adder	-1.49

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
SIGE	SIGE	0.1646	Confirmed LTF	0.1646

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

11.6.14 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
168784205	314316	6LOCKS	DVP	314301	6HARR205	DVP	1	DVP_P1-2: LN 563	single	441.8	142.87	143.91	DC	6.59

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	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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

11.6.15 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
168784154	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P1-2: LN 563	single	441.8	139.29	140.67	DC	6.31

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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

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

11.6.16 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
169215297	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P1-2: LN 556-C	single	571.52	206.9	213.21	DC	36.07

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

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W1	CBM-W1	12.2254	Confirmed LTF	12.2254

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
169215372	314686	6CLOVER	DVP	314690	6BLACK WALNU	DVP	1	DVP_P1-2: LN 556-C	single	814.98	132.17	142.04	DC	80.42

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

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

11.6.18 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
169215414	314686	6CLOVER	DVP	962490	AG1-098 TAP	DVP	1	DVP_P1-2: LN 556-C	single	571.52	120.41	127.24	DC	39.02

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962561	AG1-105 C O1	17.8794	80/20	17.8794
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964931	AG1-357 C	39.0228	80/20	39.0228
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841

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

11.6.19 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
169215368	314690	6BLACK WALNU	DVP	962560	AG1-105 TAP	DVP	1	DVP_P1-2: LN 556-C	single	814.98	140.78	150.65	DC	80.42

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

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

11.6.20 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
169215276	314692	6FARMVIL	DVP	314677	6BUCKING	DVP	1	DVP_P1-2: LN 556-C	single	559.3	208.15	214.6	DC	36.08

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963301	AG1-179 C	4.3384	80/20	4.3384
963311	AG1-180	2.1138	80/20	2.1138
963321	AG1-181 C O1	31.0801	80/20	31.0801
963361	AG1-185 O1	15.0374	80/20	15.0374
963601	AG1-209 C	0.1453	80/20	0.1453
963641	AG1-215 C	2.2362	80/20	2.2362
964111	AG1-272 C	4.9469	80/20	4.9469
964121	AG1-273 C	4.9469	80/20	4.9469
964131	AG1-274 C	4.9469	80/20	4.9469
964141	AG1-275 C	0.6229	80/20	0.6229
964151	AG1-276 C	0.6229	80/20	0.6229
964241	AG1-285 C O1	19.0605	80/20	19.0605
964261	AG1-287 C	1.7378	80/20	1.7378
964471	AG1-310 C	2.3305	80/20	2.3305
964501	AG1-313 C O1	1.4752	80/20	1.4752
964791	AG1-342 C	5.2424	80/20	5.2424
964821	AG1-345 C	1.9122	80/20	1.9122
964841	AG1-347 C	23.6925	80/20	23.6925
964931	AG1-357 C	36.0840	80/20	36.0840
965191	AG1-384 C	4.9469	80/20	4.9469
965281	AG1-393 C	4.7918	80/20	4.7918
965451	AG1-413 C O1	6.5452	80/20	6.5452
965591	AG1-427 C	18.1909	80/20	18.1909
965601	AG1-428 C O1	3.6218	80/20	3.6218
965641	AG1-432 C O1	60.3744	80/20	60.3744
965721	AG1-440 C	6.4543	80/20	6.4543
965731	AG1-441 C	6.4543	80/20	6.4543
965771	AG1-445	3.7292	80/20	3.7292
965781	AG1-446	3.7292	80/20	3.7292
965831	AG1-451	10.0624	80/20	10.0624
966621	AG1-532 C	0.5504	80/20	0.5504
966691	AG1-539 C	3.5120	80/20	3.5120
966751	AG1-546 C	10.8553	80/20	10.8553
966761	AG1-547 C	1.6892	80/20	1.6892
966811	AG1-552 C	0.8056	80/20	0.8056
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.0374	80/20	6.0374
WEC	WEC	0.2983	Confirmed LTF	0.2983
LGEE	LGEE	0.6138	Confirmed LTF	0.6138
CPL	CPL	3.6343	Confirmed LTF	3.6343
CBM-W2	CBM-W2	13.5744	Confirmed LTF	13.5744
NY	NY	0.3943	Confirmed LTF	0.3943
TVA	TVA	2.5928	Confirmed LTF	2.5928
SIGE	SIGE	0.1956	Confirmed LTF	0.1956
CBM-S2	CBM-S2	41.6974	Confirmed LTF	41.6974
CBM-S1	CBM-S1	0.6433	Confirmed LTF	0.6433
MEC	MEC	1.8162	Confirmed LTF	1.8162
LAGN	LAGN	3.2200	Confirmed LTF	3.2200
AA2-074	AA2-074	2.3999	LTF	2.3999
CBM-W1	CBM-W1	12.4217	Confirmed LTF	12.4217

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
169215304	314697	6SEEDGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-C	single	674.92	184.31	193.42	DC	61.5

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963201	AG1-169 C	2.8618	80/20	2.8618
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O1	36.0621	80/20	36.0621
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O1	23.4953	80/20	23.4953
963361	AG1-185 O1	11.3677	80/20	11.3677
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O1	3.9711	80/20	3.9711
964241	AG1-285 C O1	17.1705	80/20	17.1705
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4655	80/20	22.4655
964931	AG1-357 C	61.4988	80/20	61.4988
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O1	6.0628	80/20	6.0628
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O1	3.1896	80/20	3.1896
965641	AG1-432 C O1	29.4264	80/20	29.4264
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9044	80/20	4.9044
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O1	2.6947	80/20	2.6947
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.9426	80/20	2.9426
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078

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

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
169431747	314765	6MTEAGLE	DVP	314749	6CHARLVL	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	153.95	155.13	DC	7.83

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

11.6.23 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
163758551	314902	8CARSON	DVP	314914	8MDLTHAN	DVP	1	DVP_P4-2: 557T574	breaker	3938.0	145.49	146.09	DC	64.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314295	6BIRDNECK	0.0713	50/50	0.0713
314466	6FENTRES	3.7577	50/50	3.7577
314491	3PENDLTN	0.5318	50/50	0.5318
314550	6HICKORY	6.9329	50/50	6.9329
315102	1BRUNSWICKG1	15.1790	50/50	15.1790
315103	1BRUNSWICKG2	15.1790	50/50	15.1790
315104	1BRUNSWICKG3	15.1790	50/50	15.1790
315105	1BRUNSWICKS1	31.5343	50/50	31.5343
315108	1ELIZAR1	5.1909	50/50	5.1909
315109	1ELIZAR2	5.1008	50/50	5.1008
315110	1ELIZAR3	5.2574	50/50	5.2574
315233	1SURRY 2	40.9975	50/50	40.9975
315241	1Z1-086 GT1	19.5723	50/50	19.5723
315242	1Z1-086 GT2	19.5723	50/50	19.5723
315243	1Z1-086 GT3	19.5723	50/50	19.5723
315244	1Z1-086 ST	34.0240	50/50	34.0240
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	87.4408	50/50	87.4408
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	87.4408	50/50	87.4408
316114	AB2-068 ST (Withdrawn : 01/11/2021)	151.4819	50/50	151.4819
316134	AC1-107 G1	164.1977	50/50	164.1977
316135	AC1-107 G2	164.1977	50/50	164.1977
316136	AC1-107 G3	164.2285	50/50	164.2285
916192	Z1-068 E	3.1628	50/50	3.1628
925522	AC1-027 E	1.9262	50/50	1.9262
926754	AC1-161 C	54.4278	50/50	54.4278
926755	AC1-161 E	23.2338	50/50	23.2338
933294	AC2-141 C	54.4278	50/50	54.4278
933295	AC2-141 E	23.2338	50/50	23.2338
933731	AC2-196 C	0.4782	50/50	0.4782
933732	AC2-196 E	2.0186	50/50	2.0186
934061	AD1-033 C	12.7189	50/50	12.7189
934062	AD1-033 E	8.4792	50/50	8.4792
937221	AD2-160 C O1	9.8738	50/50	9.8738
937222	AD2-160 E O1	5.1777	50/50	5.1777
938494	AE1-068_C1	58.7247	50/50	58.7247
938497	AE1-068_C2	58.7247	50/50	58.7247
938498	AE1-068_E1	32.4627	50/50	32.4627
938499	AE1-068_E2	32.4627	50/50	32.4627
938504	AE1-069_C1	44.7548	50/50	44.7548

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938507	AE1-069_C2	48.2564	50/50	48.2564
938508	AE1-069_E1	25.4596	50/50	25.4596
938509	AE1-069_E2	27.4292	50/50	27.4292
939414	AE1-173_C1	60.3254	50/50	60.3254
939415	AE1-173_C2	51.7075	50/50	51.7075
939416	AE1-173_C3	60.3254	50/50	60.3254
939423	AE1-173_E1	40.2170	50/50	40.2170
939424	AE1-173_E2	34.4717	50/50	34.4717
939425	AE1-173_E3	40.2170	50/50	40.2170
940471	AE2-031 C	64.0285	50/50	64.0285
940472	AE2-031 E	42.6857	50/50	42.6857
940641	AE2-051 C O1	33.9597	50/50	33.9597
940642	AE2-051 E O1	22.6398	50/50	22.6398
941031	AE2-094 C	77.1779	50/50	77.1779
941032	AE2-094 E	34.5661	50/50	34.5661
941281	AE2-122 C O1	47.8845	50/50	47.8845
941282	AE2-122 E O1	193.2256	50/50	193.2256
941291	AE2-123 C O1	49.2105	50/50	49.2105
941292	AE2-123 E O1	191.8997	50/50	191.8997
941301	AE2-124 C O1	44.7787	50/50	44.7787
941302	AE2-124 E O1	196.4834	50/50	196.4834
942401	AE2-253 C	10.3855	50/50	10.3855
942402	AE2-253 E	4.6660	50/50	4.6660
942931	AE2-313 C	69.2012	50/50	69.2012
942932	AE2-313 E	46.1341	50/50	46.1341
944011	AF1-069 C	25.2169	50/50	25.2169
944012	AF1-069 E	9.7962	50/50	9.7962
944581	AF1-123 C O1	82.7966	50/50	82.7966
944582	AF1-123 E O1	189.5810	50/50	189.5810
944591	AF1-124 C O1	82.7966	50/50	82.7966
944592	AF1-124 E O1	189.5810	50/50	189.5810
944601	AF1-125 C O1	82.7966	50/50	82.7966
944602	AF1-125 E O1	189.5810	50/50	189.5810
945811	AF1-246 C O1	12.7441	50/50	12.7441
945812	AF1-246 E O1	17.5989	50/50	17.5989
957481	AF2-042 C	91.0290	50/50	91.0290
957482	AF2-042 E	60.6860	50/50	60.6860
963041	AG1-153 C	10.6506	50/50	10.6506
963042	AG1-153 E	15.9759	50/50	15.9759
963111	AG1-160 C	10.8189	50/50	10.8189
963112	AG1-160 E	16.2284	50/50	16.2284
963291	AG1-178 C O1	121.1051	50/50	121.1051
963351	AG1-184 O1	65.2449	50/50	65.2449
963821	AG1-235 C O1	40.7848	50/50	40.7848
963822	AG1-235 E O1	27.1899	50/50	27.1899
964931	AG1-357 C	38.7288	50/50	38.7288
964932	AG1-357 E	25.8192	50/50	25.8192
964951	AG1-359 O1	45.4635	50/50	45.4635
965181	AG1-383 C	4.6653	50/50	4.6653
965182	AG1-383 E	1.3817	50/50	1.3817
965811	AG1-449	44.8936	50/50	44.8936
966361	AG1-505 C	30.9942	50/50	30.9942

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966362	AG1-505 E	20.6628	50/50	20.6628
966371	AG1-506 C	30.9942	50/50	30.9942
966372	AG1-506 E	20.6628	50/50	20.6628
WEC	WEC	1.2065	Confirmed LTF	1.2065
LGEE	LGEE	2.5157	Confirmed LTF	2.5157
CPL	CPL	13.0603	Confirmed LTF	13.0603
CBM-W2	CBM-W2	54.7277	Confirmed LTF	54.7277
NY	NY	2.6555	Confirmed LTF	2.6555
TVA	TVA	10.4468	Confirmed LTF	10.4468
O-066	O-066	36.7593	Confirmed LTF	36.7593
SIG	SIG	1.0235	Confirmed LTF	1.0235
CBM-S2	CBM-S2	156.9236	Confirmed LTF	156.9236
CBM-S1	CBM-S1	2.5969	Confirmed LTF	2.5969
G-007	G-007	5.7760	Confirmed LTF	5.7760
MEC	MEC	7.3412	Confirmed LTF	7.3412
LAGN	LAGN	12.9413	Confirmed LTF	12.9413
AA2-074	AA2-074	8.6256	LTF	8.6256
CBM-W1	CBM-W1	49.8832	Confirmed LTF	49.8832

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
163758628	314902	8CARSON	DVP	939410	AE1-173_POI	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	106.32	107.93	DC	55.44

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3092	50/50	0.3092
314189	6PAPERMILL	-3.7784	Adder	-4.45
314435	6SAPONY	0.2570	50/50	0.2570
314539	3UNCAMP	-3.8616	Adder	-4.54
315102	1BRUNSWICKG1	13.2311	50/50	13.2311
315103	1BRUNSWICKG2	13.2311	50/50	13.2311
315104	1BRUNSWICKG3	13.2311	50/50	13.2311
315105	1BRUNSWICKS1	27.4875	50/50	27.4875
315153	1CLOVER1	15.9761	50/50	15.9761
315154	1CLOVER2	15.8169	50/50	15.8169
315241	1Z1-086 GT1	17.1480	50/50	17.1480
315242	1Z1-086 GT2	17.1480	50/50	17.1480
315243	1Z1-086 GT3	17.1480	50/50	17.1480
315244	1Z1-086 ST	29.8096	50/50	29.8096
315266	1PLYWOOD A	1.0198	50/50	1.0198
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-30.4816	Adder	-35.86
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-30.4816	Adder	-35.86
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-52.8061	Adder	-62.12
316118	AC1-105 C	4.8945	50/50	4.8945
316123	AC1-075 C	0.6875	50/50	0.6875
316131	AB2-060 C	0.8891	50/50	0.8891
316132	AB2-190 C	-11.2593	Adder	-13.25
923852	AB2-025 E	0.7319	50/50	0.7319
924022	AB2-043 E O1	1.7522	50/50	1.7522
924162	AB2-060 E OP	2.6519	50/50	2.6519
924301	AB2-077 C O1 (Suspended)	1.2522	50/50	1.2522
924302	AB2-077 E O1 (Suspended)	0.8348	50/50	0.8348
924311	AB2-078 C O1 (Suspended)	1.2522	50/50	1.2522
924312	AB2-078 E O1 (Suspended)	0.8348	50/50	0.8348
924321	AB2-079 C O1 (Suspended)	1.2522	50/50	1.2522
924322	AB2-079 E O1 (Suspended)	0.8348	50/50	0.8348
925863	AC1-065 C	-4.3013	Adder	-5.06
925997	AC1-075 E	2.4688	50/50	2.4688

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926023	AC1-080 C	0.2298	50/50	0.2298
926024	AC1-080 E	0.8191	50/50	0.8191
926274	AC1-105 E	2.4047	50/50	2.4047
926754	AC1-161 C	-33.7452	Adder	-39.7
927251	AC1-221 C	2.0468	50/50	2.0468
927252	AC1-221 E	2.0468	50/50	2.0468
927261	AC1-222 C	3.2852	50/50	3.2852
927262	AC1-222 E	3.1274	50/50	3.1274
932761	AC2-100 C	4.7104	50/50	4.7104
932762	AC2-100 E	2.2991	50/50	2.2991
934061	AD1-033 C	-9.0896	Adder	-10.69
934141	AD1-041 C	-3.1674	Adder	-3.73
934311	AD1-055 C	2.2810	50/50	2.2810
934312	AD1-055 E	0.5882	50/50	0.5882
934341	AD1-058 C	5.1310	50/50	5.1310
934342	AD1-058 E	1.3038	50/50	1.3038
934615	AD1-087 C	10.0012	50/50	10.0012
934616	AD1-087 E	4.2797	50/50	4.2797
934625	AD1-088 C	12.8934	50/50	12.8934
934626	AD1-088 E	3.3768	50/50	3.3768
934991	AD1-131 C	1.6823	50/50	1.6823
934992	AD1-131 E	1.1215	50/50	1.1215
935171	AD1-152 C O1	10.9853	50/50	10.9853
935172	AD1-152 E O1	7.3235	50/50	7.3235
936161	AD2-022 C O1	6.7644	50/50	6.7644
936162	AD2-022 E O1	4.0586	50/50	4.0586
936171	AD2-023 C O1	3.9459	50/50	3.9459
936172	AD2-023 E O1	2.1421	50/50	2.1421
936265	AD2-033 C	7.9856	50/50	7.9856
936266	AD2-033 E	5.3238	50/50	5.3238
936485	AD2-063 C	9.2745	50/50	9.2745
936486	AD2-063 E	6.1830	50/50	6.1830
937481	AD2-202 C O1	2.9294	50/50	2.9294
937482	AD2-202 E O1	1.6478	50/50	1.6478
938494	AE1-068_C1	51.6375	50/50	51.6375
938497	AE1-068_C2	51.6375	50/50	51.6375
938498	AE1-068_E1	28.5450	50/50	28.5450
938499	AE1-068_E2	28.5450	50/50	28.5450
938504	AE1-069_C1	39.3536	50/50	39.3536
938507	AE1-069_C2	42.4326	50/50	42.4326
938508	AE1-069_E1	22.3870	50/50	22.3870
938509	AE1-069_E2	24.1189	50/50	24.1189
939431	AE1-175 C	-1.8138	Adder	-2.13
940231	AE2-005 C	-0.7820	Adder	-0.92
940471	AE2-031 C	56.5831	50/50	56.5831
940472	AE2-031 E	37.7220	50/50	37.7220
940481	AE2-033 C	10.0312	50/50	10.0312
940482	AE2-033 E	6.7626	50/50	6.7626
940541	AE2-040	1.8534	50/50	1.8534
940552	AE2-041 BAT	4.9116	50/50	4.9116
940891	AE2-078 C	-2.0105	Adder	-2.37
940901	AE2-079 C	-2.0105	Adder	-2.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941031	AE2-094 C	68.3097	50/50	68.3097
941032	AE2-094 E	30.5943	50/50	30.5943
941791	AE2-182 C	2.0947	50/50	2.0947
941792	AE2-182 E	0.9751	50/50	0.9751
942131	AE2-225 C	-2.4492	Adder	-2.88
942171	AE2-229 C	-1.8369	Adder	-2.16
942451	AE2-258	1.4619	50/50	1.4619
942552	AE2-270 BAT	18.7365	50/50	18.7365
942931	AE2-313 C	61.1264	50/50	61.1264
942932	AE2-313 E	40.7509	50/50	40.7509
943472	AF1-018 BAT	4.9116	50/50	4.9116
943611	AF1-032 C	-2.0002	Adder	-2.35
943621	AF1-033 C	-2.0105	Adder	-2.37
943901	AF1-058 C	1.8214	50/50	1.8214
943902	AF1-058 E	1.2142	50/50	1.2142
944011	AF1-069 C	22.3193	50/50	22.3193
944012	AF1-069 E	8.6706	50/50	8.6706
945363	AF1-201 BAT	3.3658	50/50	3.3658
945811	AF1-246 C O1	10.7961	50/50	10.7961
945812	AF1-246 E O1	14.9089	50/50	14.9089
946011	AF1-266	8.3969	50/50	8.3969
957481	AF2-042 C	77.1150	50/50	77.1150
957482	AF2-042 E	51.4100	50/50	51.4100
957491	AF2-043 C	-2.4492	Adder	-2.88
957632	AF2-057 BAT	5.0526	50/50	5.0526
959751	AF2-266	11.4680	50/50	11.4680
960061	AF2-297 C	7.2854	50/50	7.2854
960062	AF2-297 E	4.8570	50/50	4.8570
961091	AF2-400 C	-0.2729	Adder	-0.32
961612	AG1-000B BAT	12.5580	50/50	12.5580
961691	AG1-009 BAT	7.8174	50/50	7.8174
961712	AG1-011 BAT	20.8464	50/50	20.8464
961853	AG1-028 BAT	21.3900	50/50	21.3900
962132	AG1-057 BAT	2.4558	50/50	2.4558
962441	AG1-093 C O1	13.0520	50/50	13.0520
962442	AG1-093 E O1	3.9724	50/50	3.9724
962491	AG1-098 C O1	15.2543	50/50	15.2543
962492	AG1-098 E O1	10.1695	50/50	10.1695
962561	AG1-105 C O1	13.0848	50/50	13.0848
962562	AG1-105 E O1	8.7232	50/50	8.7232
963041	AG1-153 C	9.2838	50/50	9.2838
963042	AG1-153 E	13.9257	50/50	13.9257
963111	AG1-160 C	9.4788	50/50	9.4788
963112	AG1-160 E	14.2182	50/50	14.2182
963271	AG1-176 C O1	15.5728	50/50	15.5728
963272	AG1-176 E O1	10.3819	50/50	10.3819
963321	AG1-181 C O1	10.3395	50/50	10.3395
963352	AG1-184 BAT	70.8000	50/50	70.8000
963613	AG1-210 BAT	1.0459	50/50	1.0459
964241	AG1-285 C O1	7.7430	50/50	7.7430
964242	AG1-285 E O1	5.1620	50/50	5.1620
964261	AG1-287 C	1.3660	50/50	1.3660

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964262	AG1-287 E	0.9107	50/50	0.9107
964471	AG1-310 C	1.8771	50/50	1.8771
964472	AG1-310 E	0.9245	50/50	0.9245
964791	AG1-342 C	3.3221	50/50	3.3221
964792	AG1-342 E	2.6102	50/50	2.6102
964841	AG1-347 C	9.6981	50/50	9.6981
964842	AG1-347 E	7.6199	50/50	7.6199
964931	AG1-357 C	33.2664	50/50	33.2664
964932	AG1-357 E	22.1776	50/50	22.1776
964952	AG1-359 BAT	38.2185	50/50	38.2185
965003	AG1-364 BAT	25.3380	50/50	25.3380
965183	AG1-383 BAT	2.1602	50/50	2.1602
965591	AG1-427 C	7.3382	50/50	7.3382
965592	AG1-427 E	4.9025	50/50	4.9025
965811	AG1-449	39.6732	50/50	39.6732
966361	AG1-505 C	26.9838	50/50	26.9838
966362	AG1-505 E	17.9892	50/50	17.9892
966371	AG1-506 C	26.9838	50/50	26.9838
966372	AG1-506 E	17.9892	50/50	17.9892
966492	AG1-518 BAT	12.0060	50/50	12.0060
966663	AG1-536 BAT	8.3655	50/50	8.3655
966932	AG1-431A BAT	28.2400	50/50	28.2400
WEC	WEC	0.8467	Confirmed LTF	0.8467
LGEE	LGEE	1.7372	Confirmed LTF	1.7372
CPL	CPL	7.7211	Confirmed LTF	7.7211
CBM-W2	CBM-W2	36.0461	Confirmed LTF	36.0461
NY	NY	0.9473	Confirmed LTF	0.9473
TVA	TVA	6.7368	Confirmed LTF	6.7368
O-066	O-066	13.6081	Confirmed LTF	13.6081
SIGE	SIGE	0.5209	Confirmed LTF	0.5209
CBM-S2	CBM-S2	96.6535	Confirmed LTF	96.6535
CBM-S1	CBM-S1	1.6872	Confirmed LTF	1.6872
G-007	G-007	2.1420	Confirmed LTF	2.1420
MEC	MEC	5.0053	Confirmed LTF	5.0053
LAGN	LAGN	8.3720	Confirmed LTF	8.3720
AA2-074	AA2-074	5.1021	LTF	5.1021
CBM-W1	CBM-W1	35.6248	Confirmed LTF	35.6248

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
168784115	314902	8CARSON	DVP	314282	6CARSON	DVP	1	DVP_P1-2: LN 563	single	903.9	155.15	156.94	DC	16.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-4.5511	Adder	-5.35
314295	6BIRDNECK	0.0139	80/20	0.0139
314491	3PENDLTN	0.1034	80/20	0.1034
314507	3THOMPSN	0.1014	80/20	0.1014
315098	1CHESPKA	0.1351	80/20	0.1351
315099	1CHESPKB (Deactivation : 31/05/2019)	0.9364	80/20	0.9364
315102	1BRUNSWICKG1	6.6750	80/20	6.6750
315103	1BRUNSWICKG2	6.6750	80/20	6.6750
315104	1BRUNSWICKG3	6.6750	80/20	6.6750
315105	1BRUNSWICKS1	13.8672	80/20	13.8672
315108	1ELIZAR1	1.0204	80/20	1.0204
315109	1ELIZAR2	1.0027	80/20	1.0027
315110	1ELIZAR3	1.0335	80/20	1.0335
315153	1CLOVER1	7.4858	80/20	7.4858
315154	1CLOVER2	7.4112	80/20	7.4112
315233	1SURRY 2	8.5676	80/20	8.5676
315241	1Z1-086 GT1	8.6804	80/20	8.6804
315242	1Z1-086 GT2	8.6804	80/20	8.6804
315243	1Z1-086 GT3	8.6804	80/20	8.6804
315244	1Z1-086 ST	15.0897	80/20	15.0897
315260	1GOSPORTA	0.1074	80/20	0.1074
315261	1GOSPORTB	0.1372	80/20	0.1372
315262	1GOSPORTC	0.1165	80/20	0.1165
315603	6AA1-139SOLA	0.6880	80/20	0.6880
923991	AB2-040 C O1	-4.9566	Adder	-5.83
926661	AC1-147 C	0.1142	80/20	0.1142
926754	AC1-161 C	14.6048	80/20	14.6048
927251	AC1-221 C	0.8158	80/20	0.8158
932044	AC2-012 C	3.2752	80/20	3.2752
932581	AC2-078 C O1	-3.3944	Adder	-3.99
932761	AC2-100 C	1.8776	80/20	1.8776
933294	AC2-141 C	14.6048	80/20	14.6048
933731	AC2-196 C	0.0953	80/20	0.0953
934061	AD1-033 C	2.5276	80/20	2.5276
934341	AD1-058 C	2.0452	80/20	2.0452
934615	AD1-087 C	4.6825	80/20	4.6825
934625	AD1-088 C	5.6692	80/20	5.6692
934991	AD1-131 C	0.6706	80/20	0.6706
935171	AD1-152 C O1	5.1432	80/20	5.1432
936761	AD2-097 C	-0.8563	Adder	-1.01
937221	AD2-160 C O1	1.8650	80/20	1.8650

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
937481	AD2-202 C O1	1.3715	80/20	1.3715
938494	AE1-068_C1	26.2028	80/20	26.2028
938497	AE1-068_C2	26.2028	80/20	26.2028
938504	AE1-069_C1	19.9694	80/20	19.9694
938507	AE1-069_C2	21.5318	80/20	21.5318
938535	AE1-072 C	5.3361	80/20	5.3361
939414	AE1-173_C1	23.0143	80/20	23.0143
939415	AE1-173_C2	19.7266	80/20	19.7266
939416	AE1-173_C3	23.0143	80/20	23.0143
940251	AE2-007_O1 (Withdrawn : 12/11/2020)	57.0013	80/20	57.0013
940471	AE2-031 C	28.7552	80/20	28.7552
940641	AE2-051 C O1	14.6232	80/20	14.6232
941031	AE2-094 C	34.8117	80/20	34.8117
941281	AE2-122 C O1	9.3481	80/20	9.3481
941291	AE2-123 C O1	9.6069	80/20	9.6069
941301	AE2-124 C O1	8.7541	80/20	8.7541
941591	AE2-156_O1	5.8130	80/20	5.8130
941791	AE2-182 C	0.9210	80/20	0.9210
942151	AE2-227 C	-0.6867	Adder	-0.81
942161	AE2-228 C	-1.9138	Adder	-2.25
942401	AE2-253 C	1.9617	80/20	1.9617
942931	AE2-313 C	31.0521	80/20	31.0521
943901	AF1-058 C	0.6468	80/20	0.6468
944011	AF1-069 C	11.3743	80/20	11.3743
944581	AF1-123 C O1	18.4495	80/20	18.4495
944591	AF1-124 C O1	18.4495	80/20	18.4495
944601	AF1-125 C O1	18.4495	80/20	18.4495
945811	AF1-246 C O1	5.2164	80/20	5.2164
946261	AF1-291 C	-1.8915	Adder	-2.23
957481	AF2-042 C	37.2600	80/20	37.2600
957631	AF2-057	1.1492	80/20	1.1492
957871	AF2-081 C	3.1030	80/20	3.1030
959641	AF2-255 C	-0.1717	Adder	-0.2
959651	AF2-256 C	-0.4785	Adder	-0.56
959751	AF2-266	5.3735	80/20	5.3735
960061	AF2-297 C	2.5872	80/20	2.5872
962491	AG1-098 C O1	6.9390	80/20	6.9390
962561	AG1-105 C O1	6.0228	80/20	6.0228
963041	AG1-153 C	4.6836	80/20	4.6836
963111	AG1-160 C	4.7982	80/20	4.7982
963271	AG1-176 C O1	6.7625	80/20	6.7625
963291	AG1-178 C O1	50.6776	80/20	50.6776
963351	AG1-184_O1	27.3024	80/20	27.3024
963821	AG1-235 C O1	7.9299	80/20	7.9299
964261	AG1-287 C	0.4851	80/20	0.4851
964841	AG1-347 C	4.2078	80/20	4.2078
964931	AG1-357 C	16.3668	80/20	16.3668
964951	AG1-359_O1	9.0645	80/20	9.0645
965001	AG1-364 C O1	2.3208	80/20	2.3208
965181	AG1-383 C	0.9127	80/20	0.9127
965811	AG1-449	20.1617	80/20	20.1617

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966361	AG1-505 C	13.5045	80/20	13.5045
966371	AG1-506 C	13.5045	80/20	13.5045
WEC	WEC	0.3015	Confirmed LTF	0.3015
LGEE	LGEE	0.6214	Confirmed LTF	0.6214
CPL	CPL	2.9716	Confirmed LTF	2.9716
CBM-W2	CBM-W2	13.5117	Confirmed LTF	13.5117
NY	NY	0.4855	Confirmed LTF	0.4855
TVA	TVA	2.5690	Confirmed LTF	2.5690
SIGE	SIGE	0.2171	Confirmed LTF	0.2171
CBM-S2	CBM-S2	37.8450	Confirmed LTF	37.8450
CBM-S1	CBM-S1	0.6388	Confirmed LTF	0.6388
MEC	MEC	1.8242	Confirmed LTF	1.8242
LAGN	LAGN	3.1903	Confirmed LTF	3.1903
AA2-074	AA2-074	1.9629	LTF	1.9629
CBM-W1	CBM-W1	12.5619	Confirmed LTF	12.5619

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
163758741	314903	8CHCKAHM	DVP	314908	8ELMONT	DVP	1	DVP_P1-2: LN 563	single	2442.12	183.85	183.97	DC	27.06

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.6083	80/20	0.6083
314295	6BIRDNECK	0.0728	80/20	0.0728
314421	6WINCHST	0.2201	80/20	0.2201
314491	3PENDLTN	0.5432	80/20	0.5432
314507	3THOMPSN	0.5459	80/20	0.5459
314638	6ELIZ CT	0.3556	80/20	0.3556
314639	6TANGLEW	0.6491	80/20	0.6491
314643	3O INLET	0.7144	80/20	0.7144
315092	1YORKTN3	39.1963	80/20	39.1963
315098	1CHESPKA	0.7220	80/20	0.7220
315099	1CHESPKB (Deactivation : 31/05/2019)	5.0053	80/20	5.0053
315108	1ELIZAR1	5.3195	80/20	5.3195
315109	1ELIZAR2	5.2271	80/20	5.2271
315110	1ELIZAR3	5.3876	80/20	5.3876
315116	1SURRY 1	36.1526	80/20	36.1526
315120	1GRAVEL4	3.7197	80/20	3.7197
315233	1SURRY 2	48.5856	80/20	48.5856
315260	1GOSPORTA	0.5763	80/20	0.5763
315261	1GOSPORTB	0.7361	80/20	0.7361
315262	1GOSPORTC	0.6247	80/20	0.6247
315293	1DOMTR9	8.4474	Adder	9.94
315294	1DOMTR10	10.3521	Adder	12.18
315603	6AA1-139SOLA	3.7714	80/20	3.7714
315605	6W1-029WIND	1.7838	80/20	1.7838
315611	6Z1-036WIND	1.7276	80/20	1.7276
316103	AB2-015 C	10.8609	Adder	12.78
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	165.2340	80/20	165.2340
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	165.2340	80/20	165.2340
316114	AB2-068 ST (Withdrawn : 01/11/2021)	286.2505	80/20	286.2505
316132	AB2-190 C	21.8808	Adder	25.74
316134	AC1-107 G1	310.2793	80/20	310.2793
316135	AC1-107 G2	310.2793	80/20	310.2793
316136	AC1-107 G3	310.3375	80/20	310.3375
316140	AB2-099 C (Suspended)	0.6942	Adder	0.82
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.4566	80/20	0.4566
316258	AE1-162 C	0.5400	80/20	0.5400
925863	AC1-065 C	8.9827	Adder	10.57

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926661	AC1-147 C	0.6105	80/20	0.6105
926754	AC1-161 C	56.7826	80/20	56.7826
926784	AC1-164 C	50.7130	Adder	59.66
932044	AC2-012 C	17.5064	80/20	17.5064
932591	AC2-079 C O1	6.8775	Adder	8.09
933294	AC2-141 C	56.7826	80/20	56.7826
933731	AC2-196 C	0.4864	80/20	0.4864
933991	AD1-023 C	16.4881	Adder	19.4
934014	AD1-025 C	19.0719	Adder	22.44
934061	AD1-033 C	12.9436	80/20	12.9436
934141	AD1-041 C	6.4875	Adder	7.63
934521	AD1-076 C	69.1001	Adder	81.29
934575	AD1-082 C	0.5273	Adder	0.62
935111	AD1-144 C	0.4519	80/20	0.4519
935164	AD1-151 C	17.5828	Adder	20.69
936041	AD2-007 C	0.9111	Adder	1.07
936051	AD2-008 C	3.3204	Adder	3.91
936401	AD2-051 C O1	10.6005	Adder	12.47
936661	AD2-085 C	4.3566	Adder	5.13
937221	AD2-160 C O1	10.0056	80/20	10.0056
938494	AE1-068_C1	34.5957	Adder	40.7
938497	AE1-068_C2	34.5957	Adder	40.7
938504	AE1-069_C1	26.3658	Adder	31.02
938507	AE1-069_C2	28.4286	Adder	33.45
938535	AE1-072 C	29.9356	80/20	29.9356
938771	AE1-103 C	4.7010	Adder	5.53
939414	AE1-173_C1	48.4949	80/20	48.4949
939415	AE1-173_C2	41.5670	80/20	41.5670
939416	AE1-173_C3	48.4949	80/20	48.4949
939431	AE1-175 C	4.0622	80/20	4.0622
939611	AE1-191 C	12.9749	Adder	15.26
940061	AE2-000BC O1	11.4939	Adder	13.52
940231	AE2-005 C	1.6332	Adder	1.92
940251	AE2-007_O1 (Withdrawn : 12/11/2020)	298.0885	80/20	298.0885
940471	AE2-031 C	37.7130	Adder	44.37
940491	AE2-034 C	9.4119	Adder	11.07
940551	AE2-041	8.8624	Adder	10.43
940641	AE2-051 C O1	25.3584	80/20	25.3584
940891	AE2-078 C	3.6585	80/20	3.6585
940901	AE2-079 C	3.6585	80/20	3.6585
941031	AE2-094 C	45.4213	Adder	53.44
941101	AE2-104 C O1	5.3617	80/20	5.3617
941281	AE2-122 C O1	48.8761	80/20	48.8761
941291	AE2-123 C O1	50.2294	80/20	50.2294
941301	AE2-124 C O1	45.6816	80/20	45.6816
941501	AE2-147 C	26.0919	80/20	26.0919
941591	AE2-156_O1	30.7590	80/20	30.7590
942131	AE2-225 C	3.5741	80/20	3.5741
942171	AE2-229 C	2.6806	80/20	2.6806
942341	AE2-247 C	1.8863	Adder	2.22
942401	AE2-253 C	10.5242	80/20	10.5242

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942551	AE2-270	29.8924	Adder	35.17
942931	AE2-313 C	40.7636	Adder	47.96
943171	AE2-346 C	1.6661	Adder	1.96
943431	AF1-014 C	1.5473	Adder	1.82
943461	AF1-017 C	1.7067	Adder	2.01
943471	AF1-018	8.8624	Adder	10.43
943611	AF1-032 C	2.9188	80/20	2.9188
943621	AF1-033 C	3.6585	80/20	3.6585
944011	AF1-069 C	14.8409	Adder	17.46
944581	AF1-123 C O1	84.0753	80/20	84.0753
944591	AF1-124 C O1	84.0753	80/20	84.0753
944601	AF1-125 C O1	84.0753	80/20	84.0753
944871	AF1-152 C	8.6973	80/20	8.6973
945361	AF1-201 C O1	26.6814	80/20	26.6814
945711	AF1-236 C O1	103.0384	Adder	121.22
957491	AF2-043 C	3.5741	80/20	3.5741
957521	AF2-046 C	19.9647	Adder	23.49
957531	AF2-047 C	22.3646	Adder	26.31
957601	AF2-054 C	2.6029	Adder	3.06
957631	AF2-057	6.1426	80/20	6.1426
957711	AF2-065 C	15.2451	Adder	17.94
957821	AF2-076 C	8.7747	80/20	8.7747
957831	AF2-077 C	3.4444	80/20	3.4444
957871	AF2-081 C	17.0094	80/20	17.0094
958161	AF2-110 C	2.2104	80/20	2.2104
959511	AF2-242 C	8.5768	Adder	10.09
961091	AF2-400 C	0.5865	Adder	0.69
961611	AG1-000B C	10.5837	Adder	23.49
961681	AG1-008 C	10.6025	Adder	23.53
961711	AG1-011	17.1687	Adder	38.11
961851	AG1-027 C	26.6172	80/20	26.6172
961931	AG1-036 C	0.8549	Adder	1.9
961941	AG1-037 C	0.3154	Adder	0.7
962131	AG1-057	2.3485	Adder	5.21
962321	AG1-081 C (Withdrawn : 01/15/2021)	3.3259	80/20	3.3259
962331	AG1-082 C	1.2615	Adder	2.8
962341	AG1-083 C	1.2615	Adder	2.8
962351	AG1-084 C	1.1000	Adder	2.44
962361	AG1-085 C	1.1000	Adder	2.44
962531	AG1-102 C	1.7681	80/20	1.7681
962961	AG1-145 C	3.6652	80/20	3.6652
962971	AG1-146 C	1.8384	Adder	4.08
962981	AG1-147 C	4.2896	Adder	9.52
963041	AG1-153 C	3.3297	Adder	7.39
963111	AG1-160 C	3.3798	Adder	7.5
963221	AG1-171 C	1.2425	Adder	2.76
963231	AG1-172 C	1.2425	Adder	2.76
963241	AG1-173 C	1.2425	Adder	2.76
963251	AG1-174 C	1.2425	Adder	2.76
963261	AG1-175 C	1.2425	Adder	2.76
963291	AG1-178 C O1	93.1181	80/20	93.1181

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963351	AG1-184 O1	50.1669	80/20	50.1669
963821	AG1-235 C O1	41.4126	80/20	41.4126
964491	AG1-312 C O1	12.1221	Adder	26.91
964801	AG1-343 C	3.7374	Adder	8.3
964931	AG1-357 C	12.1894	Adder	27.06
964951	AG1-359 O1	46.2435	80/20	46.2435
965001	AG1-364 C O1	12.3004	80/20	12.3004
965181	AG1-383 C	4.7390	80/20	4.7390
965291	AG1-394 C	1.2828	Adder	2.85
965631	AG1-431	31.6165	Adder	70.18
965691	AG1-437 C O1	6.6656	Adder	14.8
965701	AG1-438 C O1	6.6656	Adder	14.8
965741	AG1-442 O1	3.8883	Adder	8.63
965751	AG1-443 O1	3.8883	Adder	8.63
965811	AG1-449	14.0145	Adder	31.11
966361	AG1-505 C	9.7134	Adder	21.56
966371	AG1-506 C	9.7134	Adder	21.56
966491	AG1-518 O1	14.8920	80/20	14.8920
966611	AG1-531 C	10.5001	80/20	10.5001
966931	AG1-431A	23.7540	Adder	52.73
WEC	WEC	0.5714	Confirmed LTF	0.5714
LGEE	LGEE	1.1894	Confirmed LTF	1.1894
CPL	CPL	9.3434	Confirmed LTF	9.3434
CBM-W2	CBM-W2	31.1539	Confirmed LTF	31.1539
NY	NY	1.8006	Confirmed LTF	1.8006
TVA	TVA	6.2356	Confirmed LTF	6.2356
SIGE	SIGE	0.5991	Confirmed LTF	0.5991
CBM-S2	CBM-S2	107.7304	Confirmed LTF	107.7304
CBM-S1	CBM-S1	1.5158	Confirmed LTF	1.5158
MEC	MEC	3.7945	Confirmed LTF	3.7945
LAGN	LAGN	7.7578	Confirmed LTF	7.7578
AA2-074	AA2-074	6.1659	LTF	6.1659
CBM-W1	CBM-W1	22.9648	Confirmed LTF	22.9648

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
163758773	314914	8MDLTHAN	DVP	314918	8NO ANNA	DVP	1	DVP_P1-2: LN 574	single	2442.12	176.36	176.69	DC	34.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.5622	80/20	0.5622
314295	6BIRDNECK	0.0659	80/20	0.0659
314435	6SAPONY	0.5994	80/20	0.5994
314491	3PENDLTN	0.4916	80/20	0.4916
314507	3THOMPSN	0.4946	80/20	0.4946
314572	3EMPORIA	0.5341	Adder	0.63
314638	6ELIZ CT	0.3286	80/20	0.3286
314639	6TANGLEW	0.6031	80/20	0.6031
314643	3O INLET	0.6534	80/20	0.6534
315065	1CHESTF6 (Deactivation : 31/05/2023)	145.8715	Adder	171.61
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0214	Adder	0.03
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0214	Adder	0.03
315083	1SPRUNCA (Deactivation : 12/01/2021)	13.1246	Adder	15.44
315084	1SPRUNCB (Deactivation : 12/01/2021)	13.1246	Adder	15.44
315098	1CHESPKA	0.6537	80/20	0.6537
315099	1CHESPKB (Deactivation : 31/05/2019)	4.5315	80/20	4.5315
315102	1BRUNSWICKG1	12.9917	80/20	12.9917
315103	1BRUNSWICKG2	12.9917	80/20	12.9917
315104	1BRUNSWICKG3	12.9917	80/20	12.9917
315105	1BRUNSWICKS1	26.9901	80/20	26.9901
315108	1ELIZAR1	4.8060	80/20	4.8060
315109	1ELIZAR2	4.7226	80/20	4.7226
315110	1ELIZAR3	4.8675	80/20	4.8675
315233	1SURRY 2	35.9591	80/20	35.9591
315241	1Z1-086 GT1	16.6986	80/20	16.6986
315242	1Z1-086 GT2	16.6986	80/20	16.6986
315243	1Z1-086 GT3	16.6986	80/20	16.6986
315244	1Z1-086 ST	29.0284	80/20	29.0284
315260	1GOSPORTA	0.5220	80/20	0.5220
315261	1GOSPORTB	0.6667	80/20	0.6667
315262	1GOSPORTC	0.5658	80/20	0.5658
315293	1DOMTR9	8.7258	Adder	10.27
315294	1DOMTR10	10.6934	Adder	12.58
315603	6AA1-139SOLA	3.4369	80/20	3.4369
315605	6W1-029WIND	1.6716	80/20	1.6716
315611	6Z1-036WIND	1.6481	80/20	1.6481

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316083	AB2-161 C	5.0935	80/20	5.0935
316103	AB2-015 C	11.1329	Adder	13.1
316108	AB2-160 C	6.7143	Adder	7.9
316132	AB2-190 C	24.4835	Adder	28.8
316140	AB2-099 C (Suspended)	0.7462	Adder	0.88
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.4209	80/20	0.4209
316258	AE1-162 C	0.5108	80/20	0.5108
923991	AB2-040 C O1	3.6718	Adder	4.32
926661	AC1-147 C	0.5528	80/20	0.5528
926754	AC1-161 C	47.5821	80/20	47.5821
932044	AC2-012 C	15.8494	80/20	15.8494
932581	AC2-078 C O1	6.1088	80/20	6.1088
932591	AC2-079 C O1	8.7326	80/20	8.7326
933294	AC2-141 C	47.5821	80/20	47.5821
933731	AC2-196 C	0.4394	80/20	0.4394
933991	AD1-023 C	16.8659	Adder	19.84
934014	AD1-025 C	20.7117	Adder	24.37
934061	AD1-033 C	11.6962	80/20	11.6962
934521	AD1-076 C	69.9533	Adder	82.3
934575	AD1-082 C	11.6079	80/20	11.6079
934615	AD1-087 C	9.6681	Adder	11.37
935111	AD1-144 C	0.4166	80/20	0.4166
935164	AD1-151 C	19.6743	Adder	23.15
935171	AD1-152 C O1	10.6194	Adder	12.49
936041	AD2-007 C	0.9894	Adder	1.16
936051	AD2-008 C	3.6059	Adder	4.24
936401	AD2-051 C O1	11.2116	Adder	13.19
936661	AD2-085 C	5.2613	80/20	5.2613
936761	AD2-097 C	2.4892	Adder	2.93
937221	AD2-160 C O1	9.0951	80/20	9.0951
937481	AD2-202 C O1	2.8318	Adder	3.33
938494	AE1-068_C1	49.9889	80/20	49.9889
938497	AE1-068_C2	49.9889	80/20	49.9889
938504	AE1-069_C1	38.0971	80/20	38.0971
938507	AE1-069_C2	41.0778	80/20	41.0778
938535	AE1-072 C	27.3517	80/20	27.3517
938551	AE1-074 C	0.6107	80/20	0.6107
938634	AE1-085 C	13.3895	80/20	13.3895
938771	AE1-103 C	4.7311	Adder	5.57
939195	AE1-149 C	16.0272	80/20	16.0272
939414	AE1-173_C1	51.9170	80/20	51.9170
939415	AE1-173_C2	44.5003	80/20	44.5003
939416	AE1-173_C3	51.9170	80/20	51.9170
940061	AE2-000BC O1	16.1010	80/20	16.1010
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	269.3798	80/20	269.3798
940431	AE2-027 C O1	15.4401	Adder	18.16
940471	AE2-031 C	54.5281	80/20	54.5281
940481	AE2-033 C	24.3299	80/20	24.3299
940491	AE2-034 C	9.3106	Adder	10.95
940541	AE2-040	4.3222	80/20	4.3222
940641	AE2-051 C O1	28.7217	80/20	28.7217

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940651	AE2-052	5.3424	80/20	5.3424
940891	AE2-078 C	2.9568	Adder	3.48
940901	AE2-079 C	2.9568	Adder	3.48
941031	AE2-094 C	65.4234	80/20	65.4234
941101	AE2-104 C O1	5.1652	80/20	5.1652
941281	AE2-122 C O1	44.2187	80/20	44.2187
941291	AE2-123 C O1	45.4431	80/20	45.4431
941301	AE2-124 C O1	41.3261	80/20	41.3261
941501	AE2-147 C	24.4512	80/20	24.4512
941591	AE2-156 O1	27.8230	80/20	27.8230
942001	AE2-212 C	2.6624	Adder	3.13
942131	AE2-225 C	3.3056	80/20	3.3056
942161	AE2-228 C	2.6023	Adder	3.06
942171	AE2-229 C	2.4792	80/20	2.4792
942341	AE2-247 C	2.2803	80/20	2.2803
942371	AE2-250 C O1	11.9267	Adder	14.03
942401	AE2-253 C	9.5665	80/20	9.5665
942471	AE2-260 C O1	18.4328	Adder	21.69
942551	AE2-270	32.8963	Adder	38.7
942931	AE2-313 C	58.9598	80/20	58.9598
943171	AE2-346 C	1.7909	Adder	2.11
943461	AF1-017 C	2.0631	80/20	2.0631
943611	AF1-032 C	2.6996	80/20	2.6996
943621	AF1-033 C	2.9568	Adder	3.48
944011	AF1-069 C	21.3763	80/20	21.3763
944581	AF1-123 C O1	75.0792	80/20	75.0792
944591	AF1-124 C O1	75.0792	80/20	75.0792
944601	AF1-125 C O1	75.0792	80/20	75.0792
944641	AF1-129	122.4021	Adder	144.0
944871	AF1-152 C	8.1504	80/20	8.1504
945711	AF1-236 C O1	101.9285	Adder	119.92
945811	AF1-246 C O1	11.5823	80/20	11.5823
946011	AF1-266	20.3661	80/20	20.3661
946261	AF1-291 C	2.6015	Adder	3.06
946281	AF1-292 C	1.9090	Adder	2.25
957481	AF2-042 C	82.7310	80/20	82.7310
957491	AF2-043 C	3.3056	80/20	3.3056
957521	AF2-046 C	21.4450	Adder	25.23
957531	AF2-047 C	22.1237	Adder	26.03
957631	AF2-057	5.5612	80/20	5.5612
957711	AF2-065 C	16.7771	Adder	19.74
957821	AF2-076 C	8.1999	80/20	8.1999
957871	AF2-081 C	15.5008	80/20	15.5008
957911	AF2-085	6.6022	80/20	6.6022
958141	AF2-108	2.6769	80/20	2.6769
958161	AF2-110 C	2.1294	80/20	2.1294
958501	AF2-144 C	2.2982	Adder	2.7
959531	AF2-244 C (Withdrawn : 01/06/2021)	2.1180	Adder	2.49
959651	AF2-256 C	0.6506	Adder	0.77
959661	AF2-257 C	0.6504	Adder	0.77
959671	AF2-258 C	0.6656	Adder	0.78

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959681	AF2-259 C	4.0154	80/20	4.0154
959751	AF2-266	11.0755	Adder	13.03
960081	AF2-299 C	3.2173	Adder	3.79
961091	AF2-400 C	0.6012	Adder	0.71
961611	AG1-000B C	10.5561	Adder	23.43
961681	AG1-008 C	11.3886	Adder	25.28
961711	AG1-011	18.6449	Adder	41.39
961851	AG1-027 C	26.0714	80/20	26.0714
961931	AG1-036 C	0.9186	Adder	2.04
961941	AG1-037 C	0.3390	Adder	0.75
962271	AG1-075 C O1	10.9098	Adder	24.22
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.4246	Adder	3.16
962331	AG1-082 C	1.3560	Adder	3.01
962341	AG1-083 C	1.3560	Adder	3.01
962351	AG1-084 C	1.1827	Adder	2.63
962361	AG1-085 C	1.1827	Adder	2.63
962491	AG1-098 C O1	8.4219	Adder	18.69
962561	AG1-105 C O1	6.8494	Adder	15.2
963041	AG1-153 C	9.1158	80/20	9.1158
963111	AG1-160 C	9.2304	80/20	9.2304
963221	AG1-171 C	1.3903	Adder	3.09
963231	AG1-172 C	1.3903	Adder	3.09
963241	AG1-173 C	1.3903	Adder	3.09
963251	AG1-174 C	1.3903	Adder	3.09
963261	AG1-175 C	1.3903	Adder	3.09
963291	AG1-178 C O1	102.6810	80/20	102.6810
963351	AG1-184 O1	55.3190	80/20	55.3190
963821	AG1-235 C O1	37.5219	80/20	37.5219
964491	AG1-312 C O1	12.7300	Adder	28.26
964801	AG1-343 C	4.0122	Adder	8.91
964931	AG1-357 C	34.4172	80/20	34.4172
964951	AG1-359 O1	41.7780	80/20	41.7780
965001	AG1-364 C O1	11.1280	80/20	11.1280
965181	AG1-383 C	4.2908	80/20	4.2908
965291	AG1-394 C	1.3770	Adder	3.06
965631	AG1-431	31.2759	Adder	69.42
965691	AG1-437 C O1	6.8756	Adder	15.26
965701	AG1-438 C O1	6.8756	Adder	15.26
965741	AG1-442 O1	4.0108	Adder	8.9
965751	AG1-443 O1	4.0108	Adder	8.9
965811	AG1-449	38.2324	80/20	38.2324
966361	AG1-505 C	26.9271	80/20	26.9271
966371	AG1-506 C	26.9271	80/20	26.9271
966491	AG1-518 O1	13.7735	80/20	13.7735
966611	AG1-531 C	4.2316	Adder	9.39
966621	AG1-532 C	0.9208	Adder	2.04
966731	AG1-544 C	10.4572	80/20	10.4572
966741	AG1-545 C	3.4875	80/20	3.4875
966931	AG1-431A	23.4981	Adder	52.16
WEC	WEC	1.4011	Confirmed LTF	1.4011
LGEE	LGEE	2.9461	Confirmed LTF	2.9461

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CPLE	CPLE	12.4679	Confirmed LTF	12.4679
CBM-W2	CBM-W2	59.3331	Confirmed LTF	59.3331
NY	NY	3.1466	Confirmed LTF	3.1466
TVA	TVA	11.1076	Confirmed LTF	11.1076
SIGE	SIGE	1.2049	Confirmed LTF	1.2049
CBM-S2	CBM-S2	153.5306	Confirmed LTF	153.5306
CBM-S1	CBM-S1	2.7911	Confirmed LTF	2.7911
MEC	MEC	8.2707	Confirmed LTF	8.2707
LAGN	LAGN	13.6973	Confirmed LTF	13.6973
AA2-074	AA2-074	8.2386	LTF	8.2386
CBM-W1	CBM-W1	58.1970	Confirmed LTF	58.1970

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
168784168	314914	8MDLTHAN	DVP	314322	6MDLTHAN	DVP	1	DVP_P1-2: LN 576	single	1058.16	141.11	142.34	DC	13.71

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1418	Adder	2.52
313526	AB2-022 C	0.1542	80/20	0.1542
314295	6BIRDNECK	0.0179	80/20	0.0179
314491	3PENDLTN	0.1333	80/20	0.1333
314572	3EMPORIA	0.1311	Adder	0.15
314638	6ELIZ CT	0.0902	80/20	0.0902
314639	6TANGLEW	0.1652	80/20	0.1652
314643	3O INLET	0.1798	80/20	0.1798
315098	1CHESPKA	0.1744	80/20	0.1744
315099	1CHESPKB (Deactivation : 31/05/2019)	1.2092	80/20	1.2092
315102	1BRUNSWICKG1	5.6698	80/20	5.6698
315103	1BRUNSWICKG2	5.6698	80/20	5.6698
315104	1BRUNSWICKG3	5.6698	80/20	5.6698
315105	1BRUNSWICKS1	11.7790	80/20	11.7790
315108	1ELIZAR1	1.2943	80/20	1.2943
315109	1ELIZAR2	1.2718	80/20	1.2718
315110	1ELIZAR3	1.3109	80/20	1.3109
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.2908	Adder	3.87
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.2908	Adder	3.87
315153	1CLOVER1	6.2209	80/20	6.2209
315154	1CLOVER2	6.1589	80/20	6.1589
315241	1Z1-086 GT1	7.3425	80/20	7.3425
315242	1Z1-086 GT2	7.3425	80/20	7.3425
315243	1Z1-086 GT3	7.3425	80/20	7.3425
315244	1Z1-086 ST	12.7641	80/20	12.7641
315261	1GOSPORTB	0.1779	80/20	0.1779
315293	1DOMTR9	2.4356	Adder	2.87
315294	1DOMTR10	2.9848	Adder	3.51
315603	6AA1-139SOLA	0.9468	80/20	0.9468
316103	AB2-015 C	2.8369	Adder	3.34
316118	AC1-105 C	1.7627	Adder	2.07
316129	AC1-054 C	2.2086	Adder	2.6
316140	AB2-099 C (Suspended)	0.2013	Adder	0.24
923991	AB2-040 C O1	2.3326	Adder	2.74
925591	AC1-034 C	2.4215	Adder	2.85
926070	AC1-086 C	6.8849	Adder	8.1
926201	AC1-098 C	2.1186	Adder	2.49
926211	AC1-099 C	0.7100	Adder	0.84
926661	AC1-147 C	0.1475	80/20	0.1475

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926754	AC1-161 C	14.1944	80/20	14.1944
927024	AC1-189 C	3.0702	Adder	3.61
927145	AC1-208 C	3.0886	Adder	3.63
927251	AC1-221 C	0.8116	Adder	0.95
927261	AC1-222 C	1.1675	Adder	1.37
932044	AC2-012 C	4.2294	80/20	4.2294
932631	AC2-084 C	3.0202	Adder	3.55
932761	AC2-100 C	1.8678	Adder	2.2
933294	AC2-141 C	14.1944	80/20	14.1944
933731	AC2-196 C	0.1214	80/20	0.1214
933991	AD1-023 C	4.6496	Adder	5.47
934061	AD1-033 C	3.2231	80/20	3.2231
934311	AD1-055 C	0.8106	Adder	0.95
934331	AD1-057 C O1	3.4483	Adder	4.06
934341	AD1-058 C	2.0346	Adder	2.39
934521	AD1-076 C	19.3134	Adder	22.72
934615	AD1-087 C	3.8963	80/20	3.8963
934991	AD1-131 C	0.6671	Adder	0.78
935171	AD1-152 C O1	4.2797	80/20	4.2797
936401	AD2-051 C O1	3.0750	Adder	3.62
936761	AD2-097 C	-1.1969	Adder	-1.41
937221	AD2-160 C O1	2.5076	80/20	2.5076
937481	AD2-202 C O1	1.1412	80/20	1.1412
938494	AE1-068_C1	22.0989	80/20	22.0989
938497	AE1-068_C2	22.0989	80/20	22.0989
938504	AE1-069_C1	16.8418	80/20	16.8418
938507	AE1-069_C2	18.1595	80/20	18.1595
938535	AE1-072 C	7.5289	80/20	7.5289
938771	AE1-103 C	1.1972	Adder	1.41
939414	AE1-173_C1	20.5380	80/20	20.5380
939415	AE1-173_C2	17.6040	80/20	17.6040
939416	AE1-173_C3	20.5380	80/20	20.5380
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	72.4636	80/20	72.4636
940471	AE2-031 C	24.0764	80/20	24.0764
940481	AE2-033 C	4.8272	Adder	5.68
940491	AE2-034 C	2.5622	Adder	3.01
940541	AE2-040	0.8513	Adder	1.0
940571	AE2-044 C	1.5860	Adder	1.87
940641	AE2-051 C O1	12.3417	80/20	12.3417
941031	AE2-094 C	29.2048	80/20	29.2048
941101	AE2-104 C O1	1.0920	Adder	1.28
941281	AE2-122 C O1	12.0319	80/20	12.0319
941291	AE2-123 C O1	12.3651	80/20	12.3651
941301	AE2-124 C O1	11.2667	80/20	11.2667
941501	AE2-147 C	5.6641	Adder	6.66
941591	AE2-156 O1	7.4480	80/20	7.4480
942131	AE2-225 C	0.7536	Adder	0.89
942151	AE2-227 C	-0.6853	Adder	-0.81
942171	AE2-229 C	0.5652	Adder	0.66
942401	AE2-253 C	2.6375	80/20	2.6375
942471	AE2-260 C O1	4.4919	Adder	5.28

