



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-428
DANIELTOWN 69 KV
28.08 MW Capacity / 46.8 MW Energy**

January 2021

Table of Contents

1	Introduction.....	6
2	Preface.....	6
3	General	7
4	Point of Interconnection.....	8
4.1	Primary Point of Interconnection	8
4.2	Secondary Point of Interconnection.....	8
5	Cost Summary	8
6	Transmission Owner Scope of Work	10
7	Schedule.....	11
8	Transmission Owner Analysis.....	11
8.1	Power Flow Analysis	11
9	Interconnection Customer Requirements.....	12
9.1	System Protection.....	12
9.2	Compliance Issues and Interconnection Customer Requirements	12
9.3	Power Factor Requirements.....	12
10	Revenue Metering and SCADA Requirements	13
10.1	PJM Requirements	13
10.2	Meteorological Data Reporting Requirements	13
10.3	Interconnected Transmission Owner Requirements.....	13
11	Summer Peak - Load Flow Analysis - Primary POI	14
11.1	Generation Deliverability	15
11.2	Multiple Facility Contingency	15
11.3	Contribution to Previously Identified Overloads.....	15
11.4	Potential Congestion due to Local Energy Deliverability	17
11.5	System Reinforcements - Summer Peak Load Flow - Primary POI.....	20
11.6	Flow Gate Details - Primary POI	25
11.6.1	Index 1	26
11.6.2	Index 2	29
11.6.3	Index 3	32
11.6.4	Index 4	35
11.6.5	Index 5	38

11.6.6	Index 6	41
11.6.7	Index 7	43
11.6.8	Index 8	45
11.6.9	Index 9	47
11.6.10	Index 10.....	50
11.6.11	Index 11.....	54
11.6.12	Index 12.....	57
11.6.13	Index 13.....	60
11.6.14	Index 14.....	65
11.6.15	Index 15.....	68
11.6.16	Index 16.....	71
11.6.17	Index 17.....	74
11.6.18	Index 18.....	77
11.6.19	Index 19.....	80
11.6.20	Index 20.....	83
11.6.21	Index 21.....	86
11.6.22	Index 22.....	88
11.6.23	Index 23.....	90
11.6.24	Index 24.....	93
11.6.25	Index 25.....	96
11.6.26	Index 26.....	99
11.6.27	Index 27.....	101
11.6.28	Index 28.....	104
11.6.29	Index 29.....	106
11.6.30	Index 30.....	109
11.6.31	Index 31.....	112
11.6.32	Index 32.....	115
11.7	Queue Dependencies	120
11.8	Contingency Descriptions - Primary POI.....	124
12	Short Circuit Analysis - Primary POI.....	133
12.1	System Reinforcements - Short Circuit.....	133
13	Summer Peak - Load Flow Analysis - Secondary POI	134
13.1	Generation Deliverability	135

13.2	Multiple Facility Contingency	135
13.3	Contribution to Previously Identified Overloads.....	135
13.4	Potential Congestion due to Local Energy Deliverability	138
13.5	Flow Gate Details - Secondary POI.....	142
13.5.1	Index 1	143
13.5.2	Index 2	146
13.5.3	Index 3	148
13.5.4	Index 4	150
13.5.5	Index 5	152
13.5.6	Index 6	156
13.5.7	Index 7	159
13.5.8	Index 8	164
13.5.9	Index 9	169
13.5.10	Index 10.....	174
13.5.11	Index 11.....	177
13.5.12	Index 12.....	181
13.5.13	Index 13.....	185
13.5.14	Index 14.....	188
13.5.15	Index 15.....	193
13.5.16	Index 16.....	195
13.5.17	Index 17.....	199
13.5.18	Index 18.....	202
13.5.19	Index 19.....	205
13.5.20	Index 20.....	208
13.5.21	Index 21.....	211
13.5.22	Index 22.....	214
13.5.23	Index 23.....	217
13.5.24	Index 24.....	220
13.5.25	Index 25.....	222
13.5.26	Index 26.....	224
13.5.27	Index 27.....	227
13.5.28	Index 28.....	229
13.5.29	Index 29.....	232

13.5.30	Index 30.....	235
13.5.31	Index 31.....	237
13.5.32	Index 32.....	240
13.5.33	Index 33.....	243
13.5.34	Index 34.....	245
13.5.35	Index 35.....	248
13.5.36	Index 36.....	251
13.5.37	Index 37.....	254
13.5.38	Index 38.....	257
13.5.39	Index 39.....	260
13.5.40	Index 40.....	262
13.5.41	Index 41.....	267
13.6	Contingency Descriptions - Secondary POI.....	270
14	Affected Systems	279
14.1	TVA.....	279
14.2	Duke Energy Progress.....	279
15	Attachment 1: One Line Diagram	280

1 Introduction

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

The AG1-428 customer will be an interconnection to Southside Electric Cooperative (SEC) facilities. The Interconnection Customer (IC) will need to coordinate with SEC for scope, cost and schedule for this physical interconnection. This PJM report identifies the effects on the transmission system. AG1-428 will interconnect within the Southside Electric Cooperative (REC) system which interconnects with the Dominion transmission system at Danielstown 69 kV.