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942931	AE2-313 C	26.0067	80/20	26.0067
943171	AE2-346 C	0.4832	Adder	0.57
943611	AF1-032 C	0.6154	Adder	0.72
943901	AF1-058 C	0.6520	Adder	0.77
944011	AF1-069 C	9.5423	80/20	9.5423
944141	AF1-082	1.0196	Adder	1.2
944581	AF1-123 C O1	21.4027	80/20	21.4027
944591	AF1-124 C O1	21.4027	80/20	21.4027
944601	AF1-125 C O1	21.4027	80/20	21.4027
944871	AF1-152 C	1.8880	Adder	2.22
945711	AF1-236 C O1	28.0499	Adder	33.0
945811	AF1-246 C O1	4.3558	80/20	4.3558
946011	AF1-266	4.0408	Adder	4.75
946281	AF1-292 C	0.4646	Adder	0.55
957481	AF2-042 C	31.1130	80/20	31.1130
957491	AF2-043 C	0.7536	Adder	0.89
957521	AF2-046 C	5.6683	Adder	6.67
957531	AF2-047 C	6.0882	Adder	7.16
957631	AF2-057	1.4840	80/20	1.4840
957821	AF2-076 C	1.8730	Adder	2.2
957861	AF2-080 C	2.7885	Adder	3.28
957871	AF2-081 C	4.2700	80/20	4.2700
958161	AF2-110 C	0.4502	Adder	0.53
959511	AF2-242 C	2.6400	Adder	3.11
959641	AF2-255 C	-0.1713	Adder	-0.2
959751	AF2-266	4.4655	80/20	4.4655
960061	AF2-297 C	2.6079	Adder	3.07
960081	AF2-299 C	0.7830	Adder	0.92
961091	AF2-400 C	0.1532	Adder	0.18
961671	AG1-007 C	0.2333	Adder	0.52
961681	AG1-008 C	3.0102	Adder	6.68
961851	AG1-027 C	2.9410	Adder	6.53
961931	AG1-036 C	0.2455	Adder	0.54
961941	AG1-037 C	0.0915	Adder	0.2
962331	AG1-082 C	0.3659	Adder	0.81
962341	AG1-083 C	0.3659	Adder	0.81
962351	AG1-084 C	0.3218	Adder	0.71
962361	AG1-085 C	0.3218	Adder	0.71
962441	AG1-093 C O1	2.4913	Adder	5.53
962491	AG1-098 C O1	2.3182	Adder	5.15
962561	AG1-105 C O1	5.1594	80/20	5.1594
962571	AG1-106 C	1.0148	Adder	2.25
963041	AG1-153 C	3.9783	80/20	3.9783
963111	AG1-160 C	4.0587	80/20	4.0587
963291	AG1-178 C O1	43.0805	80/20	43.0805
963351	AG1-184 O1	23.2095	80/20	23.2095
963821	AG1-235 C O1	10.3545	80/20	10.3545
964261	AG1-287 C	0.2592	Adder	0.58
964471	AG1-310 C	0.3524	Adder	0.78
964491	AG1-312 C O1	3.4971	Adder	7.76
964501	AG1-313 C O1	0.8118	Adder	1.8
964801	AG1-343 C	1.0422	Adder	2.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964931	AG1-357 C	13.7052	80/20	13.7052
964951	AG1-359 O1	11.5380	80/20	11.5380
965001	AG1-364 C O1	2.9772	80/20	2.9772
965181	AG1-383 C	1.1843	80/20	1.1843
965291	AG1-394 C	0.3567	Adder	0.79
965631	AG1-431	8.6069	Adder	19.11
965691	AG1-437 C O1	1.8935	Adder	4.2
965701	AG1-438 C O1	1.8935	Adder	4.2
965711	AG1-439 C O1	4.5559	Adder	10.11
965741	AG1-442 O1	1.1045	Adder	2.45
965751	AG1-443 O1	1.1045	Adder	2.45
965761	AG1-444 O1	2.4298	Adder	5.39
965811	AG1-449	16.8811	80/20	16.8811
966361	AG1-505 C	11.3373	80/20	11.3373
966371	AG1-506 C	11.3373	80/20	11.3373
966491	AG1-518 O1	1.6641	Adder	3.69
966621	AG1-532 C	0.2241	Adder	0.5
966751	AG1-546 C	2.5921	Adder	5.75
966801	AG1-551 C	0.4326	Adder	0.96
966811	AG1-552 C	0.3610	Adder	0.8
966931	AG1-431A	6.4665	Adder	14.35
WEC	WEC	0.3251	Confirmed LTF	0.3251
LGEE	LGEE	0.6660	Confirmed LTF	0.6660
CPL	CPL	4.1353	Confirmed LTF	4.1353
CBM-W2	CBM-W2	15.6442	Confirmed LTF	15.6442
NY	NY	0.5751	Confirmed LTF	0.5751
TVA	TVA	3.0310	Confirmed LTF	3.0310
SIGE	SIGE	0.2449	Confirmed LTF	0.2449
CBM-S2	CBM-S2	48.9010	Confirmed LTF	48.9010
CBM-S1	CBM-S1	0.7463	Confirmed LTF	0.7463
MEC	MEC	2.0307	Confirmed LTF	2.0307
LAGN	LAGN	3.7783	Confirmed LTF	3.7783
AA2-074	AA2-074	2.7301	LTF	2.7301
CBM-W1	CBM-W1	13.4452	Confirmed LTF	13.4452

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
163758596	314918	8NO ANNA	DVP	314934	8SPOTSYL	DVP	1	DVP_P4-2: 568T575	breaker	3938.0	118.98	119.28	DC	39.58

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.4278	50/50	0.4278
314435	6SAPONY	0.3939	50/50	0.3939
314466	6FENTRES	1.8729	Adder	2.2
314550	6HICKORY	3.4594	Adder	4.07
315102	1BRUNSWICKG1	8.8966	50/50	8.8966
315103	1BRUNSWICKG2	8.8966	50/50	8.8966
315104	1BRUNSWICKG3	8.8966	50/50	8.8966
315105	1BRUNSWICKS1	18.4825	50/50	18.4825
315153	1CLOVER1	12.6320	50/50	12.6320
315154	1CLOVER2	12.5061	50/50	12.5061
315177	1S ANNAG1	1.7698	50/50	1.7698
315178	1S ANNAS1	0.9095	50/50	0.9095
315179	1S ANNAG2	1.7698	50/50	1.7698
315180	1S ANNAS2	0.9095	50/50	0.9095
315225	1N ANNA1	90.4135	50/50	90.4135
315226	1N ANNA2	90.4517	50/50	90.4517
315241	1Z1-086 GT1	11.4369	50/50	11.4369
315242	1Z1-086 GT2	11.4369	50/50	11.4369
315243	1Z1-086 GT3	11.4369	50/50	11.4369
315244	1Z1-086 ST	19.8816	50/50	19.8816
923852	AB2-025 E	1.1216	50/50	1.1216
923862	AB2-026 E	1.2183	50/50	1.2183
925021	AB2-158 C	3.3057	50/50	3.3057
925022	AB2-158 E	9.3429	50/50	9.3429
926754	AC1-161 C	25.6817	Adder	30.21
926755	AC1-161 E	10.9628	Adder	12.9
933294	AC2-141 C	25.6817	Adder	30.21
933295	AC2-141 E	10.9628	Adder	12.9
933501	AC2-165 C	10.6943	50/50	10.6943
933502	AC2-165 E	8.0489	50/50	8.0489
933732	AC2-196 E	1.0061	Adder	1.18
934061	AD1-033 C	6.3432	Adder	7.46
934062	AD1-033 E	4.2288	Adder	4.98
934615	AD1-087 C	7.9141	50/50	7.9141
934616	AD1-087 E	3.3866	50/50	3.3866
935171	AD1-152 C O1	8.6928	50/50	8.6928
935172	AD1-152 E O1	5.7952	50/50	5.7952
937481	AD2-202 C O1	2.3181	50/50	2.3181
937482	AD2-202 E O1	1.3039	50/50	1.3039
938494	AE1-068_C1	34.2415	50/50	34.2415
938497	AE1-068_C2	34.2415	50/50	34.2415

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938498	AE1-068_E1	18.9285	50/50	18.9285
938499	AE1-068_E2	18.9285	50/50	18.9285
938504	AE1-069_C1	26.0958	50/50	26.0958
938507	AE1-069_C2	28.1376	50/50	28.1376
938508	AE1-069_E1	14.8451	50/50	14.8451
938509	AE1-069_E2	15.9935	50/50	15.9935
938551	AE1-074_C	0.4051	50/50	0.4051
938552	AE1-074_E	1.2936	50/50	1.2936
938561	AE1-075_C	0.3720	50/50	0.3720
938562	AE1-075_E	1.1594	50/50	1.1594
939231	AE1-154_C	3.4349	50/50	3.4349
939232	AE1-154_E	2.4044	50/50	2.4044
939414	AE1-173_C1	34.7004	50/50	34.7004
939415	AE1-173_C2	29.7432	50/50	29.7432
939416	AE1-173_C3	34.7004	50/50	34.7004
939423	AE1-173_E1	23.1336	50/50	23.1336
939424	AE1-173_E2	19.8288	50/50	19.8288
939425	AE1-173_E3	23.1336	50/50	23.1336
940471	AE2-031_C	37.3926	50/50	37.3926
940472	AE2-031_E	24.9284	50/50	24.9284
940481	AE2-033_C	13.5920	Adder	15.99
940482	AE2-033_E	9.1632	Adder	10.78
940541	AE2-040	2.8401	50/50	2.8401
940641	AE2-051_C O1	19.4481	50/50	19.4481
940642	AE2-051_E O1	12.9654	50/50	12.9654
941031	AE2-094_C	44.8215	50/50	44.8215
941032	AE2-094_E	20.0745	50/50	20.0745
941281	AE2-122_C O1	23.9646	Adder	28.19
941282	AE2-122_E O1	96.7029	Adder	113.77
941291	AE2-123_C O1	24.6282	Adder	28.97
941292	AE2-123_E O1	96.0393	Adder	112.99
941301	AE2-124_C O1	22.3999	Adder	26.35
941302	AE2-124_E O1	98.2880	Adder	115.63
942931	AE2-313_C	40.4325	50/50	40.4325
942932	AE2-313_E	26.9550	50/50	26.9550
944011	AF1-069_C	14.6449	50/50	14.6449
944012	AF1-069_E	5.6892	50/50	5.6892
944111	AF1-079_C	6.5263	50/50	6.5263
944112	AF1-079_E	8.8620	50/50	8.8620
944581	AF1-123_C O1	40.7456	Adder	47.94
944582	AF1-123_E O1	93.2960	Adder	109.76
944591	AF1-124_C O1	40.7456	Adder	47.94
944592	AF1-124_E O1	93.2960	Adder	109.76
944601	AF1-125_C O1	40.7456	Adder	47.94
944602	AF1-125_E O1	93.2960	Adder	109.76
945811	AF1-246_C O1	8.0182	50/50	8.0182
945812	AF1-246_E O1	11.0728	50/50	11.0728
946011	AF1-266	11.3776	Adder	13.39
946371	AF1-301_C	26.6844	50/50	26.6844
946372	AF1-301_E	17.9066	50/50	17.9066
957431	AF2-037_C	23.8617	50/50	23.8617
957432	AF2-037_E	15.9078	50/50	15.9078

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957481	AF2-042 C	57.2730	50/50	57.2730
957482	AF2-042 E	38.1820	50/50	38.1820
957691	AF2-063 C	38.0772	50/50	38.0772
957692	AF2-063 E	25.3848	50/50	25.3848
957911	AF2-085	4.6076	50/50	4.6076
958501	AF2-144 C	2.0043	50/50	2.0043
958502	AF2-144 E	1.3362	50/50	1.3362
959531	AF2-244 C (Withdrawn : 01/06/2021)	1.8471	50/50	1.8471
959532	AF2-244 E (Withdrawn : 01/06/2021)	1.1004	50/50	1.1004
959751	AF2-266	9.0675	50/50	9.0675
961811	AG1-023 C	6.7229	50/50	6.7229
961812	AG1-023 E	26.8914	50/50	26.8914
962841	AG1-133 C O1	54.3753	50/50	54.3753
962842	AG1-133 E O1	36.2502	50/50	36.2502
963041	AG1-153 C	6.2424	50/50	6.2424
963042	AG1-153 E	9.3636	50/50	9.3636
963111	AG1-160 C	6.3219	50/50	6.3219
963112	AG1-160 E	9.4829	50/50	9.4829
963291	AG1-178 C O1	69.1960	50/50	69.1960
963351	AG1-184 O1	37.2790	50/50	37.2790
963821	AG1-235 C O1	7.4435	Adder	16.52
963822	AG1-235 E O1	4.9623	Adder	11.02
964421	AG1-305 C O1	29.9541	50/50	29.9541
964422	AG1-305 E O1	19.9694	50/50	19.9694
964931	AG1-357 C	23.7456	50/50	23.7456
964932	AG1-357 E	15.8304	50/50	15.8304
964951	AG1-359 O1	12.0094	Adder	26.66
965181	AG1-383 C	1.2338	Adder	2.74
965182	AG1-383 E	0.3654	Adder	0.81
965811	AG1-449	26.2178	50/50	26.2178
966361	AG1-505 C	18.5121	50/50	18.5121
966362	AG1-505 E	12.3414	50/50	12.3414
966371	AG1-506 C	18.5121	50/50	18.5121
966372	AG1-506 E	12.3414	50/50	12.3414
WEC	WEC	0.7113	Confirmed LTF	0.7113
LGEE	LGEE	1.5305	Confirmed LTF	1.5305
CPL	CPL	8.2739	Confirmed LTF	8.2739
CBM-W2	CBM-W2	34.2451	Confirmed LTF	34.2451
NY	NY	2.6920	Confirmed LTF	2.6920
TVA	TVA	6.6738	Confirmed LTF	6.6738
O-066	O-066	36.6314	Confirmed LTF	36.6314
SIGE	SIGE	0.8456	Confirmed LTF	0.8456
CBM-S2	CBM-S2	100.2449	Confirmed LTF	100.2449
CBM-S1	CBM-S1	1.6507	Confirmed LTF	1.6507
G-007	G-007	5.7509	Confirmed LTF	5.7509
MEC	MEC	4.4540	Confirmed LTF	4.4540
LAGN	LAGN	8.2023	Confirmed LTF	8.2023
AA2-074	AA2-074	5.4630	LTF	5.4630
CBM-W1	CBM-W1	28.6569	Confirmed LTF	28.6569

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
163758644	314923	8SEPTA	DVP	314924	8SURREY	DVP	1	DVP_P4-2: 56372	breaker	3637.0	103.38	104.61	DC	51.87

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314466	6FENTRES	2.3789	50/50	2.3789
314550	6HICKORY	3.6843	Adder	4.33
315102	1BRUNSWICKG1	12.3217	50/50	12.3217
315103	1BRUNSWICKG2	12.3217	50/50	12.3217
315104	1BRUNSWICKG3	12.3217	50/50	12.3217
315105	1BRUNSWICKS1	25.5982	50/50	25.5982
315110	1ELIZAR3	3.3201	50/50	3.3201
315153	1CLOVER1	15.1542	50/50	15.1542
315154	1CLOVER2	15.0031	50/50	15.0031
315241	1Z1-086 GT1	15.9317	50/50	15.9317
315242	1Z1-086 GT2	15.9317	50/50	15.9317
315243	1Z1-086 GT3	15.9317	50/50	15.9317
315244	1Z1-086 ST	27.6953	50/50	27.6953
926754	AC1-161 C	92.8683	50/50	92.8683
926755	AC1-161 E	39.6429	50/50	39.6429
933294	AC2-141 C	92.8683	50/50	92.8683
933295	AC2-141 E	39.6429	50/50	39.6429
933731	AC2-196 C	0.3027	50/50	0.3027
933732	AC2-196 E	1.2779	50/50	1.2779
934061	AD1-033 C	8.0237	50/50	8.0237
934062	AD1-033 E	5.3491	50/50	5.3491
934615	AD1-087 C	9.4899	50/50	9.4899
934616	AD1-087 E	4.0609	50/50	4.0609
935171	AD1-152 C O1	10.4237	50/50	10.4237
935172	AD1-152 E O1	6.9491	50/50	6.9491
937481	AD2-202 C O1	2.7796	50/50	2.7796
937482	AD2-202 E O1	1.5636	50/50	1.5636
938494	AE1-068_C1	47.8959	50/50	47.8959
938497	AE1-068_C2	47.8959	50/50	47.8959
938498	AE1-068_E1	26.4766	50/50	26.4766
938499	AE1-068_E2	26.4766	50/50	26.4766
938504	AE1-069_C1	36.5020	50/50	36.5020
938507	AE1-069_C2	39.3579	50/50	39.3579
938508	AE1-069_E1	20.7648	50/50	20.7648
938509	AE1-069_E2	22.3712	50/50	22.3712
939414	AE1-173_C1	40.2343	50/50	40.2343
939415	AE1-173_C2	34.4866	50/50	34.4866
939416	AE1-173_C3	40.2343	50/50	40.2343
939423	AE1-173_E1	26.8229	50/50	26.8229
939424	AE1-173_E2	22.9910	50/50	22.9910
939425	AE1-173_E3	26.8229	50/50	26.8229

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	155.7163	Adder	183.2
940471	AE2-031 C	52.3479	50/50	52.3479
940472	AE2-031 E	34.8986	50/50	34.8986
940641	AE2-051 C O1	32.7339	50/50	32.7339
940642	AE2-051 E O1	21.8226	50/50	21.8226
941031	AE2-094 C	63.1691	50/50	63.1691
941032	AE2-094 E	28.2919	50/50	28.2919
941281	AE2-122 C O1	20.6667	Adder	24.31
941282	AE2-122 E O1	83.3951	Adder	98.11
941291	AE2-123 C O1	25.9329	Adder	30.51
941292	AE2-123 E O1	101.1273	Adder	118.97
941301	AE2-124 C O1	23.6041	Adder	27.77
941302	AE2-124 E O1	103.5718	Adder	121.85
941591	AE2-156 O1	15.9180	Adder	18.73
942931	AE2-313 C	56.5614	50/50	56.5614
942932	AE2-313 E	37.7076	50/50	37.7076
944011	AF1-069 C	20.6397	50/50	20.6397
944012	AF1-069 E	8.0181	50/50	8.0181
944581	AF1-123 C O1	58.0876	50/50	58.0876
944582	AF1-123 E O1	133.0044	50/50	133.0044
944591	AF1-124 C O1	58.0876	50/50	58.0876
944592	AF1-124 E O1	133.0044	50/50	133.0044
944601	AF1-125 C O1	58.0876	50/50	58.0876
944602	AF1-125 E O1	133.0044	50/50	133.0044
945811	AF1-246 C O1	10.1527	50/50	10.1527
945812	AF1-246 E O1	14.0203	50/50	14.0203
957481	AF2-042 C	72.5190	50/50	72.5190
957482	AF2-042 E	48.3460	50/50	48.3460
959751	AF2-266	10.8780	50/50	10.8780
962491	AG1-098 C O1	14.4503	50/50	14.4503
962492	AG1-098 E O1	9.6335	50/50	9.6335
962561	AG1-105 C O1	12.5100	50/50	12.5100
962562	AG1-105 E O1	8.3400	50/50	8.3400
963041	AG1-153 C	8.6457	50/50	8.6457
963042	AG1-153 E	12.9686	50/50	12.9686
963111	AG1-160 C	8.8065	50/50	8.8065
963112	AG1-160 E	13.2098	50/50	13.2098
963291	AG1-178 C O1	123.4609	50/50	123.4609
963351	AG1-184 O1	66.5140	50/50	66.5140
963821	AG1-235 C O1	11.4410	Adder	25.4
963822	AG1-235 E O1	7.6273	Adder	16.93
964931	AG1-357 C	31.1196	50/50	31.1196
964932	AG1-357 E	20.7464	50/50	20.7464
964951	AG1-359 O1	28.7820	50/50	28.7820
965001	AG1-364 C O1	3.3685	Adder	7.48
965002	AG1-364 E O1	5.0527	Adder	11.22
965181	AG1-383 C	1.3140	Adder	2.92
965182	AG1-383 E	0.3892	Adder	0.86
965811	AG1-449	36.7037	50/50	36.7037
966361	AG1-505 C	25.1145	50/50	25.1145
966362	AG1-505 E	16.7430	50/50	16.7430

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966371	AG1-506 C	25.1145	50/50	25.1145
966372	AG1-506 E	16.7430	50/50	16.7430
WEC	WEC	0.8448	Confirmed LTF	0.8448
LGEE	LGEE	1.7379	Confirmed LTF	1.7379
CPLE	CPLE	8.8595	Confirmed LTF	8.8595
CBM-W2	CBM-W2	37.6141	Confirmed LTF	37.6141
NY	NY	1.2420	Confirmed LTF	1.2420
TVA	TVA	7.1274	Confirmed LTF	7.1274
O-066	O-066	17.4240	Confirmed LTF	17.4240
SIGE	SIGE	0.5831	Confirmed LTF	0.5831
CBM-S2	CBM-S2	107.2084	Confirmed LTF	107.2084
CBM-S1	CBM-S1	1.7742	Confirmed LTF	1.7742
G-007	G-007	2.7394	Confirmed LTF	2.7394
MEC	MEC	5.0943	Confirmed LTF	5.0943
LAGN	LAGN	8.8620	Confirmed LTF	8.8620
AA2-074	AA2-074	5.8523	LTF	5.8523
CBM-W1	CBM-W1	35.2743	Confirmed LTF	35.2743

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
163758840	314924	8SURRY	DVP	314903	8CHCKAHM	DVP	1	DVP_P1-2: LN 563	single	2442.12	116.77	117.18	DC	25.49

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	6.1053	Adder	7.18
313526	AB2-022 C	0.5720	80/20	0.5720
314295	6BIRDNECK	0.0687	80/20	0.0687
314421	6WINCHST	0.1697	80/20	0.1697
314491	3PENDLTN	0.5120	80/20	0.5120
314507	3THOMPSN	0.5117	80/20	0.5117
314572	3EMPORIA	0.3703	Adder	0.44
314638	6ELIZ CT	0.3344	80/20	0.3344
314639	6TANGLEW	0.6092	80/20	0.6092
314643	3O INLET	0.6745	80/20	0.6745
315092	1YORKTN3	30.0855	80/20	30.0855
315098	1CHESPKA	0.6771	80/20	0.6771
315099	1CHESPKB (Deactivation : 31/05/2019)	4.6942	80/20	4.6942
315102	1BRUNSWICKG1	9.9710	80/20	9.9710
315103	1BRUNSWICKG2	9.9710	80/20	9.9710
315104	1BRUNSWICKG3	9.9710	80/20	9.9710
315105	1BRUNSWICKS1	20.7147	80/20	20.7147
315108	1ELIZAR1	5.0063	80/20	5.0063
315109	1ELIZAR2	4.9193	80/20	4.9193
315110	1ELIZAR3	5.0703	80/20	5.0703
315115	1S HAMPT1	1.9040	80/20	1.9040
315131	1EDGECEMA (Deactivation : 22/04/2019)	8.3849	Adder	9.86
315132	1EDGECEMB (Deactivation : 22/04/2019)	8.3849	Adder	9.86
315233	1SURRY 2	49.9936	80/20	49.9936
315241	1Z1-086 GT1	12.8523	80/20	12.8523
315242	1Z1-086 GT2	12.8523	80/20	12.8523
315243	1Z1-086 GT3	12.8523	80/20	12.8523
315244	1Z1-086 ST	22.3421	80/20	22.3421
315260	1GOSPORTA	0.5404	80/20	0.5404
315261	1GOSPORTB	0.6902	80/20	0.6902
315262	1GOSPORTC	0.5858	80/20	0.5858
315293	1DOMTR9	7.7818	Adder	9.16
315294	1DOMTR10	9.5366	Adder	11.22
315603	6AA1-139SOLA	3.5655	80/20	3.5655
315605	6W1-029WIND	1.6662	80/20	1.6662
315611	6Z1-036WIND	1.6105	80/20	1.6105
315614	AA2-178 C	2.1578	80/20	2.1578
316103	AB2-015 C	11.5320	80/20	11.5320

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-60.2921	Adder	-70.93
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-60.2921	Adder	-70.93
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-104.4496	Adder	-122.88
316140	AB2-099 C (Suspended)	0.6295	Adder	0.74
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.4081	80/20	0.4081
316258	AE1-162 C	0.4549	80/20	0.4549
923991	AB2-040 C O1	6.6493	Adder	7.82
925591	AC1-034 C	6.1792	Adder	7.27
926070	AC1-086 C	19.3835	Adder	22.8
926201	AC1-098 C	6.0114	Adder	7.07
926211	AC1-099 C	2.0144	Adder	2.37
926661	AC1-147 C	0.5726	80/20	0.5726
926754	AC1-161 C	57.0703	80/20	57.0703
927024	AC1-189 C	8.3745	Adder	9.85
927145	AC1-208 C	8.5840	Adder	10.1
932044	AC2-012 C	16.4183	80/20	16.4183
932591	AC2-079 C O1	5.6568	Adder	6.66
932631	AC2-084 C	8.5694	Adder	10.08
933294	AC2-141 C	57.0703	80/20	57.0703
933731	AC2-196 C	0.4613	80/20	0.4613
933991	AD1-023 C	17.8477	80/20	17.8477
934061	AD1-033 C	12.2665	80/20	12.2665
934331	AD1-057 C O1	9.1788	Adder	10.8
934521	AD1-076 C	74.9989	80/20	74.9989
934615	AD1-087 C	6.7882	Adder	7.99
935111	AD1-144 C	0.4039	80/20	0.4039
935171	AD1-152 C O1	7.4562	Adder	8.77
936401	AD2-051 C O1	9.6661	Adder	11.37
936661	AD2-085 C	4.4122	80/20	4.4122
937221	AD2-160 C O1	9.4684	80/20	9.4684
937481	AD2-202 C O1	1.9883	Adder	2.34
938494	AE1-068_C1	38.5514	80/20	38.5514
938497	AE1-068_C2	38.5514	80/20	38.5514
938504	AE1-069_C1	29.3805	80/20	29.3805
938507	AE1-069_C2	31.6792	80/20	31.6792
938535	AE1-072 C	28.2724	80/20	28.2724
938771	AE1-103 C	4.9986	80/20	4.9986
939414	AE1-173_C1	46.4822	80/20	46.4822
939415	AE1-173_C2	39.8419	80/20	39.8419
939416	AE1-173_C3	46.4822	80/20	46.4822
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	280.4105	80/20	280.4105
940471	AE2-031 C	42.0210	80/20	42.0210
940481	AE2-033 C	12.9142	Adder	15.19
940491	AE2-034 C	10.2577	80/20	10.2577
940541	AE2-040	2.2677	Adder	2.67
940571	AE2-044 C	4.0472	Adder	4.76
940641	AE2-051 C O1	24.3693	80/20	24.3693
940891	AE2-078 C	2.4080	Adder	2.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940901	AE2-079 C	2.4080	Adder	2.83
941031	AE2-094 C	50.6376	80/20	50.6376
941101	AE2-104 C O1	4.8623	80/20	4.8623
941281	AE2-122 C O1	46.1175	80/20	46.1175
941291	AE2-123 C O1	47.3946	80/20	47.3946
941301	AE2-124 C O1	43.1303	80/20	43.1303
941501	AE2-147 C	24.3720	80/20	24.3720
941591	AE2-156 O1	28.8830	80/20	28.8830
942131	AE2-225 C	3.3224	80/20	3.3224
942171	AE2-229 C	2.4918	80/20	2.4918
942341	AE2-247 C	1.9089	80/20	1.9089
942401	AE2-253 C	9.9591	80/20	9.9591
942471	AE2-260 C O1	12.3157	Adder	14.49
942931	AE2-313 C	45.4176	80/20	45.4176
943171	AE2-346 C	1.5107	Adder	1.78
943461	AF1-017 C	1.7271	80/20	1.7271
943611	AF1-032 C	2.7133	80/20	2.7133
943621	AF1-033 C	2.4080	Adder	2.83
944011	AF1-069 C	16.5452	80/20	16.5452
944141	AF1-082	2.6018	Adder	3.06
944581	AF1-123 C O1	80.8358	80/20	80.8358
944591	AF1-124 C O1	80.8358	80/20	80.8358
944601	AF1-125 C O1	80.8358	80/20	80.8358
944871	AF1-152 C	8.1240	80/20	8.1240
945361	AF1-201 C O1	14.6689	Adder	17.26
945711	AF1-236 C O1	112.2970	80/20	112.2970
945811	AF1-246 C O1	7.1414	Adder	8.4
946011	AF1-266	10.8102	Adder	12.72
946281	AF1-292 C	1.3075	Adder	1.54
957481	AF2-042 C	51.0102	Adder	60.01
957491	AF2-043 C	3.3224	80/20	3.3224
957521	AF2-046 C	18.0247	Adder	21.21
957531	AF2-047 C	24.3742	80/20	24.3742
957631	AF2-057	5.7608	80/20	5.7608
957821	AF2-076 C	8.1459	80/20	8.1459
957861	AF2-080 C	7.6060	Adder	8.95
957871	AF2-081 C	16.0810	80/20	16.0810
958161	AF2-110 C	2.0045	80/20	2.0045
959511	AF2-242 C	7.8761	Adder	9.27
959751	AF2-266	7.7779	Adder	9.15
960081	AF2-299 C	2.2037	Adder	2.59
961091	AF2-400 C	0.6227	80/20	0.6227
961611	AG1-000B C	7.9311	Adder	17.61
961671	AG1-007 C	0.6179	Adder	1.37
961681	AG1-008 C	9.5722	Adder	21.25
961851	AG1-027 C	24.1075	80/20	24.1075
961931	AG1-036 C	0.7736	Adder	1.72
961941	AG1-037 C	0.2860	Adder	0.63
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.1602	Adder	2.58
962331	AG1-082 C	1.1438	Adder	2.54
962341	AG1-083 C	1.1438	Adder	2.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962351	AG1-084 C	0.9991	Adder	2.22
962361	AG1-085 C	0.9991	Adder	2.22
962561	AG1-105 C O1	4.7935	Adder	10.64
962571	AG1-106 C	2.8569	Adder	6.34
963041	AG1-153 C	6.9963	80/20	6.9963
963111	AG1-160 C	7.1043	80/20	7.1043
963291	AG1-178 C O1	89.9044	80/20	89.9044
963351	AG1-184 O1	48.4356	80/20	48.4356
963821	AG1-235 C O1	39.2351	80/20	39.2351
964491	AG1-312 C O1	11.0766	Adder	24.59
964501	AG1-313 C O1	2.4178	Adder	5.37
964801	AG1-343 C	3.3623	Adder	7.46
964931	AG1-357 C	11.4845	Adder	25.49
964951	AG1-359 O1	43.8600	80/20	43.8600
965001	AG1-364 C O1	11.5480	80/20	11.5480
965181	AG1-383 C	4.4911	80/20	4.4911
965291	AG1-394 C	1.1534	Adder	2.56
965631	AG1-431	65.0140	80/20	65.0140
965691	AG1-437 C O1	13.5834	80/20	13.5834
965701	AG1-438 C O1	13.5834	80/20	13.5834
965711	AG1-439 C O1	12.2257	Adder	27.14
965741	AG1-442 O1	7.9237	80/20	7.9237
965751	AG1-443 O1	7.9237	80/20	7.9237
965761	AG1-444 O1	6.5204	Adder	14.47
965811	AG1-449	29.4630	80/20	29.4630
966361	AG1-505 C	20.3715	80/20	20.3715
966371	AG1-506 C	20.3715	80/20	20.3715
966491	AG1-518 O1	13.8435	80/20	13.8435
966611	AG1-531 C	8.1137	80/20	8.1137
966621	AG1-532 C	0.6307	Adder	1.4
966751	AG1-546 C	0.7131	Adder	1.58
966801	AG1-551 C	1.2570	Adder	2.79
966811	AG1-552 C	1.0450	Adder	2.32
966931	AG1-431A	48.8460	80/20	48.8460
WEC	WEC	0.6114	Confirmed LTF	0.6114
LGEE	LGEE	1.2692	Confirmed LTF	1.2692
CPL	CPL	8.7551	Confirmed LTF	8.7551
CBM-W2	CBM-W2	31.1718	Confirmed LTF	31.1718
NY	NY	1.6081	Confirmed LTF	1.6081
TVA	TVA	6.1376	Confirmed LTF	6.1376
SIGE	SIGE	0.5734	Confirmed LTF	0.5734
CBM-S2	CBM-S2	101.9362	Confirmed LTF	101.9362
CBM-S1	CBM-S1	1.5025	Confirmed LTF	1.5025
MEC	MEC	3.9280	Confirmed LTF	3.9280
LAGN	LAGN	7.6317	Confirmed LTF	7.6317
AA2-074	AA2-074	5.7789	LTF	5.7789
CBM-W1	CBM-W1	24.8995	Confirmed LTF	24.8995

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
163758860	314936	8RAWLINGS	DVP	942930	AE2-313 TAP	DVP	1	DVP_P1-2: LN 585-A	single	4070.2	118.27	119.48	DC	65.94

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4942	80/20	0.4942
314429	3JTRSVLE	0.4313	80/20	0.4313
315102	1BRUNSWICKG1	25.0893	80/20	25.0893
315103	1BRUNSWICKG2	25.0893	80/20	25.0893
315104	1BRUNSWICKG3	25.0893	80/20	25.0893
315105	1BRUNSWICKS1	52.1229	80/20	52.1229
315153	1CLOVER1	31.3838	80/20	31.3838
315154	1CLOVER2	31.0711	80/20	31.0711
315158	1KERR 1	0.3488	80/20	0.3488
315159	1KERR 2	0.9766	80/20	0.9766
315160	1KERR 3	0.9766	80/20	0.9766
315161	1KERR 4	0.9766	80/20	0.9766
315162	1KERR 5	0.9766	80/20	0.9766
315163	1KERR 6	0.9766	80/20	0.9766
315164	1KERR 7	0.9766	80/20	0.9766
315241	1Z1-086 GT1	31.8461	80/20	31.8461
315242	1Z1-086 GT2	31.8461	80/20	31.8461
315243	1Z1-086 GT3	31.8461	80/20	31.8461
315244	1Z1-086 ST	55.3604	80/20	55.3604
315266	1PLYWOOD A	1.8958	80/20	1.8958
316118	AC1-105 C	9.0500	80/20	9.0500
316123	AC1-075 C	1.3019	80/20	1.3019
316131	AB2-060 C	1.4248	80/20	1.4248
924301	AB2-077 C O1 (Suspended)	2.0178	80/20	2.0178
924311	AB2-078 C O1 (Suspended)	2.0178	80/20	2.0178
924321	AB2-079 C O1 (Suspended)	2.0178	80/20	2.0178
925611	AC1-036 C	0.2286	80/20	0.2286
926023	AC1-080 C	0.4351	80/20	0.4351
926754	AC1-161 C	-28.2995	Adder	-33.29
927251	AC1-221 C	3.9395	80/20	3.9395
927261	AC1-222 C	6.2210	80/20	6.2210
932761	AC2-100 C	9.0663	80/20	9.0663
934061	AD1-033 C	-6.3810	Adder	-7.51
934311	AD1-055 C	4.3194	80/20	4.3194
934341	AD1-058 C	9.8758	80/20	9.8758
934615	AD1-087 C	19.6445	80/20	19.6445
934625	AD1-088 C	24.9414	80/20	24.9414
934991	AD1-131 C	3.2380	80/20	3.2380
935171	AD1-152 C O1	21.5774	80/20	21.5774

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935221	AD1-157 C	0.2437	80/20	0.2437
936161	AD2-022 C O1	12.9708	80/20	12.9708
936171	AD2-023 C O1	7.5663	80/20	7.5663
936265	AD2-033 C	13.1048	80/20	13.1048
936361	AD2-046 C O1	8.2430	80/20	8.2430
936485	AD2-063 C	15.0120	80/20	15.0120
937481	AD2-202 C O1	5.7540	80/20	5.7540
938371	AE1-056 C	6.6596	80/20	6.6596
938494	AE1-068 C1	94.4684	80/20	94.4684
938497	AE1-068 C2	94.4684	80/20	94.4684
938504	AE1-069 C1	71.9954	80/20	71.9954
938507	AE1-069 C2	77.6283	80/20	77.6283
939181	AE1-148 C	8.1567	80/20	8.1567
940081	AE1-250 C	13.5486	80/20	13.5486
940661	AE2-053 O1	3.0210	80/20	3.0210
940891	AE2-078 C	-1.8903	Adder	-2.22
940901	AE2-079 C	-1.8903	Adder	-2.22
941031	AE2-094 C	121.5684	80/20	121.5684
941791	AE2-182 C	4.0521	80/20	4.0521
942131	AE2-225 C	-1.6921	Adder	-1.99
942171	AE2-229 C	-1.2691	Adder	-1.49
942451	AE2-258	2.3371	80/20	2.3371
942461	AE2-259 C O1	10.4340	80/20	10.4340
942751	AE2-291 C	11.6935	80/20	11.6935
942761	AE2-292 C O1	14.5595	80/20	14.5595
943611	AF1-032 C	-1.3819	Adder	-1.63
943621	AF1-033 C	-1.8903	Adder	-2.22
943811	AF1-049 C	10.8397	80/20	10.8397
943901	AF1-058 C	3.4489	80/20	3.4489
944011	AF1-069 C	39.7209	80/20	39.7209
945811	AF1-246 C O1	21.3272	80/20	21.3272
946301	AF1-294 C	4.3564	80/20	4.3564
957481	AF2-042 C	152.3370	80/20	152.3370
957491	AF2-043 C	-1.6921	Adder	-1.99
958211	AF2-115 C	2.5626	80/20	2.5626
958801	AF2-171 C	15.3693	80/20	15.3693
959311	AF2-222 C	16.8810	80/20	16.8810
959751	AF2-266	22.5280	80/20	22.5280
960061	AF2-297 C	13.7957	80/20	13.7957
961791	AG1-021 C	2.0501	80/20	2.0501
961891	AG1-030 C	15.3036	80/20	15.3036
962041	AG1-048 C	12.8130	80/20	12.8130
962441	AG1-093 C O1	24.1334	80/20	24.1334
962491	AG1-098 C O1	29.7495	80/20	29.7495
962561	AG1-105 C O1	25.6386	80/20	25.6386
963041	AG1-153 C	17.6043	80/20	17.6043
963111	AG1-160 C	17.6034	80/20	17.6034
963171	AG1-166 C	2.0501	80/20	2.0501
963181	AG1-167 C	2.0501	80/20	2.0501
963191	AG1-168 C	2.0501	80/20	2.0501
963201	AG1-169 C	2.0501	80/20	2.0501
963211	AG1-170 C	2.0501	80/20	2.0501

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963271	AG1-176 C O1	30.0378	80/20	30.0378
963321	AG1-181 C O1	16.9912	80/20	16.9912
963361	AG1-185 O1	8.2208	80/20	8.2208
963641	AG1-215 C	0.9567	80/20	0.9567
964111	AG1-272 C	2.5980	80/20	2.5980
964121	AG1-273 C	2.5980	80/20	2.5980
964131	AG1-274 C	2.5980	80/20	2.5980
964241	AG1-285 C O1	12.4868	80/20	12.4868
964261	AG1-287 C	2.5867	80/20	2.5867
964471	AG1-310 C	3.5542	80/20	3.5542
964791	AG1-342 C	5.9714	80/20	5.9714
964821	AG1-345 C	0.8199	80/20	0.8199
964841	AG1-347 C	18.7023	80/20	18.7023
964931	AG1-357 C	65.9376	80/20	65.9376
965191	AG1-384 C	2.5980	80/20	2.5980
965281	AG1-393 C	2.0501	80/20	2.0501
965591	AG1-427 C	11.8417	80/20	11.8417
965641	AG1-432 C O1	20.8680	80/20	20.8680
965831	AG1-451	3.4780	80/20	3.4780
966361	AG1-505 C	53.6580	80/20	53.6580
966371	AG1-506 C	53.6580	80/20	53.6580
966691	AG1-539 C	6.1142	80/20	6.1142
966701	AG1-540 C	3.0857	80/20	3.0857
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.0868	80/20	2.0868
WEC	WEC	1.5643	Confirmed LTF	1.5643
LGEE	LGEE	3.2188	Confirmed LTF	3.2188
CPL	CPL	14.9543	Confirmed LTF	14.9543
CBM-W2	CBM-W2	67.9078	Confirmed LTF	67.9078
NY	NY	2.1064	Confirmed LTF	2.1064
TVA	TVA	12.7736	Confirmed LTF	12.7736
SIGE	SIGE	1.0387	Confirmed LTF	1.0387
CBM-S2	CBM-S2	186.0199	Confirmed LTF	186.0199
CBM-S1	CBM-S1	3.1909	Confirmed LTF	3.1909
MEC	MEC	9.3274	Confirmed LTF	9.3274
LAGN	LAGN	15.8690	Confirmed LTF	15.8690
AA2-074	AA2-074	9.8797	LTF	9.8797
CBM-W1	CBM-W1	65.5435	Confirmed LTF	65.5435

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
163758689	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-C	single	718.0	185.22	193.79	DC	61.5

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

11.6.34 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
169706169	934620	AD1-088 TAP	DVP	963270	AG1-176 TAP	DVP	1	DVP_P1-2: LN 556-C	single	571.52	132.35	139.17	DC	39.02

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

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

11.6.35 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
163758892	938490	AE1-068_POI	DVP	941030	AE2-094 TAP	DVP	1	DVP_P1-2: LN 511-A	single	4070.2	117.36	118.5	DC	58.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4501	80/20	0.4501
314429	3JTRSVLE	0.3871	80/20	0.3871
315102	1BRUNSWICKG1	25.0620	80/20	25.0620
315103	1BRUNSWICKG2	25.0620	80/20	25.0620
315104	1BRUNSWICKG3	25.0620	80/20	25.0620
315105	1BRUNSWICKS1	52.0660	80/20	52.0660
315153	1CLOVER1	28.1358	80/20	28.1358
315154	1CLOVER2	27.8554	80/20	27.8554
315158	1KERR 1	0.3224	80/20	0.3224
315159	1KERR 2	0.9028	80/20	0.9028
315160	1KERR 3	0.9028	80/20	0.9028
315161	1KERR 4	0.9028	80/20	0.9028
315162	1KERR 5	0.9028	80/20	0.9028
315163	1KERR 6	0.9028	80/20	0.9028
315164	1KERR 7	0.9028	80/20	0.9028
315241	1Z1-086 GT1	33.3239	80/20	33.3239
315242	1Z1-086 GT2	33.3239	80/20	33.3239
315243	1Z1-086 GT3	33.3239	80/20	33.3239
315244	1Z1-086 ST	57.9294	80/20	57.9294
315266	1PLYWOOD A	1.7322	80/20	1.7322
316118	AC1-105 C	8.2617	80/20	8.2617
316123	AC1-075 C	1.1943	80/20	1.1943
316131	AB2-060 C	1.2970	80/20	1.2970
924301	AB2-077 C O1 (Suspended)	1.8391	80/20	1.8391
924311	AB2-078 C O1 (Suspended)	1.8391	80/20	1.8391
924321	AB2-079 C O1 (Suspended)	1.8391	80/20	1.8391
925611	AC1-036 C	0.2065	80/20	0.2065
926023	AC1-080 C	0.3991	80/20	0.3991
926051	AC1-083 C O1	4.7823	80/20	4.7823
926754	AC1-161 C	-27.1829	Adder	-31.98
927251	AC1-221 C	3.7078	80/20	3.7078
927261	AC1-222 C	5.6854	80/20	5.6854
932761	AC2-100 C	8.5331	80/20	8.5331
933941	AD1-017 C	0.9565	80/20	0.9565
934061	AD1-033 C	-6.1290	Adder	-7.21
934311	AD1-055 C	3.9475	80/20	3.9475
934341	AD1-058 C	9.2949	80/20	9.2949
934615	AD1-087 C	17.6137	80/20	17.6137
934625	AD1-088 C	22.3004	80/20	22.3004

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934991	AD1-131 C	3.0475	80/20	3.0475
935171	AD1-152 C O1	19.3469	80/20	19.3469
935221	AD1-157 C	0.2182	80/20	0.2182
936161	AD2-022 C O1	12.4158	80/20	12.4158
936171	AD2-023 C O1	7.2425	80/20	7.2425
936265	AD2-033 C	11.8583	80/20	11.8583
936361	AD2-046 C O1	7.5997	80/20	7.5997
936485	AD2-063 C	13.6305	80/20	13.6305
937481	AD2-202 C O1	5.1592	80/20	5.1592
938371	AE1-056 C	5.9632	80/20	5.9632
938494	AE1-068_C1	102.1448	80/20	102.1448
938497	AE1-068_C2	102.1448	80/20	102.1448
938504	AE1-069_C1	77.8458	80/20	77.8458
938507	AE1-069_C2	83.9364	80/20	83.9364
939181	AE1-148 C	7.5157	80/20	7.5157
940081	AE1-250 C	12.8997	80/20	12.8997
940471	AE2-031 C	97.1860	80/20	97.1860
940601	AE2-047 C O1	4.0999	80/20	4.0999
940661	AE2-053 O1	2.7836	80/20	2.7836
940891	AE2-078 C	-1.8176	Adder	-2.14
940901	AE2-079 C	-1.8176	Adder	-2.14
941791	AE2-182 C	3.6230	80/20	3.6230
942451	AE2-258	2.1285	80/20	2.1285
942461	AE2-259 C O1	9.2838	80/20	9.2838
942751	AE2-291 C	10.7516	80/20	10.7516
942761	AE2-292 C O1	13.3868	80/20	13.3868
942931	AE2-313 C	105.2289	80/20	105.2289
943621	AF1-033 C	-1.8176	Adder	-2.14
943811	AF1-049 C	10.3650	80/20	10.3650
943901	AF1-058 C	3.1495	80/20	3.1495
945811	AF1-246 C O1	19.0634	80/20	19.0634
946301	AF1-294 C	3.9099	80/20	3.9099
957481	AF2-042 C	136.1670	80/20	136.1670
958211	AF2-115 C	2.3000	80/20	2.3000
958801	AF2-171 C	13.7952	80/20	13.7952
959311	AF2-222 C	15.2380	80/20	15.2380
959751	AF2-266	20.1965	80/20	20.1965
960061	AF2-297 C	12.5981	80/20	12.5981
961791	AG1-021 C	1.8400	80/20	1.8400
961891	AG1-030 C	13.7664	80/20	13.7664
962041	AG1-048 C	11.4997	80/20	11.4997
962441	AG1-093 C O1	22.0312	80/20	22.0312
962491	AG1-098 C O1	26.6370	80/20	26.6370
962561	AG1-105 C O1	23.0550	80/20	23.0550
963041	AG1-153 C	17.5851	80/20	17.5851
963111	AG1-160 C	18.4203	80/20	18.4203
963171	AG1-166 C	1.8400	80/20	1.8400
963181	AG1-167 C	1.8400	80/20	1.8400
963191	AG1-168 C	1.8400	80/20	1.8400
963201	AG1-169 C	1.8400	80/20	1.8400
963211	AG1-170 C	1.8400	80/20	1.8400
963271	AG1-176 C O1	26.8427	80/20	26.8427

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O1	15.3697	80/20	15.3697
963361	AG1-185 O1	7.4363	80/20	7.4363
963641	AG1-215 C	0.8586	80/20	0.8586
964111	AG1-272 C	2.3474	80/20	2.3474
964121	AG1-273 C	2.3474	80/20	2.3474
964131	AG1-274 C	2.3474	80/20	2.3474
964241	AG1-285 C O1	11.3482	80/20	11.3482
964261	AG1-287 C	2.3621	80/20	2.3621
964471	AG1-310 C	3.2494	80/20	3.2494
964791	AG1-342 C	5.4487	80/20	5.4487
964821	AG1-345 C	0.7359	80/20	0.7359
964841	AG1-347 C	16.7126	80/20	16.7126
964931	AG1-357 C	58.8336	80/20	58.8336
965191	AG1-384 C	2.3474	80/20	2.3474
965281	AG1-393 C	1.8400	80/20	1.8400
965591	AG1-427 C	10.7596	80/20	10.7596
965641	AG1-432 C O1	18.5676	80/20	18.5676
965811	AG1-449	68.1419	80/20	68.1419
965831	AG1-451	3.0946	80/20	3.0946
966361	AG1-505 C	47.7945	80/20	47.7945
966371	AG1-506 C	47.7945	80/20	47.7945
966691	AG1-539 C	5.6218	80/20	5.6218
966701	AG1-540 C	2.9506	80/20	2.9506
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	1.8568	80/20	1.8568
WEC	WEC	1.5019	Confirmed LTF	1.5019
LGEE	LGEE	3.0894	Confirmed LTF	3.0894
CPL	CPL	14.5093	Confirmed LTF	14.5093
CBM-W2	CBM-W2	65.5334	Confirmed LTF	65.5334
NY	NY	2.0555	Confirmed LTF	2.0555
TVA	TVA	12.3466	Confirmed LTF	12.3466
SIGE	SIGE	1.0043	Confirmed LTF	1.0043
CBM-S2	CBM-S2	180.4972	Confirmed LTF	180.4972
CBM-S1	CBM-S1	3.0818	Confirmed LTF	3.0818
MEC	MEC	8.9747	Confirmed LTF	8.9747
LAGN	LAGN	15.3422	Confirmed LTF	15.3422
AA2-074	AA2-074	9.5854	LTF	9.5854
CBM-W1	CBM-W1	62.8797	Confirmed LTF	62.8797

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
163758576	939410	AE1-173_POI	DVP	314928	8SUFFOLK	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	118.85	120.46	DC	55.44

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3092	50/50	0.3092
314189	6PAPERMILL	-3.7784	Adder	-4.45
314435	6SAPONY	0.2570	50/50	0.2570
314539	3UNCAMP	-3.8616	Adder	-4.54
315102	1BRUNSWICKG1	13.2311	50/50	13.2311
315103	1BRUNSWICKG2	13.2311	50/50	13.2311
315104	1BRUNSWICKG3	13.2311	50/50	13.2311
315105	1BRUNSWICKS1	27.4875	50/50	27.4875
315153	1CLOVER1	15.9761	50/50	15.9761
315154	1CLOVER2	15.8169	50/50	15.8169
315241	1Z1-086 GT1	17.1480	50/50	17.1480
315242	1Z1-086 GT2	17.1480	50/50	17.1480
315243	1Z1-086 GT3	17.1480	50/50	17.1480
315244	1Z1-086 ST	29.8096	50/50	29.8096
315266	1PLYWOOD A	1.0198	50/50	1.0198
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-30.4816	Adder	-35.86
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-30.4816	Adder	-35.86
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-52.8061	Adder	-62.12
316118	AC1-105 C	4.8945	50/50	4.8945
316123	AC1-075 C	0.6875	50/50	0.6875
316131	AB2-060 C	0.8891	50/50	0.8891
316132	AB2-190 C	-11.2593	Adder	-13.25
923852	AB2-025 E	0.7319	50/50	0.7319
924022	AB2-043 E O1	1.7522	50/50	1.7522
924162	AB2-060 E OP	2.6519	50/50	2.6519
924301	AB2-077 C O1 (Suspended)	1.2522	50/50	1.2522
924302	AB2-077 E O1 (Suspended)	0.8348	50/50	0.8348
924311	AB2-078 C O1 (Suspended)	1.2522	50/50	1.2522
924312	AB2-078 E O1 (Suspended)	0.8348	50/50	0.8348
924321	AB2-079 C O1 (Suspended)	1.2522	50/50	1.2522
924322	AB2-079 E O1 (Suspended)	0.8348	50/50	0.8348
925863	AC1-065 C	-4.3013	Adder	-5.06
925997	AC1-075 E	2.4688	50/50	2.4688

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926023	AC1-080 C	0.2298	50/50	0.2298
926024	AC1-080 E	0.8191	50/50	0.8191
926274	AC1-105 E	2.4047	50/50	2.4047
926754	AC1-161 C	-33.7452	Adder	-39.7
927251	AC1-221 C	2.0468	50/50	2.0468
927252	AC1-221 E	2.0468	50/50	2.0468
927261	AC1-222 C	3.2852	50/50	3.2852
927262	AC1-222 E	3.1274	50/50	3.1274
932761	AC2-100 C	4.7104	50/50	4.7104
932762	AC2-100 E	2.2991	50/50	2.2991
934061	AD1-033 C	-9.0896	Adder	-10.69
934141	AD1-041 C	-3.1674	Adder	-3.73
934311	AD1-055 C	2.2810	50/50	2.2810
934312	AD1-055 E	0.5882	50/50	0.5882
934341	AD1-058 C	5.1310	50/50	5.1310
934342	AD1-058 E	1.3038	50/50	1.3038
934615	AD1-087 C	10.0012	50/50	10.0012
934616	AD1-087 E	4.2797	50/50	4.2797
934625	AD1-088 C	12.8934	50/50	12.8934
934626	AD1-088 E	3.3768	50/50	3.3768
934991	AD1-131 C	1.6823	50/50	1.6823
934992	AD1-131 E	1.1215	50/50	1.1215
935171	AD1-152 C O1	10.9853	50/50	10.9853
935172	AD1-152 E O1	7.3235	50/50	7.3235
936161	AD2-022 C O1	6.7644	50/50	6.7644
936162	AD2-022 E O1	4.0586	50/50	4.0586
936171	AD2-023 C O1	3.9459	50/50	3.9459
936172	AD2-023 E O1	2.1421	50/50	2.1421
936265	AD2-033 C	7.9856	50/50	7.9856
936266	AD2-033 E	5.3238	50/50	5.3238
936485	AD2-063 C	9.2745	50/50	9.2745
936486	AD2-063 E	6.1830	50/50	6.1830
937481	AD2-202 C O1	2.9294	50/50	2.9294
937482	AD2-202 E O1	1.6478	50/50	1.6478
938494	AE1-068_C1	51.6375	50/50	51.6375
938497	AE1-068_C2	51.6375	50/50	51.6375
938498	AE1-068_E1	28.5450	50/50	28.5450
938499	AE1-068_E2	28.5450	50/50	28.5450
938504	AE1-069_C1	39.3536	50/50	39.3536
938507	AE1-069_C2	42.4326	50/50	42.4326
938508	AE1-069_E1	22.3870	50/50	22.3870
938509	AE1-069_E2	24.1189	50/50	24.1189
939414	AE1-173_C1	83.2642	50/50	83.2642
939415	AE1-173_C2	71.3693	50/50	71.3693
939416	AE1-173_C3	83.2642	50/50	83.2642
939423	AE1-173_E1	55.5094	50/50	55.5094
939424	AE1-173_E2	47.5795	50/50	47.5795
939425	AE1-173_E3	55.5094	50/50	55.5094
939431	AE1-175 C	-1.8138	Adder	-2.13
940231	AE2-005 C	-0.7820	Adder	-0.92
940471	AE2-031 C	56.5831	50/50	56.5831
940472	AE2-031 E	37.7220	50/50	37.7220

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940481	AE2-033 C	10.0312	50/50	10.0312
940482	AE2-033 E	6.7626	50/50	6.7626
940541	AE2-040	1.8534	50/50	1.8534
940552	AE2-041 BAT	4.9116	50/50	4.9116
940891	AE2-078 C	-2.0105	Adder	-2.37
940901	AE2-079 C	-2.0105	Adder	-2.37
941031	AE2-094 C	68.3097	50/50	68.3097
941032	AE2-094 E	30.5943	50/50	30.5943
941791	AE2-182 C	2.0947	50/50	2.0947
941792	AE2-182 E	0.9751	50/50	0.9751
942131	AE2-225 C	-2.4492	Adder	-2.88
942171	AE2-229 C	-1.8369	Adder	-2.16
942451	AE2-258	1.4619	50/50	1.4619
942552	AE2-270 BAT	18.7365	50/50	18.7365
942931	AE2-313 C	61.1264	50/50	61.1264
942932	AE2-313 E	40.7509	50/50	40.7509
943472	AF1-018 BAT	4.9116	50/50	4.9116
943611	AF1-032 C	-2.0002	Adder	-2.35
943621	AF1-033 C	-2.0105	Adder	-2.37
943901	AF1-058 C	1.8214	50/50	1.8214
943902	AF1-058 E	1.2142	50/50	1.2142
944011	AF1-069 C	22.3193	50/50	22.3193
944012	AF1-069 E	8.6706	50/50	8.6706
945363	AF1-201 BAT	3.3658	50/50	3.3658
945811	AF1-246 C O1	10.7961	50/50	10.7961
945812	AF1-246 E O1	14.9089	50/50	14.9089
946011	AF1-266	8.3969	50/50	8.3969
957481	AF2-042 C	77.1150	50/50	77.1150
957482	AF2-042 E	51.4100	50/50	51.4100
957491	AF2-043 C	-2.4492	Adder	-2.88
957632	AF2-057 BAT	5.0526	50/50	5.0526
959751	AF2-266	11.4680	50/50	11.4680
960061	AF2-297 C	7.2854	50/50	7.2854
960062	AF2-297 E	4.8570	50/50	4.8570
961091	AF2-400 C	-0.2729	Adder	-0.32
961612	AG1-000B BAT	12.5580	50/50	12.5580
961691	AG1-009 BAT	7.8174	50/50	7.8174
961712	AG1-011 BAT	20.8464	50/50	20.8464
961853	AG1-028 BAT	21.3900	50/50	21.3900
962132	AG1-057 BAT	2.4558	50/50	2.4558
962441	AG1-093 C O1	13.0520	50/50	13.0520
962442	AG1-093 E O1	3.9724	50/50	3.9724
962491	AG1-098 C O1	15.2543	50/50	15.2543
962492	AG1-098 E O1	10.1695	50/50	10.1695
962561	AG1-105 C O1	13.0848	50/50	13.0848
962562	AG1-105 E O1	8.7232	50/50	8.7232
963041	AG1-153 C	9.2838	50/50	9.2838
963042	AG1-153 E	13.9257	50/50	13.9257
963111	AG1-160 C	9.4788	50/50	9.4788
963112	AG1-160 E	14.2182	50/50	14.2182
963271	AG1-176 C O1	15.5728	50/50	15.5728
963272	AG1-176 E O1	10.3819	50/50	10.3819

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O1	10.3395	50/50	10.3395
963352	AG1-184 BAT	70.8000	50/50	70.8000
963613	AG1-210 BAT	1.0459	50/50	1.0459
964241	AG1-285 C O1	7.7430	50/50	7.7430
964242	AG1-285 E O1	5.1620	50/50	5.1620
964261	AG1-287 C	1.3660	50/50	1.3660
964262	AG1-287 E	0.9107	50/50	0.9107
964471	AG1-310 C	1.8771	50/50	1.8771
964472	AG1-310 E	0.9245	50/50	0.9245
964791	AG1-342 C	3.3221	50/50	3.3221
964792	AG1-342 E	2.6102	50/50	2.6102
964841	AG1-347 C	9.6981	50/50	9.6981
964842	AG1-347 E	7.6199	50/50	7.6199
964931	AG1-357 C	33.2664	50/50	33.2664
964932	AG1-357 E	22.1776	50/50	22.1776
964952	AG1-359 BAT	38.2185	50/50	38.2185
965003	AG1-364 BAT	25.3380	50/50	25.3380
965183	AG1-383 BAT	2.1602	50/50	2.1602
965591	AG1-427 C	7.3382	50/50	7.3382
965592	AG1-427 E	4.9025	50/50	4.9025
965811	AG1-449	39.6732	50/50	39.6732
966361	AG1-505 C	26.9838	50/50	26.9838
966362	AG1-505 E	17.9892	50/50	17.9892
966371	AG1-506 C	26.9838	50/50	26.9838
966372	AG1-506 E	17.9892	50/50	17.9892
966492	AG1-518 BAT	12.0060	50/50	12.0060
966663	AG1-536 BAT	8.3655	50/50	8.3655
966932	AG1-431A BAT	28.2400	50/50	28.2400
WEC	WEC	0.8467	Confirmed LTF	0.8467
LGEE	LGEE	1.7372	Confirmed LTF	1.7372
CPL	CPL	7.7211	Confirmed LTF	7.7211
CBM-W2	CBM-W2	36.0461	Confirmed LTF	36.0461
NY	NY	0.9473	Confirmed LTF	0.9473
TVA	TVA	6.7368	Confirmed LTF	6.7368
O-066	O-066	13.6081	Confirmed LTF	13.6081
SIGE	SIGE	0.5209	Confirmed LTF	0.5209
CBM-S2	CBM-S2	96.6535	Confirmed LTF	96.6535
CBM-S1	CBM-S1	1.6872	Confirmed LTF	1.6872
G-007	G-007	2.1420	Confirmed LTF	2.1420
MEC	MEC	5.0053	Confirmed LTF	5.0053
LAGN	LAGN	8.3720	Confirmed LTF	8.3720
AA2-074	AA2-074	5.1021	LTF	5.1021
CBM-W1	CBM-W1	35.6248	Confirmed LTF	35.6248

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
163758799	940470	AE2-031 TAP	DVP	314902	8CARSON	DVP	1	DVP_P1-2: LN 585-A	single	4070.2	124.58	125.85	DC	65.94

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4942	80/20	0.4942
314429	3JTRSVLE	0.4313	80/20	0.4313
315102	1BRUNSWICKG1	25.0893	80/20	25.0893
315103	1BRUNSWICKG2	25.0893	80/20	25.0893
315104	1BRUNSWICKG3	25.0893	80/20	25.0893
315105	1BRUNSWICKS1	52.1229	80/20	52.1229
315153	1CLOVER1	31.3838	80/20	31.3838
315154	1CLOVER2	31.0711	80/20	31.0711
315158	1KERR 1	0.3488	80/20	0.3488
315159	1KERR 2	0.9766	80/20	0.9766
315160	1KERR 3	0.9766	80/20	0.9766
315161	1KERR 4	0.9766	80/20	0.9766
315162	1KERR 5	0.9766	80/20	0.9766
315163	1KERR 6	0.9766	80/20	0.9766
315164	1KERR 7	0.9766	80/20	0.9766
315241	1Z1-086 GT1	31.8461	80/20	31.8461
315242	1Z1-086 GT2	31.8461	80/20	31.8461
315243	1Z1-086 GT3	31.8461	80/20	31.8461
315244	1Z1-086 ST	55.3604	80/20	55.3604
315266	1PLYWOOD A	1.8958	80/20	1.8958
316118	AC1-105 C	9.0500	80/20	9.0500
316123	AC1-075 C	1.3019	80/20	1.3019
316131	AB2-060 C	1.4248	80/20	1.4248
924301	AB2-077 C O1 (Suspended)	2.0178	80/20	2.0178
924311	AB2-078 C O1 (Suspended)	2.0178	80/20	2.0178
924321	AB2-079 C O1 (Suspended)	2.0178	80/20	2.0178
925611	AC1-036 C	0.2286	80/20	0.2286
926023	AC1-080 C	0.4351	80/20	0.4351
926754	AC1-161 C	-28.2995	Adder	-33.29
927251	AC1-221 C	3.9395	80/20	3.9395
927261	AC1-222 C	6.2210	80/20	6.2210
932761	AC2-100 C	9.0663	80/20	9.0663
934061	AD1-033 C	-6.3810	Adder	-7.51
934311	AD1-055 C	4.3194	80/20	4.3194
934341	AD1-058 C	9.8758	80/20	9.8758
934615	AD1-087 C	19.6445	80/20	19.6445
934625	AD1-088 C	24.9414	80/20	24.9414
934991	AD1-131 C	3.2380	80/20	3.2380
935171	AD1-152 C O1	21.5774	80/20	21.5774

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935221	AD1-157 C	0.2437	80/20	0.2437
936161	AD2-022 C O1	12.9708	80/20	12.9708
936171	AD2-023 C O1	7.5663	80/20	7.5663
936265	AD2-033 C	13.1048	80/20	13.1048
936361	AD2-046 C O1	8.2430	80/20	8.2430
936485	AD2-063 C	15.0120	80/20	15.0120
937481	AD2-202 C O1	5.7540	80/20	5.7540
938371	AE1-056 C	6.6596	80/20	6.6596
938494	AE1-068 C1	94.4684	80/20	94.4684
938497	AE1-068 C2	94.4684	80/20	94.4684
938504	AE1-069 C1	71.9954	80/20	71.9954
938507	AE1-069 C2	77.6283	80/20	77.6283
939181	AE1-148 C	8.1567	80/20	8.1567
940081	AE1-250 C	13.5486	80/20	13.5486
940471	AE2-031 C	115.3359	80/20	115.3359
940661	AE2-053 O1	3.0210	80/20	3.0210
941031	AE2-094 C	121.5684	80/20	121.5684
941791	AE2-182 C	4.0521	80/20	4.0521
942451	AE2-258	2.3371	80/20	2.3371
942461	AE2-259 C O1	10.4340	80/20	10.4340
942751	AE2-291 C	11.6935	80/20	11.6935
942761	AE2-292 C O1	14.5595	80/20	14.5595
942931	AE2-313 C	124.3911	80/20	124.3911
943811	AF1-049 C	10.8397	80/20	10.8397
943901	AF1-058 C	3.4489	80/20	3.4489
944011	AF1-069 C	39.7209	80/20	39.7209
945811	AF1-246 C O1	21.3272	80/20	21.3272
946301	AF1-294 C	4.3564	80/20	4.3564
957481	AF2-042 C	152.3370	80/20	152.3370
958211	AF2-115 C	2.5626	80/20	2.5626
958801	AF2-171 C	15.3693	80/20	15.3693
959311	AF2-222 C	16.8810	80/20	16.8810
959751	AF2-266	22.5280	80/20	22.5280
960061	AF2-297 C	13.7957	80/20	13.7957
961791	AG1-021 C	2.0501	80/20	2.0501
961891	AG1-030 C	15.3036	80/20	15.3036
962041	AG1-048 C	12.8130	80/20	12.8130
962441	AG1-093 C O1	24.1334	80/20	24.1334
962491	AG1-098 C O1	29.7495	80/20	29.7495
962561	AG1-105 C O1	25.6386	80/20	25.6386
963041	AG1-153 C	17.6043	80/20	17.6043
963111	AG1-160 C	17.6034	80/20	17.6034
963171	AG1-166 C	2.0501	80/20	2.0501
963181	AG1-167 C	2.0501	80/20	2.0501
963191	AG1-168 C	2.0501	80/20	2.0501
963201	AG1-169 C	2.0501	80/20	2.0501
963211	AG1-170 C	2.0501	80/20	2.0501
963271	AG1-176 C O1	30.0378	80/20	30.0378
963321	AG1-181 C O1	16.9912	80/20	16.9912
963361	AG1-185 O1	8.2208	80/20	8.2208
963641	AG1-215 C	0.9567	80/20	0.9567
964111	AG1-272 C	2.5980	80/20	2.5980

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964121	AG1-273 C	2.5980	80/20	2.5980
964131	AG1-274 C	2.5980	80/20	2.5980
964241	AG1-285 C O1	12.4868	80/20	12.4868
964261	AG1-287 C	2.5867	80/20	2.5867
964471	AG1-310 C	3.5542	80/20	3.5542
964791	AG1-342 C	5.9714	80/20	5.9714
964821	AG1-345 C	0.8199	80/20	0.8199
964841	AG1-347 C	18.7023	80/20	18.7023
964931	AG1-357 C	65.9376	80/20	65.9376
965191	AG1-384 C	2.5980	80/20	2.5980
965281	AG1-393 C	2.0501	80/20	2.0501
965591	AG1-427 C	11.8417	80/20	11.8417
965641	AG1-432 C O1	20.8680	80/20	20.8680
965811	AG1-449	80.8677	80/20	80.8677
965831	AG1-451	3.4780	80/20	3.4780
966361	AG1-505 C	53.6580	80/20	53.6580
966371	AG1-506 C	53.6580	80/20	53.6580
966691	AG1-539 C	6.1142	80/20	6.1142
966701	AG1-540 C	3.0857	80/20	3.0857
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.0868	80/20	2.0868
WEC	WEC	1.5643	Confirmed LTF	1.5643
LGEE	LGEE	3.2188	Confirmed LTF	3.2188
CPL	CPL	14.9543	Confirmed LTF	14.9543
CBM-W2	CBM-W2	67.9078	Confirmed LTF	67.9078
NY	NY	2.1064	Confirmed LTF	2.1064
TVA	TVA	12.7736	Confirmed LTF	12.7736
SIGE	SIGE	1.0387	Confirmed LTF	1.0387
CBM-S2	CBM-S2	186.0199	Confirmed LTF	186.0199
CBM-S1	CBM-S1	3.1909	Confirmed LTF	3.1909
MEC	MEC	9.3274	Confirmed LTF	9.3274
LAGN	LAGN	15.8690	Confirmed LTF	15.8690
AA2-074	AA2-074	9.8797	LTF	9.8797
CBM-W1	CBM-W1	65.5435	Confirmed LTF	65.5435

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
163758852	941030	AE2-094 TAP	DVP	314902	8CARSON	DVP	1	DVP_P1-2: LN 511-A	single	4070.2	121.95	123.08	DC	58.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4501	80/20	0.4501
314429	3JTRSVLE	0.3871	80/20	0.3871
315102	1BRUNSWICKG1	25.0620	80/20	25.0620
315103	1BRUNSWICKG2	25.0620	80/20	25.0620
315104	1BRUNSWICKG3	25.0620	80/20	25.0620
315105	1BRUNSWICKS1	52.0660	80/20	52.0660
315153	1CLOVER1	28.1358	80/20	28.1358
315154	1CLOVER2	27.8554	80/20	27.8554
315158	1KERR 1	0.3224	80/20	0.3224
315159	1KERR 2	0.9028	80/20	0.9028
315160	1KERR 3	0.9028	80/20	0.9028
315161	1KERR 4	0.9028	80/20	0.9028
315162	1KERR 5	0.9028	80/20	0.9028
315163	1KERR 6	0.9028	80/20	0.9028
315164	1KERR 7	0.9028	80/20	0.9028
315241	1Z1-086 GT1	33.3239	80/20	33.3239
315242	1Z1-086 GT2	33.3239	80/20	33.3239
315243	1Z1-086 GT3	33.3239	80/20	33.3239
315244	1Z1-086 ST	57.9294	80/20	57.9294
315266	1PLYWOOD A	1.7322	80/20	1.7322
316118	AC1-105 C	8.2617	80/20	8.2617
316123	AC1-075 C	1.1943	80/20	1.1943
316131	AB2-060 C	1.2970	80/20	1.2970
924301	AB2-077 C O1 (Suspended)	1.8391	80/20	1.8391
924311	AB2-078 C O1 (Suspended)	1.8391	80/20	1.8391
924321	AB2-079 C O1 (Suspended)	1.8391	80/20	1.8391
925611	AC1-036 C	0.2065	80/20	0.2065
926023	AC1-080 C	0.3991	80/20	0.3991
926051	AC1-083 C O1	4.7823	80/20	4.7823
926754	AC1-161 C	-27.1829	Adder	-31.98
927251	AC1-221 C	3.7078	80/20	3.7078
927261	AC1-222 C	5.6854	80/20	5.6854
932761	AC2-100 C	8.5331	80/20	8.5331
933941	AD1-017 C	0.9565	80/20	0.9565
934061	AD1-033 C	-6.1290	Adder	-7.21
934311	AD1-055 C	3.9475	80/20	3.9475
934341	AD1-058 C	9.2949	80/20	9.2949
934615	AD1-087 C	17.6137	80/20	17.6137
934625	AD1-088 C	22.3004	80/20	22.3004

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934991	AD1-131 C	3.0475	80/20	3.0475
935171	AD1-152 C O1	19.3469	80/20	19.3469
935221	AD1-157 C	0.2182	80/20	0.2182
936161	AD2-022 C O1	12.4158	80/20	12.4158
936171	AD2-023 C O1	7.2425	80/20	7.2425
936265	AD2-033 C	11.8583	80/20	11.8583
936361	AD2-046 C O1	7.5997	80/20	7.5997
936485	AD2-063 C	13.6305	80/20	13.6305
937481	AD2-202 C O1	5.1592	80/20	5.1592
938371	AE1-056 C	5.9632	80/20	5.9632
938494	AE1-068_C1	102.1448	80/20	102.1448
938497	AE1-068_C2	102.1448	80/20	102.1448
938504	AE1-069_C1	77.8458	80/20	77.8458
938507	AE1-069_C2	83.9364	80/20	83.9364
939181	AE1-148 C	7.5157	80/20	7.5157
940081	AE1-250 C	12.8997	80/20	12.8997
940471	AE2-031 C	97.1860	80/20	97.1860
940601	AE2-047 C O1	4.0999	80/20	4.0999
940661	AE2-053 O1	2.7836	80/20	2.7836
941031	AE2-094 C	139.3938	80/20	139.3938
941791	AE2-182 C	3.6230	80/20	3.6230
942451	AE2-258	2.1285	80/20	2.1285
942461	AE2-259 C O1	9.2838	80/20	9.2838
942751	AE2-291 C	10.7516	80/20	10.7516
942761	AE2-292 C O1	13.3868	80/20	13.3868
942931	AE2-313 C	105.2289	80/20	105.2289
943811	AF1-049 C	10.3650	80/20	10.3650
943901	AF1-058 C	3.1495	80/20	3.1495
944011	AF1-069 C	45.5452	80/20	45.5452
945811	AF1-246 C O1	19.0634	80/20	19.0634
946301	AF1-294 C	3.9099	80/20	3.9099
957481	AF2-042 C	136.1670	80/20	136.1670
958211	AF2-115 C	2.3000	80/20	2.3000
958801	AF2-171 C	13.7952	80/20	13.7952
959311	AF2-222 C	15.2380	80/20	15.2380
959751	AF2-266	20.1965	80/20	20.1965
960061	AF2-297 C	12.5981	80/20	12.5981
961791	AG1-021 C	1.8400	80/20	1.8400
961891	AG1-030 C	13.7664	80/20	13.7664
962041	AG1-048 C	11.4997	80/20	11.4997
962441	AG1-093 C O1	22.0312	80/20	22.0312
962491	AG1-098 C O1	26.6370	80/20	26.6370
962561	AG1-105 C O1	23.0550	80/20	23.0550
963041	AG1-153 C	17.5851	80/20	17.5851
963111	AG1-160 C	18.4203	80/20	18.4203
963171	AG1-166 C	1.8400	80/20	1.8400
963181	AG1-167 C	1.8400	80/20	1.8400
963191	AG1-168 C	1.8400	80/20	1.8400
963201	AG1-169 C	1.8400	80/20	1.8400
963211	AG1-170 C	1.8400	80/20	1.8400
963271	AG1-176 C O1	26.8427	80/20	26.8427
963321	AG1-181 C O1	15.3697	80/20	15.3697

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O1	7.4363	80/20	7.4363
963641	AG1-215 C	0.8586	80/20	0.8586
964111	AG1-272 C	2.3474	80/20	2.3474
964121	AG1-273 C	2.3474	80/20	2.3474
964131	AG1-274 C	2.3474	80/20	2.3474
964241	AG1-285 C O1	11.3482	80/20	11.3482
964261	AG1-287 C	2.3621	80/20	2.3621
964471	AG1-310 C	3.2494	80/20	3.2494
964791	AG1-342 C	5.4487	80/20	5.4487
964821	AG1-345 C	0.7359	80/20	0.7359
964841	AG1-347 C	16.7126	80/20	16.7126
964931	AG1-357 C	58.8336	80/20	58.8336
965191	AG1-384 C	2.3474	80/20	2.3474
965281	AG1-393 C	1.8400	80/20	1.8400
965591	AG1-427 C	10.7596	80/20	10.7596
965641	AG1-432 C O1	18.5676	80/20	18.5676
965811	AG1-449	68.1419	80/20	68.1419
965831	AG1-451	3.0946	80/20	3.0946
966361	AG1-505 C	47.7945	80/20	47.7945
966371	AG1-506 C	47.7945	80/20	47.7945
966691	AG1-539 C	5.6218	80/20	5.6218
966701	AG1-540 C	2.9506	80/20	2.9506
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	1.8568	80/20	1.8568
WEC	WEC	1.5019	Confirmed LTF	1.5019
LGEE	LGEE	3.0894	Confirmed LTF	3.0894
CPL	CPL	14.5093	Confirmed LTF	14.5093
CBM-W2	CBM-W2	65.5334	Confirmed LTF	65.5334
NY	NY	2.0555	Confirmed LTF	2.0555
TVA	TVA	12.3466	Confirmed LTF	12.3466
SIGE	SIGE	1.0043	Confirmed LTF	1.0043
CBM-S2	CBM-S2	180.4972	Confirmed LTF	180.4972
CBM-S1	CBM-S1	3.0818	Confirmed LTF	3.0818
MEC	MEC	8.9747	Confirmed LTF	8.9747
LAGN	LAGN	15.3422	Confirmed LTF	15.3422
AA2-074	AA2-074	9.5854	LTF	9.5854
CBM-W1	CBM-W1	62.8797	Confirmed LTF	62.8797

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
163758833	942930	AE2-313 TAP	DVP	940470	AE2-031 TAP	DVP	1	DVP_P1-2: LN 585-A	single	4070.2	121.46	122.67	DC	65.94

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4942	80/20	0.4942
314429	3JTRSVLE	0.4313	80/20	0.4313
315102	1BRUNSWICKG1	25.0893	80/20	25.0893
315103	1BRUNSWICKG2	25.0893	80/20	25.0893
315104	1BRUNSWICKG3	25.0893	80/20	25.0893
315105	1BRUNSWICKS1	52.1229	80/20	52.1229
315153	1CLOVER1	31.3838	80/20	31.3838
315154	1CLOVER2	31.0711	80/20	31.0711
315158	1KERR 1	0.3488	80/20	0.3488
315159	1KERR 2	0.9766	80/20	0.9766
315160	1KERR 3	0.9766	80/20	0.9766
315161	1KERR 4	0.9766	80/20	0.9766
315162	1KERR 5	0.9766	80/20	0.9766
315163	1KERR 6	0.9766	80/20	0.9766
315164	1KERR 7	0.9766	80/20	0.9766
315241	1Z1-086 GT1	31.8461	80/20	31.8461
315242	1Z1-086 GT2	31.8461	80/20	31.8461
315243	1Z1-086 GT3	31.8461	80/20	31.8461
315244	1Z1-086 ST	55.3604	80/20	55.3604
315266	1PLYWOOD A	1.8958	80/20	1.8958
316118	AC1-105 C	9.0500	80/20	9.0500
316123	AC1-075 C	1.3019	80/20	1.3019
316131	AB2-060 C	1.4248	80/20	1.4248
924301	AB2-077 C O1 (Suspended)	2.0178	80/20	2.0178
924311	AB2-078 C O1 (Suspended)	2.0178	80/20	2.0178
924321	AB2-079 C O1 (Suspended)	2.0178	80/20	2.0178
925611	AC1-036 C	0.2286	80/20	0.2286
926023	AC1-080 C	0.4351	80/20	0.4351
926754	AC1-161 C	-28.2995	Adder	-33.29
927251	AC1-221 C	3.9395	80/20	3.9395
927261	AC1-222 C	6.2210	80/20	6.2210
932761	AC2-100 C	9.0663	80/20	9.0663
934061	AD1-033 C	-6.3810	Adder	-7.51
934311	AD1-055 C	4.3194	80/20	4.3194
934341	AD1-058 C	9.8758	80/20	9.8758
934615	AD1-087 C	19.6445	80/20	19.6445
934625	AD1-088 C	24.9414	80/20	24.9414
934991	AD1-131 C	3.2380	80/20	3.2380
935171	AD1-152 C O1	21.5774	80/20	21.5774

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935221	AD1-157 C	0.2437	80/20	0.2437
936161	AD2-022 C O1	12.9708	80/20	12.9708
936171	AD2-023 C O1	7.5663	80/20	7.5663
936265	AD2-033 C	13.1048	80/20	13.1048
936361	AD2-046 C O1	8.2430	80/20	8.2430
936485	AD2-063 C	15.0120	80/20	15.0120
937481	AD2-202 C O1	5.7540	80/20	5.7540
938371	AE1-056 C	6.6596	80/20	6.6596
938494	AE1-068 C1	94.4684	80/20	94.4684
938497	AE1-068 C2	94.4684	80/20	94.4684
938504	AE1-069 C1	71.9954	80/20	71.9954
938507	AE1-069 C2	77.6283	80/20	77.6283
939181	AE1-148 C	8.1567	80/20	8.1567
940081	AE1-250 C	13.5486	80/20	13.5486
940661	AE2-053 O1	3.0210	80/20	3.0210
940891	AE2-078 C	-1.8903	Adder	-2.22
940901	AE2-079 C	-1.8903	Adder	-2.22
941031	AE2-094 C	121.5684	80/20	121.5684
941791	AE2-182 C	4.0521	80/20	4.0521
942451	AE2-258	2.3371	80/20	2.3371
942461	AE2-259 C O1	10.4340	80/20	10.4340
942751	AE2-291 C	11.6935	80/20	11.6935
942761	AE2-292 C O1	14.5595	80/20	14.5595
942931	AE2-313 C	124.3911	80/20	124.3911
943621	AF1-033 C	-1.8903	Adder	-2.22
943811	AF1-049 C	10.8397	80/20	10.8397
943901	AF1-058 C	3.4489	80/20	3.4489
944011	AF1-069 C	39.7209	80/20	39.7209
945811	AF1-246 C O1	21.3272	80/20	21.3272
946301	AF1-294 C	4.3564	80/20	4.3564
957481	AF2-042 C	152.3370	80/20	152.3370
958211	AF2-115 C	2.5626	80/20	2.5626
958801	AF2-171 C	15.3693	80/20	15.3693
959311	AF2-222 C	16.8810	80/20	16.8810
959751	AF2-266	22.5280	80/20	22.5280
960061	AF2-297 C	13.7957	80/20	13.7957
961791	AG1-021 C	2.0501	80/20	2.0501
961891	AG1-030 C	15.3036	80/20	15.3036
962041	AG1-048 C	12.8130	80/20	12.8130
962441	AG1-093 C O1	24.1334	80/20	24.1334
962491	AG1-098 C O1	29.7495	80/20	29.7495
962561	AG1-105 C O1	25.6386	80/20	25.6386
963041	AG1-153 C	17.6043	80/20	17.6043
963111	AG1-160 C	17.6034	80/20	17.6034
963171	AG1-166 C	2.0501	80/20	2.0501
963181	AG1-167 C	2.0501	80/20	2.0501
963191	AG1-168 C	2.0501	80/20	2.0501
963201	AG1-169 C	2.0501	80/20	2.0501
963211	AG1-170 C	2.0501	80/20	2.0501
963271	AG1-176 C O1	30.0378	80/20	30.0378
963321	AG1-181 C O1	16.9912	80/20	16.9912
963361	AG1-185 O1	8.2208	80/20	8.2208

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963641	AG1-215 C	0.9567	80/20	0.9567
964111	AG1-272 C	2.5980	80/20	2.5980
964121	AG1-273 C	2.5980	80/20	2.5980
964131	AG1-274 C	2.5980	80/20	2.5980
964241	AG1-285 C O1	12.4868	80/20	12.4868
964261	AG1-287 C	2.5867	80/20	2.5867
964471	AG1-310 C	3.5542	80/20	3.5542
964791	AG1-342 C	5.9714	80/20	5.9714
964821	AG1-345 C	0.8199	80/20	0.8199
964841	AG1-347 C	18.7023	80/20	18.7023
964931	AG1-357 C	65.9376	80/20	65.9376
965191	AG1-384 C	2.5980	80/20	2.5980
965281	AG1-393 C	2.0501	80/20	2.0501
965591	AG1-427 C	11.8417	80/20	11.8417
965641	AG1-432 C O1	20.8680	80/20	20.8680
965831	AG1-451	3.4780	80/20	3.4780
966361	AG1-505 C	53.6580	80/20	53.6580
966371	AG1-506 C	53.6580	80/20	53.6580
966691	AG1-539 C	6.1142	80/20	6.1142
966701	AG1-540 C	3.0857	80/20	3.0857
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.0868	80/20	2.0868
WEC	WEC	1.5643	Confirmed LTF	1.5643
LGEE	LGEE	3.2188	Confirmed LTF	3.2188
CPL	CPL	14.9543	Confirmed LTF	14.9543
CBM-W2	CBM-W2	67.9078	Confirmed LTF	67.9078
NY	NY	2.1064	Confirmed LTF	2.1064
TVA	TVA	12.7736	Confirmed LTF	12.7736
SIGE	SIGE	1.0387	Confirmed LTF	1.0387
CBM-S2	CBM-S2	186.0199	Confirmed LTF	186.0199
CBM-S1	CBM-S1	3.1909	Confirmed LTF	3.1909
MEC	MEC	9.3274	Confirmed LTF	9.3274
LAGN	LAGN	15.8690	Confirmed LTF	15.8690
AA2-074	AA2-074	9.8797	LTF	9.8797
CBM-W1	CBM-W1	65.5435	Confirmed LTF	65.5435

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
169993943	961060	AF2-397 TAP	DVP	966790	AG1-550 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	157.52	158.7	DC	7.83

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

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

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

11.6.41 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
169706183	962490	AG1-098 TAP	DVP	934620	AD1-088 TAP	DVP	1	DVP_P1-2: LN 556-C	single	571.52	125.6	132.43	DC	39.02

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

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

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
169215348	962560	AG1-105 TAP	DVP	314697	6SEEDGE HILL	DVP	1	DVP_P1-2: LN 556-C	single	814.98	145.91	155.78	DC	80.42

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

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

11.6.43 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
169993984	963270	AG1-176 TAP	DVP	964840	AG1-347 TAP	DVP	1	DVP_P1-2: LN 556-C	single	571.52	140.02	146.85	DC	39.02

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964931	AG1-357 C	39.0228	80/20	39.0228
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734

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

11.6.44 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
168784091	964840	AG1-347 TAP	DVP	314268	6BRIERY	DVP	1	DVP_P1-2: LN 556-C	single	571.52	144.83	151.66	DC	39.02

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964841	AG1-347 C	27.5044	80/20	27.5044
964931	AG1-357 C	39.0228	80/20	39.0228
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

11.6.45 Index 45

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169993953	966790	AG1-550 TAP	DVP	314765	6MTEAGLE	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	157.49	158.67	DC	7.83

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

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

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

11.7 Queue Dependencies

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

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA1-139	Hickory-Shawboro 230kV	In Service
AA2-053	Carolina-Jackson 115kV	In Service
AA2-074	CPLP-PJM	Confirmed
AA2-088	Boykins-Handsome 115kV	In Service
AA2-165	Hornertown-Whitakers 115kV	In Service
AA2-178	Mackeys 230kV	Partially in Service - Under Construction
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
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
AB2-026	Powhatan 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
AB2-068	Chickahominy 500kV	Withdrawn
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
AB2-158	Louisa-South Anna 230kV	Under Construction
AB2-160	Reams 115kV	Engineering and Procurement
AB2-161	Waverly #2 DP 115kV	Engineering and Procurement
AB2-174	Emporia-Trego 115kV	In Service
AB2-190	Hopewell-Surry 230kV	Engineering and Procurement
AC1-027	Pendleton 34.5kV	In Service
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-042	Altavista-Mt. Airy 69kV	Engineering and Procurement
AC1-054	Kerr Dam-Eatons Ferry 115 kV	Engineering and Procurement
AC1-065	Harmony Village-Shackleford 115kV	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
AC1-107	Chickahominy 500kV	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
AC1-147	Grassfield 34.5kV	Engineering and Procurement
AC1-161	Septa 500kV	Engineering and Procurement
AC1-164	Chickahominy 230kV	Engineering and Procurement
AC1-189	Chinquapin-Everetts 230kV	Active
AC1-208	Cox-Whitakers 115kV	Engineering and Procurement
AC1-221	Halifax-Person 230kV	Engineering and Procurement
AC1-222	Crystal Hill-Halifax 115kV	Engineering and Procurement
AC2-012	Grassfield-Great Bridge 115kV	Active
AC2-071	Buckingham 35kV	Withdrawn
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
AC2-141	Septa 500kV	Active
AC2-165	Bremo-Powhatan 230kV	Engineering and Procurement
AC2-196	Fentress 34.5kV	Engineering and Procurement
AD1-017	Smith Mountain-Bearskin 138 kV	Active
AD1-023	Cashie-Trowbridge 230 kV	Active
AD1-025	Hopewell-Surry 230 kV	Active
AD1-033	Fentress-Landstown 230 kV	Engineering and Procurement
AD1-041	Harmony Village-Shackleford 115 kV	Engineering and Procurement
AD1-055	Crystal Hill-Halifax 115 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-058	Halifax-Person 230 kV	Engineering and Procurement
AD1-076	Trowbridge 230 kV	Active
AD1-082	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
AD1-144	Kings Fork 34.5 kV	Partially in Service - Under Construction
AD1-151	Hopewell-Surry 230 kV	Active
AD1-152	Clover-Sedge Hill 230 kV	Active
AD1-157	South Creek 34.5 kV	Engineering and Procurement
AD2-007	Hopewell-Surry 230 kV	Active
AD2-008	Hopewell-Surry 230 kV	Active
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
AD2-160	Hickory-Moyock 230kV	Active
AD2-202	Clover-Sedge Hill 230kV	Active
AD2-215	Kings Fork 34.5 kV	Withdrawn

Queue Number	Project Name	Status
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
AE1-074	Winterpock 34.5 kV	Engineering and Procurement
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
AE1-154	Louisa-South Anna 230 kV	Engineering and Procurement
AE1-162	Smithfield 34.5 kV	Engineering and Procurement
AE1-173	Carson-Suffolk 500 kV	Active
AE1-175	Light Foot 34.5 kV	Engineering and Procurement
AE1-191	Harmony Village-Shackleford 115 kV	Active
AE1-230	Shockoe 69 kV	Active
AE1-250	Smith Mountain-E. Danville 138 kV	Active
AE2-000B	N/A	N/A
AE2-005	Harmony Village-Shackleford 115 kV	Engineering and Procurement
AE2-007	Chesapeake 230 kV	Withdrawn
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
AE2-041	Harmony Village 230 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-047	Ridgeway-Solite 69 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
AE2-078	Poolesville 34.5 kV	Engineering and Procurement
AE2-079	Poolesville 34.5 kV	Engineering and Procurement
AE2-092	Kidds Store-Sherwood 115 kV	Active
AE2-094	Carson-Rogers Road 500 kV	Active
AE2-104	Suffolk 115 kV	Active
AE2-122	Birdneck-Landstown 230 kV	Active
AE2-123	Birdneck-Landstown 230 kV	Active
AE2-124	Landstown 230 kV	Active
AE2-147	Swamp 230 kV	Active
AE2-151	Earleys 34.5kV	Withdrawn
AE2-156	Yadkin 115 kV	Active
AE2-182	Briery-Clover 230 kV	Active
AE2-185	Gladys DP-Stonemill Switching Station 69 kV	Active
AE2-187	Shockoe DP-Chatham 69 kV	Active
AE2-212	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

Queue Number	Project Name	Status
AE2-247	Myrtle-Windsor 115 kV	Active
AE2-250	Purdy Sw.-Reams 115 kV	Active
AE2-253	Hickory-Moyock 230 kV	Active
AE2-258	Chase City 115 kV	Active
AE2-259	Curdsville-Willis Mtn 115 kV	Active
AE2-260	Clubhouse 230 kV	Active
AE2-270	Hopewell-Surry 230 kV	Active
AE2-283	Gladys-Stone Mill 69 kV	Active
AE2-291	Grit DP-Perth 115 kV	Active
AE2-292	Grit DP-Perth 115 kV	Active
AE2-313	Carson-Rawlings 500 kV	Active
AE2-346	Ahoskie 34.5 kV	Active
AF1-014	Harmony Village-Shackleford 115 kV	Active
AF1-017	Myrtle-Windsor 115 kV	Active
AF1-018	Harmony Village 230 kV	Active
AF1-032	Suffolk 34.5 kV	Engineering and Procurement
AF1-033	Poolesville 34 kV	Engineering and Procurement
AF1-049	Berry Hill 138 kV	Active
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
AF1-079	Louisa-South Anna 230 kV	Active
AF1-082	Heartsease-Mayo Dunbar DP	Active
AF1-123	Fentress 500 kV	Active
AF1-124	Fentress 500 kV	Active
AF1-125	Fentress 500 kV	Active
AF1-129	Chesterfield 230 kV	Active
AF1-152	Swamp 230 kV	Active
AF1-173	Gretna DP-Shockoe DP 69 kV	Active
AF1-201	Hayes-White Marsh 115 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
AF1-301	Louisa-South Anna 230 kV	Active
AF1-323	Scottsville-Colleen 138 kV	Active
AF2-037	Louisa-North Anna 230 kV	Active
AF2-042	Clover-Rawlings 500 kV	Active
AF2-043	Suffolk 34.5 kV	Engineering and Procurement
AF2-046	Tunis-Mapleton 115 kV	Active
AF2-047	Creswell-Riders Creek 115 kV	Active
AF2-054	Wan 34.5 kV	Active
AF2-057	Grassfield 34.5 kV	Active
AF2-063	Louisa-North Anna 230 kV	Active
AF2-065	Surry-Hopewell 230 kV	Active
AF2-076	Suffolk-Nucor Steel 230 kV	Active
AF2-077	White Marsh 34.5 kV	Active
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-081	Moyock 230 kV	Active

Queue Number	Project Name	Status
AF2-085	Midlothian 34.5 kV	Engineering and Procurement
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
AF2-257	Tyler 34.5 kV	Active
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
AG1-000B	N/A	N/A
AG1-007	Tar River 12.5 kV	Active
AG1-008	Tunis-Mapleton 115 kV	Active
AG1-009	Hopewell-Surry 230kV	Active
AG1-011	Colonial Trial 230 kV	Active
AG1-021	Jetersville-Ponton 115 kV	Active
AG1-022	Scottsville-Colleen 138 kV	Active
AG1-023	North Anna-Louisa 230 kV	Active
AG1-027	Suffolk-Holland 115 kV	Active
AG1-028	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
AG1-057	Harmony Village 230 kV	Active
AG1-075	Purdy-Sapony 115 kV	Active
AG1-081	Poolesville 34.5 kV	Withdrawn
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
AG1-102	White Marsh 34.5 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
AG1-133	North Anna-Ladysmith 500 kV	Active
AG1-145	Lightfoot 34.5 kV	Active

Queue Number	Project Name	Status
AG1-146	Garner DP-Lancaster 115 kV	Active
AG1-147	Garner DP-Lancaster 115 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
AG1-171	Hopewell-Surry 230kV	Active
AG1-172	Hopewell-Surry 230 kV	Active
AG1-173	Hopewell-Surry 230 kV	Active
AG1-174	Hopewell-Surry 230 kV	Active
AG1-175	Hopewell-Surry 230 kV	Active
AG1-176	Briery-Clover 230 kV	Active
AG1-178	Carson-Septa 500 kV	Active
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 kV	Active
AG1-184	Carson-Septa 500 kV	Active
AG1-185	Pamplin-Chase City 115 kV	Active
AG1-209	Gretna 12.5 kV	Active
AG1-210	Northern Neck 34.5 kV	Active
AG1-215	Fort Pickett 13.2 kV	Active
AG1-235	Fentress-Sligo 230 kV	Active
AG1-272	Twitty's Creek 115 kV	Active
AG1-273	Twitty's Creek 115 kV	Active
AG1-274	Twitty's Creek 115 kV	Active
AG1-275	Gladys DP-Stone Mill 69 kV	Active
AG1-276	Gladys DP-Stone Mill 69 kV	Active
AG1-284	Bremo-Cunningham DP 115 kV	Active
AG1-285	Chase City-Central 115 kV	Active
AG1-286	Johnson Mountain 138 kV	Active
AG1-287	South Boston 12.5 kV	Active
AG1-305	Louisa-North Anna 230 kV	Active
AG1-310	Crystal Hill-Perth 115 kV	Active
AG1-312	Earleys-Cashie 230 kV	Active
AG1-313	Jackson DP-Occoneechee 115 kV	Active
AG1-342	Dryburg 115 kV	Active
AG1-343	Boykins-Murphy 115 kV	Active
AG1-345	Crewe 12.5 kV	Active
AG1-347	Briery DP-Clover 230 kV	Active
AG1-357	Clover-Rawlings 500 kV	Active
AG1-359	Fentress 230 kV	Active
AG1-364	Deep Creek 115 kV	Active
AG1-383	Hickory 34.5 kV	Active
AG1-384	Twitty's Creek 115 kV	Active
AG1-393	Fort Pickett DP 34.5 kV	Active
AG1-394	Boykins 34.5 kV	Active
AG1-413	South Hill-Bordnax 115 kV	Active
AG1-426	Bremo-Scottsville 138 kV	Active
AG1-427	Chase City-Drakes Branch 115 kV	Active

Queue Number	Project Name	Status
AG1-428	Danieltown 69 kV	Active
AG1-431	Mackeys 230 kV	Active
AG1-431A	Mackeys 230 kV	Active
AG1-432	Curdsville DP-Willis Mt. 115 kV	Active
AG1-437	Cashie-Earleys 230 kV	Active
AG1-438	Cashie-Earleys 230 kV	Active
AG1-439	Chinquapin 230 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 kV	Active
AG1-442	Cashie-Earleys 230 kV	Active
AG1-443	Cashie-Earleys 230 kV	Active
AG1-444	Chinquapin 230 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-449	Rawlings-Carson 500 kV	Active
AG1-451	Curdsville DP-Willis Mt. 115 kV	Active
AG1-494	Boxwood-Riverville 138 kV	Active
AG1-505	Rawlings-Clover 500 kV	Active
AG1-506	Rawlings-Clover 500 kV	Active
AG1-518	Suffolk 230 kV	Active
AG1-531	Poolesville-Winchester 230 kV	Active
AG1-532	Fields 34.5 kV	Active
AG1-536	Garner-Northern Neck 115 kV	Active
AG1-539	Grit DP-Perth 115 kV	Active
AG1-540	Berry Hill 138 kV	Active
AG1-544	Bakers Pond DP 115 kV	Active
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	Parmelee 12.5 kV	Active
AG1-552	Carolina 13.2 kV	Active
AG1-557	Curdsville DP 115 kV	Withdrawn
W1-029	Winfall 230kV	In Service
Z1-036	WinFall-Chowan 230kV	Suspended
Z1-068	Birdneck 34.5kV	In Service
Z1-086	Heritage-Carson	In Service

11.8 Contingency Descriptions - Primary POI

Contingency Name	Contingency Definition
DVP_P1-2: LN 567	CONTINGENCY 'DVP_P1-2: LN 567' OPEN BRANCH FROM BUS 314903 TO BUS 314924 CKT 1 /* 8CHCKAHM 500.00 - 8SURRY 500.00 END
DVP_P1-2: LN 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P4-2: 562T563	CONTINGENCY 'DVP_P4-2: 562T563' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 940640 CKT 1 /* 8CARSON 500.00 - AE2- 051 TAP 500.00 OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P4-2: 568T575	CONTINGENCY 'DVP_P4-2: 568T575' /* LADYSMITH 500 KV OPEN BRANCH FROM BUS 314911 TO BUS 314922 CKT 1 /* 8LADYSMITH 500.00 - 8POSSUM 500.00 OPEN BRANCH FROM BUS 314911 TO BUS 962840 CKT 1 /* 8LADYSMITH 500.00 - AG1-133 TAP 500.00 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 562-C	CONTINGENCY 'DVP_P1-2: LN 562-C' OPEN BRANCH FROM BUS 963290 TO BUS 314923 CKT 1 /* AG1-178 TAP 500.00 - 8SEPTA 500.00 END
DVP_P4-2: 56372	CONTINGENCY 'DVP_P4-2: 56372' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 END
DVP_P1-2: LN 511-B	CONTINGENCY 'DVP_P1-2: LN 511-B' OPEN BRANCH FROM BUS 940470 TO BUS 942930 CKT 1 /* AE2-031 TAP 500.00 - AE2-313 TAP 500.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 511-A	CONTINGENCY 'DVP_P1-2: LN 511-A' OPEN BRANCH FROM BUS 314902 TO BUS 940470 CKT 1 /* 8CARSON 500.00 - AE2-031 TAP 500.00 END
DVP_P1-2: LN 575-A	CONTINGENCY 'DVP_P1-2: LN 575-A' OPEN BRANCH FROM BUS 314911 TO BUS 962840 CKT 1 /* 8LADYSMITH 500.00 - AG1-133 TAP 500.00 END
DVP_P1-2: LN 557	CONTINGENCY 'DVP_P1-2: LN 557' OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 END
AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1' OPEN BRANCH FROM BUS 242520 TO BUS 242514 CKT 1 END
938490 AE1-068_POI 500 941030 AE2-094 TAP 500 1	CONTINGENCY '938490 AE1-068_POI 500 941030 AE2-094 TAP 500 1' OPEN BRANCH FROM BUS 938490 TO BUS 941030 CKT 1 END
DVP_P1-2: LN 573	CONTINGENCY 'DVP_P1-2: LN 573' OPEN BRANCH FROM BUS 314918 TO BUS 314934 CKT 1 /* 8NO ANNA 500.00 - 8SPOTSYL 500.00 END
DVP_P1-2: LN 574	CONTINGENCY 'DVP_P1-2: LN 574' OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END
DVP_P1-2: LN 576	CONTINGENCY 'DVP_P1-2: LN 576' OPEN BRANCH FROM BUS 314914 TO BUS 314918 CKT 1 /* 8MDLTHAN 500.00 - 8NO ANNA 500.00 END
DVP_P4-2: 557T574	CONTINGENCY 'DVP_P4-2: 557T574' /* ELMONT 500 KV OPEN BRANCH FROM BUS 314214 TO BUS 314903 CKT 1 /* 6CHCKAHM 230.00 - 8CHCKAHM 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END

Contingency Name	Contingency Definition
AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1' OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 END
DVP_P1-2: LN 2027	CONTINGENCY 'DVP_P1-2: LN 2027' OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 933500 CKT 1 /* 6CARTERV 230.00 - AC2-165 TAP 230.00 OPEN BRANCH FROM BUS 314310 TO BUS 314322 CKT 1 /* 6JUDES F 230.00 - 6MDLTHAN 230.00 OPEN BRANCH FROM BUS 314310 TO BUS 314333 CKT 1 /* 6JUDES F 230.00 - 6POWHATN 230.00 OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 /* 6POWHATN 230.00 - AC2-165 TAP 230.00 OPEN BUS 313868 /* ISLAND: 6CARTERV 230.00 OPEN BUS 314310 /* ISLAND: 6JUDES F 230.00 OPEN BUS 314333 /* ISLAND: 6POWHATN 230.00 OPEN BUS 923862 /* ISLAND: AB2-026 E 230.00 OPEN BUS 938561 /* ISLAND: AE1-075 C 230.00 OPEN BUS 938562 /* ISLAND: AE1-075 E 230.00 OPEN BUS 933500 /* ISLAND: AC2-165 TAP 230.00 OPEN BUS 933501 /* ISLAND: AC2-165 C 230.00 OPEN BUS 933502 /* ISLAND: AC2-165 E 230.00 END
Base Case	
AEP_P1-3_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P1-3_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
DVP_P1-2: LN 556-D	CONTINGENCY 'DVP_P1-2: LN 556-D' OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-055 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P4-2: H2T557	CONTINGENCY 'DVP_P4-2: H2T557' /* ELMONT 500 KV OPEN BRANCH FROM BUS 314214 TO BUS 314903 CKT 1 /* 6CHCKAHM 230.00 - 8CHCKAHM 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 OPEN BRANCH FROM BUS 314218 TO BUS 314908 CKT 2 /* 6ELMONT 230.00 - 8ELMONT 500.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 556-C	CONTINGENCY 'DVP_P1-2: LN 556-C' OPEN BRANCH FROM BUS 964930 TO BUS 966360 CKT 1 /* AG1-357 TAP 500.00 - AG1-055 TAP 500.00 END
DVP_P1-2: LN 585-A	CONTINGENCY 'DVP_P1-2: LN 585-A' OPEN BRANCH FROM BUS 314902 TO BUS 941030 CKT 1 /* 8CARSON 500.00 - AE2- 094 TAP 500.00 END
DVP_P4-5: W72	CONTINGENCY 'DVP_P4-5: W72' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 941030 CKT 1 /* 8CARSON 500.00 - AE2- 094 TAP 500.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 END
DVP_P4-2: 51172	CONTINGENCY 'DVP_P4-2: 51172' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 940470 CKT 1 /* 8CARSON 500.00 - AE2- 031 TAP 500.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 END

12 Short Circuit Analysis - Primary POI

The following Breakers are overdutied:

None

12.1 System Reinforcements - Short Circuit

None

13 Summer Peak - Load Flow Analysis - Secondary POI

The Queue Project AG1-357 was evaluated as a 200.0 MW (Capacity 120.0 MW) injection tapping the Chase City to Lunenburg 115 kv line in the Dominion area. Project AG1-357 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-357 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

13.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADIN G %	POST PROJE CT LOADIN G %	AC D C	MW IMPAC T
168479882	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	Base Case	single	661.760009766	99.2	101.37	DC	14.58
174889236	314687	3CREWE	115.0	DVP	314701	3LONEPN	115.0	DVP	1	DVP_P 1-2: LN 1045	single	370.359985352	75.79	108.18	DC	119.97
169215452	314702	3KERR	115.0	DVP	314673	3PALMERSPR NG	115.0	DVP	1	Base Case	single	120.319999695	97.16	104.27	DC	8.55
174889198	314706	3MARTI N TAP	115.0	DVP	314687	3CREWE	115.0	DVP	1	DVP_P 1-2: LN 1045	single	326.179992676	84.74	121.52	DC	119.97
174889213	314723	3VICTRI A	115.0	DVP	314725	3VICT DP	115.0	DVP	1	DVP_P 1-2: LN 1045	single	269.779998779	70.85	115.31	DC	119.97
174889217	314725	3VICT DP	115.0	DVP	961890	AG1-030 TAP	115.0	DVP	1	DVP_P 1-2: LN 1045	single	269.779998779	69.58	114.05	DC	119.97
174889210	936260	AD2-033 TAP	115.0	DVP	314427	3LUNENBURG	115.0	DVP	1	DVP_P 1-2: LN 1045	single	269.779998779	76.92	121.39	DC	119.97
174889168	962490	AG1-098 TAP	115.0	DVP	313898	3BUTCHER CRK	115.0	DVP	1	Base Case	single	247.220001221	97.18	135.12	DC	93.8
174889196	964930	AG1-357 TAP	115.0	DVP	962490	AG1-098 TAP	115.0	DVP	1	Base Case	single	247.220001221	72.27	110.22	DC	93.8

13.2 Multiple Facility Contingency

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADIN G %	POST PROJE CT LOADIN G %	AC D C	MW IMPAC T
174272321	313849	3RIDGER D	115.0	DVP	939180	AE1-148 TAP	115.0	DVP	1	DVP_P4-2: 15412	breaker	398.600006104	92.86	109.16	DC	64.96
166961592	314267	3CHASCT Y2	115.0	DVP	314669	3BARN S J	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	89.59	102.2	DC	51.35
174066985	314267	3CHASCT Y2	115.0	DVP	314669	3BARN S J	115.0	DVP	1	DVP_P4-2: 3612	breaker	406.0	97.94	115.37	DC	70.92
174067007	314267	3CHASCT Y2	115.0	DVP	313849	3RIDGER D	115.0	DVP	1	DVP_P4-2: 15412	breaker	453.0	97.27	111.61	DC	64.96
173043613	314669	3BARN S J	115.0	DVP	962560	AG1-105 TAP	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	88.73	101.34	DC	51.35
174066989	314669	3BARN S J	115.0	DVP	962560	AG1-105 TAP	115.0	DVP	1	DVP_P4-2: 3612	breaker	406.0	97.07	114.51	DC	70.92
166961629	314681	3CHASCT Y	115.0	DVP	314708	3NORVIE W	115.0	DVP	1	DVP_P7-1: LN 22-90	tower	400.0	93.12	101.23	DC	32.43
166961630	314681	3CHASCT Y	115.0	DVP	314708	3NORVIE W	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	400.0	94.04	102.89	DC	35.4
174272316	314681	3CHASCT Y	115.0	DVP	314781	3BLACKB R	115.0	DVP	1	DVP_P4-2: 15832	breaker	301.0	92.76	104.04	DC	33.96
166961559	314683	3CLRKVIL LE	115.0	DVP	314869	3BURLIN G	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	301.0	86.32	100.23	DC	41.87
174272320	314683	3CLRKVIL LE	115.0	DVP	314869	3BURLIN G	115.0	DVP	1	DVP_P4-2: 15832	breaker	301.0	92.22	103.51	DC	33.96
174067070	314690	6BLACK WALNU	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P4-2: 15832	breaker	997.0	99.55	103.61	DC	40.66
166961634	314708	3NORVIE W	115.0	DVP	314721	3SO HILL	115.0	DVP	1	DVP_P7-1: LN 22-90	tower	400.0	92.35	100.46	DC	32.43

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166961635	314708	3NORVIEW	115.0	DVP	314721	3SO HILL	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	400.0	93.27	102.12	DC	35.4
166961590	314713	3PAMPLIN	115.0	DVP	314726	3WILLIS	115.0	DVP	1	DVP_P7-1: LN 158-1007-A	tower	406.0	99.69	106.57	DC	27.93
166961580	314715	3MADSONV	115.0	DVP	314713	3PAMPLIN	115.0	DVP	1	DVP_P7-1: LN 158-1007-A	tower	406.0	94.87	101.75	DC	27.94
166961539	314781	3BLACKBARR	115.0	DVP	314788	3JONESTON	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	301.0	90.3	104.21	DC	41.87
174272298	314781	3BLACKBARR	115.0	DVP	314788	3JONESTON	115.0	DVP	1	DVP_P4-2: 15832	breaker	301.0	96.18	107.46	DC	33.96
166961545	314788	3JONESTON	115.0	DVP	314683	3CLRKVILLE	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	301.0	88.94	102.85	DC	41.87
174272304	314788	3JONESTON	115.0	DVP	314683	3CLRKVILLE	115.0	DVP	1	DVP_P4-2: 15832	breaker	301.0	94.81	106.1	DC	33.96
174272326	314869	3BURLING	115.0	DVP	314682	3BUGGS I	115.0	DVP	1	DVP_P4-2: 15832	breaker	301.0	91.13	102.41	DC	33.96
164076145	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	AEP_P2-2_#10265_05LEESVI 138_1	bus	406.0	96.15	106.21	DC	40.95
173042955	964930	AG1-357 TAP	115.0	DVP	962490	AG1-098 TAP	115.0	DVP	1	DVP_P2-2: BREMO B4	bus	349.0	91.97	136.79	DC	156.42
173043339	964930	AG1-357 TAP	115.0	DVP	962490	AG1-098 TAP	115.0	DVP	1	DVP_P7-1: LN 158-1007-A	tower	349.0	98.62	155.93	DC	200.0

13.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174548076	242520	05J.FERR	500.0	AEP	242514	05J.FERR	765.0	AEP	1	AEP_P4_#10162_05EDAN 1 138_P	breaker	1845.0	101.78	102.37	DC	23.94
168204355	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	127.61	129.73	DC	8.58
168204357	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	single	275.0	118.19	120.76	DC	7.16
166961528	313705	3KERRDP	115.0	DVP	314702	3KERR	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	195.0	105.75	119.2	DC	26.21
168479879	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	150.5	153.27	DC	18.33
168480018	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	375.05999 7559	123.44	126.31	DC	10.8
173878988	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P4-2: 23872	breaker	459.0	137.4	139.16	DC	17.99
168479819	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	DVP_P1-2: LN 1045	single	203.97999 5728	217.67	276.48	DC	119.96
168479820	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	Base Case	single	203.97999 5728	119.05	131.89	DC	26.19
175280775	313825	3PLYWOOD	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 33-A	single	141.0	102.82	115.05	DC	17.24
163291365	313867	6BREMIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P7-1: LN 181-2027	tower	809.0	145.94	150.05	DC	33.33

ID	FRO M BUS#	FROM BUS	kV	FRO M BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168479 901	3138 67	6BREMIST	230 .0	DVP	3137 07	6FORK UNION	230 .0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	150.9	153.92	DC	20.0
174066 901	3138 67	6BREMIST	230 .0	DVP	3137 07	6FORK UNION	230 .0	DVP	1	DVP_P4-2: 202712	break er	809.0	145.89	150.0	DC	33.33
174272 365	3138 68	6CARTERV	230 .0	DVP	9335 00	AC2-165 TAP	230 .0	DVP	1	DVP_P4-2: 2028T2054	break er	980.0	107.96	110.28	DC	22.74
175512 500	3138 68	6CARTERV	230 .0	DVP	9335 00	AC2-165 TAP	230 .0	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88000 4883	110.7	112.4	DC	13.64
164076 124	3138 98	3BUTCHER CRK	115 .0	DVP	3142 67	3CHASCTY2	115 .0	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	156.46	202.89	DC	162.0 5
164076 125	3138 98	3BUTCHER CRK	115 .0	DVP	3142 67	3CHASCTY2	115 .0	DVP	1	DVP_P2-2: BREMO B4	bus	349.0	142.73	187.54	DC	156.3 7
166961 464	3138 98	3BUTCHER CRK	115 .0	DVP	3142 67	3CHASCTY2	115 .0	DVP	1	DVP_P7-1: LN 158- 235	towe r	349.0	221.31	278.6	DC	199.9 3
166961 465	3138 98	3BUTCHER CRK	115 .0	DVP	3142 67	3CHASCTY2	115 .0	DVP	1	DVP_P7-1: LN 158- 1007-A	towe r	349.0	157.43	214.72	DC	199.9 4
168479 838	3138 98	3BUTCHER CRK	115 .0	DVP	3142 67	3CHASCTY2	115 .0	DVP	1	Base Case	single	247.22000 1221	118.5	156.42	DC	93.77
173878 905	3138 98	3BUTCHER CRK	115 .0	DVP	3142 67	3CHASCTY2	115 .0	DVP	1	DVP_P4-2: 1T158	break er	349.0	227.65	284.93	DC	199.9 3
168784 251	3142 66	6NORTHAM PTON	230 .0	DVP	9364 00	AD2-051 TAP	230 .0	DVP	1	DVP_P1-2: LN 238- A	single	571.52001 9531	110.22	111.93	DC	9.75
174272 300	3142 66	6NORTHAM PTON	230 .0	DVP	9364 00	AD2-051 TAP	230 .0	DVP	1	DVP_P4-2: 23872	break er	699.0	116.7	117.75	DC	16.28
166961 631	3142 67	3CHASCTY2	115 .0	DVP	3146 81	3CHASCTY	115 .0	DVP	Z1	DVP_P7-1: LN 158- 235	towe r	582.0	116.09	136.08	DC	116.3 2
174066 974	3142 67	3CHASCTY2	115 .0	DVP	3146 81	3CHASCTY	115 .0	DVP	Z1	DVP_P4-2: 1T158	break er	582.0	115.81	135.93	DC	117.1 3
174454 234	3142 67	3CHASCTY2	115 .0	DVP	3146 69	3BARNES J	115 .0	DVP	1	DVP_P4-2: 15832	break er	406.0	126.32	140.9	DC	59.34
174454 235	3142 67	3CHASCTY2	115 .0	DVP	3146 69	3BARNES J	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	406.0	124.58	139.1	DC	59.12
163291 136	3142 68	6BRIERY	230 .0	DVP	9648 40	AG1-347 TAP	230 .0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	105.52	112.59	DC	49.45
174066 961	3142 68	6BRIERY	230 .0	DVP	9648 40	AG1-347 TAP	230 .0	DVP	1	DVP_P4-2: 219322	break er	699.0	105.52	112.59	DC	49.45
174272 264	3142 68	6BRIERY	230 .0	DVP	9648 40	AG1-347 TAP	230 .0	DVP	1	DVP_P4-2: 210622	break er	699.0	105.52	112.59	DC	49.45
168784 125	3142 82	6CARSON	230 .0	DVP	3142 85	6CHRL249	230 .0	DVP	1	DVP_P1-2: LN 563	single	559.29998 7793	167.13	167.7	DC	7.24
168784 383	3142 82	6CARSON	230 .0	DVP	3143 31	6POE	230 .0	DVP	1	DVP_P1-2: LN 249	single	678.67999 2676	120.46	121.33	DC	6.97
173878 924	3142 82	6CARSON	230 .0	DVP	3142 85	6CHRL249	230 .0	DVP	1	DVP_P4-2: 562T563	break er	684.0	195.73	196.65	DC	13.88
174272 265	3142 82	6CARSON	230 .0	DVP	3143 31	6POE	230 .0	DVP	1	DVP_P4-2: 24972- 4	break er	830.0	126.94	127.97	DC	19.09
168784 135	3142 85	6CHRL249	230 .0	DVP	3143 16	6LOCKS	230 .0	DVP	1	DVP_P1-2: LN 563	single	559.29998 7793	163.32	163.89	DC	7.24
173878 925	3142 85	6CHRL249	230 .0	DVP	3143 16	6LOCKS	230 .0	DVP	1	DVP_P4-2: 562T563	break er	684.0	192.6	193.53	DC	13.88
174272 152	3142 99	6HARROWG	230 .0	DVP	3142 63	6TYLER1	230 .0	DVP	1	DVP_P4-2: 24972- 4	break er	541.0	172.59	173.85	DC	15.15
174454 223	3142 99	6HARROWG	230 .0	DVP	3142 63	6TYLER1	230 .0	DVP	1	DVP_P4-2: 562T563	break er	541.0	172.48	173.34	DC	10.33
174272 310	3143 10	6JUDES F	230 .0	DVP	3143 22	6MDLTHAN	230 .0	DVP	1	DVP_P4-2: 2028T2054	break er	980.0	116.33	118.65	DC	22.71
175280 764	3143 10	6JUDES F	230 .0	DVP	3143 22	6MDLTHAN	230 .0	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88000 4883	116.48	118.18	DC	13.63
174272 151	3143 31	6POE	230 .0	DVP	3142 99	6HARROWG	230 .0	DVP	1	DVP_P4-2: 24972- 4	break er	541.0	172.61	173.87	DC	15.15
174454 221	3143 31	6POE	230 .0	DVP	3142 99	6HARROWG	230 .0	DVP	1	DVP_P4-2: 562T563	break er	541.0	172.51	173.38	DC	10.33
174067 004	3143 33	6POWHATN	230 .0	DVP	3143 10	6JUDES F	230 .0	DVP	1	DVP_P4-2: 2028T2054	break er	980.0	116.44	118.75	DC	22.71

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADING %	POST PROJE CT LOADING %	ACDC	MW IMPACT
175280 761	3143 33	6POWHATN	230 .0	DVP	3143 10	6JUDES F	230 .0	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88000 4883	116.62	118.32	DC	13.63
168784 080	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DVP	1	DVP_P1-2: LN 2012-B	single	678.67999 2676	151.45	153.78	DC	15.83
168784 082	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DVP	1	Base Case	single	678.67999 2676	132.38	134.47	DC	14.19
169010 740	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DVP	1	DVP_P1-2: LN 68-A	single	239.88800 0488	130.44	134.72	DC	10.26
169010 742	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DVP	1	Base Case	single	226.53999 3286	104.76	108.92	DC	9.42
174272 150	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DVP	1	DVP_P4-2: LST68	breaker	288.60000 6104	158.7	161.38	DC	17.1
169010 844	3145 61	6CAROLNA	230 .0	DVP	3145 99	6ROA VAL	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	548.02001 9531	113.6	115.38	DC	9.75
174066 976	3145 61	6CAROLNA	230 .0	DVP	3145 99	6ROA VAL	230 .0	DVP	1	DVP_P4-2: 23872	breaker	671.0	120.49	121.58	DC	16.28
169010 685	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	DVP_P1-2: LN 2201	single	182.64199 8291	207.15	214.96	DC	14.27
169010 687	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DVP	1	Base Case	single	176.81401 062	145.38	153.46	DC	14.3
163291 061	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	139.05	140.48	DC	26.2
163291 062	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	830.0	134.6	135.92	DC	24.23
163291 320	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	144.96	146.3	DC	24.66
163291 321	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	830.0	133.06	134.38	DC	24.28
168480 096	3145 63	6CLUBHSE	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	375.05999 7559	106.54	109.43	DC	10.84
169010 785	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P1-2: LN 2012-B	single	678.67999 2676	123.43	125.68	DC	15.84
169010 786	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	Base Case	single	678.67999 2676	110.45	112.42	DC	14.19
173879 035	3145 63	6CLUBHSE	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	DVP_P4-2: 23872	breaker	459.0	121.03	122.8	DC	18.06
174066 930	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P4-2: 201262	breaker	830.0	136.74	138.2	DC	26.67
169010 649	3145 69	6EARLEYS	230 .0	DVP	3145 75	6NUCO TP	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.52001 9531	191.45	192.61	DC	6.61
169010 667	3145 75	6NUCO TP	230 .0	DVP	9578 20	AF2-076 TAP	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.52001 9531	182.77	183.93	DC	6.61
175906 814	3145 75	6NUCO TP	230 .0	DVP	9578 20	AF2-076 TAP	230 .0	DVP	1	DVP_P1-2: LN 238-B	single	571.52001 9531	149.8	151.15	DC	7.93
175093 390	3145 79	6HORNRTN	230 .0	DVP	9343 30	AD1-057 TAP	230 .0	DVP	1	DVP_P1-2: LN 238-B	single	441.79998 7793	109.52	110.88	DC	6.01
168784 215	3145 99	6ROA VAL	230 .0	DVP	3142 66	6NORTHAM PTON	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	548.02001 9531	113.54	115.32	DC	9.75
174066 977	3145 99	6ROA VAL	230 .0	DVP	3142 66	6NORTHAM PTON	230 .0	DVP	1	DVP_P4-2: 23872	breaker	671.0	120.44	121.54	DC	16.28
166961 556	3146 65	3CLRK TAP	115 .0	DVP	3146 99	3ISLND C	115 .0	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	100.01	112.61	DC	26.21
174454 236	3146 69	3BARNES J	115 .0	DVP	9625 60	AG1-105 TAP	115 .0	DVP	1	DVP_P4-2: 15832	breaker	406.0	125.46	140.04	DC	59.34
174454 237	3146 69	3BARNES J	115 .0	DVP	9625 60	AG1-105 TAP	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	406.0	123.71	138.24	DC	59.12
174272 236	3146 75	3BRODNAX	115 .0	DVP	3146 76	3BRUNWICK	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	112.26	121.92	DC	38.62
174454 269	3146 75	3BRODNAX	115 .0	DVP	3146 76	3BRUNWICK	115 .0	DVP	1	DVP_P4-2: 15832	breaker	400.0	111.7	121.32	DC	38.49
174272 221	3146 76	3BRUNWICK	115 .0	DVP	3147 04	3LAWRENC	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	112.26	121.92	DC	38.62
174454 255	3146 76	3BRUNWICK	115 .0	DVP	3147 04	3LAWRENC	115 .0	DVP	1	DVP_P4-2: 15832	breaker	400.0	111.69	121.31	DC	38.49