2 Preface

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

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

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

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 Brunswick County, Virginia. The installed facilities will have a total capability of 46.8 MW with 28.08 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is December 31, 2024. This study does not imply a TO commitment to this in-service date.

Final attachment facilities and local upgrades (if required) along with terms and conditions to interconnect AG1-428 will be specified in a separate two party Interconnection Agreement (IA) between SEC and the Interconnection Customer as this project is considered FERC non-jurisdictional per the PJM Open Access Transmission Tariff (OATT).

From the transmission perspective, the impacts are were analyzed and detailed in the “Network Impacts” section below.

Queue Number	AG1-428
Project Name	DANIELTOWN 69 KV
State	Virginia
County	Brunswick
Transmission Owner	Dominion – SEC connection
MFO	46.8
MWE	46.8
MWC	28.08
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

AG1-428 "Danielstown 69 kV" will interconnect within the Southside Electric Cooperative (SEC) system which interconnects with the Dominion transmission system at Danielstown 69 kV.

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 AG1-428 is a new tap on the Danielstown-Brunswick 69 kV line. Secondary POI interconnection facilities owned by Dominion.

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 costs associated with interconnecting AG1-428 to the Southside Electric Cooperative (SEC) system will be documented in the two-party Interconnection Agreement between the IC and Southside Electric Cooperative (SEC).

The AG1-428 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	Costs from SEC to be provided in the Interconnection Agreement
Total System Network Upgrade Costs	\$278,043,000 ¹
Total Costs	\$278,043,000 + Costs from SEC to be determined

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

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

a future date it is determined that the Federal Income Tax Gross charge is required, the Transmission Owner shall be reimbursed by the Interconnection Customer for such taxes.

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

6 Transmission Owner Scope of Work

AG1-428 "Danieltown 69 kV" will interconnect within the Southside Electric Cooperative (SEC) system which interconnects with the Dominion transmission system at Danieltown 69 kV.

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

Description	Total Cost
SEC Interconnection Work	Interconnection Customer to contact SEC
Total Physical Interconnection Costs	Costs from SEC to be determined

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 will be identified by SEC and included in the Interconnection Agreement between Dominion and SEC.

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

If the customer is ultimately responsible for network upgrades, then the schedule for those upgrades will be refined in future study phases. The customer would need to wait for those upgrades to be completed prior to commercial operation unless determined deliverable by an interim deliverability study. The elapsed time to complete any network upgrades is provided in the System Reinforcements table of this report¹.

8 Transmission Owner Analysis

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

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

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

8.1 Power Flow Analysis

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

9 Interconnection Customer Requirements

9.1 System Protection

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

9.2 Compliance Issues and Interconnection Customer Requirements

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

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

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

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

9.3 Power Factor Requirements

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

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

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

10.2 Meteorological Data Reporting Requirements

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

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

10.3 Interconnected Transmission Owner Requirements

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

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

11 Summer Peak - Load Flow Analysis - Primary POI

The Queue Project AG1-428 was evaluated as a 46.8 MW (Capacity 28.1 MW) injection at the Danielstown 69 kV substation in the Dominion area. Project AG1-428 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-428 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)

None.

11.2 Multiple Facility Contingency

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
166980576	314676	3BRUNWICK	115.0	DVP	314704	3LAWRENC	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	400.0	98.78	105.81	DC	28.11
166980577	314676	3BRUNWICK	115.0	DVP	314704	3LAWRENC	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	400.0	96.99	103.92	DC	27.74
166980578	314693	3FRMAND	115.0	DVP	314565	3CLUBHSE71	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	400.0	98.14	105.17	DC	28.11
166980579	314693	3FRMAND	115.0	DVP	314565	3CLUBHSE71	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	400.0	96.34	103.28	DC	27.74
166980574	314704	3LAWRENC	115.0	DVP	314693	3FRMAND	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	400.0	99.02	106.04	DC	28.11
166980575	314704	3LAWRENC	115.0	DVP	314693	3FRMAND	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	400.0	97.22	104.15	DC	27.74
166980506	314788	3JONESTO	115.0	DVP	314683	3CLRKVILLE	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	301.0	98.9	100.49	DC	4.78

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
166980489	313705	3KERRDP	115.0	DVP	314702	3KERR	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	195.0	113.54	114.09	DC	2.36
168519012	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	375.059997559	109.01	111.58	DC	9.66
168519013	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P1-2: LN 238-A	single	375.059997559	109.01	111.58	DC	9.66
168518814	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	Base Case	single	203.979995728	126.22	127.23	DC	2.04
168519026	313825	3PLYWOD	115.0	DVP	314696	3SEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 33	single	141.0	115.13	116.88	DC	2.47
168519028	313825	3PLYWOD	115.0	DVP	314696	3SEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 45	single	141.0	103.27	104.69	DC	2.0