ID	FRO M BUS#	FROM BUS	kV	FRO M BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
169215 300	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DVP	1	Base Case	single	571.52001 9531	122.19	126.59	DC	25.13
174066 852	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DVP	1	DVP_P4-2: 556T591	break er	699.0	230.41	237.94	DC	52.65
175093 250	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DVP	1	DVP_P1-2: LN 556- B-A	single	571.52001 9531	203.91	209.43	DC	31.55
166961 560	3146 81	3CHASCTY	115 .0	DVP	3147 81	3BLACKBR	115 .0	DVP	1	DVP_P7-1: LN 171- 1009	towe r	301.0	102.05	115.96	DC	41.87
174272 237	3146 81	3CHASCTY	115 .0	DVP	3147 08	3NORVIEW	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	120.33	129.98	DC	38.62
166961 550	3146 82	3BUGGS I	115 .0	DVP	3146 65	3CLRK TAP	115 .0	DVP	1	DVP_P7-1: LN 171- 1009	towe r	208.0	101.35	113.96	DC	26.21
166961 558	3146 83	3CLRKVILLE	115 .0	DVP	3148 69	3BURLING	115 .0	DVP	1	DVP_P7-1: LN 171- 1009	towe r	301.0	102.42	116.33	DC	41.87
166961 575	3146 84	3MT LREL	115 .0	DVP	3161 15	AC1-105 TAP	115 .0	DVP	1	DVP_P7-1: LN 158- 235	towe r	406.0	107.36	119.98	DC	51.35
174066 953	3146 84	3MT LREL	115 .0	DVP	3161 15	AC1-105 TAP	115 .0	DVP	1	DVP_P4-2: 3612	break er	406.0	111.19	128.63	DC	70.92
174272 369	3146 86	6CLOVER	230 .0	DVP	3149 06	8CLOVER	500 .0	DVP	2	DVP_P4-5: L912	break er	1275.0999 7559	110.09	112.52	DC	31.16
169215 255	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	2	DVP_P1-2: LN 235- A	single	182.64199 8291	254.67	271.64	DC	30.99
169215 258	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	2	Base Case	single	176.81401 062	151.73	162.95	DC	19.83
169215 269	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	1	Base Case	single	193.73400 8789	109.73	117.98	DC	15.97
174066 840	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	2	DVP_P4-6: CHASE C T342	break er	208.69999 6948	416.53	469.58	DC	110.7 3
174066 841	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	1	DVP_P4-6: CHASE C T342	break er	221.39999 3896	316.23	356.51	DC	89.18
175093 219	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	1	DVP_P1-2: LN 298- B	single	198.05799 8657	167.42	180.85	DC	26.59
174066 851	3146 92	6FARMVIL	230 .0	DVP	9668 60	AG1-557 TAP	230 .0	DVP	1	DVP_P4-2: 556T591	break er	684.0	234.56	242.26	DC	52.68
175093 235	3146 92	6FARMVIL	230 .0	DVP	9668 60	AG1-557 TAP	230 .0	DVP	1	DVP_P1-2: LN 556- B-A	single	559.29998 7793	205.1	210.74	DC	31.57
175093 237	3146 92	6FARMVIL	230 .0	DVP	9668 60	AG1-557 TAP	230 .0	DVP	1	Base Case	single	559.29998 7793	122.14	126.64	DC	25.15
174272 223	3146 93	3FRMAN D	115 .0	DVP	3145 65	3CLUBHSE71	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	111.64	121.3	DC	38.61
174454 259	3146 93	3FRMAN D	115 .0	DVP	3145 65	3CLUBHSE71	115 .0	DVP	1	DVP_P4-2: 15832	break er	400.0	111.07	120.69	DC	38.47
174454 296	3146 94	3GRIT	115 .0	DVP	3147 12	3OTTER R	115 .0	DVP	1	DVP_P4-2: 511T556	break er	350.0	124.3	126.24	DC	15.09
174454 297	3146 94	3GRIT	115 .0	DVP	3147 12	3OTTER R	115 .0	DVP	1	DVP_P4-2: 556T591	break er	350.0	124.3	126.24	DC	15.09
175906 895	3146 94	3GRIT	115 .0	DVP	3147 12	3OTTER R	115 .0	DVP	1	DVP_P1-2: LN 556- B-C	single	285.76000 9766	120.61	123.78	DC	9.05
175906 896	3146 94	3GRIT	115 .0	DVP	3147 12	3OTTER R	115 .0	DVP	1	DVP_P1-2: LN 556- B-A	single	285.76000 9766	118.52	121.69	DC	9.05
169215 327	3146 96	3SEDGE HILL	115 .0	DVP	3146 97	6SEDGE HILL	230 .0	DVP	1	DVP_P1-2: LN 31-A	single	226.72799 6826	108.0	115.49	DC	16.99
169215 341	3146 96	3SEDGE HILL	115 .0	DVP	3146 97	6SEDGE HILL	230 .0	DVP	2	DVP_P1-3: 6SEDGE HILL-TX#1	single	256.05599 9756	124.43	133.63	DC	23.58
175280 641	3146 97	6SEDGE HILL	230 .0	DVP	9272 50	AC1-221 TAP	230 .0	DVP	1	DVP_P1-2: LN 556- B-C	single	674.91998 291	183.88	187.97	DC	27.55
175906 819	3146 97	6SEDGE HILL	230 .0	DVP	9272 50	AC1-221 TAP	230 .0	DVP	1	DVP_P1-2: LN 556- B-A	single	674.91998 291	178.31	182.39	DC	27.55
166961 540	3146 99	3ISLND C	115 .0	DVP	3137 05	3KERRDP	115 .0	DVP	1	DVP_P7-1: LN 171- 1009	towe r	202.0	102.98	115.96	DC	26.21
168479 814	3147 01	3LONEPN	115 .0	DVP	3137 55	3FLAT CREEK	115 .0	DVP	1	DVP_P1-2: LN 1045	single	203.97999 5728	217.67	276.48	DC	119.9 6
168479 815	3147 01	3LONEPN	115 .0	DVP	3137 55	3FLAT CREEK	115 .0	DVP	1	Base Case	single	203.97999 5728	119.05	131.89	DC	26.19
163758 521	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P4-6: CAROLIN T122	break er	199.0	182.67	200.45	DC	35.89

ID	FRO M BUS#	FROM BUS	kV	FRO M BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
163758 522	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P4-2: 13002	break er	199.0	149.71	165.48	DC	31.33
163758 734	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P1-2: LN 90	single	199.0	114.93	123.79	DC	17.63
163758 735	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	Base Case	single	191.0	108.08	116.21	DC	15.54
163759 396	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P7-1: LN 22- 90	towe r	199.0	182.85	200.38	DC	35.47
169215 450	3147 02	3KERR	115 .0	DVP	3146 73	3PALMERSP RNG	115 .0	DVP	1	DVP_P1-2: LN 45	single	138.17999 2676	122.95	131.4	DC	11.68
174272 219	3147 04	3LAWRENC	115 .0	DVP	3146 93	3FRMAN D	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	112.49	122.15	DC	38.61
169215 293	3147 07	3MORAN	115 .0	DVP	3146 91	3FARMVIL	115 .0	DVP	1	DVP_P1-2: LN 1045	single	203.97999 5728	214.29	273.1	DC	119.9 6
169215 294	3147 07	3MORAN	115 .0	DVP	3146 91	3FARMVIL	115 .0	DVP	1	Base Case	single	203.97999 5728	115.62	128.46	DC	26.19
174272 239	3147 08	3NORVIEW	115 .0	DVP	3147 21	3SO HILL	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	119.55	129.21	DC	38.62
174454 304	3147 12	3OTTER R	115 .0	DVP	3146 66	3ALTVSTA	115 .0	DVP	1	DVP_P4-2: 556T591	break er	342.0	121.44	123.43	DC	15.09
174454 305	3147 12	3OTTER R	115 .0	DVP	3146 66	3ALTVSTA	115 .0	DVP	1	DVP_P4-2: 511T556	break er	342.0	121.44	123.43	DC	15.09
175906 885	3147 12	3OTTER R	115 .0	DVP	3146 66	3ALTVSTA	115 .0	DVP	1	DVP_P1-2: LN 556- B-C	single	269.77999 8779	120.42	123.77	DC	9.05
175906 886	3147 12	3OTTER R	115 .0	DVP	3146 66	3ALTVSTA	115 .0	DVP	1	DVP_P1-2: LN 556- B-A	single	269.77999 8779	118.2	121.56	DC	9.05
173043 586	3147 13	3PAMPLIN	115 .0	DVP	3147 26	3WILLIS	115 .0	DVP	1	DVP_P7-1: LN 158- 235	towe r	406.0	104.85	111.33	DC	26.32
166961 579	3147 15	3MADSONV	115 .0	DVP	3147 13	3PAMPLIN	115 .0	DVP	1	DVP_P7-1: LN 158- 235	towe r	406.0	101.79	108.28	DC	26.33
174272 232	3147 21	3SO HILL	115 .0	DVP	9439 10	AF1-059 TAP	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	113.3	122.96	DC	38.62
169215 263	3147 26	3WILLIS	115 .0	DVP	3146 91	3FARMVIL	115 .0	DVP	1	Base Case	single	186.11999 5117	145.53	150.69	DC	9.61
163291 350	3147 47	6BREMO	230 .0	DVP	3138 67	6BREMODIST	230 .0	DVP	1	DVP_P7-1: LN 181- 2027	towe r	809.0	147.7	151.82	DC	33.33
169431 757	3147 47	6BREMO	230 .0	DVP	3138 67	6BREMODIST	230 .0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	153.06	156.08	DC	20.0
169431 760	3147 47	6BREMO	230 .0	DVP	3138 67	6BREMODIST	230 .0	DVP	1	Base Case	single	661.76000 9766	100.15	102.55	DC	15.88
169431 774	3147 47	6BREMO	230 .0	DVP	3147 44	3BREMO	115 .0	DVP	1	DVP_P1-2: LN 2193	single	269.77999 8779	141.27	144.65	DC	9.11
174066 897	3147 47	6BREMO	230 .0	DVP	3138 67	6BREMODIST	230 .0	DVP	1	DVP_P4-2: 202712	break er	809.0	147.65	151.77	DC	33.33
174272 358	3147 47	6BREMO	230 .0	DVP	3138 68	6CARTERV	230 .0	DVP	1	DVP_P4-2: 2028T2054	break er	980.0	109.1	111.42	DC	22.74
175512 488	3147 47	6BREMO	230 .0	DVP	3138 68	6CARTERV	230 .0	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88000 4883	112.11	113.81	DC	13.64
169431 747	3147 65	6MTEAGLE	230 .0	DVP	3147 49	6CHARLVL	230 .0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	154.38	157.15	DC	18.33
169431 750	3147 65	6MTEAGLE	230 .0	DVP	3147 49	6CHARLVL	230 .0	DVP	1	Base Case	single	661.76000 9766	101.56	103.73	DC	14.58
166961 538	3147 81	3BLACKBR	115 .0	DVP	3147 88	3JONESTO	115 .0	DVP	1	DVP_P7-1: LN 171- 1009	towe r	301.0	106.41	120.32	DC	41.87
166961 544	3147 88	3JONESTO	115 .0	DVP	3146 83	3CLRKVILLE	115 .0	DVP	1	DVP_P7-1: LN 171- 1009	towe r	301.0	105.04	118.95	DC	41.87
166961 562	3148 69	3BURLING	115 .0	DVP	3146 82	3BUGGS I	115 .0	DVP	1	DVP_P7-1: LN 171- 1009	towe r	301.0	101.32	115.23	DC	41.87
164076 144	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DVP	1	DVP_P2-2: BREMO B1	bus	406.0	103.09	113.77	DC	43.48
166961 497	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DVP	1	DVP_P7-1: LN 158- 235	towe r	406.0	116.96	129.58	DC	51.35

ID	FRO M BUS#	FROM BUS	kV	FRO M BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
166961 498	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEDGE HILL	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	406.0	111.69	124.64	DC	52.61
174066 933	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEDGE HILL	115 .0	DVP	1	DVP_P4-2: 3612	break er	406.0	120.25	137.68	DC	70.92
173559 830	9272 50	AC1-221 TAP	230 .0	DVP	3040 70	6PERSON230 T	230 .0	CPL E	1	DVP_P1-2: LN 556-B-C	single	718.0	184.82	188.66	DC	27.55
173559 831	9272 50	AC1-221 TAP	230 .0	DVP	3040 70	6PERSON230 T	230 .0	CPL E	1	DVP_P1-2: LN 556-B-B	single	718.0	184.92	188.75	DC	27.55
174272 323	9335 00	AC2-165 TAP	230 .0	DVP	3143 33	6POWHATN	230 .0	DVP	1	DVP_P4-2: 2028T2054	break er	980.0	114.91	117.23	DC	22.74
175280 772	9335 00	AC2-165 TAP	230 .0	DVP	3143 33	6POWHATN	230 .0	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88000 4883	115.52	117.23	DC	13.64
168479 959	9343 30	AD1-057 TAP	230 .0	DVP	3138 45	6HATHAWAY	230 .0	DVP	1	DVP_P1-2: LN 238-B	single	441.79998 7793	118.13	119.49	DC	6.01
171548 061	9346 20	AD1-088 TAP	230 .0	DVP	3146 86	6CLOVER	230 .0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	131.06	138.13	DC	49.45
174066 900	9346 20	AD1-088 TAP	230 .0	DVP	3146 86	6CLOVER	230 .0	DVP	1	DVP_P4-2: 219322	break er	699.0	131.06	138.13	DC	49.45
169010 836	9364 00	AD2-051 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DVP	1	DVP_P1-2: LN 238-A	single	571.52001 9531	117.74	119.44	DC	9.75
169010 837	9364 00	AD2-051 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DVP	1	314435 6SAPONY 230 940480 AE2- 033 TAP 230 1	single	571.52001 9531	117.72	119.43	DC	9.75
174066 969	9364 00	AD2-051 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DVP	1	DVP_P4-2: 23872	break er	699.0	123.12	124.17	DC	16.28
174066 952	9391 80	AE1-148 TAP	115 .0	DVP	3147 02	3KERR	115 .0	DVP	1	DVP_P4-2: 3612	break er	398.60000 6104	110.2	126.5	DC	64.96
163291 300	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DVP	1	DVP_P7-1: LN 2058-2181	towe r	830.0	166.22	167.56	DC	24.66
169706 146	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DVP	1	DVP_P1-2: LN 2012-B	single	678.67999 2676	148.99	151.23	DC	15.84
169706 148	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DVP	1	Base Case	single	678.67999 2676	129.19	131.29	DC	14.19
174454 288	9427 50	AE2-291 TAP	115 .0	DVP	3146 94	3GRIT	115 .0	DVP	1	DVP_P4-2: 556T591	break er	350.0	125.18	127.13	DC	15.09
174454 289	9427 50	AE2-291 TAP	115 .0	DVP	3146 94	3GRIT	115 .0	DVP	1	DVP_P4-2: 511T556	break er	350.0	125.18	127.13	DC	15.09
175906 890	9427 50	AE2-291 TAP	115 .0	DVP	3146 94	3GRIT	115 .0	DVP	1	DVP_P1-2: LN 556-B-C	single	285.76000 9766	121.66	124.83	DC	9.05
175906 891	9427 50	AE2-291 TAP	115 .0	DVP	3146 94	3GRIT	115 .0	DVP	1	DVP_P1-2: LN 556-B-A	single	285.76000 9766	119.57	122.74	DC	9.05
174272 234	9439 10	AF1-059 TAP	115 .0	DVP	3146 75	3BRODNAX	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	112.86	122.52	DC	38.62
174454 267	9439 10	AF1-059 TAP	115 .0	DVP	3146 75	3BRODNAX	115 .0	DVP	1	DVP_P4-2: 15832	break er	400.0	112.3	121.92	DC	38.49
168784 001	9578 20	AF2-076 TAP	230 .0	DVP	3145 37	6SUFFOLK	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.52001 9531	187.11	188.26	DC	6.61
175906 808	9578 20	AF2-076 TAP	230 .0	DVP	3145 37	6SUFFOLK	230 .0	DVP	1	DVP_P1-2: LN 238-B	single	571.52001 9531	154.2	155.55	DC	7.93
175093 295	9610 60	AF2-397 TAP	230 .0	DVP	3147 65	6MTEAGLE	230 .0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76000 9766	157.9	160.67	DC	18.33
175093 297	9610 60	AF2-397 TAP	230 .0	DVP	3147 65	6MTEAGLE	230 .0	DVP	1	Base Case	single	661.76000 9766	105.09	107.26	DC	14.58
174889 165	9618 90	AG1-030 TAP	115 .0	DVP	3147 06	3MARTIN TAP	115 .0	DVP	1	DVP_P1-2: LN 1045	single	269.77999 8779	102.94	147.4	DC	119.9 7
173042 919	9624 90	AG1-098 TAP	115 .0	DVP	3138 98	3BUTCHER CRK	115 .0	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	136.51	182.96	DC	162.1
173042 920	9624 90	AG1-098 TAP	115 .0	DVP	3138 98	3BUTCHER CRK	115 .0	DVP	1	DVP_P2-2: BREMO B4	bus	349.0	121.36	166.18	DC	156.4 2
173043 317	9624 90	AG1-098 TAP	115 .0	DVP	3138 98	3BUTCHER CRK	115 .0	DVP	1	DVP_P7-1: LN 158-235	towe r	349.0	198.31	255.61	DC	199.9 8
173043 318	9624 90	AG1-098 TAP	115 .0	DVP	3138 98	3BUTCHER CRK	115 .0	DVP	1	DVP_P7-1: LN 158-1007-A	towe r	349.0	134.41	191.72	DC	200.0

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
173878 910	9624 90	AG1-098 TAP	115 .0	DVP	3138 98	3BUTCHER CRK	115 .0	DVP	1	DVP_P4-2: 1T158	breaker	349.0	204.64	261.95	DC	199.98
173043 536	9625 60	AG1-105 TAP	115 .0	DVP	3146 84	3MT LREL	115 .0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	102.72	115.34	DC	51.35
174066 963	9625 60	AG1-105 TAP	115 .0	DVP	3146 84	3MT LREL	115 .0	DVP	1	DVP_P4-2: 3612	breaker	406.0	105.67	123.11	DC	70.92
171548 092	9648 40	AG1-347 TAP	230 .0	DVP	9346 20	AD1-088 TAP	230 .0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	117.65	124.71	DC	49.45
174066 934	9648 40	AG1-347 TAP	230 .0	DVP	9346 20	AD1-088 TAP	230 .0	DVP	1	DVP_P4-2: 210622	breaker	699.0	117.65	124.71	DC	49.45
174272 227	9648 40	AG1-347 TAP	230 .0	DVP	9346 20	AD1-088 TAP	230 .0	DVP	1	DVP_P4-2: 219322	breaker	699.0	117.65	124.71	DC	49.45
173042 954	9649 30	AG1-357 TAP	115 .0	DVP	9624 90	AG1-098 TAP	115 .0	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	106.15	152.59	DC	162.1
173043 338	9649 30	AG1-357 TAP	115 .0	DVP	9624 90	AG1-098 TAP	115 .0	DVP	1	DVP_P7-1: LN 158-235	tower	349.0	162.53	219.83	DC	199.98
173878 918	9649 30	AG1-357 TAP	115 .0	DVP	9624 90	AG1-098 TAP	115 .0	DVP	1	DVP_P4-2: 1T158	breaker	349.0	168.83	226.13	DC	199.98
174066 850	9668 60	AG1-557 TAP	230 .0	DVP	3146 77	6BUCKING	230 .0	DVP	1	DVP_P4-2: 511T556	breaker	684.0	234.54	242.23	DC	52.68
175093 243	9668 60	AG1-557 TAP	230 .0	DVP	3146 77	6BUCKING	230 .0	DVP	1	DVP_P1-2: LN 556-B-A	single	559.29998 7793	205.1	210.74	DC	31.57
175093 245	9668 60	AG1-557 TAP	230 .0	DVP	3146 77	6BUCKING	230 .0	DVP	1	Base Case	single	559.29998 7793	122.14	126.64	DC	25.15

13.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
1682043 54	2426 31	05EDAN 1	138.0	AEP	2426 20	05DANVL2	138.0	AEP	1	Base Case	operation	275.0	134.58	136.54	DC	11.93
1752807 31	2426 31	05EDAN 1	138.0	AEP	2426 20	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOC H 500 1	operation	402.0	153.38	154.99	DC	14.3
1684798 77	3137 07	6FORK UNION	230.0	DVP	9610 60	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009 766	181.93	186.55	DC	30.55

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168479881	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	Base Case	operation	661.760009766	122.56	126.23	DC	24.3
168480016	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	3144356SAPONY230940480AE2-033TAP 2301	operation	375.059997559	168.06	170.22	DC	17.99
168480017	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	375.059997559	168.06	170.22	DC	17.99
168479816	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	DVP_P1-2: LN 1045	operation	203.979995728	378.65	476.67	DC	199.93
168479818	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	Base Case	operation	203.979995728	179.84	201.24	DC	43.65
175093410	313802	6PRINCE EDW	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 298-A	operation	571.520019531	105.02	113.67	DC	49.48
175280774	313825	3PLYWOOD	115.0	DVP	314696	3SEGE HILL	115.0	DVP	1	DVP_P1-2: LN 33-A	operation	141.0	116.85	126.07	DC	28.74
168479899	313867	6BREMIDIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	3143336POWHA TN 230933500AC2-165TAP 2301	operation	661.760009766	178.0	183.02	DC	33.33
168479903	313867	6BREMIDIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	Base Case	operation	661.760009766	122.82	126.83	DC	26.47
175512499	313868	6CARTERV	230.0	DVP	933500	AC2-165 TAP	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operation	800.880004883	131.48	134.32	DC	22.74
168479835	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY2	115.0	DVP	1	Base Case	operation	247.220001221	200.28	263.49	DC	156.28
168784249	314266	6NORTHAMP TON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	571.520019531	142.19	143.47	DC	16.24
168784379	314267	3CHASCTY2	115.0	DVP	314681	3CHASCTY	115.0	DVP	Z1	DVP_P1-2: LN 158	operation	449.320007324	147.13	173.2	DC	117.13
175093354	314267	3CHASCTY2	115.0	DVP	314681	3CHASCTY	115.0	DVP	Z1	Base Case	operation	411.720001221	109.04	130.64	DC	88.96
175512535	314267	3CHASCTY2	115.0	DVP	314669	3BARN S J	115.0	DVP	1	DVP_P1-2: LN 158	operation	331.820007324	106.04	121.32	DC	50.82
175093370	314268	6BRIERY	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 298-A	operation	571.520019531	124.63	133.28	DC	49.48
168784124	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	operation	559.299987793	186.54	187.52	DC	12.07
168784134	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	operation	559.299987793	182.74	183.71	DC	12.07
175280763	314310	6JUDES F	230.0	DVP	314322	6MDLTHAN	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operation	800.880004883	142.05	144.89	DC	22.71
175280760	314333	6POWHATN	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operation	800.880004883	142.19	145.02	DC	22.71
174889266	314427	3LUNENBURG	115.0	DVP	314723	3VICTRIA	115.0	DVP	1	DVP_P1-2: LN 1045	operation	326.179992676	99.27	160.57	DC	199.94
168784077	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	199.85	201.61	DC	26.38
168784079	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operation	678.679992676	176.9	178.48	DC	23.64

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169010737	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 68-A	operation	239.888000488	175.0	178.21	DC	17.1
169010739	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	Base Case	operation	226.539993286	130.71	133.84	DC	15.7
169010842	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	548.020019531	146.94	148.27	DC	16.24
169010683	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2201	operation	182.641998291	251.16	264.19	DC	23.78
169010684	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operation	176.81401062	190.88	204.36	DC	23.83
168480094	314563	6CLUBHSE	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	3144356SAPONY 230 940480 AE2-033 TAP 230 1	operation	375.059997559	148.06	150.23	DC	18.06
169010782	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	164.01	165.77	DC	26.39
169010783	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	operation	678.679992676	159.43	161.0	DC	23.66
168784213	314599	6ROA VAL	230.0	DVP	314266	6NORTHAMPTON	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	548.020019531	146.88	148.22	DC	16.24
175512548	314669	3BARNS J	115.0	DVP	962560	AG1-105 TAP	115.0	DVP	1	DVP_P1-2: LN 158	operation	331.820007324	104.99	120.26	DC	50.82
169215553	314675	3BRODNAX	115.0	DVP	314676	3BRUNWICK	115.0	DVP	1	DVP_P1-2: LN 158	operation	299.859985352	111.82	122.9	DC	33.2
169215571	314676	3BRUNWICK	115.0	DVP	314704	3LAWRENC	115.0	DVP	1	DVP_P1-2: LN 158	operation	326.179992676	102.44	112.62	DC	33.2
169215299	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	operation	571.520019531	169.37	176.69	DC	41.88
175093249	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	571.520019531	273.26	282.45	DC	52.58
169215589	314681	3CHASCTY	115.0	DVP	314708	3NORVIEW	115.0	DVP	1	DVP_P1-2: LN 158	operation	326.179992676	113.8	123.98	DC	33.2
174889464	314681	3CHASCTY	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P1-2: LN 158	operation	269.779998779	96.17	106.53	DC	27.94
169215526	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	Base Case	operation	331.820007324	104.92	117.28	DC	41.12
175280749	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	DVP_P1-2: LN 158	operation	331.820007324	127.17	142.45	DC	50.82
174889235	314687	3CREWE	115.0	DVP	314701	3LONEPN	115.0	DVP	1	DVP_P1-2: LN 1045	operation	370.359985352	127.35	181.34	DC	199.94
169215618	314690	6BLACK WALNU	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P1-2: LN 296-A	operation	814.979980469	100.96	105.77	DC	39.34
169215253	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P1-2: LN 235-A	operation	182.641998291	384.82	413.06	DC	51.65
169215256	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	Base Case	operation	176.81401062	238.13	256.82	DC	33.05
169215267	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	Base Case	operation	193.734008789	175.03	188.76	DC	26.62
169215656	314691	3FARMVIL	115.0	DVP	314726	3WILLIS	115.0	DVP	1	DVP_P1-2: LN 1045	operation	205.86000061	99.95	112.89	DC	26.65
175093218	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 298-B	operation	198.057998657	280.96	303.31	DC	44.32

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
175093234	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	559.299987793	280.79	290.19	DC	52.61
175093236	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	Base Case	operation	559.299987793	169.44	176.93	DC	41.91
175093409	314692	6FARMVIL	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 298-A	operation	571.520019531	105.06	113.7	DC	49.48
169215577	314693	3FRMAN D	115.0	DVP	314565	3CLUBHSE71	115.0	DVP	1	DVP_P1-2: LN 158	operation	326.179992676	101.68	111.85	DC	33.19
175906893	314694	3GRIT	115.0	DVP	314712	3OTTER R	115.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	285.760009766	151.39	153.77	DC	15.08
169215324	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 31-A	operation	226.727996826	173.61	186.06	DC	28.32
169215326	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	Base Case	operation	223.531997681	123.7	134.15	DC	23.36
169215339	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	operation	256.055999756	195.1	210.4	DC	39.3
169215342	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	Base Case	operation	253.235992432	108.13	117.27	DC	23.13
169215305	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	Base Case	operation	509.480010986	125.02	130.3	DC	26.89
175280640	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	674.91998291	246.41	253.19	DC	45.92
168479811	314701	3LONEPN	115.0	DVP	313755	3FLAT CREEK	115.0	DVP	1	DVP_P1-2: LN 1045	operation	203.979995728	378.65	476.67	DC	199.93
168479813	314701	3LONEPN	115.0	DVP	313755	3FLAT CREEK	115.0	DVP	1	Base Case	operation	203.979995728	179.84	201.24	DC	43.65
163758729	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P1-2: LN 90	operation	199.0	146.46	161.14	DC	29.39
163758730	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	Base Case	operation	191.0	138.88	152.35	DC	25.9
169215447	314702	3KERR	115.0	DVP	314673	3PALMERSPRNG	115.0	DVP	1	DVP_P1-2: LN 45	operation	138.179992676	137.66	144.02	DC	19.47
169215449	314702	3KERR	115.0	DVP	314673	3PALMERSPRNG	115.0	DVP	1	Base Case	operation	120.319999695	100.21	105.55	DC	14.25
169215562	314704	3LAWRENC	115.0	DVP	314693	3FRMAN D	115.0	DVP	1	DVP_P1-2: LN 158	operation	326.179992676	102.72	112.9	DC	33.19
174889197	314706	3MARTIN TAP	115.0	DVP	314687	3CREWE	115.0	DVP	1	DVP_P1-2: LN 1045	operation	326.179992676	142.31	203.6	DC	199.94
169215290	314707	3MORAN	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	DVP_P1-2: LN 1045	operation	203.979995728	375.27	473.28	DC	199.93
169215292	314707	3MORAN	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	operation	203.979995728	176.41	197.81	DC	43.65
169215592	314708	3NORVIEW	115.0	DVP	314721	3SO HILL	115.0	DVP	1	DVP_P1-2: LN 158	operation	326.179992676	112.85	123.03	DC	33.2
175906883	314712	3OTTER R	115.0	DVP	314666	3ALTVSTA	115.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	269.779998779	153.02	155.54	DC	15.08
174889365	314714	3PERTH	115.0	DVP	942750	AE2-291 TAP	115.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	285.760009766	111.23	113.61	DC	15.08
169215582	314721	3SO HILL	115.0	DVP	943910	AF1-059 TAP	115.0	DVP	1	DVP_P1-2: LN 158	operation	299.859985352	114.42	125.49	DC	33.2
174889212	314723	3VICTRIA	115.0	DVP	314725	3VICT DP	115.0	DVP	1	DVP_P1-2: LN 1045	operation	269.779998779	118.21	192.33	DC	199.94

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174889216	314725	3VICT DP	115.0	DVP	961890	AG1-030 TAP	115.0	DVP	1	DVP_P1-2: LN 1045	operation	269.779998779	116.95	191.07	DC	199.94
169215261	314726	3WILLIS	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	operation	186.119995117	202.77	206.64	DC	16.01
169432006	314744	3BREMO	115.0	DVP	313708	3FORK UNION	115.0	DVP	1	DVP_P1-2: LN 2193	operation	414.540008545	108.45	109.83	DC	12.65
169431755	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	180.16	185.19	DC	33.33
169431759	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	Base Case	operation	661.760009766	124.98	128.99	DC	26.47
169431773	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	operation	269.779998779	169.03	171.57	DC	15.19
175512487	314747	6BREMO	230.0	DVP	313868	6CARTERV	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operation	800.880004883	132.89	135.73	DC	22.74
169431745	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	183.14	187.76	DC	30.55
169431749	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	Base Case	operation	661.760009766	125.01	128.68	DC	24.29
175512663	314781	3BLACKBR	115.0	DVP	314788	3JONESTO	115.0	DVP	1	DVP_P1-2: LN 33-A	operation	246.279998779	86.91	100.38	DC	33.18
175512632	314869	3BURLING	115.0	DVP	314682	3BUGGS I	115.0	DVP	1	DVP_P1-2: LN 33-A	operation	224.660003662	88.46	103.23	DC	33.18
169431791	316115	AC1-105 TAP	115.0	DVP	314696	3SEDGE HILL	115.0	DVP	1	Base Case	operation	331.820007324	116.51	128.88	DC	41.12
163758693	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	Base Case	operation	542.0	135.98	140.94	DC	26.89
173559825	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-B-C	operation	718.0	248.61	254.97	DC	45.92
175280771	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operation	800.880004883	139.99	142.83	DC	22.74
175093318	934620	AD1-088 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P1-2: LN 298-A	operation	571.520019531	155.89	164.54	DC	49.48
174889209	936260	AD2-033 TAP	115.0	DVP	314427	3LUNENBURG	115.0	DVP	1	DVP_P1-2: LN 1045	operation	269.779998779	124.29	198.4	DC	199.94
169010834	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	571.520019531	150.02	151.3	DC	16.24
174889357	936480	AD2-063 TAP	115.0	DVP	314679	3CENTRAL	115.0	DVP	1	DVP_P1-2: LN 158	operation	269.779998779	109.93	120.29	DC	27.94
169706143	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	200.82	202.58	DC	26.39
169706145	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operation	678.679992676	181.2	182.77	DC	23.66
175906888	942750	AE2-291 TAP	115.0	DVP	314694	3GRIT	115.0	DVP	1	DVP_P1-2: LN 556-B-C	operation	285.760009766	152.44	154.82	DC	15.08

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169215546	943910	AF1-059 TAP	115.0	DVP	314675	3BRODNAX	115.0	DVP	1	DVP_P1-2: LN 158	operation	299.859985352	112.62	123.7	DC	33.2
175093294	961060	AF2-397 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	190.76	195.38	DC	30.55
175093296	961060	AF2-397 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	Base Case	operation	661.760009766	128.46	132.13	DC	24.3
169215520	961890	AG1-030 TAP	115.0	DVP	314706	3MARTIN TAP	115.0	DVP	1	DVP_P1-2: LN 1045	operation	269.779998779	172.54	246.65	DC	199.94
169215522	961890	AG1-030 TAP	115.0	DVP	314706	3MARTIN TAP	115.0	DVP	1	Base Case	operation	247.220001221	89.14	106.81	DC	43.67
174889167	962490	AG1-098 TAP	115.0	DVP	313898	3BUTCHER CRK	115.0	DVP	1	Base Case	operation	247.220001221	170.11	233.35	DC	156.33
175512458	962560	AG1-105 TAP	115.0	DVP	314684	3MT LREL	115.0	DVP	1	DVP_P1-2: LN 158	operation	331.820007324	121.45	136.73	DC	50.82
175512459	962560	AG1-105 TAP	115.0	DVP	314684	3MT LREL	115.0	DVP	1	Base Case	operation	331.820007324	100.07	112.43	DC	41.12
175093341	964840	AG1-347 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P1-2: LN 298-A	operation	571.520019531	139.46	148.11	DC	49.48
174690511	964930	AG1-357 TAP	115.0	DVP	936260	AD2-033 TAP	115.0	DVP	1	DVP_P1-2: LN 1045	operation	269.779998779	76.16	150.27	DC	199.94
174889195	964930	AG1-357 TAP	115.0	DVP	962490	AG1-098 TAP	115.0	DVP	1	Base Case	operation	247.220001221	128.6	191.83	DC	156.33
169706545	965590	AG1-427 TAP	115.0	DVP	936480	AD2-063 TAP	115.0	DVP	1	DVP_P1-2: LN 158	operation	269.779998779	96.17	106.53	DC	27.94
175093242	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	559.299987793	276.9	286.29	DC	52.61
175093244	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	operation	559.299987793	169.44	176.92	DC	41.91

13.5 Flow Gate Details - Secondary POI

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

13.5.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168479879	313707	6FORK UNION	DVP	961060	AF2-397 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	150.5	153.27	DC	18.33

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

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

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

13.5.2 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
174889236	314687	3CREWE	DVP	314701	3LONEPN	DVP	1	DVP_P1-2: LN 1045	single	370.36	75.79	108.18	DC	119.97

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	8.5802	80/20	8.5802
936265	AD2-033 C	77.9774	80/20	77.9774
961891	AG1-030 C	89.9739	80/20	89.9739
962491	AG1-098 C O2	74.9783	80/20	74.9783
964821	AG1-345 C	4.7986	80/20	4.7986
964931	AG1-357 C O2	119.9652	80/20	119.9652
CALDERWOOD	CALDERWOOD	0.0144	Confirmed LTF	0.0144
NY	NY	0.0160	Confirmed LTF	0.0160
PRAIRIE	PRAIRIE	0.0749	Confirmed LTF	0.0749
CHEOAH	CHEOAH	0.0145	Confirmed LTF	0.0145
COTTONWOOD	COTTONWOOD	0.0609	Confirmed LTF	0.0609
HAMLET	HAMLET	0.0167	Confirmed LTF	0.0167
GIBSON	GIBSON	0.0158	Confirmed LTF	0.0158
BLUEG	BLUEG	0.0503	Confirmed LTF	0.0503
TRIMBLE	TRIMBLE	0.0161	Confirmed LTF	0.0161
CATAWBA	CATAWBA	0.0101	Confirmed LTF	0.0101

13.5.3 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
169215450	314702	3KERR	DVP	314673	3PALMERSPRNG	DVP	1	DVP_P1-2: LN 45	single	138.18	122.95	131.4	DC	11.68

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

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

13.5.4 Index 4

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174889198	314706	3MARTIN TAP	DVP	314687	3CREWE	DVP	1	DVP_P1-2: LN 1045	single	326.18	84.74	121.52	DC	119.97

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

13.5.5 Index 5

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174889213	314723	3VICTRIA	DVP	314725	3VICT DP	DVP	1	DVP_P1-2: LN 1045	single	269.78	70.85	115.31	DC	119.97

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

13.5.6 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
174889217	314725	3VICT DP	DVP	961890	AG1-030 TAP	DVP	1	DVP_P1-2: LN 1045	single	269.78	69.58	114.05	DC	119.97

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

13.5.7 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
174889210	936260	AD2-033 TAP	DVP	314427	3LUNENBURG	DVP	1	DVP_P1-2: LN 1045	single	269.78	76.92	121.39	DC	119.97

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

13.5.8 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
173878910	962490	AG1-098 TAP	DVP	313898	3BUTCHER CRK	DVP	1	DVP_P4-2: 1T158	breaker	349.0	204.64	261.95	DC	199.98

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	3.9997	50/50	3.9997
314429	3JTRSVLE	2.5241	50/50	2.5241
936265	AD2-033 C	77.9938	50/50	77.9938
936266	AD2-033 E	51.9958	50/50	51.9958
946301	AF1-294 C	25.4980	50/50	25.4980
946302	AF1-294 E	16.9986	50/50	16.9986
958211	AF2-115 C	14.9988	50/50	14.9988
958212	AF2-115 E	9.9992	50/50	9.9992
961791	AG1-021 C	11.9990	50/50	11.9990
961792	AG1-021 E	7.9994	50/50	7.9994
961891	AG1-030 C	89.9928	50/50	89.9928
961892	AG1-030 E	59.9952	50/50	59.9952
962041	AG1-048 C	74.9940	50/50	74.9940
962042	AG1-048 E	49.9960	50/50	49.9960
962491	AG1-098 C O2	74.9940	50/50	74.9940
962492	AG1-098 E O2	49.9960	50/50	49.9960
963171	AG1-166 C	11.9990	50/50	11.9990
963172	AG1-166 E	7.9994	50/50	7.9994
963181	AG1-167 C	11.9990	50/50	11.9990
963182	AG1-167 E	7.9994	50/50	7.9994
963191	AG1-168 C	11.9990	50/50	11.9990
963192	AG1-168 E	7.9994	50/50	7.9994
963201	AG1-169 C	11.9990	50/50	11.9990
963202	AG1-169 E	7.9994	50/50	7.9994
963211	AG1-170 C	11.9990	50/50	11.9990
963212	AG1-170 E	7.9994	50/50	7.9994
964821	AG1-345 C	4.7996	50/50	4.7996
964822	AG1-345 E	3.1997	50/50	3.1997
964931	AG1-357 C O2	119.9904	50/50	119.9904
964932	AG1-357 E O2	79.9936	50/50	79.9936
CALDERWOOD	CALDERWOOD	0.0040	Confirmed LTF	0.0040
NY	NY	0.0044	Confirmed LTF	0.0044
PRAIRIE	PRAIRIE	0.0207	Confirmed LTF	0.0207
O-066	O-066	0.0538	Confirmed LTF	0.0538
CHEOAH	CHEOAH	0.0040	Confirmed LTF	0.0040
COTTONWOOD	COTTONWOOD	0.0168	Confirmed LTF	0.0168
G-007	G-007	0.0084	Confirmed LTF	0.0084
HAMLET	HAMLET	0.0046	Confirmed LTF	0.0046
GIBSON	GIBSON	0.0044	Confirmed LTF	0.0044
BLUEG	BLUEG	0.0139	Confirmed LTF	0.0139
TRIMBLE	TRIMBLE	0.0045	Confirmed LTF	0.0045
CATAWBA	CATAWBA	0.0028	Confirmed LTF	0.0028

13.5.9 Index 9

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173878918	964930	AG1-357 TAP	DVP	962490	AG1-098 TAP	DVP	1	DVP_P4-2: 1T158	breaker	349.0	168.83	226.13	DC	199.98

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	3.9997	50/50	3.9997
314429	3JTRSVLE	2.5241	50/50	2.5241
936265	AD2-033 C	77.9938	50/50	77.9938
936266	AD2-033 E	51.9958	50/50	51.9958
946301	AF1-294 C	25.4980	50/50	25.4980
946302	AF1-294 E	16.9986	50/50	16.9986
958211	AF2-115 C	14.9988	50/50	14.9988
958212	AF2-115 E	9.9992	50/50	9.9992
961791	AG1-021 C	11.9990	50/50	11.9990
961792	AG1-021 E	7.9994	50/50	7.9994
961891	AG1-030 C	89.9928	50/50	89.9928
961892	AG1-030 E	59.9952	50/50	59.9952
962041	AG1-048 C	74.9940	50/50	74.9940
962042	AG1-048 E	49.9960	50/50	49.9960
963171	AG1-166 C	11.9990	50/50	11.9990
963172	AG1-166 E	7.9994	50/50	7.9994
963181	AG1-167 C	11.9990	50/50	11.9990
963182	AG1-167 E	7.9994	50/50	7.9994
963191	AG1-168 C	11.9990	50/50	11.9990
963192	AG1-168 E	7.9994	50/50	7.9994
963201	AG1-169 C	11.9990	50/50	11.9990
963202	AG1-169 E	7.9994	50/50	7.9994
963211	AG1-170 C	11.9990	50/50	11.9990
963212	AG1-170 E	7.9994	50/50	7.9994
964821	AG1-345 C	4.7996	50/50	4.7996
964822	AG1-345 E	3.1997	50/50	3.1997
964931	AG1-357 C O2	119.9904	50/50	119.9904
964932	AG1-357 E O2	79.9936	50/50	79.9936
CALDERWOOD	CALDERWOOD	0.0040	Confirmed LTF	0.0040
NY	NY	0.0044	Confirmed LTF	0.0044
PRAIRIE	PRAIRIE	0.0207	Confirmed LTF	0.0207
O-066	O-066	0.0538	Confirmed LTF	0.0538
CHEOAH	CHEOAH	0.0040	Confirmed LTF	0.0040
COTTONWOOD	COTTONWOOD	0.0168	Confirmed LTF	0.0168
G-007	G-007	0.0084	Confirmed LTF	0.0084
HAMLET	HAMLET	0.0046	Confirmed LTF	0.0046
GIBSON	GIBSON	0.0044	Confirmed LTF	0.0044
BLUEG	BLUEG	0.0139	Confirmed LTF	0.0139
TRIMBLE	TRIMBLE	0.0045	Confirmed LTF	0.0045
CATAWBA	CATAWBA	0.0028	Confirmed LTF	0.0028

13.5.10 Index 10

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174272321	313849	3RIDGERD	DVP	939180	AE1-148 TAP	DVP	1	DVP_P4-2: 15412	breaker	398.6	92.86	109.16	DC	64.96

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	1.0645	50/50	1.0645
313853	3PONTONDP	0.7831	50/50	0.7831
314429	3JTRSVLE	0.4942	50/50	0.4942
314713	3PAMPLIN	0.6079	Adder	0.72
316118	AC1-105 C	3.7084	50/50	3.7084
316129	AC1-054 C	-5.3447	Adder	-6.29
316131	AB2-060 C	3.0117	50/50	3.0117
924022	AB2-043 E O1	6.0330	50/50	6.0330
924162	AB2-060 E OP	8.9833	50/50	8.9833
925611	AC1-036 C	0.4844	50/50	0.4844
925612	AC1-036 E	1.8384	50/50	1.8384
926274	AC1-105 E	1.8220	50/50	1.8220
935222	AD1-157 E	0.3748	Adder	0.44
936265	AD2-033 C	22.3743	50/50	22.3743
936266	AD2-033 E	14.9162	50/50	14.9162
936485	AD2-063 C	32.1282	50/50	32.1282
936486	AD2-063 E	21.4188	50/50	21.4188
938371	AE1-056 C	2.4237	Adder	2.85
938372	AE1-056 E	1.3243	Adder	1.56
940662	AE2-053 BAT	5.9206	50/50	5.9206
942451	AE2-258	5.0334	50/50	5.0334
942461	AE2-259 C O1	3.7480	Adder	4.41
942462	AE2-259 E O1	2.4987	Adder	2.94
946301	AF1-294 C	4.9924	50/50	4.9924
946302	AF1-294 E	3.3283	50/50	3.3283
958211	AF2-115 C	2.9367	50/50	2.9367
958212	AF2-115 E	1.9578	50/50	1.9578
958801	AF2-171 C	5.6220	Adder	6.61
958802	AF2-171 E	3.7480	Adder	4.41
959311	AF2-222 C	6.2458	Adder	7.35
959312	AF2-222 E	4.1847	Adder	4.92
961791	AG1-021 C	2.3494	50/50	2.3494
961792	AG1-021 E	1.5662	50/50	1.5662
961891	AG1-030 C	19.9539	50/50	19.9539
961892	AG1-030 E	13.3026	50/50	13.3026
962041	AG1-048 C	14.6835	50/50	14.6835
962042	AG1-048 E	9.7890	50/50	9.7890
962491	AG1-098 C O2	25.4977	50/50	25.4977
962492	AG1-098 E O2	16.9985	50/50	16.9985
962561	AG1-105 C O2	12.1302	50/50	12.1302
962562	AG1-105 E O2	8.0868	50/50	8.0868
963171	AG1-166 C	2.3494	50/50	2.3494

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

13.5.11 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
174454234	314267	3CHASCTY2	DVP	314669	3BARNJ	DVP	1	DVP_P4-2: 15832	breaker	406.0	126.32	140.9	DC	59.34

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

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

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

13.5.12 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
174067007	314267	3CHASCTY2	DVP	313849	3RIDGERD	DVP	1	DVP_P4-2: 15412	breaker	453.0	97.27	111.61	DC	64.96

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	1.0645	50/50	1.0645
313853	3PONTONDP	0.7831	50/50	0.7831
314429	3JTRSVLE	0.4942	50/50	0.4942
314713	3PAMPLIN	0.6079	Adder	0.72
316118	AC1-105 C	3.7084	50/50	3.7084
316129	AC1-054 C	-5.3447	Adder	-6.29
316131	AB2-060 C	3.0117	50/50	3.0117
924022	AB2-043 E O1	6.0330	50/50	6.0330
924162	AB2-060 E OP	8.9833	50/50	8.9833
925611	AC1-036 C	0.4844	50/50	0.4844
925612	AC1-036 E	1.8384	50/50	1.8384
926274	AC1-105 E	1.8220	50/50	1.8220
935222	AD1-157 E	0.3748	Adder	0.44
936265	AD2-033 C	22.3743	50/50	22.3743
936266	AD2-033 E	14.9162	50/50	14.9162
936485	AD2-063 C	32.1282	50/50	32.1282
936486	AD2-063 E	21.4188	50/50	21.4188
938371	AE1-056 C	2.4237	Adder	2.85
938372	AE1-056 E	1.3243	Adder	1.56
940662	AE2-053 BAT	5.9206	50/50	5.9206
942451	AE2-258	5.0334	50/50	5.0334
942461	AE2-259 C O1	3.7480	Adder	4.41
942462	AE2-259 E O1	2.4987	Adder	2.94
946301	AF1-294 C	4.9924	50/50	4.9924
946302	AF1-294 E	3.3283	50/50	3.3283
958211	AF2-115 C	2.9367	50/50	2.9367
958212	AF2-115 E	1.9578	50/50	1.9578
958801	AF2-171 C	5.6220	Adder	6.61
958802	AF2-171 E	3.7480	Adder	4.41
959311	AF2-222 C	6.2458	Adder	7.35
959312	AF2-222 E	4.1847	Adder	4.92
961791	AG1-021 C	2.3494	50/50	2.3494
961792	AG1-021 E	1.5662	50/50	1.5662
961891	AG1-030 C	19.9539	50/50	19.9539
961892	AG1-030 E	13.3026	50/50	13.3026
962041	AG1-048 C	14.6835	50/50	14.6835
962042	AG1-048 E	9.7890	50/50	9.7890
962491	AG1-098 C O2	25.4977	50/50	25.4977
962492	AG1-098 E O2	16.9985	50/50	16.9985
962561	AG1-105 C O2	12.1302	50/50	12.1302
962562	AG1-105 E O2	8.0868	50/50	8.0868
963171	AG1-166 C	2.3494	50/50	2.3494

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

13.5.13 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
174454236	314669	3BARN J	DVP	962560	AG1-105 TAP	DVP	1	DVP_P4-2: 15832	breaker	406.0	125.46	140.04	DC	59.34

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

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

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

13.5.14 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
174272237	314681	3CHASCTY	DVP	314708	3NORVIEW	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	120.33	129.98	DC	38.62

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

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

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

13.5.15 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
166961560	314681	3CHASCTY	DVP	314781	3BLACKBR	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	102.05	115.96	DC	41.87

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6786	50/50	0.6786
313853	3PONTONDP	0.5479	50/50	0.5479
314429	3JTRSVLE	0.3458	50/50	0.3458
314713	3PAMPLIN	1.1895	50/50	1.1895
316129	AC1-054 C	-3.5586	Adder	-4.19
316131	AB2-060 C	1.9221	50/50	1.9221
924022	AB2-043 E O1	3.8463	50/50	3.8463
924162	AB2-060 E OP	5.7331	50/50	5.7331
925611	AC1-036 C	0.2426	50/50	0.2426
925612	AC1-036 E	0.9209	50/50	0.9209
935221	AD1-157 C	0.1736	50/50	0.1736
935222	AD1-157 E	0.7334	50/50	0.7334
936265	AD2-033 C	14.6671	50/50	14.6671
936266	AD2-033 E	9.7781	50/50	9.7781
936485	AD2-063 C	18.7920	50/50	18.7920
936486	AD2-063 E	12.5280	50/50	12.5280
938371	AE1-056 C	4.7425	50/50	4.7425
938372	AE1-056 E	2.5913	50/50	2.5913
940662	AE2-053 BAT	2.9720	50/50	2.9720
942451	AE2-258	3.2090	50/50	3.2090
942461	AE2-259 C O1	4.1764	Adder	4.91
942462	AE2-259 E O1	2.7843	Adder	3.28
943911	AF1-059	13.6212	50/50	13.6212
946301	AF1-294 C	3.4930	50/50	3.4930
946302	AF1-294 E	2.3287	50/50	2.3287
958211	AF2-115 C	2.0547	50/50	2.0547
958212	AF2-115 E	1.3698	50/50	1.3698
958801	AF2-171 C	12.4101	50/50	12.4101
958802	AF2-171 E	8.2734	50/50	8.2734
959311	AF2-222 C	17.2850	50/50	17.2850
959312	AF2-222 E	11.5809	50/50	11.5809
961791	AG1-021 C	1.6438	50/50	1.6438
961792	AG1-021 E	1.0958	50/50	1.0958
961891	AG1-030 C	13.6368	50/50	13.6368
961892	AG1-030 E	9.0912	50/50	9.0912
962041	AG1-048 C	10.2735	50/50	10.2735
962042	AG1-048 E	6.8490	50/50	6.8490
962491	AG1-098 C O2	16.3365	50/50	16.3365
962492	AG1-098 E O2	10.8910	50/50	10.8910
962561	AG1-105 C O2	6.6834	50/50	6.6834
962562	AG1-105 E O2	4.4556	50/50	4.4556

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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 O2	18.5187	50/50	18.5187
963361	AG1-185 O2	8.9598	50/50	8.9598
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
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
964931	AG1-357 C O2	25.1196	50/50	25.1196
964932	AG1-357 E O2	16.7464	50/50	16.7464
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 O2	6.0473	50/50	6.0473
965452	AG1-413 E O2	4.0316	50/50	4.0316
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O2	2.8710	50/50	2.8710
965602	AG1-428 E O2	1.9106	50/50	1.9106
965641	AG1-432 C O2	4.4270	Adder	9.83
965642	AG1-432 E O2	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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.16 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
166961558	314683	3CLRKVILLE	DVP	314869	3BURLING	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	102.42	116.33	DC	41.87

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
962491	AG1-098 C O2	16.3365	50/50	16.3365
962492	AG1-098 E O2	10.8910	50/50	10.8910
962561	AG1-105 C O2	6.6834	50/50	6.6834
962562	AG1-105 E O2	4.4556	50/50	4.4556
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 O2	18.5187	50/50	18.5187
963361	AG1-185 O2	8.9598	50/50	8.9598
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
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
964931	AG1-357 C O2	25.1196	50/50	25.1196
964932	AG1-357 E O2	16.7464	50/50	16.7464
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 O2	6.0473	50/50	6.0473
965452	AG1-413 E O2	4.0316	50/50	4.0316
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O2	2.8710	50/50	2.8710
965602	AG1-428 E O2	1.9106	50/50	1.9106
965641	AG1-432 C O2	4.4270	Adder	9.83
965642	AG1-432 E O2	2.9513	Adder	6.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

13.5.17 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
174067070	314690	6BLACK WALNU	DVP	314686	6CLOVER	DVP	1	DVP_P4-2: 15832	breaker	997.0	99.55	103.61	DC	40.66

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6060	50/50	0.6060
313853	3PONTONDP	0.8131	50/50	0.8131
314429	3JTRSVLE	0.5131	50/50	0.5131
314713	3PAMPLIN	1.9773	50/50	1.9773
315162	1KERR 5	1.0629	50/50	1.0629
315163	1KERR 6	1.0629	50/50	1.0629
315164	1KERR 7	1.0629	50/50	1.0629
315266	1PLYWOOD A	2.4160	50/50	2.4160
316118	AC1-105 C	11.5875	50/50	11.5875
316123	AC1-075 C	1.5598	50/50	1.5598
316129	AC1-054 C	4.1619	Adder	4.9
316131	AB2-060 C	1.7450	50/50	1.7450
924022	AB2-043 E O1	3.4348	50/50	3.4348
924162	AB2-060 E OP	5.2050	50/50	5.2050
924301	AB2-077 C O1 (Suspended)	2.4685	50/50	2.4685
924302	AB2-077 E O1 (Suspended)	1.6457	50/50	1.6457
924311	AB2-078 C O1 (Suspended)	2.4685	50/50	2.4685
924312	AB2-078 E O1 (Suspended)	1.6457	50/50	1.6457
924321	AB2-079 C O1 (Suspended)	2.4685	50/50	2.4685
924322	AB2-079 E O1 (Suspended)	1.6457	50/50	1.6457
925611	AC1-036 C	0.2757	50/50	0.2757
925612	AC1-036 E	1.0465	50/50	1.0465
925661	AC1-042 C	1.5685	Adder	1.85
925662	AC1-042 E	2.5591	Adder	3.01
925785	AC1-054 E	1.9173	Adder	2.26
925997	AC1-075 E	5.6014	50/50	5.6014
926023	AC1-080 C	0.5213	50/50	0.5213
926024	AC1-080 E	1.8585	50/50	1.8585
926274	AC1-105 E	5.6930	50/50	5.6930
926646	AC1-145 E	1.6756	Adder	1.97
927251	AC1-221 C	3.3167	50/50	3.3167
927252	AC1-221 E	3.3167	50/50	3.3167
927261	AC1-222 C	7.9181	50/50	7.9181
927262	AC1-222 E	7.5378	50/50	7.5378
932761	AC2-100 C	7.6329	50/50	7.6329
932762	AC2-100 E	3.7256	50/50	3.7256
934311	AD1-055 C	5.4977	50/50	5.4977

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934312	AD1-055 E	1.4177	50/50	1.4177
934341	AD1-058 C	8.3144	50/50	8.3144
934342	AD1-058 E	2.1127	50/50	2.1127
934615	AD1-087 C	31.1161	50/50	31.1161
934616	AD1-087 E	13.3151	50/50	13.3151
934991	AD1-131 C	2.7260	50/50	2.7260
934992	AD1-131 E	1.8174	50/50	1.8174
935171	AD1-152 C O1	34.1779	50/50	34.1779
935172	AD1-152 E O1	22.7853	50/50	22.7853
935221	AD1-157 C	0.2885	50/50	0.2885
935222	AD1-157 E	1.2191	50/50	1.2191
936161	AD2-022 C O1	6.3036	Adder	7.42
936162	AD2-022 E O1	3.7822	Adder	4.45
936171	AD2-023 C O1	3.6771	Adder	4.33
936172	AD2-023 E O1	1.9961	Adder	2.35
936265	AD2-033 C	15.8574	50/50	15.8574
936266	AD2-033 E	10.5716	50/50	10.5716
936361	AD2-046 C O1	9.1790	50/50	9.1790
936362	AD2-046 E O1	4.2210	50/50	4.2210
936485	AD2-063 C	18.2907	50/50	18.2907
936486	AD2-063 E	12.1938	50/50	12.1938
937481	AD2-202 C O1	9.1141	50/50	9.1141
937482	AD2-202 E O1	5.1267	50/50	5.1267
938371	AE1-056 C	7.8834	50/50	7.8834
938372	AE1-056 E	4.3074	50/50	4.3074
939181	AE1-148 C	9.1233	50/50	9.1233
939182	AE1-148 E	6.0822	50/50	6.0822
939941	AE1-230 C	0.7076	Adder	0.83
939942	AE1-230 E	1.2579	Adder	1.48
940661	AE2-053 O1	3.3790	50/50	3.3790
941801	AE2-185 C	3.5380	Adder	4.16
941802	AE2-185 E	2.3586	Adder	2.77
941821	AE2-187 C	3.5380	Adder	4.16
941822	AE2-187 E	1.5724	Adder	1.85
942451	AE2-258	2.8657	50/50	2.8657
942461	AE2-259 C O1	12.1890	50/50	12.1890
942462	AE2-259 E O1	8.1260	50/50	8.1260
942671	AE2-283 C	3.8918	Adder	4.58
942672	AE2-283 E	2.0442	Adder	2.4
942751	AE2-291 C	13.4701	50/50	13.4701
942752	AE2-291 E	8.9801	50/50	8.9801
942761	AE2-292 C O1	16.7716	50/50	16.7716
942762	AE2-292 E O1	11.1811	50/50	11.1811
943901	AF1-058 C	4.4440	50/50	4.4440
943902	AF1-058 E	2.9626	50/50	2.9626
943911	AF1-059	11.0274	Adder	12.97
945081	AF1-173	1.3710	Adder	1.61
946301	AF1-294 C	5.1834	50/50	5.1834
946302	AF1-294 E	3.4556	50/50	3.4556
958211	AF2-115 C	3.0491	50/50	3.0491
958212	AF2-115 E	2.0327	50/50	2.0327
958801	AF2-171 C	18.2862	50/50	18.2862

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958802	AF2-171 E	12.1908	50/50	12.1908
959311	AF2-222 C	20.3210	50/50	20.3210
959312	AF2-222 E	13.6151	50/50	13.6151
959752	AF2-266 BAT	14.2725	50/50	14.2725
960061	AF2-297 C	17.7758	50/50	17.7758
960062	AF2-297 E	11.8506	50/50	11.8506
961121	AF2-403	0.7862	Adder	0.92
961791	AG1-021 C	2.4392	50/50	2.4392
961792	AG1-021 E	1.6262	50/50	1.6262
961891	AG1-030 C	18.2952	50/50	18.2952
961892	AG1-030 E	12.1968	50/50	12.1968
962041	AG1-048 C	15.2453	50/50	15.2453
962042	AG1-048 E	10.1635	50/50	10.1635
962441	AG1-093 C O2	53.4649	50/50	53.4649
962442	AG1-093 E O2	16.2719	50/50	16.2719
962491	AG1-098 C O2	15.2482	50/50	15.2482
962492	AG1-098 E O2	10.1655	50/50	10.1655
962561	AG1-105 C O2	17.1342	50/50	17.1342
962562	AG1-105 E O2	11.4228	50/50	11.4228
963171	AG1-166 C	2.4392	50/50	2.4392
963172	AG1-166 E	1.6262	50/50	1.6262
963181	AG1-167 C	2.4392	50/50	2.4392
963182	AG1-167 E	1.6262	50/50	1.6262
963191	AG1-168 C	2.4392	50/50	2.4392
963192	AG1-168 E	1.6262	50/50	1.6262
963201	AG1-169 C	2.4392	50/50	2.4392
963202	AG1-169 E	1.6262	50/50	1.6262
963211	AG1-170 C	2.4392	50/50	2.4392
963212	AG1-170 E	1.6262	50/50	1.6262
963321	AG1-181 C O2	20.5425	50/50	20.5425
963361	AG1-185 O2	9.9390	50/50	9.9390
963601	AG1-209 C	0.1458	Adder	0.32
963602	AG1-209 E	0.2188	Adder	0.49
963641	AG1-215 C	1.1383	50/50	1.1383
963642	AG1-215 E	1.7075	50/50	1.7075
964111	AG1-272 C	3.1335	50/50	3.1335
964112	AG1-272 E	0.9307	50/50	0.9307
964121	AG1-273 C	3.1335	50/50	3.1335
964122	AG1-273 E	0.9307	50/50	0.9307
964131	AG1-274 C	3.1335	50/50	3.1335
964132	AG1-274 E	0.9307	50/50	0.9307
964141	AG1-275 C	0.6250	Adder	1.39
964142	AG1-275 E	0.4167	Adder	0.92
964151	AG1-276 C	0.6250	Adder	1.39
964152	AG1-276 E	0.4167	Adder	0.92
964261	AG1-287 C	3.3330	50/50	3.3330
964262	AG1-287 E	2.2220	50/50	2.2220
964471	AG1-310 C	4.4993	50/50	4.4993
964472	AG1-310 E	2.2161	50/50	2.2161
964791	AG1-342 C	7.5860	50/50	7.5860
964792	AG1-342 E	5.9604	50/50	5.9604
964821	AG1-345 C	0.9757	50/50	0.9757

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964822	AG1-345 E	0.6505	50/50	0.6505
964843	AG1-347 BAT	4.5560	50/50	4.5560
964931	AG1-357 C O2	24.3972	50/50	24.3972
964932	AG1-357 E O2	16.2648	50/50	16.2648
965191	AG1-384 C	3.1335	50/50	3.1335
965192	AG1-384 E	0.9307	50/50	0.9307
965281	AG1-393 C	2.4392	50/50	2.4392
965282	AG1-393 E	1.6262	50/50	1.6262
965451	AG1-413 C O2	2.5729	Adder	5.71
965452	AG1-413 E O2	1.7153	Adder	3.81
965591	AG1-427 C	14.4497	50/50	14.4497
965592	AG1-427 E	9.6534	50/50	9.6534
965641	AG1-432 C O2	24.3780	50/50	24.3780
965642	AG1-432 E O2	16.2520	50/50	16.2520
965721	AG1-440 C	2.8783	Adder	6.39
965722	AG1-440 E	1.9189	Adder	4.26
965731	AG1-441 C	2.8783	Adder	6.39
965732	AG1-441 E	1.9189	Adder	4.26
965771	AG1-445	1.6630	Adder	3.69
965781	AG1-446	1.6630	Adder	3.69
965831	AG1-451	4.0630	50/50	4.0630
966691	AG1-539 C	7.0432	50/50	7.0432
966692	AG1-539 E	9.4643	50/50	9.4643
966761	AG1-547 C	1.6949	Adder	3.76
966762	AG1-547 E	0.9094	Adder	2.02
WEC	WEC	0.7295	Confirmed LTF	0.7295
LGEE	LGEE	1.5067	Confirmed LTF	1.5067
CPL	CPL	5.5105	Confirmed LTF	5.5105
CBM-W2	CBM-W2	27.6147	Confirmed LTF	27.6147
NY	NY	0.4147	Confirmed LTF	0.4147
TVA	TVA	4.9700	Confirmed LTF	4.9700
O-066	O-066	6.5281	Confirmed LTF	6.5281
SIGE	SIGE	0.3629	Confirmed LTF	0.3629
CBM-S2	CBM-S2	66.0434	Confirmed LTF	66.0434
CBM-S1	CBM-S1	1.2696	Confirmed LTF	1.2696
G-007	G-007	1.0321	Confirmed LTF	1.0321
MEC	MEC	4.1044	Confirmed LTF	4.1044
LAGN	LAGN	6.1355	Confirmed LTF	6.1355
AA2-074	AA2-074	3.6436	LTF	3.6436
CBM-W1	CBM-W1	31.0683	Confirmed LTF	31.0683

13.5.18 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
174272239	314708	3NORVIEW	DVP	314721	3SO HILL	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	119.55	129.21	DC	38.62

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

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

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

13.5.19 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
173043586	314713	3PAMPLIN	DVP	314726	3WILLIS	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	104.85	111.33	DC	26.32

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3927	50/50	0.3927
313853	3PONTONDP	0.5263	50/50	0.5263
314429	3JTRSVLE	0.3321	50/50	0.3321
314713	3PAMPLIN	5.4537	50/50	5.4537
316131	AB2-060 C	1.1293	50/50	1.1293
924022	AB2-043 E O1	2.2256	50/50	2.2256
924162	AB2-060 E OP	3.3684	50/50	3.3684
924301	AB2-077 C O1 (Suspended)	1.5223	50/50	1.5223
924302	AB2-077 E O1 (Suspended)	1.0149	50/50	1.0149
924311	AB2-078 C O1 (Suspended)	1.5223	50/50	1.5223
924312	AB2-078 E O1 (Suspended)	1.0149	50/50	1.0149
924321	AB2-079 C O1 (Suspended)	1.5223	50/50	1.5223
924322	AB2-079 E O1 (Suspended)	1.0149	50/50	1.0149
925611	AC1-036 C	0.4480	50/50	0.4480
925612	AC1-036 E	1.7004	50/50	1.7004
935221	AD1-157 C	0.7957	50/50	0.7957
935222	AD1-157 E	3.3623	50/50	3.3623
936265	AD2-033 C	10.2632	50/50	10.2632
936266	AD2-033 E	6.8422	50/50	6.8422
936361	AD2-046 C O1	4.1591	Adder	4.89
936362	AD2-046 E O1	1.9126	Adder	2.25
936485	AD2-063 C	18.7335	50/50	18.7335
936486	AD2-063 E	12.4890	50/50	12.4890
938371	AE1-056 C	21.7431	50/50	21.7431
938372	AE1-056 E	11.8803	50/50	11.8803
939181	AE1-148 C	4.1760	Adder	4.91
939182	AE1-148 E	2.7840	Adder	3.28
940661	AE2-053 O1	1.5467	Adder	1.82
942451	AE2-258	1.8568	50/50	1.8568
943911	AF1-059	7.5256	Adder	8.85
946301	AF1-294 C	3.3553	50/50	3.3553
946302	AF1-294 E	2.2369	50/50	2.2369
958211	AF2-115 C	1.9737	50/50	1.9737
958212	AF2-115 E	1.3158	50/50	1.3158
958801	AF2-171 C	44.6994	50/50	44.6994
958802	AF2-171 E	29.7996	50/50	29.7996

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959311	AF2-222 C	35.4420	50/50	35.4420
959312	AF2-222 E	23.7461	50/50	23.7461
961791	AG1-021 C	1.5790	50/50	1.5790
961792	AG1-021 E	1.0526	50/50	1.0526
961891	AG1-030 C	11.8422	50/50	11.8422
961892	AG1-030 E	7.8948	50/50	7.8948
962041	AG1-048 C	9.8685	50/50	9.8685
962042	AG1-048 E	6.5790	50/50	6.5790
962491	AG1-098 C O2	9.8685	50/50	9.8685
962492	AG1-098 E O2	6.5790	50/50	6.5790
962561	AG1-105 C O2	2.3292	Adder	5.17
962562	AG1-105 E O2	1.5528	Adder	3.45
963171	AG1-166 C	1.5790	50/50	1.5790
963172	AG1-166 E	1.0526	50/50	1.0526
963181	AG1-167 C	1.5790	50/50	1.5790
963182	AG1-167 E	1.0526	50/50	1.0526
963191	AG1-168 C	1.5790	50/50	1.5790
963192	AG1-168 E	1.0526	50/50	1.0526
963201	AG1-169 C	1.5790	50/50	1.5790
963202	AG1-169 E	1.0526	50/50	1.0526
963211	AG1-170 C	1.5790	50/50	1.5790
963212	AG1-170 E	1.0526	50/50	1.0526
963301	AG1-179 C	1.1030	Adder	2.45
963311	AG1-180	0.5374	Adder	1.19
963321	AG1-181 C O2	31.5775	50/50	31.5775
963361	AG1-185 O2	15.2780	50/50	15.2780
963641	AG1-215 C	0.7368	50/50	0.7368
963642	AG1-215 E	1.1053	50/50	1.1053
964111	AG1-272 C	5.0914	50/50	5.0914
964112	AG1-272 E	1.5122	50/50	1.5122
964121	AG1-273 C	5.0914	50/50	5.0914
964122	AG1-273 E	1.5122	50/50	1.5122
964131	AG1-274 C	5.0914	50/50	5.0914
964132	AG1-274 E	1.5122	50/50	1.5122
964791	AG1-342 C	0.8813	Adder	1.96
964792	AG1-342 E	0.6925	Adder	1.54
964821	AG1-345 C	0.6316	50/50	0.6316
964822	AG1-345 E	0.4211	50/50	0.4211
964931	AG1-357 C O2	15.7896	50/50	15.7896
964932	AG1-357 E O2	10.5264	50/50	10.5264
965191	AG1-384 C	5.0914	50/50	5.0914
965192	AG1-384 E	1.5122	50/50	1.5122
965281	AG1-393 C	1.5790	50/50	1.5790
965282	AG1-393 E	1.0526	50/50	1.0526
965451	AG1-413 C O2	1.7448	Adder	3.87
965452	AG1-413 E O2	1.1632	Adder	2.58
965591	AG1-427 C	13.4848	50/50	13.4848
965592	AG1-427 E	9.0088	50/50	9.0088
965601	AG1-428 C O2	0.9208	Adder	2.04
965602	AG1-428 E O2	0.6128	Adder	1.36
965721	AG1-440 C	1.4769	Adder	3.28
965722	AG1-440 E	0.9846	Adder	2.19

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965731	AG1-441 C	1.4769	Adder	3.28
965732	AG1-441 E	0.9846	Adder	2.19
965771	AG1-445	0.8533	Adder	1.89
965781	AG1-446	0.8533	Adder	1.89
965832	AG1-451 BAT	5.5092	50/50	5.5092
WEC	WEC	0.0513	Confirmed LTF	0.0513
LGEE	LGEE	0.1049	Confirmed LTF	0.1049
CPLE	CPLE	0.7869	Confirmed LTF	0.7869
CBM-W2	CBM-W2	2.5805	Confirmed LTF	2.5805
NY	NY	0.0780	Confirmed LTF	0.0780
TVA	TVA	0.5054	Confirmed LTF	0.5054
O-066	O-066	1.0499	Confirmed LTF	1.0499
SIGE	SIGE	0.0357	Confirmed LTF	0.0357
CBM-S2	CBM-S2	8.7800	Confirmed LTF	8.7800
CBM-S1	CBM-S1	0.1239	Confirmed LTF	0.1239
G-007	G-007	0.1648	Confirmed LTF	0.1648
MEC	MEC	0.3273	Confirmed LTF	0.3273
LAGN	LAGN	0.6300	Confirmed LTF	0.6300
CBM-W1	CBM-W1	2.1170	Confirmed LTF	2.1170

13.5.20 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
166961579	314715	3MADSONV	DVP	314713	3PAMPLIN	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	101.79	108.28	DC	26.33

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3928	50/50	0.3928
313853	3PONTONDP	0.5265	50/50	0.5265
314429	3JTRSVLE	0.3323	50/50	0.3323
316118	AC1-105 C	1.7138	Adder	2.02
316129	AC1-054 C	2.2305	Adder	2.62
316131	AB2-060 C	1.1297	50/50	1.1297
924022	AB2-043 E O1	2.2264	50/50	2.2264
924162	AB2-060 E OP	3.3697	50/50	3.3697
924301	AB2-077 C O1 (Suspended)	1.5229	50/50	1.5229
924302	AB2-077 E O1 (Suspended)	1.0153	50/50	1.0153
924311	AB2-078 C O1 (Suspended)	1.5229	50/50	1.5229
924312	AB2-078 E O1 (Suspended)	1.0153	50/50	1.0153
924321	AB2-079 C O1 (Suspended)	1.5229	50/50	1.5229
924322	AB2-079 E O1 (Suspended)	1.0153	50/50	1.0153
925611	AC1-036 C	0.4481	50/50	0.4481
925612	AC1-036 E	1.7007	50/50	1.7007
925785	AC1-054 E	1.0276	Adder	1.21
926274	AC1-105 E	0.8420	Adder	0.99
936265	AD2-033 C	10.2671	50/50	10.2671
936266	AD2-033 E	6.8448	50/50	6.8448
936361	AD2-046 C O1	4.1615	Adder	4.9
936362	AD2-046 E O1	1.9137	Adder	2.25
936485	AD2-063 C	18.7380	50/50	18.7380
936486	AD2-063 E	12.4920	50/50	12.4920
939181	AE1-148 C	4.1778	Adder	4.92
939182	AE1-148 E	2.7852	Adder	3.28
940661	AE2-053 O1	1.5473	Adder	1.82
942451	AE2-258	1.8575	50/50	1.8575
943911	AF1-059	7.5298	Adder	8.86
946301	AF1-294 C	3.3566	50/50	3.3566
946302	AF1-294 E	2.2377	50/50	2.2377
958211	AF2-115 C	1.9745	50/50	1.9745
958212	AF2-115 E	1.3163	50/50	1.3163
958801	AF2-171 C	44.7039	50/50	44.7039
958802	AF2-171 E	29.8026	50/50	29.8026
959311	AF2-222 C	35.4470	50/50	35.4470

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959312	AF2-222 E	23.7495	50/50	23.7495
961791	AG1-021 C	1.5796	50/50	1.5796
961792	AG1-021 E	1.0530	50/50	1.0530
961891	AG1-030 C	11.8467	50/50	11.8467
961892	AG1-030 E	7.8978	50/50	7.8978
962041	AG1-048 C	9.8723	50/50	9.8723
962042	AG1-048 E	6.5815	50/50	6.5815
962491	AG1-098 C O2	9.8723	50/50	9.8723
962492	AG1-098 E O2	6.5815	50/50	6.5815
962561	AG1-105 C O2	2.3305	Adder	5.17
962562	AG1-105 E O2	1.5537	Adder	3.45
963171	AG1-166 C	1.5796	50/50	1.5796
963172	AG1-166 E	1.0530	50/50	1.0530
963181	AG1-167 C	1.5796	50/50	1.5796
963182	AG1-167 E	1.0530	50/50	1.0530
963191	AG1-168 C	1.5796	50/50	1.5796
963192	AG1-168 E	1.0530	50/50	1.0530
963201	AG1-169 C	1.5796	50/50	1.5796
963202	AG1-169 E	1.0530	50/50	1.0530
963211	AG1-170 C	1.5796	50/50	1.5796
963212	AG1-170 E	1.0530	50/50	1.0530
963301	AG1-179 C	1.1036	Adder	2.45
963311	AG1-180	0.5377	Adder	1.19
963321	AG1-181 C O2	31.5825	50/50	31.5825
963361	AG1-185 O2	15.2805	50/50	15.2805
963641	AG1-215 C	0.7371	50/50	0.7371
963642	AG1-215 E	1.1057	50/50	1.1057
964111	AG1-272 C	5.0921	50/50	5.0921
964112	AG1-272 E	1.5125	50/50	1.5125
964121	AG1-273 C	5.0921	50/50	5.0921
964122	AG1-273 E	1.5125	50/50	1.5125
964131	AG1-274 C	5.0921	50/50	5.0921
964132	AG1-274 E	1.5125	50/50	1.5125
964791	AG1-342 C	0.8819	Adder	1.96
964792	AG1-342 E	0.6929	Adder	1.54
964821	AG1-345 C	0.6318	50/50	0.6318
964822	AG1-345 E	0.4212	50/50	0.4212
964931	AG1-357 C O2	15.7956	50/50	15.7956
964932	AG1-357 E O2	10.5304	50/50	10.5304
965191	AG1-384 C	5.0921	50/50	5.0921
965192	AG1-384 E	1.5125	50/50	1.5125
965281	AG1-393 C	1.5796	50/50	1.5796
965282	AG1-393 E	1.0530	50/50	1.0530
965451	AG1-413 C O2	1.7456	Adder	3.87
965452	AG1-413 E O2	1.1637	Adder	2.58
965591	AG1-427 C	13.4877	50/50	13.4877
965592	AG1-427 E	9.0108	50/50	9.0108
965601	AG1-428 C O2	0.9213	Adder	2.05
965602	AG1-428 E O2	0.6131	Adder	1.36
965721	AG1-440 C	1.4777	Adder	3.28
965722	AG1-440 E	0.9851	Adder	2.19
965731	AG1-441 C	1.4777	Adder	3.28

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965732	AG1-441 E	0.9851	Adder	2.19
965771	AG1-445	0.8538	Adder	1.9
965781	AG1-446	0.8538	Adder	1.9
965832	AG1-451 BAT	5.5082	50/50	5.5082
WEC	WEC	0.0526	Confirmed LTF	0.0526
LGEE	LGEE	0.1074	Confirmed LTF	0.1074
CPLE	CPLE	0.7897	Confirmed LTF	0.7897
CBM-W2	CBM-W2	2.6163	Confirmed LTF	2.6163
NY	NY	0.0758	Confirmed LTF	0.0758
TVA	TVA	0.5110	Confirmed LTF	0.5110
O-066	O-066	1.0230	Confirmed LTF	1.0230
SIGE	SIGE	0.0357	Confirmed LTF	0.0357
CBM-S2	CBM-S2	8.8218	Confirmed LTF	8.8218
CBM-S1	CBM-S1	0.1254	Confirmed LTF	0.1254
G-007	G-007	0.1607	Confirmed LTF	0.1607
MEC	MEC	0.3337	Confirmed LTF	0.3337
LAGN	LAGN	0.6370	Confirmed LTF	0.6370
CBM-W1	CBM-W1	2.1731	Confirmed LTF	2.1731

13.5.21 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
166961538	314781	3BLACKBR	DVP	314788	3JONESTO	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	106.41	120.32	DC	41.87

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
962491	AG1-098 C O2	16.3365	50/50	16.3365
962492	AG1-098 E O2	10.8910	50/50	10.8910
962561	AG1-105 C O2	6.6834	50/50	6.6834
962562	AG1-105 E O2	4.4556	50/50	4.4556
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 O2	18.5187	50/50	18.5187
963361	AG1-185 O2	8.9598	50/50	8.9598
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
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
964931	AG1-357 C O2	25.1196	50/50	25.1196
964932	AG1-357 E O2	16.7464	50/50	16.7464
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 O2	6.0473	50/50	6.0473
965452	AG1-413 E O2	4.0316	50/50	4.0316
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O2	2.8710	50/50	2.8710
965602	AG1-428 E O2	1.9106	50/50	1.9106
965641	AG1-432 C O2	4.4270	Adder	9.83
965642	AG1-432 E O2	2.9513	Adder	6.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

13.5.22 Index 22

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166961544	314788	3JONESTO	DVP	314683	3CLRKVILLE	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	105.04	118.95	DC	41.87

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
962491	AG1-098 C O2	16.3365	50/50	16.3365
962492	AG1-098 E O2	10.8910	50/50	10.8910
962561	AG1-105 C O2	6.6834	50/50	6.6834
962562	AG1-105 E O2	4.4556	50/50	4.4556
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 O2	18.5187	50/50	18.5187
963361	AG1-185 O2	8.9598	50/50	8.9598
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
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
964931	AG1-357 C O2	25.1196	50/50	25.1196
964932	AG1-357 E O2	16.7464	50/50	16.7464
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 O2	6.0473	50/50	6.0473
965452	AG1-413 E O2	4.0316	50/50	4.0316
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O2	2.8710	50/50	2.8710
965602	AG1-428 E O2	1.9106	50/50	1.9106
965641	AG1-432 C O2	4.4270	Adder	9.83
965642	AG1-432 E O2	2.9513	Adder	6.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

13.5.23 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
166961562	314869	3BURLING	DVP	314682	3BUGGS I	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	101.32	115.23	DC	41.87

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
962491	AG1-098 C O2	16.3365	50/50	16.3365
962492	AG1-098 E O2	10.8910	50/50	10.8910
962561	AG1-105 C O2	6.6834	50/50	6.6834
962562	AG1-105 E O2	4.4556	50/50	4.4556
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 O2	18.5187	50/50	18.5187
963361	AG1-185 O2	8.9598	50/50	8.9598
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
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
964931	AG1-357 C O2	25.1196	50/50	25.1196
964932	AG1-357 E O2	16.7464	50/50	16.7464
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 O2	6.0473	50/50	6.0473
965452	AG1-413 E O2	4.0316	50/50	4.0316
965591	AG1-427 C	15.1685	50/50	15.1685
965592	AG1-427 E	10.1336	50/50	10.1336
965601	AG1-428 C O2	2.8710	50/50	2.8710
965602	AG1-428 E O2	1.9106	50/50	1.9106
965641	AG1-432 C O2	4.4270	Adder	9.83
965642	AG1-432 E O2	2.9513	Adder	6.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

13.5.24 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
174066933	316115	AC1-105 TAP	DVP	314696	3SEEDGE HILL	DVP	1	DVP_P4-2: 3612	breaker	406.0	120.25	137.68	DC	70.92

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

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

13.5.25 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
174548076	242520	05J.FERR	AEP	242514	05J.FERR	AEP	1	AEP_P4_#10162_05EDAN 1 138_P	breaker	1845.0	101.78	102.37	DC	23.94

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
244165	05FRIES	-0.4545	Adder	-0.53
313506	AB1-173 C OP	4.2788	Adder	5.03
313719	3CHESTNUT	1.1060	50/50	1.1060
313853	3PONTONDP	0.3471	Adder	0.41
314539	3UNCAMP	3.1398	Adder	3.69
314541	3WATKINS	0.3711	Adder	0.44
314572	3EMPORIA	0.2568	Adder	0.3
314594	6PLYMOTH	0.0541	Adder	0.06
314623	3WITAKRS	0.2154	50/50	0.2154
315131	1EDGECEMA (Deactivation : 22/04/2019)	9.7997	50/50	9.7997
315132	1EDGECEMB (Deactivation : 22/04/2019)	9.7997	50/50	9.7997
315160	1KERR 3	0.9340	50/50	0.9340
315161	1KERR 4	0.9340	50/50	0.9340
315162	1KERR 5	0.9340	50/50	0.9340
315163	1KERR 6	0.9340	50/50	0.9340
315164	1KERR 7	0.9340	50/50	0.9340
315293	1DOMTR9	4.4227	Adder	5.2
315294	1DOMTR10	5.4200	Adder	6.38
315601	1CONETOE2SOL	1.3516	50/50	1.3516
316020	AB2-059 C OP	1.7558	50/50	1.7558
316088	AB2-174 E	3.9807	Adder	4.68
316097	AB2-100 E1	1.6219	Adder	1.91
316099	AB2-100 E2	1.6219	Adder	1.91
316103	AB2-015 C	4.5751	Adder	5.38
316104	AB2-015 E	3.7516	Adder	4.41
316118	AC1-105 C	3.6818	Adder	4.33
316129	AC1-054 C	5.1692	Adder	6.08
316140	AB2-099 C (Suspended)	0.3761	Adder	0.44
316141	AB2-099 E (Suspended)	0.1612	Adder	0.19
900672	V4-068 E	0.1824	Adder	0.21
916042	Z1-036 E (Suspended)	22.8635	Adder	26.9
917332	Z2-043 E	0.7293	Adder	0.86
917342	Z2-044 E	0.5851	50/50	0.5851
917512	Z2-088 E OP1	8.0173	50/50	8.0173
918492	AA1-063AE OP	2.5720	Adder	3.03
918512	AA1-065 E OP	2.5824	Adder	3.04
918532	AA1-067 E	0.6939	50/50	0.6939
919692	AA2-053 E OP	2.4996	Adder	2.94
919702	AA2-057 E OP	3.3091	50/50	3.3091
920042	AA2-088 E OP	6.1596	Adder	7.25

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
920591	AA2-165 C	0.1485	50/50	0.1485
920592	AA2-165 E	0.4548	50/50	0.4548
920692	AA2-178 E	2.3154	Adder	2.72
922922	AB1-081 C OP	1.4898	50/50	1.4898
922923	AB1-081 E OP	4.0469	50/50	4.0469
923262	AB1-132 C OP (Suspended)	9.4034	Adder	11.06
923263	AB1-132 E OP (Suspended)	4.0300	Adder	4.74
923573	AB1-173 E OP	0.6672	Adder	0.78
923991	AB2-040 C O1	4.6600	Adder	5.48
923992	AB2-040 E O1	3.8128	Adder	4.49
924022	AB2-043 E O1	1.7830	Adder	2.1
924152	AB2-059 E OP	5.7331	50/50	5.7331
924162	AB2-060 E OP	2.6828	Adder	3.16
924301	AB2-077 C O1 (Suspended)	1.2745	Adder	1.5
924302	AB2-077 E O1 (Suspended)	0.8497	Adder	1.0
924311	AB2-078 C O1 (Suspended)	1.2745	Adder	1.5
924312	AB2-078 E O1 (Suspended)	0.8497	Adder	1.0
924321	AB2-079 C O1 (Suspended)	1.2745	Adder	1.5
924322	AB2-079 E O1 (Suspended)	0.8497	Adder	1.0
925122	AB2-169 E	4.0644	Adder	4.78
925591	AC1-034 C	7.2085	50/50	7.2085
925592	AC1-034 E	5.4380	50/50	5.4380
925612	AC1-036 E	0.4913	Adder	0.58
925785	AC1-054 E	2.3813	Adder	2.8
926070	AC1-086 C	13.8476	Adder	16.29
926071	AC1-086 E	6.3025	Adder	7.41
926201	AC1-098 C	5.4324	50/50	5.4324
926202	AC1-098 E	3.2364	50/50	3.2364
926211	AC1-099 C	1.8204	50/50	1.8204
926212	AC1-099 E	1.0692	50/50	1.0692
926274	AC1-105 E	1.8089	Adder	2.13
927024	AC1-189 C	8.5023	50/50	8.5023
927025	AC1-189 E	4.2353	50/50	4.2353
927145	AC1-208 C	8.1338	50/50	8.1338
927146	AC1-208 E	3.5971	50/50	3.5971
927251	AC1-221 C	2.8416	50/50	2.8416
927252	AC1-221 E	2.8416	50/50	2.8416
927261	AC1-222 C	2.1698	Adder	2.55
927262	AC1-222 E	2.0655	Adder	2.43
932631	AC2-084 C	7.7441	50/50	7.7441
932632	AC2-084 E	3.8143	50/50	3.8143
932761	AC2-100 C	6.5396	50/50	6.5396
932762	AC2-100 E	3.1919	50/50	3.1919
933991	AD1-023 C	8.0271	Adder	9.44
933992	AD1-023 E	4.3700	Adder	5.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934311	AD1-055 C	1.5065	Adder	1.77
934312	AD1-055 E	0.3885	Adder	0.46
934331	AD1-057 C O1	9.3623	50/50	9.3623
934332	AD1-057 E O1	4.9943	50/50	4.9943
934341	AD1-058 C	7.1235	50/50	7.1235
934342	AD1-058 E	1.8101	50/50	1.8101
934521	AD1-076 C	32.6433	Adder	38.4
934522	AD1-076 E	16.6219	Adder	19.56
934615	AD1-087 C	4.4333	Adder	5.22
934616	AD1-087 E	1.8971	Adder	2.23
934625	AD1-088 C	6.2984	Adder	7.41
934626	AD1-088 E	1.6496	Adder	1.94
934991	AD1-131 C	2.3356	50/50	2.3356
934992	AD1-131 E	1.5570	50/50	1.5570
935171	AD1-152 C O1	4.8695	Adder	5.73
935172	AD1-152 E O1	3.2463	Adder	3.82
936161	AD2-022 C O1	12.9228	50/50	12.9228
936162	AD2-022 E O1	7.7537	50/50	7.7537
936171	AD2-023 C O1	7.5383	50/50	7.5383
936172	AD2-023 E O1	4.0922	50/50	4.0922
936265	AD2-033 C	7.5933	Adder	8.93
936266	AD2-033 E	5.0622	Adder	5.96
936361	AD2-046 C O1	6.4360	Adder	7.57
936362	AD2-046 E O1	2.9596	Adder	3.48
936401	AD2-051 C O1	5.6446	Adder	6.64
936402	AD2-051 E O1	2.4237	Adder	2.85
936485	AD2-063 C	9.1448	Adder	10.76
936486	AD2-063 E	6.0965	Adder	7.17
937481	AD2-202 C O1	1.2985	Adder	1.53
937482	AD2-202 E O1	0.7304	Adder	0.86
937493	AD2-205 BAT	0.4124	Merchant Transmission	0.4124
938222	AE1-035 E	0.7102	Adder	0.84
938494	AE1-068_C1	14.7086	Adder	17.3
938497	AE1-068_C2	14.7086	Adder	17.3
938498	AE1-068_E1	8.1309	Adder	9.57
938499	AE1-068_E2	8.1309	Adder	9.57
938504	AE1-069_C1	11.2096	Adder	13.19
938507	AE1-069_C2	12.0867	Adder	14.22
938508	AE1-069_E1	6.3768	Adder	7.5
938509	AE1-069_E2	6.8701	Adder	8.08
938771	AE1-103 C	1.8414	Adder	2.17
938772	AE1-103 E	2.5429	Adder	2.99
939181	AE1-148 C	6.3158	Adder	7.43
939182	AE1-148 E	4.2106	Adder	4.95
940471	AE2-031 C	15.2795	Adder	17.98
940472	AE2-031 E	10.1864	Adder	11.98
940481	AE2-033 C	7.6671	Adder	9.02
940482	AE2-033 E	5.1689	Adder	6.08
940491	AE2-034 C	4.0519	Adder	4.77
940492	AE2-034 E	1.7365	Adder	2.04
940571	AE2-044 C	4.7214	50/50	4.7214
940572	AE2-044 E	2.0234	50/50	2.0234

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940661	AE2-053 O1	2.3392	Adder	2.75
941031	AE2-094 C	18.2073	Adder	21.42
941032	AE2-094 E	8.1546	Adder	9.59
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.3812	Adder	0.45
941791	AE2-182 C	1.0233	Adder	1.2
941792	AE2-182 E	0.4764	Adder	0.56
942451	AE2-258	1.4876	Adder	1.75
942471	AE2-260 C O1	7.9883	Adder	9.4
942472	AE2-260 E O1	11.3305	Adder	13.33
942931	AE2-313 C	16.5889	Adder	19.52
942932	AE2-313 E	11.0593	Adder	13.01
943033	AE2-326 BAT	5.7681	Merchant Transmission	5.7681
943171	AE2-346 C	0.9026	Adder	1.06
943172	AE2-346 E	0.3868	Adder	0.46
943901	AF1-058 C	1.2844	Adder	1.51
943902	AF1-058 E	0.8563	Adder	1.01
943911	AF1-059	10.2870	Adder	12.1
944011	AF1-069 C	5.9490	Adder	7.0
944012	AF1-069 E	2.3111	Adder	2.72
944141	AF1-082	3.0352	50/50	3.0352
945711	AF1-236 C O1	44.3592	Adder	52.19
945712	AF1-236 E O1	27.3989	Adder	32.23
945811	AF1-246 C O1	4.1130	Adder	4.84
945812	AF1-246 E O1	5.6799	Adder	6.68
946011	AF1-266	6.4180	Adder	7.55
946281	AF1-292 C	0.9031	Adder	1.06
946282	AF1-292 E	0.6088	Adder	0.72
946301	AF1-294 C	2.2128	Adder	2.6
946302	AF1-294 E	1.4752	Adder	1.74
954211	J888	2.5375	PJM External (MISO)	2.5375
957481	AF2-042 C	29.3785	Adder	34.56
957482	AF2-042 E	19.5857	Adder	23.04
957521	AF2-046 C	10.3662	Adder	12.2
957522	AF2-046 E	5.2143	Adder	6.13
957531	AF2-047 C	9.6282	Adder	11.33
957532	AF2-047 E	4.8430	Adder	5.7
957861	AF2-080 C	7.7222	50/50	7.7222
957862	AF2-080 E	3.4232	50/50	3.4232
958211	AF2-115 C	1.3016	Adder	1.53
958212	AF2-115 E	0.8678	Adder	1.02
958801	AF2-171 C	7.8244	Adder	9.21
958802	AF2-171 E	5.2163	Adder	6.14
959311	AF2-222 C	9.4171	Adder	11.08
959312	AF2-222 E	6.3095	Adder	7.42
959511	AF2-242 C	6.4220	50/50	6.4220
959512	AF2-242 E	4.9949	50/50	4.9949
959751	AF2-266	5.0617	Adder	5.95
960061	AF2-297 C	5.1375	Adder	6.04
960062	AF2-297 E	3.4250	Adder	4.03
960081	AF2-299 C	1.5221	Adder	1.79
960082	AF2-299 E	1.0147	Adder	1.19

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961091	AF2-400 C	0.2471	Adder	0.29
961092	AF2-400 E	0.4054	Adder	0.48
961671	AG1-007 C	1.2592	50/50	1.2592
961672	AG1-007 E	0.7032	50/50	0.7032
961681	AG1-008 C	5.5051	Adder	12.22
961682	AG1-008 E	2.7526	Adder	6.11
961791	AG1-021 C	0.5519	Adder	1.23
961792	AG1-021 E	0.3679	Adder	0.82
961891	AG1-030 C	4.2828	Adder	9.51
961892	AG1-030 E	2.8552	Adder	6.34
961931	AG1-036 C	0.4541	Adder	1.01
961932	AG1-036 E	0.3027	Adder	0.67
961941	AG1-037 C	0.1709	Adder	0.38
961942	AG1-037 E	0.1139	Adder	0.25
962041	AG1-048 C	3.4494	Adder	7.66
962042	AG1-048 E	2.2996	Adder	5.1
962271	AG1-075 C O2	4.2553	Adder	9.45
962272	AG1-075 E O2	2.5934	Adder	5.76
962331	AG1-082 C	0.6834	Adder	1.52
962332	AG1-082 E	0.4556	Adder	1.01
962341	AG1-083 C	0.6834	Adder	1.52
962342	AG1-083 E	0.4556	Adder	1.01
962351	AG1-084 C	0.6060	Adder	1.35
962352	AG1-084 E	0.4040	Adder	0.9
962361	AG1-085 C	0.6060	Adder	1.35
962362	AG1-085 E	0.4040	Adder	0.9
962441	AG1-093 C O2	5.5007	Adder	12.21
962442	AG1-093 E O2	1.6741	Adder	3.72
962491	AG1-098 C O2	4.1150	Adder	9.13
962492	AG1-098 E O2	2.7433	Adder	6.09
962561	AG1-105 C O2	3.3790	Adder	7.5
962562	AG1-105 E O2	2.2527	Adder	5.0
962571	AG1-106 C	2.0410	Adder	4.53
962572	AG1-106 E	0.9256	Adder	2.05
963041	AG1-153 C	1.5225	Adder	3.38
963042	AG1-153 E	2.2837	Adder	5.07
963111	AG1-160 C	1.4822	Adder	3.29
963112	AG1-160 E	2.2233	Adder	4.94
963171	AG1-166 C	0.5519	Adder	1.23
963172	AG1-166 E	0.3679	Adder	0.82
963181	AG1-167 C	0.5519	Adder	1.23
963182	AG1-167 E	0.3679	Adder	0.82
963191	AG1-168 C	0.5519	Adder	1.23
963192	AG1-168 E	0.3679	Adder	0.82
963201	AG1-169 C	0.5519	Adder	1.23
963202	AG1-169 E	0.3679	Adder	0.82
963211	AG1-170 C	0.5519	Adder	1.23
963212	AG1-170 E	0.3679	Adder	0.82
963301	AG1-179 C	1.8374	Adder	4.08
963311	AG1-180	0.8952	Adder	1.99
963321	AG1-181 C O2	5.1603	Adder	11.45
963361	AG1-185 O2	2.4967	Adder	5.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963641	AG1-215 C	0.2576	Adder	0.57
963642	AG1-215 E	0.3863	Adder	0.86
964111	AG1-272 C	0.7797	Adder	1.73
964112	AG1-272 E	0.2316	Adder	0.51
964121	AG1-273 C	0.7797	Adder	1.73
964122	AG1-273 E	0.2316	Adder	0.51
964131	AG1-274 C	0.7797	Adder	1.73
964132	AG1-274 E	0.2316	Adder	0.51
964241	AG1-285 C O2	3.8639	Adder	8.58
964242	AG1-285 E O2	2.5760	Adder	5.72
964261	AG1-287 C	0.5105	Adder	1.13
964262	AG1-287 E	0.3404	Adder	0.76
964471	AG1-310 C	0.6374	Adder	1.41
964472	AG1-310 E	0.3139	Adder	0.7
964491	AG1-312 C O1	6.3529	Adder	14.1
964492	AG1-312 E O1	1.5882	Adder	3.53
964501	AG1-313 C O2	1.6161	Adder	3.59
964502	AG1-313 E O2	1.0774	Adder	2.39
964791	AG1-342 C	1.4210	Adder	3.15
964792	AG1-342 E	1.1165	Adder	2.48
964801	AG1-343 C	1.8708	Adder	4.15
964802	AG1-343 E	1.4699	Adder	3.26
964821	AG1-345 C	0.2210	Adder	0.49
964822	AG1-345 E	0.1473	Adder	0.33
964841	AG1-347 C	2.5594	Adder	5.68
964842	AG1-347 E	2.0109	Adder	4.46
964931	AG1-357 C O2	6.4721	Adder	14.37
964932	AG1-357 E O2	4.3147	Adder	9.58
965191	AG1-384 C	0.7797	Adder	1.73
965192	AG1-384 E	0.2316	Adder	0.51
965281	AG1-393 C	0.5519	Adder	1.23
965282	AG1-393 E	0.3679	Adder	0.82
965291	AG1-394 C	0.6385	Adder	1.42
965292	AG1-394 E	0.4257	Adder	0.94
965451	AG1-413 C O2	2.2953	Adder	5.1
965452	AG1-413 E O2	1.5302	Adder	3.4
965591	AG1-427 C	3.8645	Adder	8.58
965592	AG1-427 E	2.5818	Adder	5.73
965601	AG1-428 C O2	1.5339	Adder	3.4
965602	AG1-428 E O2	1.0208	Adder	2.27
965631	AG1-431	13.6113	Adder	30.21
965691	AG1-437 C O1	3.3236	Adder	7.38
965692	AG1-437 E O1	2.2157	Adder	4.92
965701	AG1-438 C O1	3.3236	Adder	7.38
965702	AG1-438 E O1	2.2157	Adder	4.92
965711	AG1-439 C O1	24.2460	50/50	24.2460
965712	AG1-439 E O1	16.1640	50/50	16.1640
965721	AG1-440 C	2.8258	Adder	6.27
965722	AG1-440 E	1.8839	Adder	4.18
965731	AG1-441 C	2.8258	Adder	6.27
965732	AG1-441 E	1.8839	Adder	4.18
965741	AG1-442 O1	1.9388	Adder	4.3

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965751	AG1-443 O1	1.9388	Adder	4.3
965761	AG1-444 O1	12.9312	50/50	12.9312
965771	AG1-445	1.6327	Adder	3.62
965781	AG1-446	1.6327	Adder	3.62
965811	AG1-449	5.6780	Adder	12.6
966361	AG1-505 C	4.4275	Adder	9.83
966362	AG1-505 E	2.9517	Adder	6.55
966371	AG1-506 C	4.4275	Adder	9.83
966372	AG1-506 E	2.9517	Adder	6.55
966621	AG1-532 C	0.4356	Adder	0.97
966622	AG1-532 E	0.2904	Adder	0.64
966751	AG1-546 C	5.9849	Adder	13.29
966752	AG1-546 E	3.2113	Adder	7.13
966801	AG1-551 C	2.0738	50/50	2.0738
966802	AG1-551 E	0.8888	50/50	0.8888
966811	AG1-552 C	0.7451	Adder	1.65
966812	AG1-552 E	0.3193	Adder	0.71
966931	AG1-431A	10.2263	Adder	22.7
CPL	CPL	15.5098	Confirmed LTF	15.5098
G-007A	G-007A	1.3042	Confirmed LTF	1.3042
VFT	VFT	3.4249	Confirmed LTF	3.4249
CBM-W2	CBM-W2	40.9293	Confirmed LTF	40.9293
TVA	TVA	10.1136	Confirmed LTF	10.1136
CBM-S2	CBM-S2	274.7599	Confirmed LTF	274.7599
CBM-S1	CBM-S1	2.1785	Confirmed LTF	2.1785
CBM-N	CBM-N	0.6048	Confirmed LTF	0.6048
MEC	MEC	2.1817	Confirmed LTF	2.1817
GIBSON	GIBSON	0.2348	Confirmed LTF	0.2348
BLUEG	BLUEG	1.9929	Confirmed LTF	1.9929
TRIMBLE	TRIMBLE	0.7095	Confirmed LTF	0.7095
LAGN	LAGN	13.3455	Confirmed LTF	13.3455
AA2-074	AA2-074	10.2114	LTF	10.2114

13.5.26 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
168204355	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	127.61	129.73	DC	8.58

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

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965771	AG1-445	2.0740	80/20	2.0740
965781	AG1-446	2.0740	80/20	2.0740
966621	AG1-532 C	0.2328	Adder	0.52
966751	AG1-546 C	7.3693	80/20	7.3693
966801	AG1-551 C	1.0116	80/20	1.0116
966811	AG1-552 C	0.8720	80/20	0.8720
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

13.5.27 Index 27

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166961528	313705	3KERRDP	DVP	314702	3KERR	DVP	1	DVP_P7-1: LN 171-1009	tower	195.0	105.75	119.2	DC	26.21

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	10.9420	50/50	10.9420
959312	AF2-222 E	7.3311	50/50	7.3311
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
962491	AG1-098 C O2	10.2067	50/50	10.2067
962492	AG1-098 E O2	6.8045	50/50	6.8045
962561	AG1-105 C O2	6.3654	50/50	6.3654
962562	AG1-105 E O2	4.2436	50/50	4.2436
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 O2	11.6799	50/50	11.6799
963361	AG1-185 O2	5.6511	50/50	5.6511
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
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
964931	AG1-357 C O2	15.7272	50/50	15.7272

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964932	AG1-357 E O2	10.4848	50/50	10.4848
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 O2	1.5335	Adder	3.4
965452	AG1-413 E O2	1.0223	Adder	2.27
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O2	0.6379	Adder	1.42
965602	AG1-428 E O2	0.4245	Adder	0.94
965641	AG1-432 C O2	3.0047	Adder	6.67
965642	AG1-432 E O2	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
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

13.5.28 Index 28

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173878988	313725	6DRY BREAD	DVP	314583	6LAKEVEW	DVP	1	DVP_P4-2: 23872	breaker	459.0	137.4	139.16	DC	17.99

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

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

13.5.29 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
168479819	313755	3FLAT CREEK	DVP	314707	3MORAN	DVP	1	DVP_P1-2: LN 1045	single	203.98	217.67	276.48	DC	119.96

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

13.5.30 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
175280775	313825	3PLYWOOD	DVP	314696	3SEEDGE HILL	DVP	1	DVP_P1-2: LN 33-A	single	141.0	102.82	115.05	DC	17.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4681	80/20	0.4681
314429	3JTRSVLE	0.2289	80/20	0.2289
314704	3LAWRENC	0.1364	80/20	0.1364
315158	1KERR 1	0.3575	80/20	0.3575
315159	1KERR 2	1.0009	80/20	1.0009
315160	1KERR 3	1.0009	80/20	1.0009
315161	1KERR 4	1.0009	80/20	1.0009
315162	1KERR 5	1.0009	80/20	1.0009
315163	1KERR 6	1.0009	80/20	1.0009
315164	1KERR 7	1.0009	80/20	1.0009
315266	1PLYWOOD A	5.4698	80/20	5.4698
316129	AC1-054 C	4.6525	80/20	4.6525
316131	AB2-060 C	1.3253	80/20	1.3253
924301	AB2-077 C O1 (Suspended)	2.1170	80/20	2.1170
924311	AB2-078 C O1 (Suspended)	2.1170	80/20	2.1170
924321	AB2-079 C O1 (Suspended)	2.1170	80/20	2.1170
925611	AC1-036 C	0.1645	80/20	0.1645
927261	AC1-222 C	-1.8953	Adder	-2.23
934311	AD1-055 C	-1.3160	Adder	-1.55
935221	AD1-157 C	0.1134	80/20	0.1134
936265	AD2-033 C	9.9918	80/20	9.9918
936361	AD2-046 C O1	8.3312	80/20	8.3312
936485	AD2-063 C	12.8889	80/20	12.8889
938371	AE1-056 C	3.0974	80/20	3.0974
939181	AE1-148 C	8.2199	80/20	8.2199
940661	AE2-053 O1	3.0444	80/20	3.0444
942451	AE2-258	2.2133	80/20	2.2133
942461	AE2-259 C O1	3.0180	80/20	3.0180
943901	AF1-058 C	-1.0700	Adder	-1.26
943911	AF1-059	10.6461	80/20	10.6461
946301	AF1-294 C	2.3123	80/20	2.3123
958211	AF2-115 C	1.3602	80/20	1.3602
958801	AF2-171 C	8.2170	80/20	8.2170
959311	AF2-222 C	11.6890	80/20	11.6890
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
962491	AG1-098 C O2	11.2448	80/20	11.2448
963171	AG1-166 C	1.0882	80/20	1.0882

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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 O2	12.5817	80/20	12.5817
963361	AG1-185 O2	6.0873	80/20	6.0873
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
964821	AG1-345 C	0.4370	80/20	0.4370
964931	AG1-357 C O2	17.2440	80/20	17.2440
965191	AG1-384 C	1.8698	80/20	1.8698
965281	AG1-393 C	1.0882	80/20	1.0882
965451	AG1-413 C O2	4.6521	80/20	4.6521
965591	AG1-427 C	10.4190	80/20	10.4190
965601	AG1-428 C O2	2.4728	80/20	2.4728
965641	AG1-432 C O2	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
G-007A	G-007A	0.0288	Confirmed LTF	0.0288
VFT	VFT	0.0710	Confirmed LTF	0.0710
CALDERWOOD	CALDERWOOD	0.0934	Confirmed LTF	0.0934
NY	NY	0.0011	Confirmed LTF	0.0011
PRAIRIE	PRAIRIE	0.4391	Confirmed LTF	0.4391
CHEOAH	CHEOAH	0.0936	Confirmed LTF	0.0936
CBM-N	CBM-N	0.0120	Confirmed LTF	0.0120
COTTONWOOD	COTTONWOOD	0.3654	Confirmed LTF	0.3654
HAMLET	HAMLET	0.0635	Confirmed LTF	0.0635
GIBSON	GIBSON	0.0917	Confirmed LTF	0.0917
BLUEG	BLUEG	0.2951	Confirmed LTF	0.2951
TRIMBLE	TRIMBLE	0.0946	Confirmed LTF	0.0946
CATAWBA	CATAWBA	0.0644	Confirmed LTF	0.0644

13.5.31 Index 31

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168479901	313867	6BREMODIST	DVP	313707	6FORK UNION	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	150.9	153.92	DC	20.0

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

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

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

13.5.32 Index 32

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
175512500	313868	6CARTERV	DVP	933500	AC2-165 TAP	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88	110.7	112.4	DC	13.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2811	80/20	0.2811
314429	3JTRSVLE	0.4835	80/20	0.4835
314677	6BUCKING	0.8051	80/20	0.8051
315153	1CLOVER1	4.3284	80/20	4.3284
315154	1CLOVER2	4.2852	80/20	4.2852
315158	1KERR 1	0.1411	80/20	0.1411
315159	1KERR 2	0.3952	80/20	0.3952
315160	1KERR 3	0.3952	80/20	0.3952
315161	1KERR 4	0.3952	80/20	0.3952
315162	1KERR 5	0.3952	80/20	0.3952
315163	1KERR 6	0.3952	80/20	0.3952
315164	1KERR 7	0.3952	80/20	0.3952
315191	1BEARGRDN G1	14.2612	80/20	14.2612
315192	1BEARGRDN G2	14.2612	80/20	14.2612
315193	1BEARGRDN S1	18.4425	80/20	18.4425
315266	1PLYWOOD A	0.4253	80/20	0.4253
316118	AC1-105 C	2.1876	80/20	2.1876
316131	AB2-060 C	0.8407	80/20	0.8407
924301	AB2-077 C O1 (Suspended)	1.0994	80/20	1.0994
924311	AB2-078 C O1 (Suspended)	1.0994	80/20	1.0994
924321	AB2-079 C O1 (Suspended)	1.0994	80/20	1.0994
925611	AC1-036 C	0.1990	80/20	0.1990
927261	AC1-222 C	1.2313	80/20	1.2313
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7931	80/20	0.7931
934311	AD1-055 C	0.8549	80/20	0.8549
934615	AD1-087 C	2.7103	80/20	2.7103
934625	AD1-088 C	10.6986	80/20	10.6986
935171	AD1-152 C O1	2.9770	80/20	2.9770
935221	AD1-157 C	0.2946	80/20	0.2946
936265	AD2-033 C	10.6548	80/20	10.6548
936361	AD2-046 C O1	3.5828	80/20	3.5828
936485	AD2-063 C	10.3014	80/20	10.3014
937481	AD2-202 C O1	0.7939	80/20	0.7939
938371	AE1-056 C	8.0510	80/20	8.0510
938821	AE1-108 C O1	29.3760	80/20	29.3760
939181	AE1-148 C	3.5932	80/20	3.5932
940661	AE2-053 O1	1.3308	80/20	1.3308

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941011	AE2-092 C	25.2822	80/20	25.2822
941791	AE2-182 C	1.7381	80/20	1.7381
942451	AE2-258	1.3291	80/20	1.3291
942461	AE2-259 C O1	15.0516	80/20	15.0516
943901	AF1-058 C	0.6646	80/20	0.6646
943911	AF1-059	5.9093	80/20	5.9093
946291	AF1-293 C O1	39.5443	80/20	39.5443
946301	AF1-294 C	4.8845	80/20	4.8845
946591	AF1-323 C	9.4261	80/20	9.4261
958131	AF2-107 C	4.3750	80/20	4.3750
958211	AF2-115 C	2.8733	80/20	2.8733
958801	AF2-171 C	17.1603	80/20	17.1603
959311	AF2-222 C	15.3100	80/20	15.3100
959751	AF2-266	3.1070	80/20	3.1070
960061	AF2-297 C	2.6582	80/20	2.6582
960111	AF2-302 C	3.4277	80/20	3.4277
961061	AF2-397 C	36.6538	80/20	36.6538
961791	AG1-021 C	2.2986	80/20	2.2986
961801	AG1-022 C	3.4277	80/20	3.4277
961891	AG1-030 C	15.8310	80/20	15.8310
962041	AG1-048 C	14.3663	80/20	14.3663
962441	AG1-093 C O2	5.1308	80/20	5.1308
962491	AG1-098 C O2	7.8412	80/20	7.8412
962561	AG1-105 C O2	4.5072	80/20	4.5072
962741	AG1-123 C O2	2.8673	80/20	2.8673
962751	AG1-124 C O2	4.0170	80/20	4.0170
963171	AG1-166 C	2.2986	80/20	2.2986
963181	AG1-167 C	2.2986	80/20	2.2986
963191	AG1-168 C	2.2986	80/20	2.2986
963201	AG1-169 C	2.2986	80/20	2.2986
963211	AG1-170 C	2.2986	80/20	2.2986
963271	AG1-176 C O2	21.5558	80/20	21.5558
963321	AG1-181 C O2	14.3538	80/20	14.3538
963361	AG1-185 O2	6.9447	80/20	6.9447
963641	AG1-215 C	1.0727	80/20	1.0727
964111	AG1-272 C	2.2620	80/20	2.2620
964121	AG1-273 C	2.2620	80/20	2.2620
964131	AG1-274 C	2.2620	80/20	2.2620
964231	AG1-284 C O2	17.0478	80/20	17.0478
964261	AG1-287 C	0.4984	80/20	0.4984
964471	AG1-310 C	0.7118	80/20	0.7118
964791	AG1-342 C	1.8023	80/20	1.8023
964821	AG1-345 C	0.9168	80/20	0.9168
964841	AG1-347 C	9.1353	80/20	9.1353
964931	AG1-357 C O2	13.6428	80/20	13.6428
965191	AG1-384 C	2.2620	80/20	2.2620
965281	AG1-393 C	2.2986	80/20	2.2986
965451	AG1-413 C O2	2.6075	80/20	2.6075
965581	AG1-426	6.4000	80/20	6.4000
965591	AG1-427 C	7.7911	80/20	7.7911
965641	AG1-432 C O2	30.1032	80/20	30.1032
965721	AG1-440 C	2.3620	80/20	2.3620

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965731	AG1-441 C	2.3620	80/20	2.3620
965771	AG1-445	1.3647	80/20	1.3647
965781	AG1-446	1.3647	80/20	1.3647
965831	AG1-451	5.0172	80/20	5.0172
966251	AG1-494 C	1.6494	80/20	1.6494
966791	AG1-550 O2	14.2065	80/20	14.2065
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1932	80/20	4.1932
WEC	WEC	0.1988	Confirmed LTF	0.1988
LGEE	LGEE	0.4247	Confirmed LTF	0.4247
CPL	CPL	1.0859	Confirmed LTF	1.0859
CBM-W2	CBM-W2	7.3114	Confirmed LTF	7.3114
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.3104	Confirmed LTF	1.3104
SIG	SIG	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.5012	Confirmed LTF	14.5012
CBM-S1	CBM-S1	0.3374	Confirmed LTF	0.3374
MEC	MEC	1.1075	Confirmed LTF	1.1075
LAGN	LAGN	1.5942	Confirmed LTF	1.5942
CBM-W1	CBM-W1	8.3419	Confirmed LTF	8.3419

13.5.33 Index 33

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173878905	313898	3BUTCHER CRK	DVP	314267	3CHASCTY2	DVP	1	DVP_P4-2: 1T158	breaker	349.0	227.65	284.93	DC	199.93

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

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

13.5.34 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
174272300	314266	6NORTHAMPTON	DVP	936400	AD2-051 TAP	DVP	1	DVP_P4-2: 23872	breaker	699.0	116.7	117.75	DC	16.28

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

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

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

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

13.5.35 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
166961631	314267	3CHASCTY2	DVP	314681	3CHASCTY	DVP	Z1	DVP_P7-1: LN 158-235	tower	582.0	116.09	136.08	DC	116.32

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	2.3263	50/50	2.3263
314429	3JTRSVLE	1.4681	50/50	1.4681
316118	AC1-105 C	6.3960	50/50	6.3960
316131	AB2-060 C	4.9915	50/50	4.9915
924162	AB2-060 E OP	14.8884	50/50	14.8884
926274	AC1-105 E	3.1424	50/50	3.1424
936265	AD2-033 C	45.3632	50/50	45.3632
936266	AD2-033 E	30.2422	50/50	30.2422
939181	AE1-148 C	6.7937	50/50	6.7937
939182	AE1-148 E	4.5292	50/50	4.5292
940661	AE2-053 O1	2.5162	50/50	2.5162
943912	AF1-059 BAT	26.2612	50/50	26.2612
946301	AF1-294 C	14.8303	50/50	14.8303
946302	AF1-294 E	9.8869	50/50	9.8869
958211	AF2-115 C	8.7237	50/50	8.7237
958212	AF2-115 E	5.8158	50/50	5.8158
961791	AG1-021 C	6.9790	50/50	6.9790
961792	AG1-021 E	4.6526	50/50	4.6526
961891	AG1-030 C	52.3422	50/50	52.3422
961892	AG1-030 E	34.8948	50/50	34.8948
962041	AG1-048 C	43.6185	50/50	43.6185
962042	AG1-048 E	29.0790	50/50	29.0790
962491	AG1-098 C O2	43.6185	50/50	43.6185
962492	AG1-098 E O2	29.0790	50/50	29.0790
962561	AG1-105 C O2	20.1450	50/50	20.1450
962562	AG1-105 E O2	13.4300	50/50	13.4300
963171	AG1-166 C	6.9790	50/50	6.9790
963172	AG1-166 E	4.6526	50/50	4.6526
963181	AG1-167 C	6.9790	50/50	6.9790
963182	AG1-167 E	4.6526	50/50	4.6526
963191	AG1-168 C	6.9790	50/50	6.9790
963192	AG1-168 E	4.6526	50/50	4.6526
963201	AG1-169 C	6.9790	50/50	6.9790
963202	AG1-169 E	4.6526	50/50	4.6526
963211	AG1-170 C	6.9790	50/50	6.9790
963212	AG1-170 E	4.6526	50/50	4.6526
963312	AG1-180 BAT	6.1563	50/50	6.1563
963362	AG1-185 BAT	29.7855	50/50	29.7855
963641	AG1-215 C	3.2568	50/50	3.2568
963642	AG1-215 E	4.8853	50/50	4.8853
964113	AG1-272 BAT	6.4480	50/50	6.4480

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964123	AG1-273 BAT	6.4480	50/50	6.4480
964133	AG1-274 BAT	6.4480	50/50	6.4480
964791	AG1-342 C	7.2967	50/50	7.2967
964792	AG1-342 E	5.7331	50/50	5.7331
964821	AG1-345 C	2.7916	50/50	2.7916
964822	AG1-345 E	1.8611	50/50	1.8611
964931	AG1-357 C O2	69.7896	50/50	69.7896
964932	AG1-357 E O2	46.5264	50/50	46.5264
965193	AG1-384 BAT	2.7630	50/50	2.7630
965281	AG1-393 C	6.9790	50/50	6.9790
965282	AG1-393 E	4.6526	50/50	4.6526
965832	AG1-451 BAT	2.6648	50/50	2.6648
WEC	WEC	0.0608	Confirmed LTF	0.0608
LGEE	LGEE	0.1263	Confirmed LTF	0.1263
CPL	CPL	0.4914	Confirmed LTF	0.4914
CBM-W2	CBM-W2	2.4371	Confirmed LTF	2.4371
NY	NY	0.0625	Confirmed LTF	0.0625
TVA	TVA	0.4480	Confirmed LTF	0.4480
O-066	O-066	0.9018	Confirmed LTF	0.9018
SIGE	SIGE	0.0361	Confirmed LTF	0.0361
CBM-S2	CBM-S2	6.1178	Confirmed LTF	6.1178
CBM-S1	CBM-S1	0.1136	Confirmed LTF	0.1136
G-007	G-007	0.1418	Confirmed LTF	0.1418
MEC	MEC	0.3496	Confirmed LTF	0.3496
LAGN	LAGN	0.5513	Confirmed LTF	0.5513
CBM-W1	CBM-W1	2.5516	Confirmed LTF	2.5516

13.5.36 Index 36

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174272264	314268	6BRIERY	DVP	964840	AG1-347 TAP	DVP	1	DVP_P4-2: 210622	breaker	699.0	105.52	112.59	DC	49.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5789	50/50	0.5789
313853	3PONTONDP	1.8407	50/50	1.8407
314429	3JTRSVLE	1.1616	50/50	1.1616
314677	6BUCKING	1.6096	50/50	1.6096
314713	3PAMPLIN	4.9033	50/50	4.9033
315161	1KERR 4	0.7452	50/50	0.7452
315162	1KERR 5	0.7452	50/50	0.7452
315163	1KERR 6	0.7452	50/50	0.7452
315164	1KERR 7	0.7452	50/50	0.7452
316131	AB2-060 C	1.7524	50/50	1.7524
924022	AB2-043 E O1	3.2808	50/50	3.2808
924032	AB2-045 E	4.7609	50/50	4.7609
924162	AB2-060 E OP	5.2270	50/50	5.2270
924301	AB2-077 C O1 (Suspended)	2.2313	50/50	2.2313
924302	AB2-077 E O1 (Suspended)	1.4875	50/50	1.4875
924311	AB2-078 C O1 (Suspended)	2.2313	50/50	2.2313
924312	AB2-078 E O1 (Suspended)	1.4875	50/50	1.4875
924321	AB2-079 C O1 (Suspended)	2.2313	50/50	2.2313
924322	AB2-079 E O1 (Suspended)	1.4875	50/50	1.4875
925611	AC1-036 C	0.4580	50/50	0.4580
925612	AC1-036 E	1.7383	50/50	1.7383
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0632	50/50	5.0632
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0230	50/50	3.0230
936265	AD2-033 C	24.1714	50/50	24.1714
936266	AD2-033 E	16.1143	50/50	16.1143
936361	AD2-046 C O1	6.9048	50/50	6.9048
936362	AD2-046 E O1	3.1752	50/50	3.1752
936485	AD2-063 C	22.4433	50/50	22.4433
936486	AD2-063 E	14.9622	50/50	14.9622
938371	AE1-056 C	19.5486	50/50	19.5486
938372	AE1-056 E	10.6812	50/50	10.6812
939181	AE1-148 C	6.9525	50/50	6.9525