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC/D C	MW IMPA CT
166980553	314267	3CHASCT Y2	115.0	DVP	314669	3BARN S J	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	104.74	105.45	DC	6.36
163339555	314435	6SAPONY	230.0	DVP	314282	6CARSO N	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	156.05	158.0	DC	16.13
163339556	314435	6SAPONY	230.0	DVP	314282	6CARSO N	230.0	DVP	1	DVP_P7-1: LN 54-2012-A	tower	830.0	155.96	157.91	DC	16.13
168823878	314435	6SAPONY	230.0	DVP	314282	6CARSO N	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	144.17	145.56	DC	9.43
168823879	314435	6SAPONY	230.0	DVP	314282	6CARSO N	230.0	DVP	1	314266 6NORTHAMPT ON 230 936400 AD2-051 TAP 230 1	single	678.679992676	141.15	142.54	DC	9.43
168823880	314435	6SAPONY	230.0	DVP	314282	6CARSO N	230.0	DVP	1	Base Case	single	678.679992676	125.99	127.26	DC	8.59
169033922	314559	3CAROLN A	115.0	DVP	314561	6CAROL NA	230.0	DVP	1	DVP_P1-2: LN 68-A	single	239.888000488	135.35	136.38	DC	2.47
169033923	314559	3CAROLN A	115.0	DVP	314561	6CAROL NA	230.0	DVP	1	DVP_P1-2: LN 140	single	239.888000488	129.79	130.82	DC	2.47
169033867	314562	3CLUBHS E	115.0	DVP	314563	6CLUBHS E	230.0	DVP	1	DVP_P1-2: LN 2201	single	182.641998291	221.16	227.08	DC	10.82
169033868	314562	3CLUBHS E	115.0	DVP	314563	6CLUBHS E	230.0	DVP	1	DVP_P1-2: LN 130	single	182.641998291	173.5	181.94	DC	15.42
169033869	314562	3CLUBHS E	115.0	DVP	314563	6CLUBHS E	230.0	DVP	1	Base Case	single	176.81401062	160.17	166.82	DC	11.77
163339301	314563	6CLUBHS E	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	142.2	143.97	DC	14.6
163339560	314563	6CLUBHS E	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	148.54	150.35	DC	14.96
163339561	314563	6CLUBHS E	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	830.0	136.54	138.3	DC	14.56
169033966	314563	6CLUBHS E	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2056-A	single	678.679992676	130.39	131.53	DC	9.46
169033967	314563	6CLUBHS E	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	126.24	127.58	DC	9.44
169033968	314563	6CLUBHS E	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	single	678.679992676	113.55	114.73	DC	8.59
169033982	314579	6HORNR TN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	441.799987793	126.23	127.44	DC	5.35
169033983	314579	6HORNR TN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	single	441.799987793	126.2	127.41	DC	5.35
166980517	314665	3CLRK TAP	115.0	DVP	314699	3ISLND C	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	107.31	107.82	DC	2.36
166980559	314669	3BARN S J	115.0	DVP	314684	3MT LREL	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	103.88	104.58	DC	6.36
166980521	314681	3CHASCT Y	115.0	DVP	314781	3BLACKB R	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	112.01	113.6	DC	4.78
166980511	314682	3BUGGS I	115.0	DVP	314665	3CLRK TAP	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	108.66	109.17	DC	2.36
166980519	314683	3CLRKVIL LE	115.0	DVP	314869	3BURLIN G	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	112.38	113.97	DC	4.78
166980536	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	107.97	108.67	DC	6.36
169243864	314691	3FARMVI L	115.0	DVP	314692	6FARMVI L	230.0	DVP	2	DVP_P1-2: LN 235-A	single	182.641998291	273.44	275.21	DC	3.23
169243867	314691	3FARMVI L	115.0	DVP	314692	6FARMVI L	230.0	DVP	2	Base Case	single	176.81401062	163.92	165.05	DC	2.0
169243875	314691	3FARMVI L	115.0	DVP	314692	6FARMVI L	230.0	DVP	1	DVP_P1-2: LN 298	single	198.057998657	181.69	183.0	DC	2.58
169243934	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	single	226.727996826	161.51	162.9	DC	3.15
169243936	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 31-A	single	226.727996826	122.51	123.54	DC	2.35