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939182	AE1-148 E	4.6350	50/50	4.6350
940661	AE2-053 O1	2.5750	50/50	2.5750
942451	AE2-258	2.7372	50/50	2.7372
942461	AE2-259 C O1	37.3446	50/50	37.3446
942462	AE2-259 E O1	24.8964	50/50	24.8964
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7346	50/50	11.7346
946302	AF1-294 E	7.8231	50/50	7.8231
958211	AF2-115 C	6.9027	50/50	6.9027
958212	AF2-115 E	4.6018	50/50	4.6018
958801	AF2-171 C	41.2011	50/50	41.2011
958802	AF2-171 E	27.4674	50/50	27.4674
959311	AF2-222 C	35.5040	50/50	35.5040
959312	AF2-222 E	23.7877	50/50	23.7877
961791	AG1-021 C	5.5222	50/50	5.5222
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5651	50/50	37.5651
961892	AG1-030 E	25.0434	50/50	25.0434
962041	AG1-048 C	34.5135	50/50	34.5135
962042	AG1-048 E	23.0090	50/50	23.0090
962491	AG1-098 C O2	16.6673	50/50	16.6673
962492	AG1-098 E O2	11.1115	50/50	11.1115
962561	AG1-105 C O2	6.7818	50/50	6.7818
962562	AG1-105 E O2	4.5212	50/50	4.5212
963171	AG1-166 C	5.5222	50/50	5.5222
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5222	50/50	5.5222
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5222	50/50	5.5222
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5222	50/50	5.5222
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5222	50/50	5.5222
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O2	72.3655	50/50	72.3655
963272	AG1-176 E O2	48.2436	50/50	48.2436
963321	AG1-181 C O2	32.8199	50/50	32.8199
963361	AG1-185 O2	15.8791	50/50	15.8791
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8655	50/50	3.8655
964111	AG1-272 C	5.2047	50/50	5.2047
964112	AG1-272 E	1.5459	50/50	1.5459
964121	AG1-273 C	5.2047	50/50	5.2047
964122	AG1-273 E	1.5459	50/50	1.5459
964131	AG1-274 C	5.2047	50/50	5.2047
964132	AG1-274 E	1.5459	50/50	1.5459
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679
964843	AG1-347 BAT	2.5358	50/50	2.5358
964931	AG1-357 C O2	29.6676	50/50	29.6676
964932	AG1-357 E O2	19.7784	50/50	19.7784
965191	AG1-384 C	5.2047	50/50	5.2047

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965192	AG1-384 E	1.5459	50/50	1.5459
965281	AG1-393 C	5.5222	50/50	5.5222
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O2	5.5753	50/50	5.5753
965452	AG1-413 E O2	3.7169	50/50	3.7169
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O2	74.6892	50/50	74.6892
965642	AG1-432 E O2	49.7928	50/50	49.7928
965831	AG1-451	12.4482	50/50	12.4482
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	9.0684	50/50	9.0684
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	6.0456	50/50	6.0456
WEC	WEC	0.0233	Confirmed LTF	0.0233
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPL	CPL	0.2539	Confirmed LTF	0.2539
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677
NY	NY	0.0420	Confirmed LTF	0.0420
TVA	TVA	0.1806	Confirmed LTF	0.1806
O-066	O-066	0.5855	Confirmed LTF	0.5855
SIGE	SIGE	0.0177	Confirmed LTF	0.0177
CBM-S2	CBM-S2	2.6726	Confirmed LTF	2.6726
CBM-S1	CBM-S1	0.0456	Confirmed LTF	0.0456
G-007	G-007	0.0924	Confirmed LTF	0.0924
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2223	Confirmed LTF	0.2223
CBM-W1	CBM-W1	0.9814	Confirmed LTF	0.9814

13.5.37 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
173878924	314282	6CARSON	DVP	314285	6CHRL249	DVP	1	DVP_P4-2: 562T563	breaker	684.0	195.73	196.65	DC	13.88

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936761	AD2-097 C	-0.6942	Adder	-0.82
936762	AD2-097 E	-3.4712	Adder	-4.08
937481	AD2-202 C O1	0.8516	Adder	1.0
937482	AD2-202 E O1	0.4790	Adder	0.56
938222	AE1-035 E	0.3714	Adder	0.44
938494	AE1-068_C1	16.3608	50/50	16.3608
938497	AE1-068_C2	16.3608	50/50	16.3608
938498	AE1-068_E1	9.0442	50/50	9.0442
938499	AE1-068_E2	9.0442	50/50	9.0442
938504	AE1-069_C1	12.4688	50/50	12.4688
938507	AE1-069_C2	13.4443	50/50	13.4443
938508	AE1-069_E1	7.0931	50/50	7.0931
938509	AE1-069_E2	7.6418	50/50	7.6418
939181	AE1-148 C	3.4742	Adder	4.09
939182	AE1-148 E	2.3161	Adder	2.72
939414	AE1-173_C1	10.8599	Adder	12.78
939415	AE1-173_C2	9.3085	Adder	10.95
939416	AE1-173_C3	10.8599	Adder	12.78
939423	AE1-173_E1	7.2400	Adder	8.52
939424	AE1-173_E2	6.2057	Adder	7.3
939425	AE1-173_E3	7.2400	Adder	8.52
940471	AE2-031 C	17.8211	50/50	17.8211
940472	AE2-031 E	11.8807	50/50	11.8807
940481	AE2-033 C	17.8899	50/50	17.8899
940482	AE2-033 E	12.0606	50/50	12.0606
940541	AE2-040	3.2601	50/50	3.2601
940571	AE2-044 C	1.8745	Adder	2.21
940572	AE2-044 E	0.8034	Adder	0.95
940661	AE2-053_O1	1.2867	Adder	1.51
941031	AE2-094 C	21.4701	50/50	21.4701
941032	AE2-094 E	9.6159	50/50	9.6159
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2105	Adder	0.25
942161	AE2-228 C	-1.6624	Adder	-1.96
942451	AE2-258	0.8781	Adder	1.03
942471	AE2-260 C O1	13.4478	50/50	13.4478
942472	AE2-260 E O1	19.0742	50/50	19.0742
942931	AE2-313 C	19.2639	50/50	19.2639
942932	AE2-313 E	12.8426	50/50	12.8426
943171	AE2-346 C	0.5025	Adder	0.59
943172	AE2-346 E	0.2154	Adder	0.25
943901	AF1-058 C	0.6723	Adder	0.79
943902	AF1-058 E	0.4482	Adder	0.53
943911	AF1-059	9.9815	50/50	9.9815
944011	AF1-069 C	7.0151	50/50	7.0151
944012	AF1-069 E	2.7252	50/50	2.7252
944141	AF1-082	1.2050	Adder	1.42
945811	AF1-246 C O1	3.0477	Adder	3.59
945812	AF1-246 E O1	4.2087	Adder	4.95
946011	AF1-266	14.9752	50/50	14.9752
946261	AF1-291 C	-1.0134	Adder	-1.19
946281	AF1-292 C	1.1961	50/50	1.1961

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946282	AF1-292 E	0.8063	50/50	0.8063
957481	AF2-042 C	21.7693	Adder	25.61
957482	AF2-042 E	14.5129	Adder	17.07
957521	AF2-046 C	5.8965	Adder	6.94
957522	AF2-046 E	2.9660	Adder	3.49
957861	AF2-080 C	2.9496	Adder	3.47
957862	AF2-080 E	1.3076	Adder	1.54
958142	AF2-108 BAT	2.9401	50/50	2.9401
959511	AF2-242 C	2.4159	Adder	2.84
959512	AF2-242 E	1.8790	Adder	2.21
959651	AF2-256 C	-0.4156	Adder	-0.49
959751	AF2-266	3.3303	Adder	3.92
960061	AF2-297 C	2.6891	Adder	3.16
960062	AF2-297 E	1.7928	Adder	2.11
960081	AF2-299 C	2.0159	50/50	2.0159
960082	AF2-299 E	1.3439	50/50	1.3439
961671	AG1-007 C	0.2597	Adder	0.58
961672	AG1-007 E	0.1451	Adder	0.32
961681	AG1-008 C	3.1314	Adder	6.95
961682	AG1-008 E	1.5657	Adder	3.48
961931	AG1-036 C	0.2554	Adder	0.57
961932	AG1-036 E	0.1702	Adder	0.38
961941	AG1-037 C	0.0951	Adder	0.21
961942	AG1-037 E	0.0634	Adder	0.14
962271	AG1-075 C O2	18.7341	50/50	18.7341
962272	AG1-075 E O2	11.4174	50/50	11.4174
962331	AG1-082 C	0.3805	Adder	0.84
962332	AG1-082 E	0.2536	Adder	0.56
962341	AG1-083 C	0.3805	Adder	0.84
962342	AG1-083 E	0.2536	Adder	0.56
962351	AG1-084 C	0.3346	Adder	0.74
962352	AG1-084 E	0.2231	Adder	0.5
962361	AG1-085 C	0.3346	Adder	0.74
962362	AG1-085 E	0.2231	Adder	0.5
962441	AG1-093 C O2	3.0521	Adder	6.77
962442	AG1-093 E O2	0.9289	Adder	2.06
962491	AG1-098 C O2	2.4063	Adder	5.34
962492	AG1-098 E O2	1.6042	Adder	3.56
962561	AG1-105 C O2	1.8824	Adder	4.18
962562	AG1-105 E O2	1.2549	Adder	2.79
962571	AG1-106 C	3.8518	50/50	3.8518
962572	AG1-106 E	1.7467	50/50	1.7467
963041	AG1-153 C	1.3392	Adder	2.97
963042	AG1-153 E	2.0088	Adder	4.46
963111	AG1-160 C	3.0165	50/50	3.0165
963112	AG1-160 E	4.5248	50/50	4.5248
963291	AG1-178 C O2	14.0340	Adder	31.15
963301	AG1-179 C	3.7453	50/50	3.7453
963311	AG1-180	1.8248	50/50	1.8248
963321	AG1-181 C O2	2.9060	Adder	6.45
963351	AG1-184 O2	7.5607	Adder	16.78
963361	AG1-185 O2	1.4060	Adder	3.12

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964241	AG1-285 C O2	2.9361	Adder	6.52
964242	AG1-285 E O2	1.9574	Adder	4.34
964261	AG1-287 C	0.2672	Adder	0.59
964262	AG1-287 E	0.1782	Adder	0.4
964491	AG1-312 C O1	3.2796	Adder	7.28
964492	AG1-312 E O1	0.8199	Adder	1.82
964501	AG1-313 C O2	1.0656	Adder	2.37
964502	AG1-313 E O2	0.7104	Adder	1.58
964791	AG1-342 C	0.7829	Adder	1.74
964792	AG1-342 E	0.6151	Adder	1.37
964801	AG1-343 C	1.0845	Adder	2.41
964802	AG1-343 E	0.8521	Adder	1.89
964931	AG1-357 C O2	3.7523	Adder	8.33
964932	AG1-357 E O2	2.5015	Adder	5.55
965291	AG1-394 C	0.3712	Adder	0.82
965292	AG1-394 E	0.2475	Adder	0.55
965451	AG1-413 C O2	1.8465	Adder	4.1
965452	AG1-413 E O2	1.2310	Adder	2.73
965591	AG1-427 C	2.2498	Adder	4.99
965592	AG1-427 E	1.5030	Adder	3.34
965601	AG1-428 C O2	3.1267	50/50	3.1267
965602	AG1-428 E O2	2.0807	50/50	2.0807
965711	AG1-439 C O1	4.9614	Adder	11.01
965712	AG1-439 E O1	3.3076	Adder	7.34
965721	AG1-440 C	1.6117	Adder	3.58
965722	AG1-440 E	1.0744	Adder	2.38
965731	AG1-441 C	1.6117	Adder	3.58
965732	AG1-441 E	1.0744	Adder	2.38
965761	AG1-444 O1	2.6461	Adder	5.87
965771	AG1-445	0.9312	Adder	2.07
965781	AG1-446	0.9312	Adder	2.07
965811	AG1-449	12.4952	50/50	12.4952
966361	AG1-505 C	3.9008	Adder	8.66
966362	AG1-505 E	2.6006	Adder	5.77
966371	AG1-506 C	3.9008	Adder	8.66
966372	AG1-506 E	2.6006	Adder	5.77
966621	AG1-532 C	1.0886	50/50	1.0886
966622	AG1-532 E	0.7257	50/50	0.7257
966751	AG1-546 C	3.7913	Adder	8.42
966752	AG1-546 E	2.0343	Adder	4.52
966801	AG1-551 C	0.4118	Adder	0.91
966802	AG1-551 E	0.1765	Adder	0.39
966811	AG1-552 C	0.5452	Adder	1.21
966812	AG1-552 E	0.2337	Adder	0.52
WEC	WEC	0.3670	Confirmed LTF	0.3670
LGEE	LGEE	0.7552	Confirmed LTF	0.7552
CPL	CPL	3.8575	Confirmed LTF	3.8575
CBM-W2	CBM-W2	16.1818	Confirmed LTF	16.1818
NY	NY	0.5253	Confirmed LTF	0.5253
TVA	TVA	3.0590	Confirmed LTF	3.0590
O-066	O-066	7.3895	Confirmed LTF	7.3895
SIGE	SIGE	0.2502	Confirmed LTF	0.2502

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S2	CBM-S2	45.9778	Confirmed LTF	45.9778
CBM-S1	CBM-S1	0.7623	Confirmed LTF	0.7623
G-007	G-007	1.1624	Confirmed LTF	1.1624
MEC	MEC	2.2039	Confirmed LTF	2.2039
LAGN	LAGN	3.8028	Confirmed LTF	3.8028
AA2-074	AA2-074	2.5479	LTF	2.5479
CBM-W1	CBM-W1	15.3519	Confirmed LTF	15.3519

13.5.38 Index 38

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174272265	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P4-2: 24972-4	breaker	830.0	126.94	127.97	DC	19.09

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

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962572	AG1-106 E	3.8033	50/50	3.8033
963301	AG1-179 C	7.9609	50/50	7.9609
963311	AG1-180	3.8788	50/50	3.8788
964491	AG1-312 C O1	5.1263	Adder	11.38
964492	AG1-312 E O1	1.2816	Adder	2.84
964501	AG1-313 C O2	4.4356	50/50	4.4356
964502	AG1-313 E O2	2.9571	50/50	2.9571
964801	AG1-343 C	1.7786	Adder	3.95
964802	AG1-343 E	1.3975	Adder	3.1
964931	AG1-357 C O2	5.1595	Adder	11.45
964932	AG1-357 E O2	3.4397	Adder	7.64
965291	AG1-394 C	0.6084	Adder	1.35
965292	AG1-394 E	0.4056	Adder	0.9
965451	AG1-413 C O2	7.9710	50/50	7.9710
965452	AG1-413 E O2	5.3140	50/50	5.3140
965591	AG1-427 C	3.1147	Adder	6.91
965592	AG1-427 E	2.0808	Adder	4.62
965601	AG1-428 C O2	6.6459	50/50	6.6459
965602	AG1-428 E O2	4.4227	50/50	4.4227
965691	AG1-437 C O1	2.3649	Adder	5.25
965692	AG1-437 E O1	1.5766	Adder	3.5
965701	AG1-438 C O1	2.3649	Adder	5.25
965702	AG1-438 E O1	1.5766	Adder	3.5
965711	AG1-439 C O1	7.3089	Adder	16.22
965712	AG1-439 E O1	4.8726	Adder	10.82
965721	AG1-440 C	5.5967	50/50	5.5967
965722	AG1-440 E	3.7311	50/50	3.7311
965731	AG1-441 C	5.5967	50/50	5.5967
965732	AG1-441 E	3.7311	50/50	3.7311
965741	AG1-442 O1	1.3795	Adder	3.06
965751	AG1-443 O1	1.3795	Adder	3.06
965761	AG1-444 O1	3.8981	Adder	8.65
965771	AG1-445	3.2336	50/50	3.2336
965781	AG1-446	3.2336	50/50	3.2336
966621	AG1-532 C	2.5700	50/50	2.5700
966622	AG1-532 E	1.7134	50/50	1.7134
966733	AG1-544 BAT	0.9486	Merchant Transmission	0.9486
966743	AG1-545 BAT	0.3125	Merchant Transmission	0.3125
966751	AG1-546 C	14.7738	50/50	14.7738
966752	AG1-546 E	7.9272	50/50	7.9272
966801	AG1-551 C	0.5745	Adder	1.28
966802	AG1-551 E	0.2462	Adder	0.55
966811	AG1-552 C	2.4051	50/50	2.4051
966812	AG1-552 E	1.0308	50/50	1.0308
WEC	WEC	0.2466	Confirmed LTF	0.2466
LGEE	LGEE	0.5064	Confirmed LTF	0.5064
CPL	CPL	2.7580	Confirmed LTF	2.7580
CBM-W2	CBM-W2	10.7072	Confirmed LTF	10.7072
NY	NY	0.3041	Confirmed LTF	0.3041
TVA	TVA	2.0104	Confirmed LTF	2.0104
O-066	O-066	4.3274	Confirmed LTF	4.3274
SIG	SIG	0.1578	Confirmed LTF	0.1578

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S2	CBM-S2	30.9024	Confirmed LTF	30.9024
CBM-S1	CBM-S1	0.5024	Confirmed LTF	0.5024
G-007	G-007	0.6804	Confirmed LTF	0.6804
MEC	MEC	1.4714	Confirmed LTF	1.4714
LAGN	LAGN	2.5025	Confirmed LTF	2.5025
AA2-074	AA2-074	1.8216	LTF	1.8216
CBM-W1	CBM-W1	10.3608	Confirmed LTF	10.3608

13.5.39 Index 39

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173878925	314285	6CHRL249	DVP	314316	6LOCKS	DVP	1	DVP_P4-2: 562T563	breaker	684.0	192.6	193.53	DC	13.88

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936761	AD2-097 C	-0.6942	Adder	-0.82
936762	AD2-097 E	-3.4712	Adder	-4.08
937481	AD2-202 C O1	0.8516	Adder	1.0
937482	AD2-202 E O1	0.4790	Adder	0.56
938222	AE1-035 E	0.3714	Adder	0.44
938494	AE1-068_C1	16.3608	50/50	16.3608
938497	AE1-068_C2	16.3608	50/50	16.3608
938498	AE1-068_E1	9.0442	50/50	9.0442
938499	AE1-068_E2	9.0442	50/50	9.0442
938504	AE1-069_C1	12.4688	50/50	12.4688
938507	AE1-069_C2	13.4443	50/50	13.4443
938508	AE1-069_E1	7.0931	50/50	7.0931
938509	AE1-069_E2	7.6418	50/50	7.6418
939181	AE1-148 C	3.4742	Adder	4.09
939182	AE1-148 E	2.3161	Adder	2.72
939414	AE1-173_C1	10.8599	Adder	12.78
939415	AE1-173_C2	9.3085	Adder	10.95
939416	AE1-173_C3	10.8599	Adder	12.78
939423	AE1-173_E1	7.2400	Adder	8.52
939424	AE1-173_E2	6.2057	Adder	7.3
939425	AE1-173_E3	7.2400	Adder	8.52
940471	AE2-031 C	17.8211	50/50	17.8211
940472	AE2-031 E	11.8807	50/50	11.8807
940481	AE2-033 C	17.8899	50/50	17.8899
940482	AE2-033 E	12.0606	50/50	12.0606
940541	AE2-040	3.2601	50/50	3.2601
940571	AE2-044 C	1.8745	Adder	2.21
940572	AE2-044 E	0.8034	Adder	0.95
940661	AE2-053_O1	1.2867	Adder	1.51
941031	AE2-094 C	21.4701	50/50	21.4701
941032	AE2-094 E	9.6159	50/50	9.6159
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2105	Adder	0.25
942161	AE2-228 C	-1.6624	Adder	-1.96
942451	AE2-258	0.8781	Adder	1.03
942471	AE2-260 C O1	13.4478	50/50	13.4478
942472	AE2-260 E O1	19.0742	50/50	19.0742
942931	AE2-313 C	19.2639	50/50	19.2639
942932	AE2-313 E	12.8426	50/50	12.8426
943171	AE2-346 C	0.5025	Adder	0.59
943172	AE2-346 E	0.2154	Adder	0.25
943901	AF1-058 C	0.6723	Adder	0.79
943902	AF1-058 E	0.4482	Adder	0.53
943911	AF1-059	9.9815	50/50	9.9815
944011	AF1-069 C	7.0151	50/50	7.0151
944012	AF1-069 E	2.7252	50/50	2.7252
944141	AF1-082	1.2050	Adder	1.42
945811	AF1-246 C O1	3.0477	Adder	3.59
945812	AF1-246 E O1	4.2087	Adder	4.95
946011	AF1-266	14.9752	50/50	14.9752
946261	AF1-291 C	-1.0134	Adder	-1.19
946281	AF1-292 C	1.1961	50/50	1.1961

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946282	AF1-292 E	0.8063	50/50	0.8063
957481	AF2-042 C	21.7693	Adder	25.61
957482	AF2-042 E	14.5129	Adder	17.07
957521	AF2-046 C	5.8965	Adder	6.94
957522	AF2-046 E	2.9660	Adder	3.49
957861	AF2-080 C	2.9496	Adder	3.47
957862	AF2-080 E	1.3076	Adder	1.54
958142	AF2-108 BAT	2.9401	50/50	2.9401
959511	AF2-242 C	2.4159	Adder	2.84
959512	AF2-242 E	1.8790	Adder	2.21
959651	AF2-256 C	-0.4156	Adder	-0.49
959751	AF2-266	3.3303	Adder	3.92
960061	AF2-297 C	2.6891	Adder	3.16
960062	AF2-297 E	1.7928	Adder	2.11
960081	AF2-299 C	2.0159	50/50	2.0159
960082	AF2-299 E	1.3439	50/50	1.3439
961671	AG1-007 C	0.2597	Adder	0.58
961672	AG1-007 E	0.1451	Adder	0.32
961681	AG1-008 C	3.1314	Adder	6.95
961682	AG1-008 E	1.5657	Adder	3.48
961931	AG1-036 C	0.2554	Adder	0.57
961932	AG1-036 E	0.1702	Adder	0.38
961941	AG1-037 C	0.0951	Adder	0.21
961942	AG1-037 E	0.0634	Adder	0.14
962271	AG1-075 C O2	18.7341	50/50	18.7341
962272	AG1-075 E O2	11.4174	50/50	11.4174
962331	AG1-082 C	0.3805	Adder	0.84
962332	AG1-082 E	0.2536	Adder	0.56
962341	AG1-083 C	0.3805	Adder	0.84
962342	AG1-083 E	0.2536	Adder	0.56
962351	AG1-084 C	0.3346	Adder	0.74
962352	AG1-084 E	0.2231	Adder	0.5
962361	AG1-085 C	0.3346	Adder	0.74
962362	AG1-085 E	0.2231	Adder	0.5
962441	AG1-093 C O2	3.0521	Adder	6.77
962442	AG1-093 E O2	0.9289	Adder	2.06
962491	AG1-098 C O2	2.4063	Adder	5.34
962492	AG1-098 E O2	1.6042	Adder	3.56
962561	AG1-105 C O2	1.8824	Adder	4.18
962562	AG1-105 E O2	1.2549	Adder	2.79
962571	AG1-106 C	3.8518	50/50	3.8518
962572	AG1-106 E	1.7467	50/50	1.7467
963041	AG1-153 C	1.3392	Adder	2.97
963042	AG1-153 E	2.0088	Adder	4.46
963111	AG1-160 C	3.0165	50/50	3.0165
963112	AG1-160 E	4.5248	50/50	4.5248
963291	AG1-178 C O2	14.0340	Adder	31.15
963301	AG1-179 C	3.7453	50/50	3.7453
963311	AG1-180	1.8248	50/50	1.8248
963321	AG1-181 C O2	2.9060	Adder	6.45
963351	AG1-184 O2	7.5607	Adder	16.78
963361	AG1-185 O2	1.4060	Adder	3.12

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964241	AG1-285 C O2	2.9361	Adder	6.52
964242	AG1-285 E O2	1.9574	Adder	4.34
964261	AG1-287 C	0.2672	Adder	0.59
964262	AG1-287 E	0.1782	Adder	0.4
964491	AG1-312 C O1	3.2796	Adder	7.28
964492	AG1-312 E O1	0.8199	Adder	1.82
964501	AG1-313 C O2	1.0656	Adder	2.37
964502	AG1-313 E O2	0.7104	Adder	1.58
964791	AG1-342 C	0.7829	Adder	1.74
964792	AG1-342 E	0.6151	Adder	1.37
964801	AG1-343 C	1.0845	Adder	2.41
964802	AG1-343 E	0.8521	Adder	1.89
964931	AG1-357 C O2	3.7523	Adder	8.33
964932	AG1-357 E O2	2.5015	Adder	5.55
965291	AG1-394 C	0.3712	Adder	0.82
965292	AG1-394 E	0.2475	Adder	0.55
965451	AG1-413 C O2	1.8465	Adder	4.1
965452	AG1-413 E O2	1.2310	Adder	2.73
965591	AG1-427 C	2.2498	Adder	4.99
965592	AG1-427 E	1.5030	Adder	3.34
965601	AG1-428 C O2	3.1267	50/50	3.1267
965602	AG1-428 E O2	2.0807	50/50	2.0807
965711	AG1-439 C O1	4.9614	Adder	11.01
965712	AG1-439 E O1	3.3076	Adder	7.34
965721	AG1-440 C	1.6117	Adder	3.58
965722	AG1-440 E	1.0744	Adder	2.38
965731	AG1-441 C	1.6117	Adder	3.58
965732	AG1-441 E	1.0744	Adder	2.38
965761	AG1-444 O1	2.6461	Adder	5.87
965771	AG1-445	0.9312	Adder	2.07
965781	AG1-446	0.9312	Adder	2.07
965811	AG1-449	12.4952	50/50	12.4952
966361	AG1-505 C	3.9008	Adder	8.66
966362	AG1-505 E	2.6006	Adder	5.77
966371	AG1-506 C	3.9008	Adder	8.66
966372	AG1-506 E	2.6006	Adder	5.77
966621	AG1-532 C	1.0886	50/50	1.0886
966622	AG1-532 E	0.7257	50/50	0.7257
966751	AG1-546 C	3.7913	Adder	8.42
966752	AG1-546 E	2.0343	Adder	4.52
966801	AG1-551 C	0.4118	Adder	0.91
966802	AG1-551 E	0.1765	Adder	0.39
966811	AG1-552 C	0.5452	Adder	1.21
966812	AG1-552 E	0.2337	Adder	0.52
WEC	WEC	0.3670	Confirmed LTF	0.3670
LGEE	LGEE	0.7552	Confirmed LTF	0.7552
CPL	CPL	3.8575	Confirmed LTF	3.8575
CBM-W2	CBM-W2	16.1818	Confirmed LTF	16.1818
NY	NY	0.5253	Confirmed LTF	0.5253
TVA	TVA	3.0590	Confirmed LTF	3.0590
O-066	O-066	7.3895	Confirmed LTF	7.3895
SIGE	SIGE	0.2502	Confirmed LTF	0.2502

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S2	CBM-S2	45.9778	Confirmed LTF	45.9778
CBM-S1	CBM-S1	0.7623	Confirmed LTF	0.7623
G-007	G-007	1.1624	Confirmed LTF	1.1624
MEC	MEC	2.2039	Confirmed LTF	2.2039
LAGN	LAGN	3.8028	Confirmed LTF	3.8028
AA2-074	AA2-074	2.5479	LTF	2.5479
CBM-W1	CBM-W1	15.3519	Confirmed LTF	15.3519

13.5.40 Index 40

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174454223	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P4-2: 562T563	breaker	541.0	172.48	173.34	DC	10.33

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936486	AD2-063 E	2.6291	Adder	3.09
936661	AD2-085 C	1.6231	Adder	1.91
936662	AD2-085 E	2.6482	Adder	3.12
936761	AD2-097 C	-0.5997	Adder	-0.71
936762	AD2-097 E	-2.9985	Adder	-3.53
937481	AD2-202 C O1	0.6286	Adder	0.74
937482	AD2-202 E O1	0.3536	Adder	0.42
938222	AE1-035 E	0.3151	Adder	0.37
938494	AE1-068 C1	10.2514	Adder	12.06
938497	AE1-068 C2	10.2514	Adder	12.06
938498	AE1-068 E1	5.6669	Adder	6.67
938499	AE1-068 E2	5.6669	Adder	6.67
938504	AE1-069 C1	7.8127	Adder	9.19
938507	AE1-069 C2	8.4240	Adder	9.91
938508	AE1-069 E1	4.4444	Adder	5.23
938509	AE1-069 E2	4.7882	Adder	5.63
938634	AE1-085 C	9.8700	50/50	9.8700
938635	AE1-085 E	4.9350	50/50	4.9350
938771	AE1-103 C	1.0955	Adder	1.29
938772	AE1-103 E	1.5128	Adder	1.78
939181	AE1-148 C	2.6209	Adder	3.08
939182	AE1-148 E	1.7473	Adder	2.06
939195	AE1-149 C	12.9252	50/50	12.9252
939196	AE1-149 E	8.6168	50/50	8.6168
939414	AE1-173 C1	8.5009	Adder	10.0
939415	AE1-173 C2	7.2865	Adder	8.57
939416	AE1-173 C3	8.5009	Adder	10.0
939423	AE1-173 E1	5.6673	Adder	6.67
939424	AE1-173 E2	4.8576	Adder	5.71
939425	AE1-173 E3	5.6673	Adder	6.67
940061	AE2-000BC O1	10.9500	50/50	10.9500
940062	AE2-000BE O1	7.3000	50/50	7.3000
940471	AE2-031 C	11.1620	Adder	13.13
940472	AE2-031 E	7.4413	Adder	8.75
940481	AE2-033 C	12.5748	50/50	12.5748
940482	AE2-033 E	8.4774	50/50	8.4774
940541	AE2-040	2.2854	50/50	2.2854
940571	AE2-044 C	1.4432	Adder	1.7
940572	AE2-044 E	0.6185	Adder	0.73
940651	AE2-052	4.3084	50/50	4.3084
940661	AE2-053 O1	0.9707	Adder	1.14
941031	AE2-094 C	13.4468	Adder	15.82
941032	AE2-094 E	6.0225	Adder	7.09
941101	AE2-104 C O1	0.9308	Adder	1.1
941102	AE2-104 E O1	1.4799	Adder	1.74
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.1775	Adder	0.21
942161	AE2-228 C	-1.0818	Adder	-1.27
942341	AE2-247 C	0.7076	Adder	0.83
942342	AE2-247 E	0.9772	Adder	1.15
942451	AE2-258	0.6546	Adder	0.77
942471	AE2-260 C O1	9.6379	50/50	9.6379

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942472	AE2-260 E O1	13.6701	50/50	13.6701
942931	AE2-313 C	12.0649	Adder	14.19
942932	AE2-313 E	8.0433	Adder	9.46
943171	AE2-346 C	0.4335	Adder	0.51
943172	AE2-346 E	0.1858	Adder	0.22
943461	AF1-017 C	0.6403	Adder	0.75
943462	AF1-017 E	1.0446	Adder	1.23
943911	AF1-059	6.2447	Adder	7.35
944011	AF1-069 C	4.3936	Adder	5.17
944012	AF1-069 E	1.7068	Adder	2.01
944141	AF1-082	0.9278	Adder	1.09
945811	AF1-246 C O1	2.2484	Adder	2.65
945812	AF1-246 E O1	3.1049	Adder	3.65
946011	AF1-266	10.5261	50/50	10.5261
946261	AF1-291 C	-1.8432	Adder	-2.17
946281	AF1-292 C	0.7419	Adder	0.87
946282	AF1-292 E	0.5002	Adder	0.59
957481	AF2-042 C	16.0599	Adder	18.89
957482	AF2-042 E	10.7066	Adder	12.6
957521	AF2-046 C	5.3740	Adder	6.32
957522	AF2-046 E	2.7031	Adder	3.18
957861	AF2-080 C	2.3432	Adder	2.76
957862	AF2-080 E	1.0388	Adder	1.22
958161	AF2-110 C	0.3837	Adder	0.45
958162	AF2-110 E	0.6002	Adder	0.71
959511	AF2-242 C	2.0142	Adder	2.37
959512	AF2-242 E	1.5666	Adder	1.84
959651	AF2-256 C	-0.2705	Adder	-0.32
959751	AF2-266	2.4582	Adder	2.89
960081	AF2-299 C	1.2504	Adder	1.47
960082	AF2-299 E	0.8336	Adder	0.98
961091	AF2-400 C	0.1440	Adder	0.17
961092	AF2-400 E	0.2362	Adder	0.28
961671	AG1-007 C	0.2032	Adder	0.45
961672	AG1-007 E	0.1135	Adder	0.25
961681	AG1-008 C	2.8539	Adder	6.33
961682	AG1-008 E	1.4270	Adder	3.17
961851	AG1-027 C	2.5785	Adder	5.72
961852	AG1-027 E	1.4254	Adder	3.16
961931	AG1-036 C	0.2261	Adder	0.5
961932	AG1-036 E	0.1507	Adder	0.33
961941	AG1-037 C	0.0821	Adder	0.18
961942	AG1-037 E	0.0547	Adder	0.12
962271	AG1-075 C O2	13.1682	50/50	13.1682
962272	AG1-075 E O2	8.0253	50/50	8.0253
962331	AG1-082 C	0.3283	Adder	0.73
962332	AG1-082 E	0.2188	Adder	0.49
962341	AG1-083 C	0.3283	Adder	0.73
962342	AG1-083 E	0.2188	Adder	0.49
962351	AG1-084 C	0.2822	Adder	0.63
962352	AG1-084 E	0.1881	Adder	0.42
962361	AG1-085 C	0.2822	Adder	0.63

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962362	AG1-085 E	0.1881	Adder	0.42
962441	AG1-093 C O2	2.2592	Adder	5.01
962442	AG1-093 E O2	0.6876	Adder	1.53
962491	AG1-098 C O2	1.7924	Adder	3.98
962492	AG1-098 E O2	1.1950	Adder	2.65
962561	AG1-105 C O2	1.4015	Adder	3.11
962562	AG1-105 E O2	0.9343	Adder	2.07
962571	AG1-106 C	1.3028	Adder	2.89
962572	AG1-106 E	0.5908	Adder	1.31
963041	AG1-153 C	0.9877	Adder	2.19
963042	AG1-153 E	1.4815	Adder	3.29
963111	AG1-160 C	1.0020	Adder	2.22
963112	AG1-160 E	1.5030	Adder	3.34
963291	AG1-178 C O2	10.5295	Adder	23.37
963301	AG1-179 C	1.2378	Adder	2.75
963311	AG1-180	0.6031	Adder	1.34
963351	AG1-184 O2	5.6727	Adder	12.59
964241	AG1-285 C O2	2.1658	Adder	4.81
964242	AG1-285 E O2	1.4439	Adder	3.21
964491	AG1-312 C O1	2.7943	Adder	6.2
964492	AG1-312 E O1	0.6986	Adder	1.55
964501	AG1-313 C O2	0.8531	Adder	1.89
964502	AG1-313 E O2	0.5687	Adder	1.26
964791	AG1-342 C	0.5827	Adder	1.29
964792	AG1-342 E	0.4579	Adder	1.02
964801	AG1-343 C	1.0340	Adder	2.3
964802	AG1-343 E	0.8125	Adder	1.8
964931	AG1-357 C O2	2.7927	Adder	6.2
964932	AG1-357 E O2	1.8618	Adder	4.13
965291	AG1-394 C	0.3563	Adder	0.79
965292	AG1-394 E	0.2375	Adder	0.53
965451	AG1-413 C O2	1.3601	Adder	3.02
965452	AG1-413 E O2	0.9067	Adder	2.01
965591	AG1-427 C	1.6752	Adder	3.72
965592	AG1-427 E	1.1192	Adder	2.48
965601	AG1-428 C O2	1.0334	Adder	2.29
965602	AG1-428 E O2	0.6877	Adder	1.53
965691	AG1-437 C O1	1.4056	Adder	3.12
965692	AG1-437 E O1	0.9370	Adder	2.08
965701	AG1-438 C O1	1.4056	Adder	3.12
965702	AG1-438 E O1	0.9370	Adder	2.08
965711	AG1-439 C O1	3.9072	Adder	8.67
965712	AG1-439 E O1	2.6048	Adder	5.78
965721	AG1-440 C	1.2263	Adder	2.72
965722	AG1-440 E	0.8175	Adder	1.81
965731	AG1-441 C	1.2263	Adder	2.72
965732	AG1-441 E	0.8175	Adder	1.81
965741	AG1-442 O1	0.8199	Adder	1.82
965751	AG1-443 O1	0.8199	Adder	1.82
965761	AG1-444 O1	2.0838	Adder	4.63
965771	AG1-445	0.7085	Adder	1.57
965781	AG1-446	0.7085	Adder	1.57

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965811	AG1-449	4.1479	Adder	9.21
966361	AG1-505 C	2.8759	Adder	6.38
966362	AG1-505 E	1.9172	Adder	4.26
966371	AG1-506 C	2.8759	Adder	6.38
966372	AG1-506 E	1.9172	Adder	4.26
966621	AG1-532 C	0.3579	Adder	0.79
966622	AG1-532 E	0.2386	Adder	0.53
966731	AG1-544 C	7.7085	50/50	7.7085
966732	AG1-544 E	4.1355	50/50	4.1355
966741	AG1-545 C	2.5480	50/50	2.5480
966742	AG1-545 E	1.3660	50/50	1.3660
966751	AG1-546 C	2.9153	Adder	6.47
966752	AG1-546 E	1.5643	Adder	3.47
966801	AG1-551 C	0.3386	Adder	0.75
966802	AG1-551 E	0.1451	Adder	0.32
966811	AG1-552 C	0.4246	Adder	0.94
966812	AG1-552 E	0.1820	Adder	0.4
WEC	WEC	0.2712	Confirmed LTF	0.2712
LGEE	LGEE	0.5586	Confirmed LTF	0.5586
CPL	CPL	2.9081	Confirmed LTF	2.9081
CBM-W2	CBM-W2	12.0512	Confirmed LTF	12.0512
NY	NY	0.4053	Confirmed LTF	0.4053
TVA	TVA	2.2834	Confirmed LTF	2.2834
O-066	O-066	5.6868	Confirmed LTF	5.6868
SIGE	SIGE	0.1887	Confirmed LTF	0.1887
CBM-S2	CBM-S2	34.5460	Confirmed LTF	34.5460
CBM-S1	CBM-S1	0.5685	Confirmed LTF	0.5685
G-007	G-007	0.8946	Confirmed LTF	0.8946
MEC	MEC	1.6351	Confirmed LTF	1.6351
LAGN	LAGN	2.8385	Confirmed LTF	2.8385
AA2-074	AA2-074	1.9206	LTF	1.9206
CBM-W1	CBM-W1	11.3282	Confirmed LTF	11.3282

13.5.41 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
175280764	314310	6JUDES F	DVP	314322	6MDLTHAN	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88	116.48	118.18	DC	13.63

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2807	80/20	0.2807
314333	6POWHATN	1.5975	80/20	1.5975
314429	3JTRSVLE	0.4832	80/20	0.4832
314677	6BUCKING	0.8048	80/20	0.8048
315153	1CLOVER1	4.3193	80/20	4.3193
315154	1CLOVER2	4.2763	80/20	4.2763
315158	1KERR 1	0.1408	80/20	0.1408
315159	1KERR 2	0.3943	80/20	0.3943
315160	1KERR 3	0.3943	80/20	0.3943
315161	1KERR 4	0.3943	80/20	0.3943
315162	1KERR 5	0.3943	80/20	0.3943
315163	1KERR 6	0.3943	80/20	0.3943
315164	1KERR 7	0.3943	80/20	0.3943
315191	1BEARGRDN G1	14.2573	80/20	14.2573
315192	1BEARGRDN G2	14.2573	80/20	14.2573
315193	1BEARGRDN S1	18.4374	80/20	18.4374
315266	1PLYWOOD A	0.4243	80/20	0.4243
316118	AC1-105 C	2.1828	80/20	2.1828
316131	AB2-060 C	0.8395	80/20	0.8395
924301	AB2-077 C O1 (Suspended)	1.0978	80/20	1.0978
924311	AB2-078 C O1 (Suspended)	1.0978	80/20	1.0978
924321	AB2-079 C O1 (Suspended)	1.0978	80/20	1.0978
925611	AC1-036 C	0.1989	80/20	0.1989
927261	AC1-222 C	1.2284	80/20	1.2284
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7929	80/20	0.7929
933501	AC2-165 C	39.2365	80/20	39.2365
934311	AD1-055 C	0.8529	80/20	0.8529
934615	AD1-087 C	2.7046	80/20	2.7046
934625	AD1-088 C	10.6893	80/20	10.6893
935171	AD1-152 C O1	2.9707	80/20	2.9707
935221	AD1-157 C	0.2944	80/20	0.2944
936265	AD2-033 C	10.6439	80/20	10.6439
936361	AD2-046 C O1	3.5752	80/20	3.5752
936485	AD2-063 C	10.2897	80/20	10.2897
937481	AD2-202 C O1	0.7922	80/20	0.7922
938371	AE1-056 C	8.0456	80/20	8.0456
938561	AE1-075 C	1.3891	80/20	1.3891

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938821	AE1-108 C O1	29.3641	80/20	29.3641
939181	AE1-148 C	3.5861	80/20	3.5861
940661	AE2-053 O1	1.3282	80/20	1.3282
941011	AE2-092 C	25.2714	80/20	25.2714
941791	AE2-182 C	1.7366	80/20	1.7366
942451	AE2-258	1.3272	80/20	1.3272
942461	AE2-259 C O1	15.0438	80/20	15.0438
943901	AF1-058 C	0.6629	80/20	0.6629
943911	AF1-059	5.8955	80/20	5.8955
946291	AF1-293 C O1	39.5291	80/20	39.5291
946301	AF1-294 C	4.8810	80/20	4.8810
946591	AF1-323 C	9.4218	80/20	9.4218
958131	AF2-107 C	4.3708	80/20	4.3708
958211	AF2-115 C	2.8712	80/20	2.8712
958501	AF2-144 C	7.4840	80/20	7.4840
958801	AF2-171 C	17.1477	80/20	17.1477
959311	AF2-222 C	15.2960	80/20	15.2960
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8971	80/20	6.8971
959751	AF2-266	3.1005	80/20	3.1005
960061	AF2-297 C	2.6515	80/20	2.6515
960111	AF2-302 C	3.4261	80/20	3.4261
961061	AF2-397 C	36.6436	80/20	36.6436
961791	AG1-021 C	2.2969	80/20	2.2969
961801	AG1-022 C	3.4261	80/20	3.4261
961891	AG1-030 C	15.8193	80/20	15.8193
962041	AG1-048 C	14.3558	80/20	14.3558
962441	AG1-093 C O2	5.1180	80/20	5.1180
962491	AG1-098 C O2	7.8308	80/20	7.8308
962561	AG1-105 C O2	4.4994	80/20	4.4994
962741	AG1-123 C O2	2.8615	80/20	2.8615
962751	AG1-124 C O2	4.0087	80/20	4.0087
963171	AG1-166 C	2.2969	80/20	2.2969
963181	AG1-167 C	2.2969	80/20	2.2969
963191	AG1-168 C	2.2969	80/20	2.2969
963201	AG1-169 C	2.2969	80/20	2.2969
963211	AG1-170 C	2.2969	80/20	2.2969
963271	AG1-176 C O2	21.5432	80/20	21.5432
963321	AG1-181 C O2	14.3396	80/20	14.3396
963361	AG1-185 O2	6.9379	80/20	6.9379
963641	AG1-215 C	1.0719	80/20	1.0719
964111	AG1-272 C	2.2600	80/20	2.2600
964121	AG1-273 C	2.2600	80/20	2.2600
964131	AG1-274 C	2.2600	80/20	2.2600
964231	AG1-284 C O2	17.0419	80/20	17.0419
964261	AG1-287 C	0.4972	80/20	0.4972
964471	AG1-310 C	0.7101	80/20	0.7101
964791	AG1-342 C	1.7990	80/20	1.7990
964821	AG1-345 C	0.9162	80/20	0.9162
964841	AG1-347 C	9.1274	80/20	9.1274
964931	AG1-357 C O2	13.6260	80/20	13.6260
965191	AG1-384 C	2.2600	80/20	2.2600

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965281	AG1-393 C	2.2969	80/20	2.2969
965451	AG1-413 C O2	2.6017	80/20	2.6017
965581	AG1-426	6.3974	80/20	6.3974
965591	AG1-427 C	7.7812	80/20	7.7812
965641	AG1-432 C O2	30.0876	80/20	30.0876
965721	AG1-440 C	2.3557	80/20	2.3557
965731	AG1-441 C	2.3557	80/20	2.3557
965771	AG1-445	1.3611	80/20	1.3611
965781	AG1-446	1.3611	80/20	1.3611
965831	AG1-451	5.0146	80/20	5.0146
966251	AG1-494 C	1.6466	80/20	1.6466
966791	AG1-550 O2	14.2016	80/20	14.2016
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1915	80/20	4.1915
WEC	WEC	0.1947	Confirmed LTF	0.1947
LGEE	LGEE	0.4166	Confirmed LTF	0.4166
CPL	CPL	1.0770	Confirmed LTF	1.0770
CBM-W2	CBM-W2	7.1949	Confirmed LTF	7.1949
NY	NY	0.3583	Confirmed LTF	0.3583
TVA	TVA	1.2922	Confirmed LTF	1.2922
SIG	SIG	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.3325	Confirmed LTF	0.3325
MEC	MEC	1.0869	Confirmed LTF	1.0869
LAGN	LAGN	1.5715	Confirmed LTF	1.5715
CBM-W1	CBM-W1	8.1596	Confirmed LTF	8.1596

13.5.42 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
174454221	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P4-2: 562T563	breaker	541.0	172.51	173.38	DC	10.33

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936486	AD2-063 E	2.6291	Adder	3.09
936661	AD2-085 C	1.6231	Adder	1.91
936662	AD2-085 E	2.6482	Adder	3.12
936761	AD2-097 C	-0.5997	Adder	-0.71
936762	AD2-097 E	-2.9985	Adder	-3.53
937481	AD2-202 C O1	0.6286	Adder	0.74
937482	AD2-202 E O1	0.3536	Adder	0.42
938222	AE1-035 E	0.3151	Adder	0.37
938494	AE1-068 C1	10.2514	Adder	12.06
938497	AE1-068 C2	10.2514	Adder	12.06
938498	AE1-068 E1	5.6669	Adder	6.67
938499	AE1-068 E2	5.6669	Adder	6.67
938504	AE1-069 C1	7.8127	Adder	9.19
938507	AE1-069 C2	8.4240	Adder	9.91
938508	AE1-069 E1	4.4444	Adder	5.23
938509	AE1-069 E2	4.7882	Adder	5.63
938634	AE1-085 C	9.8700	50/50	9.8700
938635	AE1-085 E	4.9350	50/50	4.9350
938771	AE1-103 C	1.0955	Adder	1.29
938772	AE1-103 E	1.5128	Adder	1.78
939181	AE1-148 C	2.6209	Adder	3.08
939182	AE1-148 E	1.7473	Adder	2.06
939195	AE1-149 C	12.9252	50/50	12.9252
939196	AE1-149 E	8.6168	50/50	8.6168
939414	AE1-173 C1	8.5009	Adder	10.0
939415	AE1-173 C2	7.2865	Adder	8.57
939416	AE1-173 C3	8.5009	Adder	10.0
939423	AE1-173 E1	5.6673	Adder	6.67
939424	AE1-173 E2	4.8576	Adder	5.71
939425	AE1-173 E3	5.6673	Adder	6.67
940061	AE2-000BC O1	10.9500	50/50	10.9500
940062	AE2-000BE O1	7.3000	50/50	7.3000
940471	AE2-031 C	11.1620	Adder	13.13
940472	AE2-031 E	7.4413	Adder	8.75
940481	AE2-033 C	12.5748	50/50	12.5748
940482	AE2-033 E	8.4774	50/50	8.4774
940541	AE2-040	2.2854	50/50	2.2854
940571	AE2-044 C	1.4432	Adder	1.7
940572	AE2-044 E	0.6185	Adder	0.73
940651	AE2-052	4.3084	50/50	4.3084
940661	AE2-053 O1	0.9707	Adder	1.14
941031	AE2-094 C	13.4468	Adder	15.82
941032	AE2-094 E	6.0225	Adder	7.09
941101	AE2-104 C O1	0.9308	Adder	1.1
941102	AE2-104 E O1	1.4799	Adder	1.74
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.1775	Adder	0.21
942161	AE2-228 C	-1.0818	Adder	-1.27
942341	AE2-247 C	0.7076	Adder	0.83
942342	AE2-247 E	0.9772	Adder	1.15
942451	AE2-258	0.6546	Adder	0.77
942471	AE2-260 C O1	9.6379	50/50	9.6379

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942472	AE2-260 E O1	13.6701	50/50	13.6701
942931	AE2-313 C	12.0649	Adder	14.19
942932	AE2-313 E	8.0433	Adder	9.46
943171	AE2-346 C	0.4335	Adder	0.51
943172	AE2-346 E	0.1858	Adder	0.22
943461	AF1-017 C	0.6403	Adder	0.75
943462	AF1-017 E	1.0446	Adder	1.23
943911	AF1-059	6.2447	Adder	7.35
944011	AF1-069 C	4.3936	Adder	5.17
944012	AF1-069 E	1.7068	Adder	2.01
944141	AF1-082	0.9278	Adder	1.09
945811	AF1-246 C O1	2.2484	Adder	2.65
945812	AF1-246 E O1	3.1049	Adder	3.65
946011	AF1-266	10.5261	50/50	10.5261
946261	AF1-291 C	-1.8432	Adder	-2.17
946281	AF1-292 C	0.7419	Adder	0.87
946282	AF1-292 E	0.5002	Adder	0.59
957481	AF2-042 C	16.0599	Adder	18.89
957482	AF2-042 E	10.7066	Adder	12.6
957521	AF2-046 C	5.3740	Adder	6.32
957522	AF2-046 E	2.7031	Adder	3.18
957861	AF2-080 C	2.3432	Adder	2.76
957862	AF2-080 E	1.0388	Adder	1.22
958161	AF2-110 C	0.3837	Adder	0.45
958162	AF2-110 E	0.6002	Adder	0.71
959511	AF2-242 C	2.0142	Adder	2.37
959512	AF2-242 E	1.5666	Adder	1.84
959651	AF2-256 C	-0.2705	Adder	-0.32
959751	AF2-266	2.4582	Adder	2.89
960081	AF2-299 C	1.2504	Adder	1.47
960082	AF2-299 E	0.8336	Adder	0.98
961091	AF2-400 C	0.1440	Adder	0.17
961092	AF2-400 E	0.2362	Adder	0.28
961671	AG1-007 C	0.2032	Adder	0.45
961672	AG1-007 E	0.1135	Adder	0.25
961681	AG1-008 C	2.8539	Adder	6.33
961682	AG1-008 E	1.4270	Adder	3.17
961851	AG1-027 C	2.5785	Adder	5.72
961852	AG1-027 E	1.4254	Adder	3.16
961931	AG1-036 C	0.2261	Adder	0.5
961932	AG1-036 E	0.1507	Adder	0.33
961941	AG1-037 C	0.0821	Adder	0.18
961942	AG1-037 E	0.0547	Adder	0.12
962271	AG1-075 C O2	13.1682	50/50	13.1682
962272	AG1-075 E O2	8.0253	50/50	8.0253
962331	AG1-082 C	0.3283	Adder	0.73
962332	AG1-082 E	0.2188	Adder	0.49
962341	AG1-083 C	0.3283	Adder	0.73
962342	AG1-083 E	0.2188	Adder	0.49
962351	AG1-084 C	0.2822	Adder	0.63
962352	AG1-084 E	0.1881	Adder	0.42
962361	AG1-085 C	0.2822	Adder	0.63

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962362	AG1-085 E	0.1881	Adder	0.42
962441	AG1-093 C O2	2.2592	Adder	5.01
962442	AG1-093 E O2	0.6876	Adder	1.53
962491	AG1-098 C O2	1.7924	Adder	3.98
962492	AG1-098 E O2	1.1950	Adder	2.65
962561	AG1-105 C O2	1.4015	Adder	3.11
962562	AG1-105 E O2	0.9343	Adder	2.07
962571	AG1-106 C	1.3028	Adder	2.89
962572	AG1-106 E	0.5908	Adder	1.31
963041	AG1-153 C	0.9877	Adder	2.19
963042	AG1-153 E	1.4815	Adder	3.29
963111	AG1-160 C	1.0020	Adder	2.22
963112	AG1-160 E	1.5030	Adder	3.34
963291	AG1-178 C O2	10.5295	Adder	23.37
963301	AG1-179 C	1.2378	Adder	2.75
963311	AG1-180	0.6031	Adder	1.34
963351	AG1-184 O2	5.6727	Adder	12.59
964241	AG1-285 C O2	2.1658	Adder	4.81
964242	AG1-285 E O2	1.4439	Adder	3.21
964491	AG1-312 C O1	2.7943	Adder	6.2
964492	AG1-312 E O1	0.6986	Adder	1.55
964501	AG1-313 C O2	0.8531	Adder	1.89
964502	AG1-313 E O2	0.5687	Adder	1.26
964791	AG1-342 C	0.5827	Adder	1.29
964792	AG1-342 E	0.4579	Adder	1.02
964801	AG1-343 C	1.0340	Adder	2.3
964802	AG1-343 E	0.8125	Adder	1.8
964931	AG1-357 C O2	2.7927	Adder	6.2
964932	AG1-357 E O2	1.8618	Adder	4.13
965291	AG1-394 C	0.3563	Adder	0.79
965292	AG1-394 E	0.2375	Adder	0.53
965451	AG1-413 C O2	1.3601	Adder	3.02
965452	AG1-413 E O2	0.9067	Adder	2.01
965591	AG1-427 C	1.6752	Adder	3.72
965592	AG1-427 E	1.1192	Adder	2.48
965601	AG1-428 C O2	1.0334	Adder	2.29
965602	AG1-428 E O2	0.6877	Adder	1.53
965691	AG1-437 C O1	1.4056	Adder	3.12
965692	AG1-437 E O1	0.9370	Adder	2.08
965701	AG1-438 C O1	1.4056	Adder	3.12
965702	AG1-438 E O1	0.9370	Adder	2.08
965711	AG1-439 C O1	3.9072	Adder	8.67
965712	AG1-439 E O1	2.6048	Adder	5.78
965721	AG1-440 C	1.2263	Adder	2.72
965722	AG1-440 E	0.8175	Adder	1.81
965731	AG1-441 C	1.2263	Adder	2.72
965732	AG1-441 E	0.8175	Adder	1.81
965741	AG1-442 O1	0.8199	Adder	1.82
965751	AG1-443 O1	0.8199	Adder	1.82
965761	AG1-444 O1	2.0838	Adder	4.63
965771	AG1-445	0.7085	Adder	1.57
965781	AG1-446	0.7085	Adder	1.57

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965811	AG1-449	4.1479	Adder	9.21
966361	AG1-505 C	2.8759	Adder	6.38
966362	AG1-505 E	1.9172	Adder	4.26
966371	AG1-506 C	2.8759	Adder	6.38
966372	AG1-506 E	1.9172	Adder	4.26
966621	AG1-532 C	0.3579	Adder	0.79
966622	AG1-532 E	0.2386	Adder	0.53
966731	AG1-544 C	7.7085	50/50	7.7085
966732	AG1-544 E	4.1355	50/50	4.1355
966741	AG1-545 C	2.5480	50/50	2.5480
966742	AG1-545 E	1.3660	50/50	1.3660
966751	AG1-546 C	2.9153	Adder	6.47
966752	AG1-546 E	1.5643	Adder	3.47
966801	AG1-551 C	0.3386	Adder	0.75
966802	AG1-551 E	0.1451	Adder	0.32
966811	AG1-552 C	0.4246	Adder	0.94
966812	AG1-552 E	0.1820	Adder	0.4
WEC	WEC	0.2712	Confirmed LTF	0.2712
LGEE	LGEE	0.5586	Confirmed LTF	0.5586
CPL	CPL	2.9081	Confirmed LTF	2.9081
CBM-W2	CBM-W2	12.0512	Confirmed LTF	12.0512
NY	NY	0.4053	Confirmed LTF	0.4053
TVA	TVA	2.2834	Confirmed LTF	2.2834
O-066	O-066	5.6868	Confirmed LTF	5.6868
SIGE	SIGE	0.1887	Confirmed LTF	0.1887
CBM-S2	CBM-S2	34.5460	Confirmed LTF	34.5460
CBM-S1	CBM-S1	0.5685	Confirmed LTF	0.5685
G-007	G-007	0.8946	Confirmed LTF	0.8946
MEC	MEC	1.6351	Confirmed LTF	1.6351
LAGN	LAGN	2.8385	Confirmed LTF	2.8385
AA2-074	AA2-074	1.9206	LTF	1.9206
CBM-W1	CBM-W1	11.3282	Confirmed LTF	11.3282

13.5.43 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
175280761	314333	6POWHATN	DVP	314310	6JUDES F	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88	116.62	118.32	DC	13.63

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2807	80/20	0.2807
314333	6POWHATN	1.5975	80/20	1.5975
314429	3JTRSVLE	0.4832	80/20	0.4832
314677	6BUCKING	0.8048	80/20	0.8048
315153	1CLOVER1	4.3193	80/20	4.3193
315154	1CLOVER2	4.2763	80/20	4.2763
315158	1KERR 1	0.1408	80/20	0.1408
315159	1KERR 2	0.3943	80/20	0.3943
315160	1KERR 3	0.3943	80/20	0.3943
315161	1KERR 4	0.3943	80/20	0.3943
315162	1KERR 5	0.3943	80/20	0.3943
315163	1KERR 6	0.3943	80/20	0.3943
315164	1KERR 7	0.3943	80/20	0.3943
315191	1BEARGRDN G1	14.2573	80/20	14.2573
315192	1BEARGRDN G2	14.2573	80/20	14.2573
315193	1BEARGRDN S1	18.4374	80/20	18.4374
315266	1PLYWOOD A	0.4243	80/20	0.4243
316118	AC1-105 C	2.1828	80/20	2.1828
316131	AB2-060 C	0.8395	80/20	0.8395
924301	AB2-077 C O1 (Suspended)	1.0978	80/20	1.0978
924311	AB2-078 C O1 (Suspended)	1.0978	80/20	1.0978
924321	AB2-079 C O1 (Suspended)	1.0978	80/20	1.0978
925611	AC1-036 C	0.1989	80/20	0.1989
927261	AC1-222 C	1.2284	80/20	1.2284
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7929	80/20	0.7929
933501	AC2-165 C	39.2365	80/20	39.2365
934311	AD1-055 C	0.8529	80/20	0.8529
934615	AD1-087 C	2.7046	80/20	2.7046
934625	AD1-088 C	10.6893	80/20	10.6893
935171	AD1-152 C O1	2.9707	80/20	2.9707
935221	AD1-157 C	0.2944	80/20	0.2944
936265	AD2-033 C	10.6439	80/20	10.6439
936361	AD2-046 C O1	3.5752	80/20	3.5752
936485	AD2-063 C	10.2897	80/20	10.2897
937481	AD2-202 C O1	0.7922	80/20	0.7922
938371	AE1-056 C	8.0456	80/20	8.0456
938561	AE1-075 C	1.3891	80/20	1.3891

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938821	AE1-108 C O1	29.3641	80/20	29.3641
939181	AE1-148 C	3.5861	80/20	3.5861
940661	AE2-053 O1	1.3282	80/20	1.3282
941011	AE2-092 C	25.2714	80/20	25.2714
941791	AE2-182 C	1.7366	80/20	1.7366
942451	AE2-258	1.3272	80/20	1.3272
942461	AE2-259 C O1	15.0438	80/20	15.0438
943901	AF1-058 C	0.6629	80/20	0.6629
943911	AF1-059	5.8955	80/20	5.8955
946291	AF1-293 C O1	39.5291	80/20	39.5291
946301	AF1-294 C	4.8810	80/20	4.8810
946591	AF1-323 C	9.4218	80/20	9.4218
958131	AF2-107 C	4.3708	80/20	4.3708
958211	AF2-115 C	2.8712	80/20	2.8712
958501	AF2-144 C	7.4840	80/20	7.4840
958801	AF2-171 C	17.1477	80/20	17.1477
959311	AF2-222 C	15.2960	80/20	15.2960
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8971	80/20	6.8971
959751	AF2-266	3.1005	80/20	3.1005
960061	AF2-297 C	2.6515	80/20	2.6515
960111	AF2-302 C	3.4261	80/20	3.4261
961061	AF2-397 C	36.6436	80/20	36.6436
961791	AG1-021 C	2.2969	80/20	2.2969
961801	AG1-022 C	3.4261	80/20	3.4261
961891	AG1-030 C	15.8193	80/20	15.8193
962041	AG1-048 C	14.3558	80/20	14.3558
962441	AG1-093 C O2	5.1180	80/20	5.1180
962491	AG1-098 C O2	7.8308	80/20	7.8308
962561	AG1-105 C O2	4.4994	80/20	4.4994
962741	AG1-123 C O2	2.8615	80/20	2.8615
962751	AG1-124 C O2	4.0087	80/20	4.0087
963171	AG1-166 C	2.2969	80/20	2.2969
963181	AG1-167 C	2.2969	80/20	2.2969
963191	AG1-168 C	2.2969	80/20	2.2969
963201	AG1-169 C	2.2969	80/20	2.2969
963211	AG1-170 C	2.2969	80/20	2.2969
963271	AG1-176 C O2	21.5432	80/20	21.5432
963321	AG1-181 C O2	14.3396	80/20	14.3396
963361	AG1-185 O2	6.9379	80/20	6.9379
963641	AG1-215 C	1.0719	80/20	1.0719
964111	AG1-272 C	2.2600	80/20	2.2600
964121	AG1-273 C	2.2600	80/20	2.2600
964131	AG1-274 C	2.2600	80/20	2.2600
964231	AG1-284 C O2	17.0419	80/20	17.0419
964261	AG1-287 C	0.4972	80/20	0.4972
964471	AG1-310 C	0.7101	80/20	0.7101
964791	AG1-342 C	1.7990	80/20	1.7990
964821	AG1-345 C	0.9162	80/20	0.9162
964841	AG1-347 C	9.1274	80/20	9.1274
964931	AG1-357 C O2	13.6260	80/20	13.6260
965191	AG1-384 C	2.2600	80/20	2.2600

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965281	AG1-393 C	2.2969	80/20	2.2969
965451	AG1-413 C O2	2.6017	80/20	2.6017
965581	AG1-426	6.3974	80/20	6.3974
965591	AG1-427 C	7.7812	80/20	7.7812
965641	AG1-432 C O2	30.0876	80/20	30.0876
965721	AG1-440 C	2.3557	80/20	2.3557
965731	AG1-441 C	2.3557	80/20	2.3557
965771	AG1-445	1.3611	80/20	1.3611
965781	AG1-446	1.3611	80/20	1.3611
965831	AG1-451	5.0146	80/20	5.0146
966251	AG1-494 C	1.6466	80/20	1.6466
966791	AG1-550 O2	14.2016	80/20	14.2016
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1915	80/20	4.1915
WEC	WEC	0.1947	Confirmed LTF	0.1947
LGEE	LGEE	0.4166	Confirmed LTF	0.4166
CPL	CPL	1.0770	Confirmed LTF	1.0770
CBM-W2	CBM-W2	7.1949	Confirmed LTF	7.1949
NY	NY	0.3583	Confirmed LTF	0.3583
TVA	TVA	1.2922	Confirmed LTF	1.2922
SIG	SIG	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.3325	Confirmed LTF	0.3325
MEC	MEC	1.0869	Confirmed LTF	1.0869
LAGN	LAGN	1.5715	Confirmed LTF	1.5715
CBM-W1	CBM-W1	8.1596	Confirmed LTF	8.1596

13.5.44 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
168784080	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P1-2: LN 2012-B	single	678.68	151.45	153.78	DC	15.83

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

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

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

13.5.45 Index 45

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
174272150	314559	3CAROLNA	DVP	314561	6CAROLNA	DVP	1	DVP_P4-2: L5T68	breaker	288.6	158.7	161.38	DC	17.1

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

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

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

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

13.5.46 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
174066976	314561	6CAROLNA	DVP	314599	6ROA VAL	DVP	1	DVP_P4-2: 23872	breaker	671.0	120.49	121.58	DC	16.28

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

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

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

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

13.5.47 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
169010685	314562	3CLUBHSE	DVP	314563	6CLUBHSE	DVP	1	DVP_P1-2: LN 2201	single	182.64	207.15	214.96	DC	14.27

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

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

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

13.5.48 Index 48

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163291320	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	144.96	146.3	DC	24.66

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	14.5739	50/50	14.5739
313719	3CHESTNUT	1.3547	50/50	1.3547
314541	3WATKINS	0.3968	Adder	0.47
314572	3EMPORIA	1.0296	50/50	1.0296
314582	3KELFORD	0.3886	50/50	0.3886
314589	3MURPHYS	0.0859	50/50	0.0859
314594	6PLYMOTH	0.0480	Adder	0.06
314623	3WITAKRS	0.2420	50/50	0.2420
314704	3LAWRENC	0.5984	50/50	0.5984
315126	1ROARAP2	2.1390	50/50	2.1390
315128	1ROARAP4	2.0412	50/50	2.0412
315131	1EDGECCA (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315132	1EDGECCB (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

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

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

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

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

13.5.49 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
173879035	314563	6CLUBHSE	DVP	313725	6DRY BREAD	DVP	1	DVP_P4-2: 23872	breaker	459.0	121.03	122.8	DC	18.06

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

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

13.5.50 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
169010649	314569	GEARLEYS	DVP	314575	6NUCO TP	DVP	1	DVP_P1-2: LN 2092	single	571.52	191.45	192.61	DC	6.61

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
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	2.6257	80/20	2.6257
315293	1DOMTR9	13.5803	80/20	13.5803
315294	1DOMTR10	16.6425	80/20	16.6425
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	4.9383	80/20	4.9383
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2098	80/20	4.2098
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	1.5592	80/20	1.5592
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
962271	AG1-075 C O2	4.6675	80/20	4.6675
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
962491	AG1-098 C O2	4.3132	80/20	4.3132
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
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O2	6.2746	80/20	6.2746
964801	AG1-343 C	4.7135	80/20	4.7135
964931	AG1-357 C O2	6.6084	80/20	6.6084
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O2	3.3660	80/20	3.3660
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O2	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

13.5.51 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
169010667	314575	6NUCO TP	DVP	957820	AF2-076 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	182.77	183.93	DC	6.61

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
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	2.6257	80/20	2.6257
315293	1DOMTR9	13.5803	80/20	13.5803
315294	1DOMTR10	16.6425	80/20	16.6425
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

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	4.9383	80/20	4.9383
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2098	80/20	4.2098
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	1.5592	80/20	1.5592
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
962271	AG1-075 C O2	4.6675	80/20	4.6675
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
962491	AG1-098 C O2	4.3132	80/20	4.3132
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
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O2	6.2746	80/20	6.2746
964801	AG1-343 C	4.7135	80/20	4.7135
964931	AG1-357 C O2	6.6084	80/20	6.6084
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O2	3.3660	80/20	3.3660
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O2	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

13.5.52 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
175093390	314579	6HORNRTN	DVP	934330	AD1-057 TAP	DVP	1	DVP_P1-2: LN 238-B	single	441.8	109.52	110.88	DC	6.01

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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933991	AD1-023 C	5.5252	80/20	5.5252
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
962491	AG1-098 C O2	3.9015	80/20	3.9015
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
964491	AG1-312 C O1	10.8562	80/20	10.8562
964501	AG1-313 C O2	4.2584	80/20	4.2584
964801	AG1-343 C	4.1877	80/20	4.1877
964931	AG1-357 C O2	6.0120	80/20	6.0120
965291	AG1-394 C	1.4462	80/20	1.4462
965451	AG1-413 C O2	3.7663	80/20	3.7663
965591	AG1-427 C	3.6254	80/20	3.6254
965601	AG1-428 C O2	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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.53 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
174066977	314599	6ROA VAL	DVP	314266	6NORTHAMPTON	DVP	1	DVP_P4-2: 23872	breaker	671.0	120.44	121.54	DC	16.28

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

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

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

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

13.5.54 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
166961556	314665	3CLRK TAP	DVP	314699	3ISLND C	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	100.01	112.61	DC	26.21

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	10.9420	50/50	10.9420
959312	AF2-222 E	7.3311	50/50	7.3311
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
962491	AG1-098 C O2	10.2067	50/50	10.2067
962492	AG1-098 E O2	6.8045	50/50	6.8045
962561	AG1-105 C O2	6.3654	50/50	6.3654
962562	AG1-105 E O2	4.2436	50/50	4.2436
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 O2	11.6799	50/50	11.6799
963361	AG1-185 O2	5.6511	50/50	5.6511
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
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
964931	AG1-357 C O2	15.7272	50/50	15.7272

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964932	AG1-357 E O2	10.4848	50/50	10.4848
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 O2	1.5335	Adder	3.4
965452	AG1-413 E O2	1.0223	Adder	2.27
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O2	0.6379	Adder	1.42
965602	AG1-428 E O2	0.4245	Adder	0.94
965641	AG1-432 C O2	3.0047	Adder	6.67
965642	AG1-432 E O2	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
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

13.5.55 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
174454269	314675	3BRODNAX	DVP	314676	3BRUNWICK	DVP	1	DVP_P4-2: 15832	breaker	400.0	111.7	121.32	DC	38.49

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.0319	Adder	-3.57
313527	AB2-043 C	0.5743	50/50	0.5743
313853	3PONTONDP	0.7697	50/50	0.7697
314429	3JTRSVLE	0.4857	50/50	0.4857
314713	3PAMPLIN	1.8744	50/50	1.8744
316118	AC1-105 C	2.3096	Adder	2.72
316131	AB2-060 C	1.6516	50/50	1.6516
923991	AB2-040 C O1	-3.3020	Adder	-3.88
924022	AB2-043 E O1	3.2549	50/50	3.2549
924162	AB2-060 E OP	4.9262	50/50	4.9262
924301	AB2-077 C O1 (Suspended)	2.2130	50/50	2.2130
924302	AB2-077 E O1 (Suspended)	1.4754	50/50	1.4754
924311	AB2-078 C O1 (Suspended)	2.2130	50/50	2.2130
924312	AB2-078 E O1 (Suspended)	1.4754	50/50	1.4754
924321	AB2-079 C O1 (Suspended)	2.2130	50/50	2.2130
924322	AB2-079 E O1 (Suspended)	1.4754	50/50	1.4754
925611	AC1-036 C	0.2613	50/50	0.2613
925612	AC1-036 E	0.9919	50/50	0.9919
926274	AC1-105 E	1.1347	Adder	1.33
935221	AD1-157 C	0.2735	50/50	0.2735
935222	AD1-157 E	1.1556	50/50	1.1556
936265	AD2-033 C	15.0095	50/50	15.0095
936266	AD2-033 E	10.0064	50/50	10.0064
936361	AD2-046 C O1	6.2768	50/50	6.2768
936362	AD2-046 E O1	2.8864	50/50	2.8864
936485	AD2-063 C	17.3340	50/50	17.3340
936486	AD2-063 E	11.5560	50/50	11.5560
938371	AE1-056 C	7.4729	50/50	7.4729
938372	AE1-056 E	4.0831	50/50	4.0831
939181	AE1-148 C	6.3526	50/50	6.3526
939182	AE1-148 E	4.2350	50/50	4.2350
940661	AE2-053 O1	2.3528	50/50	2.3528
942451	AE2-258	2.7157	50/50	2.7157
942461	AE2-259 C O1	11.5560	50/50	11.5560
942462	AE2-259 E O1	7.7040	50/50	7.7040
943911	AF1-059	48.6626	50/50	48.6626
946301	AF1-294 C	4.9067	50/50	4.9067

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946302	AF1-294 E	3.2711	50/50	3.2711
958211	AF2-115 C	2.8863	50/50	2.8863
958212	AF2-115 E	1.9242	50/50	1.9242
958801	AF2-171 C	17.3340	50/50	17.3340
958802	AF2-171 E	11.5560	50/50	11.5560
959311	AF2-222 C	19.2600	50/50	19.2600
959312	AF2-222 E	12.9042	50/50	12.9042
961791	AG1-021 C	2.3090	50/50	2.3090
961792	AG1-021 E	1.5394	50/50	1.5394
961891	AG1-030 C	17.3178	50/50	17.3178
961892	AG1-030 E	11.5452	50/50	11.5452
962041	AG1-048 C	14.4315	50/50	14.4315
962042	AG1-048 E	9.6210	50/50	9.6210
962491	AG1-098 C O2	14.4323	50/50	14.4323
962492	AG1-098 E O2	9.6215	50/50	9.6215
962561	AG1-105 C O2	7.3134	50/50	7.3134
962562	AG1-105 E O2	4.8756	50/50	4.8756
963171	AG1-166 C	2.3090	50/50	2.3090
963172	AG1-166 E	1.5394	50/50	1.5394
963181	AG1-167 C	2.3090	50/50	2.3090
963182	AG1-167 E	1.5394	50/50	1.5394
963191	AG1-168 C	2.3090	50/50	2.3090
963192	AG1-168 E	1.5394	50/50	1.5394
963201	AG1-169 C	2.3090	50/50	2.3090
963202	AG1-169 E	1.5394	50/50	1.5394
963211	AG1-170 C	2.3090	50/50	2.3090
963212	AG1-170 E	1.5394	50/50	1.5394
963312	AG1-180 BAT	11.8041	50/50	11.8041
963321	AG1-181 C O2	19.4699	50/50	19.4699
963361	AG1-185 O2	9.4201	50/50	9.4201
963641	AG1-215 C	1.0776	50/50	1.0776
963642	AG1-215 E	1.6163	50/50	1.6163
964111	AG1-272 C	2.9699	50/50	2.9699
964112	AG1-272 E	0.8821	50/50	0.8821
964121	AG1-273 C	2.9699	50/50	2.9699
964122	AG1-273 E	0.8821	50/50	0.8821
964131	AG1-274 C	2.9699	50/50	2.9699
964132	AG1-274 E	0.8821	50/50	0.8821
964791	AG1-342 C	2.7377	50/50	2.7377
964792	AG1-342 E	2.1511	50/50	2.1511
964821	AG1-345 C	0.9236	50/50	0.9236
964822	AG1-345 E	0.6157	50/50	0.6157
964931	AG1-357 C O2	23.0916	50/50	23.0916
964932	AG1-357 E O2	15.3944	50/50	15.3944
965191	AG1-384 C	2.9699	50/50	2.9699
965192	AG1-384 E	0.8821	50/50	0.8821
965281	AG1-393 C	2.3090	50/50	2.3090
965282	AG1-393 E	1.5394	50/50	1.5394
965451	AG1-413 C O2	19.3951	50/50	19.3951
965452	AG1-413 E O2	12.9301	50/50	12.9301
965591	AG1-427 C	13.6939	50/50	13.6939
965592	AG1-427 E	9.1485	50/50	9.1485

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

13.5.56 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
174454255	314676	3BRUNWICK	DVP	314704	3LAWRENC	DVP	1	DVP_P4-2: 15832	breaker	400.0	111.69	121.31	DC	38.49

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.0319	Adder	-3.57
313527	AB2-043 C	0.5743	50/50	0.5743
313853	3PONTONDP	0.7697	50/50	0.7697
314429	3JTRSVLE	0.4857	50/50	0.4857
314713	3PAMPLIN	1.8744	50/50	1.8744
316118	AC1-105 C	2.3096	Adder	2.72
316131	AB2-060 C	1.6516	50/50	1.6516
923991	AB2-040 C O1	-3.3020	Adder	-3.88
924022	AB2-043 E O1	3.2549	50/50	3.2549
924162	AB2-060 E OP	4.9262	50/50	4.9262
924301	AB2-077 C O1 (Suspended)	2.2130	50/50	2.2130
924302	AB2-077 E O1 (Suspended)	1.4754	50/50	1.4754
924311	AB2-078 C O1 (Suspended)	2.2130	50/50	2.2130
924312	AB2-078 E O1 (Suspended)	1.4754	50/50	1.4754
924321	AB2-079 C O1 (Suspended)	2.2130	50/50	2.2130
924322	AB2-079 E O1 (Suspended)	1.4754	50/50	1.4754
925611	AC1-036 C	0.2613	50/50	0.2613
925612	AC1-036 E	0.9919	50/50	0.9919
926274	AC1-105 E	1.1347	Adder	1.33
935221	AD1-157 C	0.2735	50/50	0.2735
935222	AD1-157 E	1.1556	50/50	1.1556
936265	AD2-033 C	15.0095	50/50	15.0095
936266	AD2-033 E	10.0064	50/50	10.0064
936361	AD2-046 C O1	6.2768	50/50	6.2768
936362	AD2-046 E O1	2.8864	50/50	2.8864
936485	AD2-063 C	17.3340	50/50	17.3340
936486	AD2-063 E	11.5560	50/50	11.5560
938371	AE1-056 C	7.4729	50/50	7.4729
938372	AE1-056 E	4.0831	50/50	4.0831
939181	AE1-148 C	6.3526	50/50	6.3526
939182	AE1-148 E	4.2350	50/50	4.2350
940661	AE2-053 O1	2.3528	50/50	2.3528
942451	AE2-258	2.7157	50/50	2.7157
942461	AE2-259 C O1	11.5560	50/50	11.5560
942462	AE2-259 E O1	7.7040	50/50	7.7040
943911	AF1-059	48.6626	50/50	48.6626
946301	AF1-294 C	4.9067	50/50	4.9067

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946302	AF1-294 E	3.2711	50/50	3.2711
958211	AF2-115 C	2.8863	50/50	2.8863
958212	AF2-115 E	1.9242	50/50	1.9242
958801	AF2-171 C	17.3340	50/50	17.3340
958802	AF2-171 E	11.5560	50/50	11.5560
959311	AF2-222 C	19.2600	50/50	19.2600
959312	AF2-222 E	12.9042	50/50	12.9042
961791	AG1-021 C	2.3090	50/50	2.3090
961792	AG1-021 E	1.5394	50/50	1.5394
961891	AG1-030 C	17.3178	50/50	17.3178
961892	AG1-030 E	11.5452	50/50	11.5452
962041	AG1-048 C	14.4315	50/50	14.4315
962042	AG1-048 E	9.6210	50/50	9.6210
962491	AG1-098 C O2	14.4323	50/50	14.4323
962492	AG1-098 E O2	9.6215	50/50	9.6215
962561	AG1-105 C O2	7.3134	50/50	7.3134
962562	AG1-105 E O2	4.8756	50/50	4.8756
963171	AG1-166 C	2.3090	50/50	2.3090
963172	AG1-166 E	1.5394	50/50	1.5394
963181	AG1-167 C	2.3090	50/50	2.3090
963182	AG1-167 E	1.5394	50/50	1.5394
963191	AG1-168 C	2.3090	50/50	2.3090
963192	AG1-168 E	1.5394	50/50	1.5394
963201	AG1-169 C	2.3090	50/50	2.3090
963202	AG1-169 E	1.5394	50/50	1.5394
963211	AG1-170 C	2.3090	50/50	2.3090
963212	AG1-170 E	1.5394	50/50	1.5394
963301	AG1-179 C	20.4158	50/50	20.4158
963311	AG1-180	9.9471	50/50	9.9471
963321	AG1-181 C O2	19.4699	50/50	19.4699
963361	AG1-185 O2	9.4201	50/50	9.4201
963641	AG1-215 C	1.0776	50/50	1.0776
963642	AG1-215 E	1.6163	50/50	1.6163
964111	AG1-272 C	2.9699	50/50	2.9699
964112	AG1-272 E	0.8821	50/50	0.8821
964121	AG1-273 C	2.9699	50/50	2.9699
964122	AG1-273 E	0.8821	50/50	0.8821
964131	AG1-274 C	2.9699	50/50	2.9699
964132	AG1-274 E	0.8821	50/50	0.8821
964791	AG1-342 C	2.7377	50/50	2.7377
964792	AG1-342 E	2.1511	50/50	2.1511
964821	AG1-345 C	0.9236	50/50	0.9236
964822	AG1-345 E	0.6157	50/50	0.6157
964931	AG1-357 C O2	23.0916	50/50	23.0916
964932	AG1-357 E O2	15.3944	50/50	15.3944
965191	AG1-384 C	2.9699	50/50	2.9699
965192	AG1-384 E	0.8821	50/50	0.8821
965281	AG1-393 C	2.3090	50/50	2.3090
965282	AG1-393 E	1.5394	50/50	1.5394
965451	AG1-413 C O2	19.3951	50/50	19.3951
965452	AG1-413 E O2	12.9301	50/50	12.9301
965591	AG1-427 C	13.6939	50/50	13.6939

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965592	AG1-427 E	9.1485	50/50	9.1485
965601	AG1-428 C O2	17.0435	50/50	17.0435
965602	AG1-428 E O2	11.3421	50/50	11.3421
965641	AG1-432 C O2	23.1120	50/50	23.1120
965642	AG1-432 E O2	15.4080	50/50	15.4080
965721	AG1-440 C	1.6155	Adder	3.59
965722	AG1-440 E	1.0770	Adder	2.39
965731	AG1-441 C	1.6155	Adder	3.59
965732	AG1-441 E	1.0770	Adder	2.39
965771	AG1-445	0.9334	Adder	2.07
965781	AG1-446	0.9334	Adder	2.07
965831	AG1-451	3.8520	50/50	3.8520
WEC	WEC	0.0491	Confirmed LTF	0.0491
LGEE	LGEE	0.1030	Confirmed LTF	0.1030
CPL	CPL	0.3119	Confirmed LTF	0.3119
CBM-W2	CBM-W2	1.8189	Confirmed LTF	1.8189
NY	NY	0.0459	Confirmed LTF	0.0459
TVA	TVA	0.3248	Confirmed LTF	0.3248
O-066	O-066	0.6865	Confirmed LTF	0.6865
SIGE	SIGE	0.0284	Confirmed LTF	0.0284
CBM-S2	CBM-S2	3.9881	Confirmed LTF	3.9881
CBM-S1	CBM-S1	0.0836	Confirmed LTF	0.0836
G-007	G-007	0.1082	Confirmed LTF	0.1082
MEC	MEC	0.2749	Confirmed LTF	0.2749
LAGN	LAGN	0.3990	Confirmed LTF	0.3990
CBM-W1	CBM-W1	2.0890	Confirmed LTF	2.0890

13.5.57 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
174066852	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P4-2: 556T591	breaker	699.0	230.41	237.94	DC	52.65

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

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

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

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

13.5.58 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
166961550	314682	3BUGGS I	DVP	314665	3CLRK TAP	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	101.35	113.96	DC	26.21

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	10.9420	50/50	10.9420
959312	AF2-222 E	7.3311	50/50	7.3311
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
962491	AG1-098 C O2	10.2067	50/50	10.2067
962492	AG1-098 E O2	6.8045	50/50	6.8045
962561	AG1-105 C O2	6.3654	50/50	6.3654
962562	AG1-105 E O2	4.2436	50/50	4.2436
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 O2	11.6799	50/50	11.6799
963361	AG1-185 O2	5.6511	50/50	5.6511
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
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
964931	AG1-357 C O2	15.7272	50/50	15.7272

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964932	AG1-357 E O2	10.4848	50/50	10.4848
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 O2	1.5335	Adder	3.4
965452	AG1-413 E O2	1.0223	Adder	2.27
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O2	0.6379	Adder	1.42
965602	AG1-428 E O2	0.4245	Adder	0.94
965641	AG1-432 C O2	3.0047	Adder	6.67
965642	AG1-432 E O2	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
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

13.5.59 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
174066953	314684	3MT LREL	DVP	316115	AC1-105 TAP	DVP	1	DVP_P4-2: 3612	breaker	406.0	111.19	128.63	DC	70.92

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	1.1660	50/50	1.1660
313853	3PONTONDP	0.8336	50/50	0.8336
314429	3JTRSVLE	0.5261	50/50	0.5261
315160	1KERR 3	0.7605	50/50	0.7605
315161	1KERR 4	0.7605	50/50	0.7605
315162	1KERR 5	0.7605	50/50	0.7605
315163	1KERR 6	0.7605	50/50	0.7605
315164	1KERR 7	0.7605	50/50	0.7605
316129	AC1-054 C	2.8997	Adder	3.41
316131	AB2-060 C	3.2970	50/50	3.2970
924022	AB2-043 E O1	6.6084	50/50	6.6084
924162	AB2-060 E OP	9.8342	50/50	9.8342
925611	AC1-036 C	0.5306	50/50	0.5306
925612	AC1-036 E	2.0138	50/50	2.0138
925785	AC1-054 E	1.3358	Adder	1.57
927261	AC1-222 C	-1.6635	Adder	-1.96
934311	AD1-055 C	-1.1550	Adder	-1.36
936265	AD2-033 C	24.3032	50/50	24.3032
936266	AD2-033 E	16.2022	50/50	16.2022
936361	AD2-046 C O1	5.3460	Adder	6.29
936362	AD2-046 E O1	2.4584	Adder	2.89
936485	AD2-063 C	35.1927	50/50	35.1927
936486	AD2-063 E	23.4618	50/50	23.4618
939181	AE1-148 C	9.1708	50/50	9.1708
939182	AE1-148 E	6.1139	50/50	6.1139
940661	AE2-053 O1	3.3966	50/50	3.3966
942451	AE2-258	5.5135	50/50	5.5135
943901	AF1-058 C	-0.9393	Adder	-1.11
946301	AF1-294 C	5.3145	50/50	5.3145
946302	AF1-294 E	3.5430	50/50	3.5430
958211	AF2-115 C	3.1262	50/50	3.1262
958212	AF2-115 E	2.0841	50/50	2.0841
961791	AG1-021 C	2.5009	50/50	2.5009
961792	AG1-021 E	1.6673	50/50	1.6673
961891	AG1-030 C	21.4002	50/50	21.4002
961892	AG1-030 E	14.2668	50/50	14.2668
962041	AG1-048 C	15.6307	50/50	15.6307
962042	AG1-048 E	10.4205	50/50	10.4205
962491	AG1-098 C O2	27.8820	50/50	27.8820
962492	AG1-098 E O2	18.5880	50/50	18.5880
962561	AG1-105 C O2	38.7348	50/50	38.7348
962562	AG1-105 E O2	25.8232	50/50	25.8232

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

13.5.60 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
174272369	314686	6CLOVER	DVP	314906	8CLOVER	DVP	2	DVP_P4-5: L912	breaker	1275.1	110.09	112.52	DC	31.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4450	50/50	0.4450
313853	3PONTONDP	0.7271	50/50	0.7271
314429	3JTRSVLE	0.4589	50/50	0.4589
314677	6BUCKING	0.3319	50/50	0.3319
314713	3PAMPLIN	1.8208	50/50	1.8208
315153	1CLOVER1	34.1185	50/50	34.1185
315154	1CLOVER2	33.7785	50/50	33.7785
315266	1PLYWOOD A	1.6528	50/50	1.6528
316118	AC1-105 C	7.9771	50/50	7.9771
316123	AC1-075 C	1.0733	50/50	1.0733
316131	AB2-060 C	1.2919	50/50	1.2919
924022	AB2-043 E O1	2.5222	50/50	2.5222
924032	AB2-045 E	0.9818	50/50	0.9818
924162	AB2-060 E OP	3.8536	50/50	3.8536
924301	AB2-077 C O1 (Suspended)	1.8008	50/50	1.8008
924302	AB2-077 E O1 (Suspended)	1.2006	50/50	1.2006
924311	AB2-078 C O1 (Suspended)	1.8008	50/50	1.8008
924312	AB2-078 E O1 (Suspended)	1.2006	50/50	1.2006
924321	AB2-079 C O1 (Suspended)	1.8008	50/50	1.8008
924322	AB2-079 E O1 (Suspended)	1.2006	50/50	1.2006
925611	AC1-036 C	0.2263	50/50	0.2263
925612	AC1-036 E	0.8588	50/50	0.8588
925997	AC1-075 E	3.8544	50/50	3.8544
926023	AC1-080 C	0.3587	50/50	0.3587
926024	AC1-080 E	1.2789	50/50	1.2789
926274	AC1-105 E	3.9192	50/50	3.9192
927251	AC1-221 C	2.1044	50/50	2.1044
927252	AC1-221 E	2.1044	50/50	2.1044
927261	AC1-222 C	5.4071	50/50	5.4071
927262	AC1-222 E	5.1474	50/50	5.1474
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3270	50/50	0.3270
932512	AC2-071 E (Withdrawn : 01/22/2021)	1.0441	50/50	1.0441
932761	AC2-100 C	4.8431	50/50	4.8431
932762	AC2-100 E	2.3639	50/50	2.3639
934311	AD1-055 C	3.7543	50/50	3.7543

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934312	AD1-055 E	0.9681	50/50	0.9681
934341	AD1-058 C	5.2755	50/50	5.2755
934342	AD1-058 E	1.3405	50/50	1.3405
934615	AD1-087 C	21.3278	50/50	21.3278
934616	AD1-087 E	9.1265	50/50	9.1265
934625	AD1-088 C	27.8010	50/50	27.8010
934626	AD1-088 E	7.2812	50/50	7.2812
934991	AD1-131 C	1.7297	50/50	1.7297
934992	AD1-131 E	1.1531	50/50	1.1531
935171	AD1-152 C O1	23.4264	50/50	23.4264
935172	AD1-152 E O1	15.6176	50/50	15.6176
935221	AD1-157 C	0.2657	50/50	0.2657
935222	AD1-157 E	1.1225	50/50	1.1225
936265	AD2-033 C	12.7475	50/50	12.7475
936266	AD2-033 E	8.4984	50/50	8.4984
936361	AD2-046 C O1	5.3404	Adder	6.28
936362	AD2-046 E O1	2.4558	Adder	2.89
936485	AD2-063 C	14.0391	50/50	14.0391
936486	AD2-063 E	9.3594	50/50	9.3594
937481	AD2-202 C O1	6.2470	50/50	6.2470
937482	AD2-202 E O1	3.5140	50/50	3.5140
938371	AE1-056 C	7.2591	50/50	7.2591
938372	AE1-056 E	3.9663	50/50	3.9663
939181	AE1-148 C	6.2667	50/50	6.2667
939182	AE1-148 E	4.1778	50/50	4.1778
940661	AE2-053 O1	1.9728	Adder	2.32
941791	AE2-182 C	4.5167	50/50	4.5167
941792	AE2-182 E	2.1026	50/50	2.1026
942451	AE2-258	2.1043	50/50	2.1043
942461	AE2-259 C O1	12.0948	50/50	12.0948
942462	AE2-259 E O1	8.0632	50/50	8.0632
942751	AE2-291 C	9.3171	50/50	9.3171
942752	AE2-291 E	6.2114	50/50	6.2114
942761	AE2-292 C O1	11.6007	50/50	11.6007
942762	AE2-292 E O1	7.7338	50/50	7.7338
943901	AF1-058 C	3.0301	50/50	3.0301
943902	AF1-058 E	2.0201	50/50	2.0201
946301	AF1-294 C	4.6354	50/50	4.6354
946302	AF1-294 E	3.0903	50/50	3.0903
958211	AF2-115 C	2.7267	50/50	2.7267
958212	AF2-115 E	1.8178	50/50	1.8178
958801	AF2-171 C	16.3314	50/50	16.3314
958802	AF2-171 E	10.8876	50/50	10.8876
959311	AF2-222 C	16.8900	50/50	16.8900
959312	AF2-222 E	11.3163	50/50	11.3163
959751	AF2-266	24.4910	50/50	24.4910
960061	AF2-297 C	12.1205	50/50	12.1205
960062	AF2-297 E	8.0803	50/50	8.0803
961741	AG1-014 BAT	10.0467	Merchant Transmission	10.0467
961751	AG1-015 BAT	8.0373	Merchant Transmission	8.0373
961791	AG1-021 C	2.1814	50/50	2.1814
961792	AG1-021 E	1.4542	50/50	1.4542

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961891	AG1-030 C	15.8895	50/50	15.8895
961892	AG1-030 E	10.5930	50/50	10.5930
962041	AG1-048 C	13.6335	50/50	13.6335
962042	AG1-048 E	9.0890	50/50	9.0890
962441	AG1-093 C O2	36.4532	50/50	36.4532
962442	AG1-093 E O2	11.0944	50/50	11.0944
962491	AG1-098 C O2	11.4548	50/50	11.4548
962492	AG1-098 E O2	7.6365	50/50	7.6365
962561	AG1-105 C O2	12.0078	50/50	12.0078
962562	AG1-105 E O2	8.0052	50/50	8.0052
963043	AG1-153 BAT	3.9309	Merchant Transmission	3.9309
963113	AG1-160 BAT	3.8367	Merchant Transmission	3.8367
963171	AG1-166 C	2.1814	50/50	2.1814
963172	AG1-166 E	1.4542	50/50	1.4542
963181	AG1-167 C	2.1814	50/50	2.1814
963182	AG1-167 E	1.4542	50/50	1.4542
963191	AG1-168 C	2.1814	50/50	2.1814
963192	AG1-168 E	1.4542	50/50	1.4542
963201	AG1-169 C	2.1814	50/50	2.1814
963202	AG1-169 E	1.4542	50/50	1.4542
963211	AG1-170 C	2.1814	50/50	2.1814
963212	AG1-170 E	1.4542	50/50	1.4542
963271	AG1-176 C O2	25.6327	50/50	25.6327
963272	AG1-176 E O2	17.0884	50/50	17.0884
963321	AG1-181 C O2	16.6991	50/50	16.6991
963361	AG1-185 O2	8.0794	50/50	8.0794
963641	AG1-215 C	1.0180	50/50	1.0180
963642	AG1-215 E	1.5270	50/50	1.5270
964111	AG1-272 C	2.5714	50/50	2.5714
964112	AG1-272 E	0.7638	50/50	0.7638
964121	AG1-273 C	2.5714	50/50	2.5714
964122	AG1-273 E	0.7638	50/50	0.7638
964131	AG1-274 C	2.5714	50/50	2.5714
964132	AG1-274 E	0.7638	50/50	0.7638
964261	AG1-287 C	2.2726	50/50	2.2726
964262	AG1-287 E	1.5151	50/50	1.5151
964471	AG1-310 C	3.0745	50/50	3.0745
964472	AG1-310 E	1.5143	50/50	1.5143
964791	AG1-342 C	5.2839	50/50	5.2839
964792	AG1-342 E	4.1517	50/50	4.1517
964821	AG1-345 C	0.8717	50/50	0.8717
964822	AG1-345 E	0.5811	50/50	0.5811
964841	AG1-347 C	20.9530	50/50	20.9530
964842	AG1-347 E	16.4630	50/50	16.4630
964931	AG1-357 C O2	18.6936	50/50	18.6936
964932	AG1-357 E O2	12.4624	50/50	12.4624
965191	AG1-384 C	2.5714	50/50	2.5714
965192	AG1-384 E	0.7638	50/50	0.7638
965281	AG1-393 C	2.1814	50/50	2.1814
965282	AG1-393 E	1.4542	50/50	1.4542
965451	AG1-413 C O2	1.7401	Adder	3.86
965452	AG1-413 E O2	1.1601	Adder	2.58

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	10.9750	50/50	10.9750
965592	AG1-427 E	7.3321	50/50	7.3321
965641	AG1-432 C O2	24.1896	50/50	24.1896
965642	AG1-432 E O2	16.1264	50/50	16.1264
965721	AG1-440 C	1.8768	Adder	4.17
965722	AG1-440 E	1.2512	Adder	2.78
965731	AG1-441 C	1.8768	Adder	4.17
965732	AG1-441 E	1.2512	Adder	2.78
965771	AG1-445	1.0844	Adder	2.41
965781	AG1-446	1.0844	Adder	2.41
965812	AG1-449 BAT	7.1010	Merchant Transmission	7.1010
965831	AG1-451	4.0316	50/50	4.0316
966691	AG1-539 C	4.8717	50/50	4.8717
966692	AG1-539 E	6.5463	50/50	6.5463
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.1413	50/50	2.1413
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	1.4275	50/50	1.4275
WEC	WEC	0.3978	Confirmed LTF	0.3978
LGEE	LGEE	0.8356	Confirmed LTF	0.8356
CPL	CPL	2.6181	Confirmed LTF	2.6181
CBM-W2	CBM-W2	14.4614	Confirmed LTF	14.4614
NY	NY	0.4109	Confirmed LTF	0.4109
TVA	TVA	2.5732	Confirmed LTF	2.5732
O-066	O-066	6.1041	Confirmed LTF	6.1041
SIGE	SIGE	0.2380	Confirmed LTF	0.2380
CBM-S2	CBM-S2	31.7063	Confirmed LTF	31.7063
CBM-S1	CBM-S1	0.6635	Confirmed LTF	0.6635
G-007	G-007	0.9618	Confirmed LTF	0.9618
MEC	MEC	2.2039	Confirmed LTF	2.2039
LAGN	LAGN	3.1483	Confirmed LTF	3.1483
AA2-074	AA2-074	1.7321	LTF	1.7321
CBM-W1	CBM-W1	16.8661	Confirmed LTF	16.8661

13.5.61 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
174066840	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	2	DVP_P4-6: CHASE C T342	breaker	208.7	416.53	469.58	DC	110.73

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

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

13.5.62 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
174066841	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	1	DVP_P4-6: CHASE C T342	breaker	221.4	316.23	356.51	DC	89.18

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

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

13.5.63 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
174066851	314692	6FARMVIL	DVP	966860	AG1-557 TAP	DVP	1	DVP_P4-2: 556T591	breaker	684.0	234.56	242.26	DC	52.68

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

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

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

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

13.5.64 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
174272223	314693	3FRMAN D	DVP	314565	3CLUBHSE71	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	111.64	121.3	DC	38.61

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

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

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

13.5.65 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
174454297	314694	3GRIT	DVP	314712	3OTTER R	DVP	1	DVP_P4-2: 556T591	breaker	350.0	124.3	126.24	DC	15.09

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

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

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

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

13.5.66 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
169215327	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	1	DVP_P1-2: LN 31-A	single	226.73	108.0	115.49	DC	16.99

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4611	80/20	0.4611
314429	3JTRSVLE	0.2244	80/20	0.2244
314704	3LAWRENC	0.1281	80/20	0.1281
315158	1KERR 1	0.2695	80/20	0.2695
315159	1KERR 2	0.7545	80/20	0.7545
315160	1KERR 3	0.7545	80/20	0.7545
315161	1KERR 4	0.7545	80/20	0.7545
315162	1KERR 5	0.7545	80/20	0.7545
315163	1KERR 6	0.7545	80/20	0.7545
315164	1KERR 7	0.7545	80/20	0.7545
315266	1PLYWOOD A	2.4899	80/20	2.4899
316118	AC1-105 C	11.8749	80/20	11.8749
316123	AC1-075 C	2.3774	80/20	2.3774
316129	AC1-054 C	3.5195	80/20	3.5195
316131	AB2-060 C	1.3067	80/20	1.3067
924301	AB2-077 C O1 (Suspended)	1.9096	80/20	1.9096
924311	AB2-078 C O1 (Suspended)	1.9096	80/20	1.9096
924321	AB2-079 C O1 (Suspended)	1.9096	80/20	1.9096
925611	AC1-036 C	0.1617	80/20	0.1617
926023	AC1-080 C	0.7946	80/20	0.7946
927261	AC1-222 C	9.0102	80/20	9.0102
934311	AD1-055 C	6.2560	80/20	6.2560
935221	AD1-157 C	0.1109	80/20	0.1109
936265	AD2-033 C	9.8350	80/20	9.8350
936361	AD2-046 C O1	6.6100	80/20	6.6100
936485	AD2-063 C	12.6891	80/20	12.6891
938371	AE1-056 C	3.0295	80/20	3.0295
939181	AE1-148 C	6.5885	80/20	6.5885
940661	AE2-053 O1	2.4402	80/20	2.4402
942451	AE2-258	2.1804	80/20	2.1804
942751	AE2-291 C	24.0791	80/20	24.0791
942761	AE2-292 C O1	29.9809	80/20	29.9809
943901	AF1-058 C	4.7215	80/20	4.7215
943911	AF1-059	10.2612	80/20	10.2612
946301	AF1-294 C	2.2672	80/20	2.2672
958211	AF2-115 C	1.3337	80/20	1.3337
958801	AF2-171 C	8.0514	80/20	8.0514
959311	AF2-222 C	11.4860	80/20	11.4860
960061	AF2-297 C	18.8861	80/20	18.8861

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961791	AG1-021 C	1.0669	80/20	1.0669
961891	AG1-030 C	8.9550	80/20	8.9550
962041	AG1-048 C	6.6682	80/20	6.6682
962491	AG1-098 C O2	11.0835	80/20	11.0835
962561	AG1-105 C O2	16.3374	80/20	16.3374
963171	AG1-166 C	1.0669	80/20	1.0669
963181	AG1-167 C	1.0669	80/20	1.0669
963191	AG1-168 C	1.0669	80/20	1.0669
963201	AG1-169 C	1.0669	80/20	1.0669
963211	AG1-170 C	1.0669	80/20	1.0669
963301	AG1-179 C	2.8109	80/20	2.8109
963311	AG1-180	1.3696	80/20	1.3696
963321	AG1-181 C O2	12.3704	80/20	12.3704
963361	AG1-185 O2	5.9851	80/20	5.9851
963641	AG1-215 C	0.4979	80/20	0.4979
964111	AG1-272 C	1.8379	80/20	1.8379
964121	AG1-273 C	1.8379	80/20	1.8379
964131	AG1-274 C	1.8379	80/20	1.8379
964261	AG1-287 C	3.5411	80/20	3.5411
964471	AG1-310 C	5.2724	80/20	5.2724
964791	AG1-342 C	7.4186	80/20	7.4186
964821	AG1-345 C	0.4285	80/20	0.4285
964931	AG1-357 C O2	16.9908	80/20	16.9908
965191	AG1-384 C	1.8379	80/20	1.8379
965281	AG1-393 C	1.0669	80/20	1.0669
965451	AG1-413 C O2	4.4957	80/20	4.4957
965591	AG1-427 C	10.2590	80/20	10.2590
965601	AG1-428 C O2	2.3466	80/20	2.3466
965721	AG1-440 C	4.5517	80/20	4.5517
965731	AG1-441 C	4.5517	80/20	4.5517
965771	AG1-445	2.6299	80/20	2.6299
965781	AG1-446	2.6299	80/20	2.6299
966691	AG1-539 C	12.5904	80/20	12.5904
966751	AG1-546 C	7.2717	80/20	7.2717
CALDERWOOD	CALDERWOOD	0.0959	Confirmed LTF	0.0959
NY	NY	0.0077	Confirmed LTF	0.0077
PRAIRIE	PRAIRIE	0.3642	Confirmed LTF	0.3642
CHEOAH	CHEOAH	0.0981	Confirmed LTF	0.0981
COTTONWOOD	COTTONWOOD	0.3591	Confirmed LTF	0.3591
HAMLET	HAMLET	0.1582	Confirmed LTF	0.1582
GIBSON	GIBSON	0.0682	Confirmed LTF	0.0682
BLUEG	BLUEG	0.2135	Confirmed LTF	0.2135
TRIMBLE	TRIMBLE	0.0679	Confirmed LTF	0.0679
CATAWBA	CATAWBA	0.0977	Confirmed LTF	0.0977

13.5.67 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
169215341	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.06	124.43	133.63	DC	23.58

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	3.9390	80/20	3.9390
939181	AE1-148 C	9.0639	80/20	9.0639

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939941	AE1-230 C	0.9773	80/20	0.9773
940661	AE2-053 O1	3.3570	80/20	3.3570
941801	AE2-185 C	4.8863	80/20	4.8863
941821	AE2-187 C	4.8863	80/20	4.8863
942451	AE2-258	3.0456	80/20	3.0456
942461	AE2-259 C O1	3.4614	80/20	3.4614
942671	AE2-283 C	5.3749	80/20	5.3749
942751	AE2-291 C	19.2303	80/20	19.2303
942761	AE2-292 C O1	23.9436	80/20	23.9436
943901	AF1-058 C	6.8382	80/20	6.8382
943911	AF1-059	13.9753	80/20	13.9753
945081	AF1-173	1.8934	80/20	1.8934
946301	AF1-294 C	3.0019	80/20	3.0019
958211	AF2-115 C	1.7658	80/20	1.7658
958801	AF2-171 C	10.6686	80/20	10.6686
959311	AF2-222 C	15.6520	80/20	15.6520
960061	AF2-297 C	27.3528	80/20	27.3528
961121	AF2-403	1.0858	80/20	1.0858
961791	AG1-021 C	1.4126	80/20	1.4126
961891	AG1-030 C	12.0186	80/20	12.0186
962041	AG1-048 C	8.8290	80/20	8.8290
962491	AG1-098 C O2	15.4305	80/20	15.4305
962561	AG1-105 C O2	23.4198	80/20	23.4198
963171	AG1-166 C	1.4126	80/20	1.4126
963181	AG1-167 C	1.4126	80/20	1.4126
963191	AG1-168 C	1.4126	80/20	1.4126
963201	AG1-169 C	1.4126	80/20	1.4126
963211	AG1-170 C	1.4126	80/20	1.4126
963301	AG1-179 C	3.7578	80/20	3.7578
963311	AG1-180	1.8309	80/20	1.8309
963321	AG1-181 C O2	16.9578	80/20	16.9578
963361	AG1-185 O2	8.2047	80/20	8.2047
963601	AG1-209 C	0.3800	80/20	0.3800
963641	AG1-215 C	0.6592	80/20	0.6592
964111	AG1-272 C	2.5135	80/20	2.5135
964121	AG1-273 C	2.5135	80/20	2.5135
964131	AG1-274 C	2.5135	80/20	2.5135
964141	AG1-275 C	1.6288	80/20	1.6288
964151	AG1-276 C	1.6288	80/20	1.6288
964251	AG1-286 C	0.6204	80/20	0.6204
964261	AG1-287 C	5.1287	80/20	5.1287
964471	AG1-310 C	6.8479	80/20	6.8479
964791	AG1-342 C	10.6614	80/20	10.6614
964821	AG1-345 C	0.5676	80/20	0.5676
964931	AG1-357 C O2	23.5788	80/20	23.5788
965191	AG1-384 C	2.5135	80/20	2.5135
965281	AG1-393 C	1.4126	80/20	1.4126
965451	AG1-413 C O2	6.1420	80/20	6.1420
965591	AG1-427 C	14.2570	80/20	14.2570
965601	AG1-428 C O2	3.1371	80/20	3.1371
965641	AG1-432 C O2	6.9228	80/20	6.9228
965721	AG1-440 C	6.1749	80/20	6.1749

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965731	AG1-441 C	6.1749	80/20	6.1749
965771	AG1-445	3.5677	80/20	3.5677
965781	AG1-446	3.5677	80/20	3.5677
965831	AG1-451	1.1538	80/20	1.1538
966691	AG1-539 C	10.0550	80/20	10.0550
966751	AG1-546 C	9.5834	80/20	9.5834
966761	AG1-547 C	4.4167	80/20	4.4167
WEC	WEC	0.0161	Confirmed LTF	0.0161
LGEE	LGEE	0.0503	Confirmed LTF	0.0503
CALDERWOOD	CALDERWOOD	0.1387	Confirmed LTF	0.1387
NY	NY	0.0553	Confirmed LTF	0.0553
PRAIRIE	PRAIRIE	0.0827	Confirmed LTF	0.0827
SIGE	SIGE	0.0180	Confirmed LTF	0.0180
CHEOAH	CHEOAH	0.1491	Confirmed LTF	0.1491
COTTONWOOD	COTTONWOOD	0.4284	Confirmed LTF	0.4284
HAMLET	HAMLET	0.6791	Confirmed LTF	0.6791
CATAWBA	CATAWBA	0.3035	Confirmed LTF	0.3035
CBM-W1	CBM-W1	0.7150	Confirmed LTF	0.7150

13.5.68 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
175280641	314697	6SEEDGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-B-C	single	674.92	183.88	187.97	DC	27.55

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

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

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

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

13.5.69 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
166961540	314699	3ISLND C	DVP	313705	3KERRDP	DVP	1	DVP_P7-1: LN 171-1009	tower	202.0	102.98	115.96	DC	26.21

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	10.9420	50/50	10.9420
959312	AF2-222 E	7.3311	50/50	7.3311
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
962491	AG1-098 C O2	10.2067	50/50	10.2067
962492	AG1-098 E O2	6.8045	50/50	6.8045
962561	AG1-105 C O2	6.3654	50/50	6.3654
962562	AG1-105 E O2	4.2436	50/50	4.2436
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 O2	11.6799	50/50	11.6799
963361	AG1-185 O2	5.6511	50/50	5.6511
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
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
964931	AG1-357 C O2	15.7272	50/50	15.7272

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964932	AG1-357 E O2	10.4848	50/50	10.4848
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 O2	1.5335	Adder	3.4
965452	AG1-413 E O2	1.0223	Adder	2.27
965591	AG1-427 C	9.4847	50/50	9.4847
965592	AG1-427 E	6.3365	50/50	6.3365
965601	AG1-428 C O2	0.6379	Adder	1.42
965602	AG1-428 E O2	0.4245	Adder	0.94
965641	AG1-432 C O2	3.0047	Adder	6.67
965642	AG1-432 E O2	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
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

13.5.70 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
168479814	314701	3LONEPN	DVP	313755	3FLAT CREEK	DVP	1	DVP_P1-2: LN 1045	single	203.98	217.67	276.48	DC	119.96

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

13.5.71 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
163759396	314702	3KERR	DVP	304102	3GW KING TAP	CPL	1	DVP_P7-1: LN 22-90	tower	199.0	182.85	200.38	DC	35.47

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

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

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

13.5.72 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
174272219	314704	3LAWRENC	DVP	314693	3FRMAND	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	112.49	122.15	DC	38.61

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

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

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

13.5.73 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
169215293	314707	3MORAN	DVP	314691	3FARMVIL	DVP	1	DVP_P1-2: LN 1045	single	203.98	214.29	273.1	DC	119.96

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

13.5.74 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
175906885	314712	3OTTER R	DVP	314666	3ALTVSTA	DVP	1	DVP_P1-2: LN 556-B-C	single	269.78	120.42	123.77	DC	9.05

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2342	80/20	0.2342
314429	3JTRSVLE	0.1582	80/20	0.1582
315153	1CLOVER1	5.6497	80/20	5.6497
315154	1CLOVER2	5.5934	80/20	5.5934
315158	1KERR 1	0.1479	80/20	0.1479
315159	1KERR 2	0.4140	80/20	0.4140
315160	1KERR 3	0.4140	80/20	0.4140
315161	1KERR 4	0.4140	80/20	0.4140
315162	1KERR 5	0.4140	80/20	0.4140
315163	1KERR 6	0.4140	80/20	0.4140
315164	1KERR 7	0.4140	80/20	0.4140
315266	1PLYWOOD A	1.0279	80/20	1.0279
316118	AC1-105 C	4.9149	80/20	4.9149
316123	AC1-075 C	2.6596	80/20	2.6596
316131	AB2-060 C	0.6693	80/20	0.6693
924301	AB2-077 C O1 (Suspended)	0.9595	80/20	0.9595
924311	AB2-078 C O1 (Suspended)	0.9595	80/20	0.9595
924321	AB2-079 C O1 (Suspended)	0.9595	80/20	0.9595
925611	AC1-036 C	0.0950	80/20	0.0950
925661	AC1-042 C	-2.7383	Adder	-3.22
926023	AC1-080 C	0.8889	80/20	0.8889
927261	AC1-222 C	5.0515	80/20	5.0515
934311	AD1-055 C	3.5074	80/20	3.5074
934615	AD1-087 C	3.5493	80/20	3.5493
934625	AD1-088 C	4.8388	80/20	4.8388
935171	AD1-152 C O1	3.8986	80/20	3.8986
935221	AD1-157 C	0.0853	80/20	0.0853
936265	AD2-033 C	5.5895	80/20	5.5895
936361	AD2-046 C O1	3.5702	80/20	3.5702
936485	AD2-063 C	6.7725	80/20	6.7725
937481	AD2-202 C O1	1.0396	80/20	1.0396
938371	AE1-056 C	2.3296	80/20	2.3296
939181	AE1-148 C	3.5473	80/20	3.5473
940661	AE2-053 O1	1.3138	80/20	1.3138
941791	AE2-182 C	0.7861	80/20	0.7861
942451	AE2-258	1.1076	80/20	1.1076
942461	AE2-259 C O1	3.1770	80/20	3.1770
942751	AE2-291 C	32.7677	80/20	32.7677
942761	AE2-292 C O1	40.7990	80/20	40.7990

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943901	AF1-058 C	1.9088	80/20	1.9088
943911	AF1-059	5.6494	80/20	5.6494
945811	AF1-246 C O1	3.4070	80/20	3.4070
946301	AF1-294 C	1.5978	80/20	1.5978
957481	AF2-042 C	24.3360	80/20	24.3360
958211	AF2-115 C	0.9399	80/20	0.9399
958801	AF2-171 C	5.6511	80/20	5.6511
959311	AF2-222 C	6.8930	80/20	6.8930
959751	AF2-266	4.0555	80/20	4.0555
960061	AF2-297 C	7.6354	80/20	7.6354
961791	AG1-021 C	0.7519	80/20	0.7519
961891	AG1-030 C	5.8698	80/20	5.8698
962041	AG1-048 C	4.6995	80/20	4.6995
962441	AG1-093 C O2	8.0086	80/20	8.0086
962491	AG1-098 C O2	5.7675	80/20	5.7675
962561	AG1-105 C O2	7.0932	80/20	7.0932
963171	AG1-166 C	0.7519	80/20	0.7519
963181	AG1-167 C	0.7519	80/20	0.7519
963191	AG1-168 C	0.7519	80/20	0.7519
963201	AG1-169 C	0.7519	80/20	0.7519
963211	AG1-170 C	0.7519	80/20	0.7519
963271	AG1-176 C O2	4.8438	80/20	4.8438
963321	AG1-181 C O2	7.1521	80/20	7.1521
963361	AG1-185 O2	3.4604	80/20	3.4604
963641	AG1-215 C	0.3509	80/20	0.3509
964111	AG1-272 C	1.0791	80/20	1.0791
964121	AG1-273 C	1.0791	80/20	1.0791
964131	AG1-274 C	1.0791	80/20	1.0791
964241	AG1-285 C O2	6.0840	80/20	6.0840
964261	AG1-287 C	1.4316	80/20	1.4316
964471	AG1-310 C	3.2918	80/20	3.2918
964791	AG1-342 C	3.1669	80/20	3.1669
964821	AG1-345 C	0.3012	80/20	0.3012
964841	AG1-347 C	3.6820	80/20	3.6820
964931	AG1-357 C O2	9.0492	80/20	9.0492
965191	AG1-384 C	1.0791	80/20	1.0791
965281	AG1-393 C	0.7519	80/20	0.7519
965451	AG1-413 C O2	2.4520	80/20	2.4520
965591	AG1-427 C	5.4072	80/20	5.4072
965641	AG1-432 C O2	6.3540	80/20	6.3540
965721	AG1-440 C	2.5690	80/20	2.5690
965731	AG1-441 C	2.5690	80/20	2.5690
965771	AG1-445	1.4843	80/20	1.4843
965781	AG1-446	1.4843	80/20	1.4843
965831	AG1-451	1.0590	80/20	1.0590
966361	AG1-505 C	7.3008	80/20	7.3008
966371	AG1-506 C	7.3008	80/20	7.3008
966691	AG1-539 C	17.1334	80/20	17.1334
CPL	CPL	1.2333	Confirmed LTF	1.2333
G-007A	G-007A	0.2374	Confirmed LTF	0.2374
VFT	VFT	0.6256	Confirmed LTF	0.6256
PRAIRIE	PRAIRIE	0.4856	Confirmed LTF	0.4856

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S2	CBM-S2	10.8785	Confirmed LTF	10.8785
CBM-N	CBM-N	0.1116	Confirmed LTF	0.1116
GIBSON	GIBSON	0.1638	Confirmed LTF	0.1638
BLUEG	BLUEG	0.5781	Confirmed LTF	0.5781
TRIMBLE	TRIMBLE	0.1881	Confirmed LTF	0.1881
LAGN	LAGN	0.0350	Confirmed LTF	0.0350

13.5.75 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
174272232	314721	3SO HILL	DVP	943910	AF1-059 TAP	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	113.3	122.96	DC	38.62

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

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

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

13.5.76 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
169215263	314726	3WILLIS	DVP	314691	3FARMVIL	DVP	1	Base Case	single	186.12	145.53	150.69	DC	9.61

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

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

13.5.77 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
169431757	314747	6BREMO	DVP	313867	6BREMODIST	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	153.06	156.08	DC	20.0

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

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

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

13.5.78 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
169431774	314747	6BREMO	DVP	314744	3BREMO	DVP	1	DVP_P1-2: LN 2193	single	269.78	141.27	144.65	DC	9.11

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

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

13.5.79 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
175512488	314747	6BREMO	DVP	313868	6CARTERV	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88	112.11	113.81	DC	13.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2811	80/20	0.2811
314429	3JTRSVLE	0.4835	80/20	0.4835
314677	6BUCKING	0.8051	80/20	0.8051
315153	1CLOVER1	4.3284	80/20	4.3284
315154	1CLOVER2	4.2852	80/20	4.2852
315158	1KERR 1	0.1411	80/20	0.1411
315159	1KERR 2	0.3952	80/20	0.3952
315160	1KERR 3	0.3952	80/20	0.3952
315161	1KERR 4	0.3952	80/20	0.3952
315162	1KERR 5	0.3952	80/20	0.3952
315163	1KERR 6	0.3952	80/20	0.3952
315164	1KERR 7	0.3952	80/20	0.3952
315191	1BEARGRDN G1	14.2612	80/20	14.2612
315192	1BEARGRDN G2	14.2612	80/20	14.2612
315193	1BEARGRDN S1	18.4425	80/20	18.4425
315266	1PLYWOOD A	0.4253	80/20	0.4253
316118	AC1-105 C	2.1876	80/20	2.1876
316131	AB2-060 C	0.8407	80/20	0.8407
924301	AB2-077 C O1 (Suspended)	1.0994	80/20	1.0994
924311	AB2-078 C O1 (Suspended)	1.0994	80/20	1.0994
924321	AB2-079 C O1 (Suspended)	1.0994	80/20	1.0994
925611	AC1-036 C	0.1990	80/20	0.1990
927261	AC1-222 C	1.2313	80/20	1.2313
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7931	80/20	0.7931
934311	AD1-055 C	0.8549	80/20	0.8549
934615	AD1-087 C	2.7103	80/20	2.7103
934625	AD1-088 C	10.6986	80/20	10.6986
935171	AD1-152 C O1	2.9770	80/20	2.9770
935221	AD1-157 C	0.2946	80/20	0.2946
936265	AD2-033 C	10.6548	80/20	10.6548
936361	AD2-046 C O1	3.5828	80/20	3.5828
936485	AD2-063 C	10.3014	80/20	10.3014
937481	AD2-202 C O1	0.7939	80/20	0.7939
938371	AE1-056 C	8.0510	80/20	8.0510
938821	AE1-108 C O1	29.3760	80/20	29.3760
939181	AE1-148 C	3.5932	80/20	3.5932
940661	AE2-053 O1	1.3308	80/20	1.3308

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941011	AE2-092 C	25.2822	80/20	25.2822
941791	AE2-182 C	1.7381	80/20	1.7381
942451	AE2-258	1.3291	80/20	1.3291
942461	AE2-259 C O1	15.0516	80/20	15.0516
943901	AF1-058 C	0.6646	80/20	0.6646
943911	AF1-059	5.9093	80/20	5.9093
946291	AF1-293 C O1	39.5443	80/20	39.5443
946301	AF1-294 C	4.8845	80/20	4.8845
946591	AF1-323 C	9.4261	80/20	9.4261
958131	AF2-107 C	4.3750	80/20	4.3750
958211	AF2-115 C	2.8733	80/20	2.8733
958801	AF2-171 C	17.1603	80/20	17.1603
959311	AF2-222 C	15.3100	80/20	15.3100
959751	AF2-266	3.1070	80/20	3.1070
960061	AF2-297 C	2.6582	80/20	2.6582
960111	AF2-302 C	3.4277	80/20	3.4277
961061	AF2-397 C	36.6538	80/20	36.6538
961791	AG1-021 C	2.2986	80/20	2.2986
961801	AG1-022 C	3.4277	80/20	3.4277
961891	AG1-030 C	15.8310	80/20	15.8310
962041	AG1-048 C	14.3663	80/20	14.3663
962441	AG1-093 C O2	5.1308	80/20	5.1308
962491	AG1-098 C O2	7.8412	80/20	7.8412
962561	AG1-105 C O2	4.5072	80/20	4.5072
962741	AG1-123 C O2	2.8673	80/20	2.8673
962751	AG1-124 C O2	4.0170	80/20	4.0170
963171	AG1-166 C	2.2986	80/20	2.2986
963181	AG1-167 C	2.2986	80/20	2.2986
963191	AG1-168 C	2.2986	80/20	2.2986
963201	AG1-169 C	2.2986	80/20	2.2986
963211	AG1-170 C	2.2986	80/20	2.2986
963271	AG1-176 C O2	21.5558	80/20	21.5558
963321	AG1-181 C O2	14.3538	80/20	14.3538
963361	AG1-185 O2	6.9447	80/20	6.9447
963641	AG1-215 C	1.0727	80/20	1.0727
964111	AG1-272 C	2.2620	80/20	2.2620
964121	AG1-273 C	2.2620	80/20	2.2620
964131	AG1-274 C	2.2620	80/20	2.2620
964231	AG1-284 C O2	17.0478	80/20	17.0478
964261	AG1-287 C	0.4984	80/20	0.4984
964471	AG1-310 C	0.7118	80/20	0.7118
964791	AG1-342 C	1.8023	80/20	1.8023
964821	AG1-345 C	0.9168	80/20	0.9168
964841	AG1-347 C	9.1353	80/20	9.1353
964931	AG1-357 C O2	13.6428	80/20	13.6428
965191	AG1-384 C	2.2620	80/20	2.2620
965281	AG1-393 C	2.2986	80/20	2.2986
965451	AG1-413 C O2	2.6075	80/20	2.6075
965581	AG1-426	6.4000	80/20	6.4000
965591	AG1-427 C	7.7911	80/20	7.7911
965641	AG1-432 C O2	30.1032	80/20	30.1032
965721	AG1-440 C	2.3620	80/20	2.3620