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/D C	MW IMPACT
169243950	314696	3SEDGE HILL	115.0	DVP	314697	6SEDGE HILL	230.0	DVP	2	DVP_P1-3: 6SEDGE HILL-TX#1	single	256.055999756	142.58	143.8	DC	3.14
166980501	314699	3ISLND C	115.0	DVP	313705	3KERRDP	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	202.0	110.5	111.03	DC	2.36
168518809	314701	3LONEPN	115.0	DVP	313755	3FLAT CREEK	115.0	DVP	1	Base Case	single	203.979995728	126.22	127.23	DC	2.04
163826727	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-6: CAROLIN T122	breaker	199.0	196.74	197.8	DC	4.78
163826728	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 13002	breaker	199.0	161.45	162.41	DC	4.26
163826729	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P4-2: 102802	breaker	199.0	161.45	162.41	DC	4.26
163826940	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P1-2: LN 90	single	199.0	124.2	125.45	DC	2.49
163826941	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	Base Case	single	191.0	117.39	118.65	DC	2.4
163827602	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P7-1: LN 22-90	tower	199.0	193.16	194.14	DC	4.41
169243903	314707	3MORAN	115.0	DVP	314691	3FARMVIL	115.0	DVP	1	Base Case	single	203.979995728	122.79	123.79	DC	2.04
166980499	314781	3BLACKB R	115.0	DVP	314788	3JONEST O	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	116.37	117.96	DC	4.78
166980500	314781	3BLACKB R	115.0	DVP	314788	3JONEST O	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	301.0	100.27	101.85	DC	4.78
166980505	314788	3JONEST O	115.0	DVP	314683	3CLRKVIL LE	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	115.01	116.6	DC	4.78
166980523	314869	3BURLIN G	115.0	DVP	314682	3BUGGS I	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	111.29	112.87	DC	4.78
166980458	316115	AC1-105 TAP	115.0	DVP	314696	3SEDGE HILL	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	137.12	137.83	DC	6.36
163339540	940480	AE2-033 TAP	230.0	DVP	314435	6SAPON Y	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	156.9	158.7	DC	14.96
163339541	940480	AE2-033 TAP	230.0	DVP	314435	6SAPON Y	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	154.36	156.31	DC	16.13
169746480	940480	AE2-033 TAP	230.0	DVP	314435	6SAPON Y	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	141.7	143.01	DC	9.44
169746481	940480	AE2-033 TAP	230.0	DVP	314435	6SAPON Y	230.0	DVP	1	314266 6NORTHAMPT ON 230 936400 AD2-051 TAP 230 1	single	678.679992676	138.68	139.99	DC	9.44
169746482	940480	AE2-033 TAP	230.0	DVP	314435	6SAPON Y	230.0	DVP	1	Base Case	single	678.679992676	125.18	126.45	DC	8.59

11.4 Potential Congestion due to Local Energy Deliverability

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

Note: Only the most severely overloaded conditions are listed below. There is no guarantee of full delivery of energy for this project by fixing only the conditions listed in this section. With a Transmission Interconnection

Request, a subsequent analysis will be performed which shall study all overload conditions associated with the overloaded element(s) identified.

ID	FROM BUS #	FROM BUS	kV	FROM BUS AREA	TO BUS #	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168519 010	3137 25	6DRY BREAD	230 .0	DVP	3145 83	6LAKEVEW	230 .0	DV P	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operat ion	375.05999 7559	144.2 4	148.5 4	DC	16.09
168519 011	3137 25	6DRY BREAD	230 .0	DVP	3145 83	6LAKEVEW	230 .0	DV P	1	DVP_P1-2: LN 238-A	operat ion	375.05999 7559	144.2 4	148.5 4	DC	16.09
168519 025	3138 25	3PLYWOOD	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DV P	1	DVP_P1-2: LN 33	operat ion	141.0	125.3 9	126.7 1	DC	4.12
168519 264	3138 98	3BUTCHER CRK	115 .0	DVP	9362 60	AD2-033 TAP	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	269.77999 8779	103.3 6	104.0 8	DC	4.27
168824 047	3142 66	6NORTHAM PTON	230 .0	DVP	9364 00	AD2-051 TAP	230 .0	DV P	1	DVP_P1-2: LN 238-A	operat ion	571.52001 9531	136.8	138.3 8	DC	9.04
168824 190	3142 67	3CHASCTY2	115 .0	DVP	3146 69	3BARN S J	115 .0	DV P	1	Base Case	operat ion	331.82000 7324	101.1 4	102.8 1	DC	5.56
168823 875	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DV P	1	DVP_P1-2: LN 2012-B	operat ion	678.67999 2676	188.4 2	190.7 5	DC	15.71
168823 877	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DV P	1	Base Case	operat ion	678.67999 2676	169.8 1	171.9 3	DC	14.31
168519 251	3145 58	3BOYKINS	115 .0	DVP	3137 20	3NEWSOMS	115 .0	DV P	1	DVP_P1-2: LN 238-B	operat ion	280.11999 5117	106.7	107.2	DC	3.11
169033 919	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DV P	1	DVP_P1-2: LN 68-A	operat ion	239.88800 0488	180.9 7	181.7 4	DC	4.11
169033 921	3145 59	3CAROLNA	115 .0	DVP	3145 61	6CAROLNA	230 .0	DV P	1	Base Case	operat ion	226.53999 3286	134.6 6	135.3 8	DC	3.62
169034 024	3145 61	6CAROLNA	230 .0	DVP	3145 99	6ROA VAL	230 .0	DV P	1	DVP_P1-2: LN 238-A	operat ion	548.02001 9531	141.3 1	142.9 6	DC	9.04
169033 865	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DV P	1	DVP_P1-2: LN 2201	operat ion	182.64199 8291	270.3 8	280.2 6	DC	18.03
169033 866	3145 62	3CLUBHSE	115 .0	DVP	3145 63	6CLUBHSE	230 .0	DV P	1	Base Case	operat ion	176.81401 062	211.7 3	222.8 2	DC	19.6
168519 088	3145 63	6CLUBHSE	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DV P	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operat ion	375.05999 7559	127.9 4	132.2 4	DC	16.11
169033 963	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DV P	1	DVP_P1-2: LN 2056-A	operat ion	678.67999 2676	171.5 9	173.9 2	DC	15.76
169033 965	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DV P	1	Base Case	operat ion	678.67999 2676	163.6	165.7 1	DC	14.31
169033 980	3145 79	6HORNRTN	230 .0	DVP	9343 30	AD1-057 TAP	230 .0	DV P	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operat ion	441.79998 7793	166.9 7	168.9 9	DC	8.91
169034 059	3145 83	6LAKEVEW	230 .0	DVP	3145 79	6HORNRTN	230 .0	DV P	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operat ion	441.79998 7793	122.9 8	125.0 1	DC	8.95
168824 011	3145 99	6ROA VAL	230 .0	DVP	3142 66	6NORTHAM PTON	230 .0	DV P	1	DVP_P1-2: LN 238-A	operat ion	548.02001 9531	141.2 6	142.9 1	DC	9.04
169244 168	3146 69	3BARN S J	115 .0	DVP	3146 84	3MT LREL	115 .0	DV P	1	Base Case	operat ion	331.82000 7324	100.0 9	101.7 6	DC	5.56
169244 179	3146 76	3BRUNWICK	115 .0	DVP	3147 04	3LAWRENC	115 .0	DV P	1	DVP_P1-2: LN 33	operat ion	326.17999 2676	115.6 3	124.2 6	DC	28.16
169244 181	3146 76	3BRUNWICK	115 .0	DVP	3147 04	3LAWRENC	115 .0	DV P	1	Base Case	operat ion	326.17999 2676	94.04	102.3 9	DC	27.25
169243 904	3146 77	6BUCKING	230 .0	DVP	3147 47	6BREMO	230 .0	DV P	1	DVP_P1-2: LN 556-C	operat ion	571.52001 9531	297.8 6	298.3 3	DC	6.03
168824 051	3146 81	3CHASCTY	115 .0	DVP	3142 67	3CHASCTY2	115 .0	DV P	Z1	DVP_P1-2: LN 84	operat ion	449.32000 7324	147.0 7	150.0 6	DC	13.45
168824 053	3146 81	3CHASCTY	115 .0	DVP	3142 67	3CHASCTY2	115 .0	DV P	Z1	Base Case	operat ion	411.72000 1221	105.3 7	108.2 2	DC	11.74
169244 135	3146 84	3MT LREL	115 .0	DVP	3161 15	AC1-105 TAP	115 .0	DV P	1	Base Case	operat ion	331.82000 7324	104.9 9	106.6 6	DC	5.56
169244 251	3146 87	3CREWE	115 .0	DVP	3147 01	3LONEPN	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	370.35998 5352	103.2 3	103.7 5	DC	4.27

ID	FROM BUS #	FROM BUS	kV	FROM BUS AREA	TO BUS #	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
169243 862	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DV P	2	DVP_P1-2: LN 235-A	operat ion	182.64199 8291	407.6 5	408.9 7	DC	5.37
169243 865	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DV P	2	Base Case	operat ion	176.81401 062	254.1 9	255.0 4	DC	3.33
169243 873	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DV P	1	DVP_P1-2: LN 298	operat ion	198.05799 8657	298.9	299.8 7	DC	4.3
169243 876	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DV P	1	Base Case	operat ion	193.73400 8789	186.8 3	187.4 5	DC	2.68
169243 883	3146 92	6FARMVIL	230 .0	DVP	3146 77	6BUCKING	230 .0	DV P	1	DVP_P1-2: LN 556-C	operat ion	559.29998 7793	302.2 7	302.7 6	DC	6.03
169244 185	3146 93	3FRMAN D	115 .0	DVP	3145 65	3CLUBHSE7 1	115 .0	DV P	1	DVP_P1-2: LN 33	operat ion	326.17999 2676	114.8 4	123.4 7	DC	28.16
169244 187	3146 93	3FRMAN D	115 .0	DVP	3145 65	3CLUBHSE7 1	115 .0	DV P	1	Base Case	operat ion	326.17999 2676	91.85	100.2	DC	27.25
169243 932	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DV P	1	DVP_P1-3: 6SEEDGE HILL-TX#2	operat ion	226.72799 6826	244.3 7	245.4 1	DC	5.24
169243 935	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DV P	1	Base Case	operat ion	223.53199 7681	141.0 5	141.6 7	DC	3.11
169243 948	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DV P	2	DVP_P1-3: 6SEEDGE HILL-TX#1	operat ion	256.05599 9756	215.7 3	216.6 5	DC	5.22
169243 951	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DV P	2	Base Case	operat ion	253.23599 2432	123.2 6	123.8 1	DC	3.07
163826 935	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P1-2: LN 90	operat ion	199.0	158.1 7	159.1	DC	4.15
163826 936	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	Base Case	operat ion	191.0	150.2 4	151.1 7	DC	3.99
169244 170	3147 04	3LAWRENC	115 .0	DVP	3146 93	3FRMAN D	115 .0	DV P	1	DVP_P1-2: LN 33	operat ion	326.17999 2676	115.9 1	124.5 5	DC	28.16
169244 172	3147 04	3LAWRENC	115 .0	DVP	3146 93	3FRMAN D	115 .0	DV P	1	Base Case	operat ion	326.17999 2676	92.92	101.2 8	DC	27.25
169244 207	3147 06	3MARTIN TAP	115 .0	DVP	3146 87	3CREWE	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	326.17999 2676	116.0 2	116.6 1	DC	4.27
169244 210	3147 23	3VICTRIA	115 .0	DVP	3147 25	3VICT DP	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	269.77999 8779	114.8 6	115.5 7	DC	4.27
169244 217	3147 25	3VICT DP	115 .0	DVP	9618 90	AG1-030 TAP	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	269.77999 8779	113.6	114.3 1	DC	4.27
169459 860	3147 81	3BLACKBR	115 .0	DVP	3147 88	3JONESTO	115 .0	DV P	1	DVP_P1-4: 3CHASCTY2_3CHASCTY_Z1	operat ion	246.27999 8779	100.1 6	102.7 4	DC	6.34
169459 735	3147 85	2DANLTWN	69. 0	DVP	3148 72	2BRUNSWIC KDP	69. 0	DV P	1	Base Case	operat ion	30.079999 9237	-26.6	128.9 9	DC	46.8
169459 868	3147 88	3JONESTO	115 .0	DVP	3146 83	3CLRKVILLE	115 .0	DV P	1	DVP_P1-4: 3CHASCTY2_3CHASCTY_Z1	operat ion	246.27999 8779	98.5	101.0 7	DC	6.34
169459 828	3148 69	3BURLING	115 .0	DVP	3146 82	3BUGGS I	115 .0	DV P	1	DVP_P1-4: 3CHASCTY2_3CHASCTY_Z1	operat ion	224.66000 3662	103.0 4	105.8 6	DC	6.34
169459 796	3148 72	2BRUNSWIC KDP	69. 0	DVP	3147 87	2BRUNWICK 2	69. 0	DV P	1	Base Case	operat ion	30.079999 9237	-41.22	114.3 6	DC	46.8
169459 596	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DV P	1	Base Case	operat ion	331.82000 7324	139.4 1	141.0 9	DC	5.56
168518 951	9343 30	AD1-057 TAP	230 .0	DVP	3138 45	6HATHAWA Y	230 .0	DV P	1	DVP_P1-2: LN 238-B	operat ion	441.79998 7793	157.9 5	159.1 1	DC	5.1
168518 955	9343 30	AD1-057 TAP	230 .0	DVP	3138 45	6HATHAWA Y	230 .0	DV P	1	Base Case	operat ion	441.79998 7793	104.3 8	104.8 4	DC	4.46
168824 208	9362 60	AD2-033 TAP	115 .0	DVP	3144 27	3LUNENBUR G	115 .0	DV P	1	DVP_P1-2: LN 84	operat ion	269.77999 8779	120.9 4	121.6 5	DC	4.27
169034 016	9364 00	AD2-051 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DV P	1	DVP_P1-2: LN 238-A	operat ion	571.52001 9531	145.3 7	146.9 5	DC	9.04
169746 477	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DV P	1	DVP_P1-2: LN 2012-B	operat ion	678.67999 2676	188.8 6	191.1 9	DC	15.71
169746 479	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DV P	1	Base Case	operat ion	678.67999 2676	172.6 1	174.7 3	DC	14.31
169244 128	9618 90	AG1-030 TAP	115 .0	DVP	3147 06	3MARTIN TAP	115 .0	DV P	1	DVP_P1-2: LN 154-A	operat ion	269.77999 8779	130.1	130.8 1	DC	4.27