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965731	AG1-441 C	2.3620	80/20	2.3620
965771	AG1-445	1.3647	80/20	1.3647
965781	AG1-446	1.3647	80/20	1.3647
965831	AG1-451	5.0172	80/20	5.0172
966251	AG1-494 C	1.6494	80/20	1.6494
966791	AG1-550 O2	14.2065	80/20	14.2065
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1932	80/20	4.1932
WEC	WEC	0.1988	Confirmed LTF	0.1988
LGEE	LGEE	0.4247	Confirmed LTF	0.4247
CPL	CPL	1.0859	Confirmed LTF	1.0859
CBM-W2	CBM-W2	7.3114	Confirmed LTF	7.3114
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.3104	Confirmed LTF	1.3104
SIG	SIG	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.5012	Confirmed LTF	14.5012
CBM-S1	CBM-S1	0.3374	Confirmed LTF	0.3374
MEC	MEC	1.1075	Confirmed LTF	1.1075
LAGN	LAGN	1.5942	Confirmed LTF	1.5942
CBM-W1	CBM-W1	8.3419	Confirmed LTF	8.3419

13.5.80 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
169431747	314765	6MTEAGLE	DVP	314749	6CHARLVL	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	154.38	157.15	DC	18.33

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

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

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

13.5.81 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
173559831	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-B-B	single	718.0	184.92	188.75	DC	27.55

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

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

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

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

13.5.82 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
175280772	933500	AC2-165 TAP	DVP	314333	6POWHATN	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88	115.52	117.23	DC	13.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2811	80/20	0.2811
314429	3JTRSVLE	0.4835	80/20	0.4835
314677	6BUCKING	0.8051	80/20	0.8051
315153	1CLOVER1	4.3284	80/20	4.3284
315154	1CLOVER2	4.2852	80/20	4.2852
315158	1KERR 1	0.1411	80/20	0.1411
315159	1KERR 2	0.3952	80/20	0.3952
315160	1KERR 3	0.3952	80/20	0.3952
315161	1KERR 4	0.3952	80/20	0.3952
315162	1KERR 5	0.3952	80/20	0.3952
315163	1KERR 6	0.3952	80/20	0.3952
315164	1KERR 7	0.3952	80/20	0.3952
315191	1BEARGRDN G1	14.2612	80/20	14.2612
315192	1BEARGRDN G2	14.2612	80/20	14.2612
315193	1BEARGRDN S1	18.4425	80/20	18.4425
315266	1PLYWOOD A	0.4253	80/20	0.4253
316118	AC1-105 C	2.1876	80/20	2.1876
316131	AB2-060 C	0.8407	80/20	0.8407
924301	AB2-077 C O1 (Suspended)	1.0994	80/20	1.0994
924311	AB2-078 C O1 (Suspended)	1.0994	80/20	1.0994
924321	AB2-079 C O1 (Suspended)	1.0994	80/20	1.0994
925611	AC1-036 C	0.1990	80/20	0.1990
927261	AC1-222 C	1.2313	80/20	1.2313
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7931	80/20	0.7931
933501	AC2-165 C	39.2445	80/20	39.2445
934311	AD1-055 C	0.8549	80/20	0.8549
934615	AD1-087 C	2.7103	80/20	2.7103
934625	AD1-088 C	10.6986	80/20	10.6986
935171	AD1-152 C O1	2.9770	80/20	2.9770
935221	AD1-157 C	0.2946	80/20	0.2946
936265	AD2-033 C	10.6548	80/20	10.6548
936361	AD2-046 C O1	3.5828	80/20	3.5828
936485	AD2-063 C	10.3014	80/20	10.3014
937481	AD2-202 C O1	0.7939	80/20	0.7939
938371	AE1-056 C	8.0510	80/20	8.0510
938821	AE1-108 C O1	29.3760	80/20	29.3760
939181	AE1-148 C	3.5932	80/20	3.5932

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940661	AE2-053 O1	1.3308	80/20	1.3308
941011	AE2-092 C	25.2822	80/20	25.2822
941791	AE2-182 C	1.7381	80/20	1.7381
942451	AE2-258	1.3291	80/20	1.3291
942461	AE2-259 C O1	15.0516	80/20	15.0516
943901	AF1-058 C	0.6646	80/20	0.6646
943911	AF1-059	5.9093	80/20	5.9093
946291	AF1-293 C O1	39.5443	80/20	39.5443
946301	AF1-294 C	4.8845	80/20	4.8845
946591	AF1-323 C	9.4261	80/20	9.4261
958131	AF2-107 C	4.3750	80/20	4.3750
958211	AF2-115 C	2.8733	80/20	2.8733
958801	AF2-171 C	17.1603	80/20	17.1603
959311	AF2-222 C	15.3100	80/20	15.3100
959751	AF2-266	3.1070	80/20	3.1070
960061	AF2-297 C	2.6582	80/20	2.6582
960111	AF2-302 C	3.4277	80/20	3.4277
961061	AF2-397 C	36.6538	80/20	36.6538
961791	AG1-021 C	2.2986	80/20	2.2986
961801	AG1-022 C	3.4277	80/20	3.4277
961891	AG1-030 C	15.8310	80/20	15.8310
962041	AG1-048 C	14.3663	80/20	14.3663
962441	AG1-093 C O2	5.1308	80/20	5.1308
962491	AG1-098 C O2	7.8412	80/20	7.8412
962561	AG1-105 C O2	4.5072	80/20	4.5072
962741	AG1-123 C O2	2.8673	80/20	2.8673
962751	AG1-124 C O2	4.0170	80/20	4.0170
963171	AG1-166 C	2.2986	80/20	2.2986
963181	AG1-167 C	2.2986	80/20	2.2986
963191	AG1-168 C	2.2986	80/20	2.2986
963201	AG1-169 C	2.2986	80/20	2.2986
963211	AG1-170 C	2.2986	80/20	2.2986
963271	AG1-176 C O2	21.5558	80/20	21.5558
963321	AG1-181 C O2	14.3538	80/20	14.3538
963361	AG1-185 O2	6.9447	80/20	6.9447
963641	AG1-215 C	1.0727	80/20	1.0727
964111	AG1-272 C	2.2620	80/20	2.2620
964121	AG1-273 C	2.2620	80/20	2.2620
964131	AG1-274 C	2.2620	80/20	2.2620
964231	AG1-284 C O2	17.0478	80/20	17.0478
964261	AG1-287 C	0.4984	80/20	0.4984
964471	AG1-310 C	0.7118	80/20	0.7118
964791	AG1-342 C	1.8023	80/20	1.8023
964821	AG1-345 C	0.9168	80/20	0.9168
964841	AG1-347 C	9.1353	80/20	9.1353
964931	AG1-357 C O2	13.6428	80/20	13.6428
965191	AG1-384 C	2.2620	80/20	2.2620
965281	AG1-393 C	2.2986	80/20	2.2986
965451	AG1-413 C O2	2.6075	80/20	2.6075
965581	AG1-426	6.4000	80/20	6.4000
965591	AG1-427 C	7.7911	80/20	7.7911
965641	AG1-432 C O2	30.1032	80/20	30.1032

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	2.3620	80/20	2.3620
965731	AG1-441 C	2.3620	80/20	2.3620
965771	AG1-445	1.3647	80/20	1.3647
965781	AG1-446	1.3647	80/20	1.3647
965831	AG1-451	5.0172	80/20	5.0172
966251	AG1-494 C	1.6494	80/20	1.6494
966791	AG1-550 O2	14.2065	80/20	14.2065
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1932	80/20	4.1932
WEC	WEC	0.1988	Confirmed LTF	0.1988
LGEE	LGEE	0.4247	Confirmed LTF	0.4247
CPL	CPL	1.0859	Confirmed LTF	1.0859
CBM-W2	CBM-W2	7.3114	Confirmed LTF	7.3114
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.3104	Confirmed LTF	1.3104
SIG	SIG	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.5012	Confirmed LTF	14.5012
CBM-S1	CBM-S1	0.3374	Confirmed LTF	0.3374
MEC	MEC	1.1075	Confirmed LTF	1.1075
LAGN	LAGN	1.5942	Confirmed LTF	1.5942
CBM-W1	CBM-W1	8.3419	Confirmed LTF	8.3419

13.5.83 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
168479959	934330	AD1-057 TAP	DVP	313845	6HATHAWAY	DVP	1	DVP_P1-2: LN 238-B	single	441.8	118.13	119.49	DC	6.01

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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
962491	AG1-098 C O2	3.9015	80/20	3.9015
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
964491	AG1-312 C O1	10.8562	80/20	10.8562
964501	AG1-313 C O2	4.2584	80/20	4.2584
964801	AG1-343 C	4.1877	80/20	4.1877
964931	AG1-357 C O2	6.0120	80/20	6.0120
965291	AG1-394 C	1.4462	80/20	1.4462
965451	AG1-413 C O2	3.7663	80/20	3.7663
965591	AG1-427 C	3.6254	80/20	3.6254
965601	AG1-428 C O2	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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.84 Index 84

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174066900	934620	AD1-088 TAP	DVP	314686	6CLOVER	DVP	1	DVP_P4-2: 219322	breaker	699.0	131.06	138.13	DC	49.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5789	50/50	0.5789
313853	3PONTONDP	1.8407	50/50	1.8407
314429	3JTRSVLE	1.1616	50/50	1.1616
314677	6BUCKING	1.6096	50/50	1.6096
314713	3PAMPLIN	4.9033	50/50	4.9033
315161	1KERR 4	0.7452	50/50	0.7452
315162	1KERR 5	0.7452	50/50	0.7452
315163	1KERR 6	0.7452	50/50	0.7452
315164	1KERR 7	0.7452	50/50	0.7452
316131	AB2-060 C	1.7524	50/50	1.7524
924022	AB2-043 E O1	3.2808	50/50	3.2808
924032	AB2-045 E	4.7609	50/50	4.7609
924162	AB2-060 E OP	5.2270	50/50	5.2270
924301	AB2-077 C O1 (Suspended)	2.2313	50/50	2.2313
924302	AB2-077 E O1 (Suspended)	1.4875	50/50	1.4875
924311	AB2-078 C O1 (Suspended)	2.2313	50/50	2.2313
924312	AB2-078 E O1 (Suspended)	1.4875	50/50	1.4875
924321	AB2-079 C O1 (Suspended)	2.2313	50/50	2.2313
924322	AB2-079 E O1 (Suspended)	1.4875	50/50	1.4875
925611	AC1-036 C	0.4580	50/50	0.4580
925612	AC1-036 E	1.7383	50/50	1.7383
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0632	50/50	5.0632
934625	AD1-088 C	63.1640	50/50	63.1640
934626	AD1-088 E	16.5430	50/50	16.5430
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0230	50/50	3.0230
936265	AD2-033 C	24.1714	50/50	24.1714
936266	AD2-033 E	16.1143	50/50	16.1143
936361	AD2-046 C O1	6.9048	50/50	6.9048
936362	AD2-046 E O1	3.1752	50/50	3.1752
936485	AD2-063 C	22.4433	50/50	22.4433
936486	AD2-063 E	14.9622	50/50	14.9622
938371	AE1-056 C	19.5486	50/50	19.5486

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938372	AE1-056 E	10.6812	50/50	10.6812
939181	AE1-148 C	6.9525	50/50	6.9525
939182	AE1-148 E	4.6350	50/50	4.6350
940661	AE2-053 O1	2.5750	50/50	2.5750
941791	AE2-182 C	10.2619	50/50	10.2619
941792	AE2-182 E	4.7771	50/50	4.7771
942451	AE2-258	2.7372	50/50	2.7372
942461	AE2-259 C O1	37.3446	50/50	37.3446
942462	AE2-259 E O1	24.8964	50/50	24.8964
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7346	50/50	11.7346
946302	AF1-294 E	7.8231	50/50	7.8231
958211	AF2-115 C	6.9027	50/50	6.9027
958212	AF2-115 E	4.6018	50/50	4.6018
958801	AF2-171 C	41.2011	50/50	41.2011
958802	AF2-171 E	27.4674	50/50	27.4674
959311	AF2-222 C	35.5040	50/50	35.5040
959312	AF2-222 E	23.7877	50/50	23.7877
961791	AG1-021 C	5.5222	50/50	5.5222
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5651	50/50	37.5651
961892	AG1-030 E	25.0434	50/50	25.0434
962041	AG1-048 C	34.5135	50/50	34.5135
962042	AG1-048 E	23.0090	50/50	23.0090
962491	AG1-098 C O2	16.6673	50/50	16.6673
962492	AG1-098 E O2	11.1115	50/50	11.1115
962561	AG1-105 C O2	6.7818	50/50	6.7818
962562	AG1-105 E O2	4.5212	50/50	4.5212
963171	AG1-166 C	5.5222	50/50	5.5222
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5222	50/50	5.5222
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5222	50/50	5.5222
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5222	50/50	5.5222
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5222	50/50	5.5222
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O2	72.3655	50/50	72.3655
963272	AG1-176 E O2	48.2436	50/50	48.2436
963321	AG1-181 C O2	32.8199	50/50	32.8199
963361	AG1-185 O2	15.8791	50/50	15.8791
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8655	50/50	3.8655
964111	AG1-272 C	5.2047	50/50	5.2047
964112	AG1-272 E	1.5459	50/50	1.5459
964121	AG1-273 C	5.2047	50/50	5.2047
964122	AG1-273 E	1.5459	50/50	1.5459
964131	AG1-274 C	5.2047	50/50	5.2047
964132	AG1-274 E	1.5459	50/50	1.5459
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964841	AG1-347 C	48.8998	50/50	48.8998
964842	AG1-347 E	38.4212	50/50	38.4212
964931	AG1-357 C O2	29.6676	50/50	29.6676
964932	AG1-357 E O2	19.7784	50/50	19.7784
965191	AG1-384 C	5.2047	50/50	5.2047
965192	AG1-384 E	1.5459	50/50	1.5459
965281	AG1-393 C	5.5222	50/50	5.5222
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O2	5.5753	50/50	5.5753
965452	AG1-413 E O2	3.7169	50/50	3.7169
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O2	74.6892	50/50	74.6892
965642	AG1-432 E O2	49.7928	50/50	49.7928
965831	AG1-451	12.4482	50/50	12.4482
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	9.0684	50/50	9.0684
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	6.0456	50/50	6.0456
WEC	WEC	0.0233	Confirmed LTF	0.0233
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPL	CPL	0.2539	Confirmed LTF	0.2539
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677
NY	NY	0.0420	Confirmed LTF	0.0420
TVA	TVA	0.1806	Confirmed LTF	0.1806
O-066	O-066	0.5855	Confirmed LTF	0.5855
SIGE	SIGE	0.0177	Confirmed LTF	0.0177
CBM-S2	CBM-S2	2.6726	Confirmed LTF	2.6726
CBM-S1	CBM-S1	0.0456	Confirmed LTF	0.0456
G-007	G-007	0.0924	Confirmed LTF	0.0924
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2223	Confirmed LTF	0.2223
CBM-W1	CBM-W1	0.9814	Confirmed LTF	0.9814

13.5.85 Index 85

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174066969	936400	AD2-051 TAP	DVP	314569	6EARLEYS	DVP	1	DVP_P4-2: 23872	breaker	699.0	123.12	124.17	DC	16.28

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

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

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

13.5.86 Index 86

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174066952	939180	AE1-148 TAP	DVP	314702	3KERR	DVP	1	DVP_P4-2: 3612	breaker	398.6	110.2	126.5	DC	64.96

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

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

13.5.87 Index 87

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163291300	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	166.22	167.56	DC	24.66

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

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962351	AG1-084 C	0.8099	Adder	1.8
962352	AG1-084 E	0.5399	Adder	1.2
962361	AG1-085 C	0.8099	Adder	1.8
962362	AG1-085 E	0.5399	Adder	1.2
962491	AG1-098 C O2	4.3424	Adder	9.64
962492	AG1-098 E O2	2.8949	Adder	6.43
962571	AG1-106 C	12.0238	50/50	12.0238
962572	AG1-106 E	5.4527	50/50	5.4527
963301	AG1-179 C	10.7581	50/50	10.7581
963311	AG1-180	5.2416	50/50	5.2416
963321	AG1-181 C O2	4.8852	Adder	10.84
963361	AG1-185 O2	2.3636	Adder	5.25
964491	AG1-312 C O1	7.5745	Adder	16.81
964492	AG1-312 E O1	1.8936	Adder	4.2
964501	AG1-313 C O2	6.3298	50/50	6.3298
964502	AG1-313 E O2	4.2199	50/50	4.2199
964801	AG1-343 C	2.6428	Adder	5.87
964802	AG1-343 E	2.0765	Adder	4.61
964931	AG1-357 C O2	6.6667	Adder	14.8
964932	AG1-357 E O2	4.4445	Adder	9.87
965291	AG1-394 C	0.9050	Adder	2.01
965292	AG1-394 E	0.6033	Adder	1.34
965451	AG1-413 C O2	10.6898	50/50	10.6898
965452	AG1-413 E O2	7.1265	50/50	7.1265
965591	AG1-427 C	4.0275	Adder	8.94
965592	AG1-427 E	2.6907	Adder	5.97
965601	AG1-428 C O2	8.9810	50/50	8.9810
965602	AG1-428 E O2	5.9767	50/50	5.9767
965691	AG1-437 C O1	3.5190	Adder	7.81
965692	AG1-437 E O1	2.3460	Adder	5.21
965701	AG1-438 C O1	3.5190	Adder	7.81
965702	AG1-438 E O1	2.3460	Adder	5.21
965711	AG1-439 C O1	27.9180	50/50	27.9180
965712	AG1-439 E O1	18.6120	50/50	18.6120
965721	AG1-440 C	3.3703	Adder	7.48
965722	AG1-440 E	2.2469	Adder	4.99
965731	AG1-441 C	3.3703	Adder	7.48
965732	AG1-441 E	2.2469	Adder	4.99
965741	AG1-442 O1	2.0528	Adder	4.56
965751	AG1-443 O1	2.0528	Adder	4.56
965761	AG1-444 O1	14.8896	50/50	14.8896
965771	AG1-445	1.9473	Adder	4.32
965781	AG1-446	1.9473	Adder	4.32
966621	AG1-532 C	3.5014	50/50	3.5014
966622	AG1-532 E	2.3343	50/50	2.3343
966751	AG1-546 C	20.3177	50/50	20.3177
966752	AG1-546 E	10.9018	50/50	10.9018
966801	AG1-551 C	0.8593	Adder	1.91
966802	AG1-551 E	0.3683	Adder	0.82
966811	AG1-552 C	3.3962	50/50	3.3962
966812	AG1-552 E	1.4555	50/50	1.4555
WEC	WEC	0.2003	Confirmed LTF	0.2003

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.88 Index 88

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174454289	942750	AE2-291 TAP	DVP	314694	3GRIT	DVP	1	DVP_P4-2: 511T556	breaker	350.0	125.18	127.13	DC	15.09

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

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

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

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

13.5.89 Index 89

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174272234	943910	AF1-059 TAP	DVP	314675	3BRODNAX	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	112.86	122.52	DC	38.62

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

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

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

13.5.90 Index 90

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168784001	957820	AF2-076 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2092	single	571.52	187.11	188.26	DC	6.61

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
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	2.6257	80/20	2.6257
315293	1DOMTR9	13.5803	80/20	13.5803
315294	1DOMTR10	16.6425	80/20	16.6425
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	4.9383	80/20	4.9383
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2098	80/20	4.2098
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	1.5592	80/20	1.5592
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961941	AG1-037 C	0.8635	80/20	0.8635
962271	AG1-075 C O2	4.6675	80/20	4.6675
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
962491	AG1-098 C O2	4.3132	80/20	4.3132
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
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O2	6.2746	80/20	6.2746
964801	AG1-343 C	4.7135	80/20	4.7135
964931	AG1-357 C O2	6.6084	80/20	6.6084
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O2	3.3660	80/20	3.3660
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O2	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

13.5.91 Index 91

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
175093295	961060	AF2-397 TAP	DVP	314765	6MTEAGLE	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	157.9	160.67	DC	18.33

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

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

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

13.5.92 Index 92

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174889165	961890	AG1-030 TAP	DVP	314706	3MARTIN TAP	DVP	1	DVP_P1-2: LN 1045	single	269.78	102.94	147.4	DC	119.97

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

13.5.93 Index 93

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174066963	962560	AG1-105 TAP	DVP	314684	3MT LREL	DVP	1	DVP_P4-2: 3612	breaker	406.0	105.67	123.11	DC	70.92

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	1.1660	50/50	1.1660
313853	3PONTONDP	0.8336	50/50	0.8336
314429	3JTRSVLE	0.5261	50/50	0.5261
315160	1KERR 3	0.7605	50/50	0.7605
315161	1KERR 4	0.7605	50/50	0.7605
315162	1KERR 5	0.7605	50/50	0.7605
315163	1KERR 6	0.7605	50/50	0.7605
315164	1KERR 7	0.7605	50/50	0.7605
316129	AC1-054 C	2.8997	Adder	3.41
316131	AB2-060 C	3.2970	50/50	3.2970
924022	AB2-043 E O1	6.6084	50/50	6.6084
924162	AB2-060 E OP	9.8342	50/50	9.8342
925611	AC1-036 C	0.5306	50/50	0.5306
925612	AC1-036 E	2.0138	50/50	2.0138
925785	AC1-054 E	1.3358	Adder	1.57
927261	AC1-222 C	-1.6635	Adder	-1.96
934311	AD1-055 C	-1.1550	Adder	-1.36
936265	AD2-033 C	24.3032	50/50	24.3032
936266	AD2-033 E	16.2022	50/50	16.2022
936361	AD2-046 C O1	5.3460	Adder	6.29
936362	AD2-046 E O1	2.4584	Adder	2.89
936485	AD2-063 C	35.1927	50/50	35.1927
936486	AD2-063 E	23.4618	50/50	23.4618
939181	AE1-148 C	9.1708	50/50	9.1708
939182	AE1-148 E	6.1139	50/50	6.1139
940661	AE2-053 O1	3.3966	50/50	3.3966
942451	AE2-258	5.5135	50/50	5.5135
943901	AF1-058 C	-0.9393	Adder	-1.11
946301	AF1-294 C	5.3145	50/50	5.3145
946302	AF1-294 E	3.5430	50/50	3.5430
958211	AF2-115 C	3.1262	50/50	3.1262
958212	AF2-115 E	2.0841	50/50	2.0841
961791	AG1-021 C	2.5009	50/50	2.5009
961792	AG1-021 E	1.6673	50/50	1.6673
961891	AG1-030 C	21.4002	50/50	21.4002
961892	AG1-030 E	14.2668	50/50	14.2668
962041	AG1-048 C	15.6307	50/50	15.6307
962042	AG1-048 E	10.4205	50/50	10.4205
962491	AG1-098 C O2	27.8820	50/50	27.8820
962492	AG1-098 E O2	18.5880	50/50	18.5880
962561	AG1-105 C O2	38.7348	50/50	38.7348
962562	AG1-105 E O2	25.8232	50/50	25.8232

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963171	AG1-166 C	2.5009	50/50	2.5009
963172	AG1-166 E	1.6673	50/50	1.6673
963181	AG1-167 C	2.5009	50/50	2.5009
963182	AG1-167 E	1.6673	50/50	1.6673
963191	AG1-168 C	2.5009	50/50	2.5009
963192	AG1-168 E	1.6673	50/50	1.6673
963201	AG1-169 C	2.5009	50/50	2.5009
963202	AG1-169 E	1.6673	50/50	1.6673
963211	AG1-170 C	2.5009	50/50	2.5009
963212	AG1-170 E	1.6673	50/50	1.6673
963321	AG1-181 C O2	39.5292	50/50	39.5292
963361	AG1-185 O2	19.1253	50/50	19.1253
963641	AG1-215 C	1.1671	50/50	1.1671
963642	AG1-215 E	1.7506	50/50	1.7506
964111	AG1-272 C	6.0297	50/50	6.0297
964112	AG1-272 E	1.7909	50/50	1.7909
964121	AG1-273 C	6.0297	50/50	6.0297
964122	AG1-273 E	1.7909	50/50	1.7909
964131	AG1-274 C	6.0297	50/50	6.0297
964132	AG1-274 E	1.7909	50/50	1.7909
964793	AG1-342 BAT	2.7592	50/50	2.7592
964821	AG1-345 C	1.0052	50/50	1.0052
964822	AG1-345 E	0.6701	50/50	0.6701
964931	AG1-357 C O2	42.5508	50/50	42.5508
964932	AG1-357 E O2	28.3672	50/50	28.3672
965191	AG1-384 C	6.0297	50/50	6.0297
965192	AG1-384 E	1.7909	50/50	1.7909
965281	AG1-393 C	2.5009	50/50	2.5009
965282	AG1-393 E	1.6673	50/50	1.6673
965591	AG1-427 C	27.8022	50/50	27.8022
965592	AG1-427 E	18.5739	50/50	18.5739
965721	AG1-440 C	2.0443	Adder	4.54
965722	AG1-440 E	1.3629	Adder	3.03
965731	AG1-441 C	2.0443	Adder	4.54
965732	AG1-441 E	1.3629	Adder	3.03
965771	AG1-445	1.1811	Adder	2.62
965781	AG1-446	1.1811	Adder	2.62
966751	AG1-546 C	3.1493	Adder	6.99
966752	AG1-546 E	1.6898	Adder	3.75
G-007A	G-007A	0.0791	Confirmed LTF	0.0791
VFT	VFT	0.2129	Confirmed LTF	0.2129
CALDERWOOD	CALDERWOOD	0.1049	Confirmed LTF	0.1049
PRAIRIE	PRAIRIE	0.4339	Confirmed LTF	0.4339
CHEOAH	CHEOAH	0.1061	Confirmed LTF	0.1061
CBM-N	CBM-N	0.0384	Confirmed LTF	0.0384
COTTONWOOD	COTTONWOOD	0.3969	Confirmed LTF	0.3969
HAMLET	HAMLET	0.1288	Confirmed LTF	0.1288
GIBSON	GIBSON	0.0857	Confirmed LTF	0.0857
BLUEG	BLUEG	0.2726	Confirmed LTF	0.2726
TRIMBLE	TRIMBLE	0.0874	Confirmed LTF	0.0874
CATAWBA	CATAWBA	0.0889	Confirmed LTF	0.0889

13.5.94 Index 94

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174272227	964840	AG1-347 TAP	DVP	934620	AD1-088 TAP	DVP	1	DVP_P4-2: 219322	breaker	699.0	117.65	124.71	DC	49.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5789	50/50	0.5789
313853	3PONTONDP	1.8407	50/50	1.8407
314429	3JTRSVLE	1.1616	50/50	1.1616
314677	6BUCKING	1.6096	50/50	1.6096
314713	3PAMPLIN	4.9033	50/50	4.9033
315161	1KERR 4	0.7452	50/50	0.7452
315162	1KERR 5	0.7452	50/50	0.7452
315163	1KERR 6	0.7452	50/50	0.7452
315164	1KERR 7	0.7452	50/50	0.7452
316131	AB2-060 C	1.7524	50/50	1.7524
924022	AB2-043 E O1	3.2808	50/50	3.2808
924032	AB2-045 E	4.7609	50/50	4.7609
924162	AB2-060 E OP	5.2270	50/50	5.2270
924301	AB2-077 C O1 (Suspended)	2.2313	50/50	2.2313
924302	AB2-077 E O1 (Suspended)	1.4875	50/50	1.4875
924311	AB2-078 C O1 (Suspended)	2.2313	50/50	2.2313
924312	AB2-078 E O1 (Suspended)	1.4875	50/50	1.4875
924321	AB2-079 C O1 (Suspended)	2.2313	50/50	2.2313
924322	AB2-079 E O1 (Suspended)	1.4875	50/50	1.4875
925611	AC1-036 C	0.4580	50/50	0.4580
925612	AC1-036 E	1.7383	50/50	1.7383
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0632	50/50	5.0632
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0230	50/50	3.0230
936265	AD2-033 C	24.1714	50/50	24.1714
936266	AD2-033 E	16.1143	50/50	16.1143
936361	AD2-046 C O1	6.9048	50/50	6.9048
936362	AD2-046 E O1	3.1752	50/50	3.1752
936485	AD2-063 C	22.4433	50/50	22.4433
936486	AD2-063 E	14.9622	50/50	14.9622
938371	AE1-056 C	19.5486	50/50	19.5486
938372	AE1-056 E	10.6812	50/50	10.6812
939181	AE1-148 C	6.9525	50/50	6.9525

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939182	AE1-148 E	4.6350	50/50	4.6350
940661	AE2-053 O1	2.5750	50/50	2.5750
942451	AE2-258	2.7372	50/50	2.7372
942461	AE2-259 C O1	37.3446	50/50	37.3446
942462	AE2-259 E O1	24.8964	50/50	24.8964
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7346	50/50	11.7346
946302	AF1-294 E	7.8231	50/50	7.8231
958211	AF2-115 C	6.9027	50/50	6.9027
958212	AF2-115 E	4.6018	50/50	4.6018
958801	AF2-171 C	41.2011	50/50	41.2011
958802	AF2-171 E	27.4674	50/50	27.4674
959311	AF2-222 C	35.5040	50/50	35.5040
959312	AF2-222 E	23.7877	50/50	23.7877
961791	AG1-021 C	5.5222	50/50	5.5222
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5651	50/50	37.5651
961892	AG1-030 E	25.0434	50/50	25.0434
962041	AG1-048 C	34.5135	50/50	34.5135
962042	AG1-048 E	23.0090	50/50	23.0090
962491	AG1-098 C O2	16.6673	50/50	16.6673
962492	AG1-098 E O2	11.1115	50/50	11.1115
962561	AG1-105 C O2	6.7818	50/50	6.7818
962562	AG1-105 E O2	4.5212	50/50	4.5212
963171	AG1-166 C	5.5222	50/50	5.5222
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5222	50/50	5.5222
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5222	50/50	5.5222
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5222	50/50	5.5222
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5222	50/50	5.5222
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O2	72.3655	50/50	72.3655
963272	AG1-176 E O2	48.2436	50/50	48.2436
963321	AG1-181 C O2	32.8199	50/50	32.8199
963361	AG1-185 O2	15.8791	50/50	15.8791
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8655	50/50	3.8655
964111	AG1-272 C	5.2047	50/50	5.2047
964112	AG1-272 E	1.5459	50/50	1.5459
964121	AG1-273 C	5.2047	50/50	5.2047
964122	AG1-273 E	1.5459	50/50	1.5459
964131	AG1-274 C	5.2047	50/50	5.2047
964132	AG1-274 E	1.5459	50/50	1.5459
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679
964841	AG1-347 C	48.8998	50/50	48.8998
964842	AG1-347 E	38.4212	50/50	38.4212
964931	AG1-357 C O2	29.6676	50/50	29.6676
964932	AG1-357 E O2	19.7784	50/50	19.7784

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965191	AG1-384 C	5.2047	50/50	5.2047
965192	AG1-384 E	1.5459	50/50	1.5459
965281	AG1-393 C	5.5222	50/50	5.5222
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O2	5.5753	50/50	5.5753
965452	AG1-413 E O2	3.7169	50/50	3.7169
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O2	74.6892	50/50	74.6892
965642	AG1-432 E O2	49.7928	50/50	49.7928
965831	AG1-451	12.4482	50/50	12.4482
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	9.0684	50/50	9.0684
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	6.0456	50/50	6.0456
WEC	WEC	0.0233	Confirmed LTF	0.0233
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPL	CPL	0.2539	Confirmed LTF	0.2539
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677
NY	NY	0.0420	Confirmed LTF	0.0420
TVA	TVA	0.1806	Confirmed LTF	0.1806
O-066	O-066	0.5855	Confirmed LTF	0.5855
SIGE	SIGE	0.0177	Confirmed LTF	0.0177
CBM-S2	CBM-S2	2.6726	Confirmed LTF	2.6726
CBM-S1	CBM-S1	0.0456	Confirmed LTF	0.0456
G-007	G-007	0.0924	Confirmed LTF	0.0924
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2223	Confirmed LTF	0.2223
CBM-W1	CBM-W1	0.9814	Confirmed LTF	0.9814

13.5.95 Index 95

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174066850	966860	AG1-557 TAP	DVP	314677	6BUCKING	DVP	1	DVP_P4-2: 511T556	breaker	684.0	234.54	242.23	DC	52.68

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

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

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

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

13.6 Contingency Descriptions - Secondary POI

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

Contingency Name	Contingency Definition
DVP_P4-2: 219322	CONTINGENCY 'DVP_P4-2: 219322' /* BREMO 230 KV OPEN BRANCH FROM BUS 313707 TO BUS 313867 CKT 1 /* 6FORK UNION 230.00 - 6BREMODIST 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BUS 313867 /* ISLAND: 6BREMODIST 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END
DVP_P1-2: LN 249	CONTINGENCY 'DVP_P1-2: LN 249' / 1030 OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 / 314282 6CARSON 230 314285 6CHRL249 230 1 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 / 314285 6CHRL249 230 314316 6LOCKS 230 1 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 / 314314 3LOCKS 115 314316 6LOCKS 230 2 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
DVP_P4-2: 511T556	CONTINGENCY 'DVP_P4-2: 511T556' /* RAWLINGS 500 KV OPEN BRANCH FROM BUS 942930 TO BUS 314936 CKT 1 /* AE2-313 TAP 500.00 - 8RAWLINGS 500.00 OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P1-2: LN 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
Base Case	
DVP_P2-2: BREMO B1	CONTINGENCY 'DVP_P2-2: BREMO B1' /* BREMO 230 KV OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END

Contingency Name	Contingency Definition
DVP_P2-2: BREMO B4	CONTINGENCY 'DVP_P2-2: BREMO B4' /* BREMO 115 KV OPEN BRANCH FROM BUS 313871 TO BUS 313874 CKT 1 /* 3COBBS CREEK115.00 - 3JAMES RI TP115.00 OPEN BRANCH FROM BUS 313871 TO BUS 314762 CKT 1 /* 3COBBS CREEK115.00 - 3JAMES R 115.00 OPEN BRANCH FROM BUS 313874 TO BUS 313875 CKT 1 /* 3JAMES RI TP115.00 - 3TRICESLK 115.00 OPEN BRANCH FROM BUS 313874 TO BUS 314744 CKT 1 /* 3JAMES RI TP115.00 - 3BREMO 115.00 OPEN BUS 313871 /* ISLAND: 3COBBS CREEK115.00 OPEN BUS 313874 /* ISLAND: 3JAMES RI TP115.00 OPEN BUS 313875 /* ISLAND: 3TRICESLK 115.00 OPEN BUS 314762 /* ISLAND: 3JAMES R 115.00 OPEN BRANCH FROM BUS 313708 TO BUS 314744 CKT 1 /* 3FORK UNION 115.00 - 3BREMO 115.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 END
DVP_P4-2: L5T68	CONTINGENCY 'DVP_P4-2: L5T68' / 388 OPEN BRANCH FROM BUS 314536 TO BUS 961850 CKT 1 / 314536 3SUFFOLK 115 961850 AG1-027 TAP 115 1 OPEN BRANCH FROM BUS 314537 TO BUS 314536 CKT 2 / 314537 6SUFFOLK 230 314536 3SUFFOLK 115 2 END
DVP_P7-1: LN 171-1009	CONTINGENCY 'DVP_P7-1: LN 171-1009' /* . OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 /* 3HERBERT 115.00 - 3CHASCTY 115.00 OPEN BRANCH FROM BUS 313849 TO BUS 314267 CKT 1 /* 3RIDGERD 115.00 - 3CHASCTY2 115.00 END
DVP_P1-2: LN 33-A	CONTINGENCY 'DVP_P1-2: LN 33-A' / 937 OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 / 314267 3CHASCTY2 115 314669 3BARNES J 115 1 OPEN BRANCH FROM BUS 314669 TO BUS 962560 CKT 1 / 314669 3BARNES J 115 962560 AG1-105 TAP 115 1 END
314333 6POWHATN 230 933500 AC2-165 TAP 230 1	CONTINGENCY '314333 6POWHATN 230 933500 AC2-165 TAP 230 1' OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 END
DVP_P1-3: 6SEEDGE HILL-TX#1	CONTINGENCY 'DVP_P1-3: 6SEEDGE HILL-TX#1' / 857 OPEN BRANCH FROM BUS 314696 TO BUS 314697 CKT 1 / 314696 3SEEDGE HILL 115 314697 6SEEDGE HILL 230 1 END

Contingency Name	Contingency Definition
DVP_P4-2: 201262	CONTINGENCY 'DVP_P4-2: 201262' / 173 OPEN BRANCH FROM BUS 314569 TO BUS 936400 CKT 1 / 314569 6EARLEYS 230 936400 AD2-051 TAP 230 1 OPEN BRANCH FROM BUS 314568 TO BUS 314569 CKT 1 / 314568 3EARLEYS 115 314569 6EARLEYS 230 1 END
DVP_P4-2: 15412	CONTINGENCY 'DVP_P4-2: 15412' / 350 OPEN BRANCH FROM BUS 314722 TO BUS 959310 CKT 1 / 314722 3TWITTYS 115 959310 AF2-222 TAP 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 314781 CKT 1 / 314681 3CHASCTY 115 314781 3BLACKBR 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 314708 CKT 1 / 314681 3CHASCTY 115 314708 3NORVIEW 115 1 OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 / 313806 3HERBERT 115 314681 3CHASCTY 115 1 END
DVP_P4-2: 2028T2054	CONTINGENCY 'DVP_P4-2: 2028T2054' / 952 OPEN BRANCH FROM BUS 314765 TO BUS 961060 CKT 1 / 314765 6MTEAGLE 230 961060 AF2-397 TAP 230 1 OPEN BRANCH FROM BUS 314749 TO BUS 314765 CKT 1 / 314749 6CHARLVL 230 314765 6MTEAGLE 230 1 OPEN BRANCH FROM BUS 314765 TO BUS 926451 CKT 1 / 314765 6MTEAGLE 230 926451 AC1-116 C 230 1 OPEN BRANCH FROM BUS 926451 TO BUS 926452 CKT 1 / 926451 AC1-116 C 230 926452 AC1-116 E 230 1 OPEN BRANCH FROM BUS 314749 TO BUS 314772 CKT 1 / 314749 6CHARLVL 230 314772 6PROFFIT 230 1 OPEN BRANCH FROM BUS 314759 TO BUS 314772 CKT 1 / 314759 6HOLLYMD 230 314772 6PROFFIT 230 1 END
DVP_P4-2: 1T158	CONTINGENCY 'DVP_P4-2: 1T158' / 330 OPEN BRANCH FROM BUS 314426 TO BUS 314701 CKT 1 / 314426 3FT PKET 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314426 TO BUS 963641 CKT 1 / 314426 3FT PKET 115 963641 AG1-215 C 115 1 OPEN BRANCH FROM BUS 314426 TO BUS 965281 CKT 1 / 314426 3FT PKET 115 965281 AG1-393 C 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 / 313755 3FLAT CREEK 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 / 313755 3FLAT CREEK 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 / 314519 3LONEPINE_1 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' / 187 OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 / 313725 6DRY BREAD 230 314563 6CLUBHSE 230 1 END
DVP_P1-2: LN 45	CONTINGENCY 'DVP_P1-2: LN 45' / 1588 OPEN BRANCH FROM BUS 304099 TO BUS 304102 CKT 1 / 304099 3WARREN TAP 115 304102 3GW KING TAP 115 1 OPEN BRANCH FROM BUS 304099 TO BUS 304107 CKT 1 / 304099 3WARREN TAP 115 304107 3WARRENTN BU 115 1 OPEN BRANCH FROM BUS 304099 TO BUS 305640 CKT 1 / 304099 3WARREN TAP 115 305640 3BULLOKSOLTA 115 1 OPEN BRANCH FROM BUS 304089 TO BUS 304100 CKT 1 / 304089 3HEND
DVP_P1-2: LN 1045	CONTINGENCY 'DVP_P1-2: LN 1045' / 212 OPEN BRANCH FROM BUS 313898 TO BUS 314267 CKT 1 / 313898 3BUTCHER CRK 115 314267 3CHASCTY2 115 1 END
AEP_P2-2_#10265_05LEESVI 138_1	CONTINGENCY 'AEP_P2-2_#10265_05LEESVI 138_1' OPEN BRANCH FROM BUS 242701 TO BUS 242802 CKT 1 / 242701 05LEESVI 138 242802 05SMITHMTN 138 1 OPEN BRANCH FROM BUS 242701 TO BUS 314667 CKT 1 / 242701 05LEESVI 138 314667 4ALTVSTA 138 1 OPEN BRANCH FROM BUS 242701 TO BUS 247284 CKT 1 / 242701 05LEESVI 138 247284 05LEESVG 13.8 1 END
DVP_P1-2: LN 238-A	CONTINGENCY 'DVP_P1-2: LN 238-A' OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2- 033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 END
DVP_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2028-B-1	CONTINGENCY 'DVP_P1-2: LN 2028-B-1' / 729 OPEN BRANCH FROM BUS 314765 TO BUS 961060 CKT 1 / 314765 6MTEAGLE 230 961060 AF2-397 TAP 230 1 OPEN BRANCH FROM BUS 314749 TO BUS 314765 CKT 1 / 314749 6CHARLVL 230 314765 6MTEAGLE 230 1 OPEN BRANCH FROM BUS 314765 TO BUS 926451 CKT 1 / 314765 6MTEAGLE 230 926451 AC1-116 C 230 1 OPEN BRANCH FROM BUS 926451 TO BUS 926452 CKT 1 / 926451 AC1-116 C 230 926452 AC1-116 E 230 1 END
DVP_P4-5: FARMVIL L432	CONTINGENCY 'DVP_P4-5: FARMVIL L432' / 1172 OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 / 313802 6PRINCE EDW 230 314268 6BRIERY 230 1 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 / 313802 6PRINCE EDW 230 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 / 314268 6BRIERY 230 964840 AG1-347 TAP 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 / 314691 3FARMVIL 115 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 / 314691 3FARMVIL 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 / 314691 3FARMVIL 115 314692 6FARMVIL 230 2 END
DVP_P7-1: LN 2058-2181	CONTINGENCY 'DVP_P7-1: LN 2058-2181' /* . OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P1-2: LN 238-B	CONTINGENCY 'DVP_P1-2: LN 238-B' / 796 OPEN BRANCH FROM BUS 314563 TO BUS 940480 CKT 1 / 314563 6CLUBHSE 230 940480 AE2-033 TAP 230 1 OPEN BRANCH FROM BUS 314562 TO BUS 314563 CKT 1 / 314562 3CLUBHSE 115 314563 6CLUBHSE 230 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 31-A	CONTINGENCY 'DVP_P1-2: LN 31-A' / 285 OPEN BRANCH FROM BUS 314666 TO BUS 314712 CKT 1 / 314666 3ALTVSTA 115 314712 3OTTER R 115 1 OPEN BRANCH FROM BUS 314694 TO BUS 314712 CKT 1 / 314694 3GRIT 115 314712 3OTTER R 115 1 OPEN BRANCH FROM BUS 314694 TO BUS 942750 CKT 1 / 314694 3GRIT 115 942750 AE2-291 TAP 115 1 END
AEP_P2-2_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P2-2_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
DVP_P4-6: CAROLIN T122	CONTINGENCY 'DVP_P4-6: CAROLIN T122' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 315126 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP2 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 315128 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP4 14.400 OPEN BUS 315126 /* ISLAND: 1ROARAP2 14.400 OPEN BUS 315128 /* ISLAND: 1ROARAP4 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314578 CKT 1 /* 3CAROLNA 115.00 - 3HORNRTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 OPEN BUS 314559 /* 3CAROLNA 115.00 KV OPEN BUS 314835 /* ISLAND: 3CAROL_1 115.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 556-B-C	CONTINGENCY 'DVP_P1-2: LN 556-B-C' OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P1-2: LN 556-B-B	CONTINGENCY 'DVP_P1-2: LN 556-B-B' OPEN BRANCH FROM BUS 964240 TO BUS 966360 CKT 1 /* AG1-285 TAP 500.00 - AG1-505 TAP 500.00 END
DVP_P1-2: LN 556-B-A	CONTINGENCY 'DVP_P1-2: LN 556-B-A' OPEN BRANCH FROM BUS 945810 TO BUS 964240 CKT 1 /* AF1-246 TAP 500.00 - AG1-285 TAP 500.00 END
DVP_P4-5: L912	CONTINGENCY 'DVP_P4-5: L912' / 1372 OPEN BRANCH FROM BUS 314906 TO BUS 314686 CKT 1 / 314906 8CLOVER 500 314686 6CLOVER 230 1 OPEN BRANCH FROM BUS 314906 TO BUS 314686 CKT 3 / 314906 8CLOVER 500 314686 6CLOVER 230 3 OPEN BRANCH FROM BUS 313817 TO BUS 314686 CKT 1 / 313817 6CLOVER_1 230 314686 6CLOVER 230 1 END
DVP_P4-2: 23872	CONTINGENCY 'DVP_P4-2: 23872' /* CARSON 230 KV OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2- 033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 OPEN BUS 314455 /* 6CARSO_1 230.00 KV END
DVP_P4-2: 556T591	CONTINGENCY 'DVP_P4-2: 556T591' /* RAWLINGS 500 KV OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 OPEN BRANCH FROM BUS 314935 TO BUS 314936 CKT 1 /* 8HERITAGE 500.00 - 8RAWLINGS 500.00 END
AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1' / 1492 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 68-A	CONTINGENCY 'DVP_P1-2: LN 68-A' / 353 OPEN BRANCH FROM BUS 313737 TO BUS 314527 CKT 1 / 313737 3COPELD DP 115 314527 3HOLLAND 115 1 OPEN BRANCH FROM BUS 313737 TO BUS 961850 CKT 1 / 313737 3COPELD DP 115 961850 AG1-027 TAP 115 1 OPEN BRANCH FROM BUS 314527 TO BUS 938770 CKT 1 / 314527 3HOLLAND 115 938770 AE1-103 TAP 115 1 END
DVP_P1-2: LN 298-B	CONTINGENCY 'DVP_P1-2: LN 298-B' OPEN BRANCH FROM BUS 966860 TO BUS 314692 CKT 1 /* AG1-557 TAP 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 END
DVP_P7-1: LN 22-90	CONTINGENCY 'DVP_P7-1: LN 22-90' /* . OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 314571 TO BUS 316125 CKT 1 /* 3EATON F 115.00 - AC1- 054 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 316125 CKT 1 /* 3KERR 115.00 - AC1-054 TAP 115.00 OPEN BUS 314571 /* ISLAND: 3EATON F 115.00 OPEN BUS 316125 /* ISLAND: AC1-054 TAP 115.00 OPEN BUS 316126 /* ISLAND: AC1-054 MAIN115.00 OPEN BUS 316127 /* ISLAND: AC1-054 COL222.860 OPEN BUS 316128 /* ISLAND: AC1-054 COL122.860 OPEN BUS 316129 /* ISLAND: AC1-054 C 0.3850 OPEN BUS 925785 /* ISLAND: AC1-054 E 0.3850 OPEN BRANCH FROM BUS 314265 TO BUS 314584 CKT 1 /* 3FIVEFORKSDP115.00 - 3LITTLTN 115.00 OPEN BRANCH FROM BUS 314265 TO BUS 314673 CKT 1 /* 3FIVEFORKSDP115.00 - 3PALMERSPRNG115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314584 TO BUS 314585 CKT 1 /* 3LITTLTN 115.00 - 3L GASTN 115.00 OPEN BUS 314265 /* ISLAND: 3FIVEFORKSDP115.00 OPEN BUS 314584 /* ISLAND: 3LITTLTN 115.00 OPEN BUS 314585 /* ISLAND: 3L GASTN 115.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 158-1007-A	CONTINGENCY 'DVP_P7-1: LN 158-1007-A' /* . OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 /* 3FLAT CREEK 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 /* 3FLAT CREEK 115.00 - 3MORAN 115.00 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 /* 3LONEPINE_1 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 /* 3FARMVIL 115.00 - 3MORAN 115.00 OPEN BUS 313755 /* ISLAND: 3FLAT CREEK 115.00 OPEN BUS 314519 /* ISLAND: 3LONEPINE_1 115.00 OPEN BUS 314707 /* ISLAND: 3MORAN 115.00 OPEN BRANCH FROM BUS 946300 TO BUS 314429 CKT 1 /* AF1-294 TAP 115.00 - 3JTRSVLE 115.00 OPEN BRANCH FROM BUS 314428 TO BUS 314429 CKT 1 /* 3HOOPERS 115.00 - 3JTRSVLE 115.00 OPEN BRANCH FROM BUS 314428 TO BUS 314701 CKT 1 /* 3HOOPERS 115.00 - 3LONEPN 115.00 OPEN BUS 314428 /* ISLAND: 3HOOPERS 115.00 OPEN BUS 314429 /* ISLAND: 3JTRSVLE 115.00 END
DVP_P1-2: LN 90	CONTINGENCY 'DVP_P1-2: LN 90' OPEN BRANCH FROM BUS 314265 TO BUS 314584 CKT 1 /* 3FIVEFORKSDP115.00 - 3LITTLTN 115.00 OPEN BRANCH FROM BUS 314265 TO BUS 314673 CKT 1 /* 3FIVEFORKSDP115.00 - 3PALMERSPRNG115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314584 TO BUS 314585 CKT 1 /* 3LITTLTN 115.00 - 3L GASTN 115.00 OPEN BUS 314265 /* ISLAND: 3FIVEFORKSDP115.00 OPEN BUS 314584 /* ISLAND: 3LITTLTN 115.00 OPEN BUS 314585 /* ISLAND: 3L GASTN 115.00 END

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

Contingency Name	Contingency Definition
DVP_P4-2: 210622	CONTINGENCY 'DVP_P4-2: 210622' /* BREMO 230 KV OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END
DVP_P1-2: LN 2193	CONTINGENCY 'DVP_P1-2: LN 2193' / 583 OPEN BRANCH FROM BUS 313707 TO BUS 313867 CKT 1 / 313707 6FORK UNION 230 313867 6BREMODIST 230 1 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 / 313867 6BREMODIST 230 314747 6BREMO 230 1 END

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

Contingency Name	Contingency Definition
DVP_P4-6: CHASE C T342	CONTINGENCY 'DVP_P4-6: CHASE C T342' / 244 OPEN BRANCH FROM BUS 313849 TO BUS 314267 CKT 1 / 313849 3RIDGERD 115 314267 3CHASCTY2 115 1 OPEN BRANCH FROM BUS 313898 TO BUS 314267 CKT 1 / 313898 3BUTCHER CRK 115 314267 3CHASCTY2 115 1 OPEN BRANCH FROM BUS 314267 TO BUS 314518 CKT 1 / 314267 3CHASCTY2 115 314518 3CHASC_1 115 1 OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 / 314267 3CHASCTY2 115 314669 3BARNES J 115 1 OPEN BRANCH FROM BUS 314267 TO BUS 314681 CKT Z1 / 314267 3CHASCTY2 115 314681 3CHASCTY 115 Z1 OPEN BRANCH FROM BUS 313529 TO BUS 314681 CKT 1 / 313529 3BLUE STONE 115 314681 3CHASCTY 115 1 OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 / 313806 3HERBERT 115 314681 3CHASCTY 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 314708 CKT 1 / 314681 3CHASCTY 115 314708 3NORVIEW 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 314781 CKT 1 / 314681 3CHASCTY 115 314781 3BLACKBR 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 942451 CKT 1 / 314681 3CHASCTY 115 942451 AE2-258 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 965590 CKT 1 / 314681 3CHASCTY 115 965590 AG1-427 TAP 115 1 OPEN BRANCH FROM BUS 313527 TO BUS 924022 CKT 1 / 313527 AB2-043 C 0.55 924022 AB2-043 E O1 0.55 1 OPEN BRANCH FROM BUS 313528 TO BUS 313527 CKT 1 / 313528 AB2-043 COL 34.5 313527 AB2-043 C 0.55 1 OPEN BRANCH FROM BUS 313529 TO BUS 313528 CKT 1 / 313529 3BLUE STONE 115 313528 AB2-043 COL 34.5 1 END
DVP_P4-2: 562T563	CONTINGENCY 'DVP_P4-2: 562T563' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 940640 CKT 1 /* 8CARSON 500.00 - AE2- 051 TAP 500.00 OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 235-A	CONTINGENCY 'DVP_P1-2: LN 235-A' / 450 OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 / 313802 6PRINCE EDW 230 314268 6BRIERY 230 1 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 / 313802 6PRINCE EDW 230 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 / 314268 6BRIERY 230 964840 AG1-347 TAP 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 / 314691 3FARMVIL 115 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314268 TO BUS 963271 CKT 1 / 314268 6BRIERY 230 963271 AG1-176 C O2 230 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' / 1410 OPEN BRANCH FROM BUS 314569 TO BUS 936400 CKT 1 / 314569 6EARLEYS 230 936400 AD2-051 TAP 230 1 END
AEP_P4_#10162_05EDAN 1 138_P	CONTINGENCY 'AEP_P4_#10162_05EDAN 1 138_P' / 2115 OPEN BRANCH FROM BUS 242631 TO BUS 243962 CKT 1 / 242631 05EDAN 1 138 243962 05EDANV1EQ 999 1 OPEN BRANCH FROM BUS 243960 TO BUS 243962 CKT Z1 / 243960 05E.DANVIL 69.0 243962 05EDANV1EQ 999 Z1 OPEN BRANCH FROM BUS 243961 TO BUS 243962 CKT 1 / 243961 05EDANVILL 12.0 243962 05EDANV1EQ 999 1 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 242530 TO BUS 242631 CKT 5 / 242530 05EDANV1 230 242631 05EDAN 1 138 5 OPEN BRANCH FROM BUS 242549 TO BUS 242632 CKT 1 / 242549 05BANSTR 138 242632 05EDAN 2 138 1 OPEN BRANCH FROM BUS 242620 TO BUS 242631 CKT 1 / 242620 05DANVL2 138 242631 05EDAN 1 138 1 OPEN BRANCH FROM BUS 242629 TO BUS 242632 CKT 1 / 242629 05E.MONU 138 242632 05EDAN 2 138 1 OPEN BRANCH FROM BUS 242631 TO BUS 242632 CKT Z1 / 242631 05EDAN 1 138 242632 05EDAN 2 138 Z1 OPEN BRANCH FROM BUS 242631 TO BUS 246972 CKT 1 / 242631 05EDAN 1 138 246972 05ROCKSP 138 1 OPEN BRANCH FROM BUS 243953 TO BUS 243960 CKT 1 / 243953 05DANRR 69.0 243960 05E.DANVIL 69.0 1 OPEN BRANCH FROM BUS 243950 TO BUS 243960 CKT 1 / 243950 05EAGLESPR 69.0 243960 05E.DANVIL 69.0 1 REMOVE SWSHUNT FROM BUS 242631 /* 242631 05EDAN 1 138 REMOVE SWSHUNT FROM BUS 243960 /* 243960 05E.DANVIL 69.0 END
DVP_P4-2: 24972-4	CONTINGENCY 'DVP_P4-2: 24972-4' / 1024 OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 / 314282 6CARSON 230 314285 6CHRL249 230 1 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 / 314285 6CHRL249 230 314316 6LOCKS 230 1 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 / 314314 3LOCKS 115 314316 6LOCKS 230 2 OPEN BRANCH FROM BUS 314902 TO BUS 314282 CKT 1 / 314902 8CARSON 500 314282 6CARSON 230 1 OPEN BRANCH FROM BUS 314282 TO BUS 314455 CKT 1 / 314282 6CARSON 230 314455 6CARSO_1 230 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 158	CONTINGENCY 'DVP_P1-2: LN 158' / 367 OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 / 313755 3FLAT CREEK 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 / 313755 3FLAT CREEK 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 / 314519 3LONEPINE_1 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 END
DVP_P1-2: LN 296-A	CONTINGENCY 'DVP_P1-2: LN 296-A' OPEN BRANCH FROM BUS 304070 TO BUS 927250 CKT 1 /* 6PERSON230 T230.00 - AC1-221 TAP 230.00 END
DVP_P1-2: LN 298-A	CONTINGENCY 'DVP_P1-2: LN 298-A' OPEN BRANCH FROM BUS 314677 TO BUS 966860 CKT 1 /* 6BUCKING 230.00 - AG1- 557 TAP 230.00 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BUS 314677 /* ISLAND: 6BUCKING 230.00 OPEN BUS 924032 /* ISLAND: AB2-045 E 230.00 OPEN BUS 932511 /* ISLAND: AC2-071 C 230.00 OPEN BUS 932512 /* ISLAND: AC2-071 E 230.00 END
DVP_P4-2: 13002	CONTINGENCY 'DVP_P4-2: 13002' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314595 TO BUS 314600 CKT 1 /* 3PL HILL 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314600 TO BUS 314615 CKT 1 /* 3PLHITP 115.00 - 3SKIPPERS 115.00 OPEN BUS 314595 /* ISLAND: 3PL HILL 115.00 OPEN BUS 314600 /* ISLAND: 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 END

Contingency Name	Contingency Definition
DVP_P4-2: 3612	CONTINGENCY 'DVP_P4-2: 3612' / 348 OPEN BRANCH FROM BUS 314681 TO BUS 314781 CKT 1 / 314681 3CHASCTY 115 314781 3BLACKBR 115 1 OPEN BRANCH FROM BUS 314682 TO BUS 314869 CKT 1 / 314682 3BUGGS I 115 314869 3BURLING 115 1 OPEN BRANCH FROM BUS 314683 TO BUS 314788 CKT 1 / 314683 3CLRKVILLE 115 314788 3JONESTO 115 1 OPEN BRANCH FROM BUS 314683 TO BUS 314869 CKT 1 / 314683 3CLRKVILLE 115 314869 3BURLING 115 1 OPEN BRANCH FROM BUS 314781 TO BUS 314788 CKT 1 / 314781 3BLACKBR 115 314788 3JONESTO 115 1 OPEN BRANCH FROM BUS 314781 TO BUS 924301 CKT 1 / 314781 3BLACKBR 115 924301 AB2-077 C O1 115 1 OPEN BRANCH FROM BUS 314781 TO BUS 924311 CKT 1 / 314781 3BLACKBR 115 924311 AB2-078 C O1 115 1 OPEN BRANCH FROM BUS 314781 TO BUS 924321 CKT 1 / 314781 3BLACKBR 115 924321 AB2-079 C O1 115 1 OPEN BRANCH FROM BUS 924301 TO BUS 924302 CKT 1 / 924301 AB2-077 C O1 115 924302 AB2-077 E O1 115 1 OPEN BRANCH FROM BUS 924311 TO BUS 924312 CKT 1 / 924311 AB2-078 C O1 115 924312 AB2-078 E O1 115 1 OPEN BRANCH FROM BUS 924321 TO BUS 924322 CKT 1 / 924321 AB2-079 C O1 115 924322 AB2-079 E O1 115 1 OPEN BRANCH FROM BUS 314722 TO BUS 959310 CKT 1 / 314722 3TWITTYS 115 959310 AF2-222 TAP 115 1 OPEN BRANCH FROM BUS 314681 TO BUS 314708 CKT 1 / 314681 3CHASCTY 115 314708 3NORVIEW 115 1 OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 / 313806 3HERBERT 115 314681 3CHASCTY 115 1 END

14 Affected Systems

14.1 TVA

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

14.2 Duke Energy Progress

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

15 Attachment 1: One Line Diagram