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
169243875	22	3FARMVIL 115.0 kV - 6FARMVIL 230.0 kV Ckt 1	<u>DVP</u> dom-089 (1579) : Add additional 230/115 kV transformer at Farmville substation Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169243867,169 243864	21	3FARMVIL 115.0 kV - 6FARMVIL 230.0 kV Ckt 2	<u>DVP</u> dom-089 (1579) : Add additional 230/115 kV transformer at Farmville substation Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169033922,169 033923	11	3CAROLNA 115.0 kV - 6CAROLNA 230.0 kV Ckt 1	<u>DVP</u> n6113 (1687) : Add additional 230/115 kV transformer at Carolina substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
166980517	15	3CLRK TAP 115.0 kV - 3ISLND C 115.0 kV Ckt 1	<u>DVP</u> dom-333 (1864) : Reconductor 5.28 miles of 115 kV Line 193 from Clarksville to Island Creek D.P with 636 ACSR 150 C Project Type : FAC Cost : \$3,168,000 Time Estimate : 30-36 Months	\$3,168,000
168519012,168 519013	6	6DRY BREAD 230.0 kV - 6LAKEVEW 230.0 kV Ckt 1	<u>DVP</u> b3121 (1473) : PJM Baseline Upgrade b3121. Rebuild Clubhouse-Lakeview 230 kV Line #254 with single-circuit wood pole equivalent structures at the current 230 kV standard with a minimum rating of 1047 MVA. The baseline project has a projected in-service date of 12/31/2024. Project Type : FAC Cost : \$0	\$0
169033867,169 033869,169033 868	12	3CLUBHSE 115.0 kV - 6CLUBHSE 230.0 kV Ckt 1	<u>DVP</u> n6114 (1688) : Add additional 230/115 kV transformer at Clubhouse substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
166980489	5	3KERRDP 115.0 kV - 3KERR 115.0 kV Ckt 1	<u>DVP</u> dom-263 (1794) : Reconductor 9.4 miles of 115 kV line 193 from Kerr DP to Kerr Dam with 636 ACSR 150 C Project Type : FAC Cost : \$5,640,000 Time Estimate : 30-36 Months	\$5,640,000

ID	Idx	Facility	Upgrade Description	Cost
166980500,166980499	29	3BLACKBR 115.0 kV - 3JONESTO 115.0 kV Ckt 1	<u>DVP</u> dom-370 (1901) : Reconductor 7.45 miles of 115 kV Line 36 from Black Branch to Jones Store with 768.2 ACSS 250 C. Project Type : FAC Cost : \$4,470,000 Time Estimate : 30-36 Months	\$4,470,000
166980511	18	3BUGGS I 115.0 kV - 3CLRK TAP 115.0 kV Ckt 1	<u>DVP</u> dom-332 (1863) : Reconductor 0.39 miles of 115 kV Line 193 from Clarksville to Buggs Island P.S. with 636 ACSR 150 C Project Type : FAC Cost : \$234,000 Time Estimate : 30-36 Months	\$234,000
166980559	16	3BARNES J 115.0 kV - 3MT LREL 115.0 kV Ckt 1	<u>DVP</u> dom-334 (1865) : Reconductor 7.69 miles of 115 kV Line 33 from Barnes Junction D.P. to Mt. Laurel with 768.2 ACSS 250 C Project Type : FAC Cost : \$4,614,000 Time Estimate : 30-36 Months	\$4,614,000
163826727,163826728,163826729,163826940,163826941,163827602	27	3KERR 115.0 kV - 3GW KING TAP 115.0 kV Ckt 1	<u>DVP</u> n6115 (1476) : For DEV portion, rebuild 4.7 miles of 115 kV Line 45 from Kerr Dam to GW King Tap with 768 ACSS. Project Type : FAC Cost : \$6,123,000 Time Estimate : 30-36 Months	\$6,123,000
166980579,166980578	2	3FRMAN D 115.0 kV - 3CLUBHSE71 115.0 kV Ckt 1	<u>DVP</u> dom-347 (1878) : Reconductor 7.21 miles of 115 kV Line 71 from Clubhouse to Freeman D.P. with 768.2 ACSS 250. Replace wave trap at Clubhouse terminal. Project Type : FAC Cost : \$4,476,000 Time Estimate : 30-36 Months	\$4,476,000
166980575,166980574	3	3LAWRENC 115.0 kV - 3FRMAN D 115.0 kV Ckt 1	<u>DVP</u> dom-353 (1884) : Reconductor 8.35 miles of 115 kV Line 71 from Lawrence to Freeman D.P. with 768.2 ACSS 250. Project Type : FAC Cost : \$5,010,000 Time Estimate : 30-36 Months	\$5,010,000
166980501	25	3ISLND C 115.0 kV - 3KERRDP 115.0 kV Ckt 1	<u>DVP</u> dom-349 (1880) : Reconductor 2.19 miles of 115 kV Line 193 from Island Creek D.P. to Kerr D.P. with 636 ACSR 150 C Project Type : FAC Cost : \$1,314,000 Time Estimate : 30-36 Months	\$1,314,000

ID	Idx	Facility	Upgrade Description	Cost
163339541,163 339540,169746 482,169746480, 169746481	32	AE2-033 TAP 230.0 kV - 6SAPONY 230.0 kV Ckt 1	<u>DVP</u> n6452 (1535) : Rebuild 2.47 miles of 230 kV Line 238 from AE2-033 TAP to Sapony with 2-795 150C ACSR. Project Type : FAC Cost : \$3,705,000 Time Estimate : 30-36 Months	\$3,705,000
168518814	7	3FLAT CREEK 115.0 kV - 3MORAN 115.0 kV Ckt 1	<u>DVP</u> dom-271 (1802) : Rebuild 70 miles of 115 kV lines (158, 84, 154, 1012) from Chase City to Lone Pine with 2-636 ACSR 150 C. Line 84: - Willis Mountain terminal: Replace Line Switch - Farmville terminal: Replace Breaker Switch, Breaker Lead, Line Lead, Wave Trap - Pamplin terminal: Replace Wave Trap, Line Lead and Relay (Secondary CT) Line 154: - Twittys Creek terminal: Replace Wave Trap and Line Lead - Madisonville terminal: Replace Line Switch - Pamplin terminal: Replace Wave Trap and Line Lead Line 158: - Farmville terminal: Replace Breaker Switch, Breaker Lead - Moran DP terminal: Replace Line Switch - Lone Pine terminal: Replace Wave Trap Line 1012: - Chase City terminal: Replace Breaker, Breaker switch, Breaker Lead and Wave Trap - Central terminal: Replace Line Switch - Twitty's Creek terminal: Replace Wave Trap Project Type : FAC Cost : \$109,470,000 Time Estimate : 60-72 Months	\$109,470,000
169243903	28	3MORAN 115.0 kV - 3FARMVIL 115.0 kV Ckt 1		
168518809	26	3LONEPN 115.0 kV - 3FLAT CREEK 115.0 kV Ckt 1		
166980577,166 980576	1	3BRUNWICK 115.0 kV - 3LAWRENC 115.0 kV Ckt 1	<u>DVP</u> dom-336 (1867) : Reconnector 4.32 miles of 115 kV Line 71 from Brunswick to Lawrence with 768.2 ACSS 250 Project Type : FAC Cost : \$2,592,000 Time Estimate : 30-36 Months	\$2,592,000
166980553	9	3CHASCTY2 115.0 kV - 3BARNES J 115.0 kV Ckt 1	<u>DVP</u> dom-295 (1826) : Rebuild 7.46 mi miles of 115 kV Line 33 from Chase City to Barnes Junction with 2-636 ACSR 150 C Project Type : FAC Cost : \$11,190,000 Time Estimate : 30-36 Months	\$11,190,000

ID	Idx	Facility	Upgrade Description	Cost
166980523	30	3BURLING 115.0 kV - 3BUGGS I 115.0 kV Ckt 1	<u>DVP</u> dom-377 (1908) : Reconductor 1.31 miles of 115 kV Line 36 from Burlington Drive to Buggs Island with 768.2 ACSS 250 C. Replace Line Lead at Buggs Island terminal Project Type : FAC Cost : \$786,000 Time Estimate : 30-36 Months	\$786,000
166980521	17	3CHASCTY 115.0 kV - 3BLACKBR 115.0 kV Ckt 1	<u>DVP</u> dom-339 (1870) : Reconductor 2.47 miles of 115 kV Line 36 from Chase City to Black Branch with 768.2 ACSS 250 Project Type : FAC Cost : \$1,482,000 Time Estimate : 30-36 Months	\$1,482,000
169033982,169033983	14	6HORNRTN 230.0 kV - AD1-057 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-077 (1566) : Rebuild 16 miles of 230 kV Line 2056 from Hornertown to AD1-057 TAP with 2-636 ACSR. Project Type : FAC Cost : \$24,000,000 Time Estimate : 36-40 Months	\$24,000,000
168823878,168823879,163339556,168823880,163339555	10	6SAPONY 230.0 kV - 6CARSON 230.0 kV Ckt 1	<u>DVP</u> n6221 (1724) : Rebuild 11.79 miles of 230 kV Line 238 from Sapony to Carson with 2-795 150C ACSR. Project Type : FAC Cost : \$17,685,000 Time Estimate : 30-36 Months	\$17,685,000
169243934,169243936	23	3SEEDGE HILL 115.0 kV - 6SEEDGE HILL 230.0 kV Ckt 1	<u>DVP</u> dom-046 (1529) : Add additional 230/115 kV transformer at Sedge Hill substation. Project Type : CON Cost : \$6,000,000 Time Estimate : 16-18 Months	\$6,000,000
169243950	24	3SEEDGE HILL 115.0 kV - 6SEEDGE HILL 230.0 kV Ckt 2		
168519028,168519026	8	3PLYWOOD 115.0 kV - 3SEEDGE HILL 115.0 kV Ckt 1	<u>DVP</u> dom-273 (1804) : Reconductor 6.65 miles of 115 kV line 151 from Plywood to Sedge Hill with 636 ACSR 150 C Project Type : FAC Cost : \$3,990,000 Time Estimate : 30-36 Months	\$3,990,000
166980506,166980505	4	3JONESTO 115.0 kV - 3CLARKVILLE 115.0 kV Ckt 1	<u>DVP</u> dom-372 (1903) : Reconductor 7.56 miles of 115 kV Line 36 from Jones Store to Clarksville with 768.2 ACSS 250 C. Project Type : FAC Cost : \$4,536,000 Time Estimate : 30-36 Months	\$4,536,000

ID	Idx	Facility	Upgrade Description	Cost
166980519	19	3CLRKVILLE 115.0 kV - 3BURLING 115.0 kV Ckt 1	<u>DVP</u> dom-340 (1871) : Reconductor 2.58 miles of 115 kV Line 36 from Clarksville to Burlington DP with 768.2 ACSS 250 Project Type : FAC Cost : \$1,548,000 Time Estimate : 30-36 Months	\$1,548,000
169033968,163 339561,163339 560,163339301, 169033966,169 033967	13	6CLUBHSE 230.0 kV - AE2-033 TAP 230.0 kV Ckt 1	<u>DVP</u> n6872 (1531) : Rebuild 14.28 miles of 230 kV Line 238 from Clubhouse to AE2-033 Tap with 2-795 150C ACSR. Project Type : FAC Cost : \$21,420,000 Time Estimate : 30-36 Months	\$21,420,000
166980536	20	3MT LREL 115.0 kV - AC1-105 TAP 115.0 kV Ckt 1	<u>DVP</u> dom-341 (1872) : Rebuild 10.76 mi miles of 115 kV Line 33 from Mt. Laurel to AC1-105 Tap to Sedge Hill with 2-636 ACSR 150 C. Replace Wave Trap, Line Lead at sedge Hill terminal. Replace Line Switch at Mt. Laurel terminal Project Type : FAC Cost : \$16,590,000 Time Estimate : 30-36 Months	\$16,590,000
166980458	31	AC1-105 TAP 115.0 kV - 3SEGE HILL 115.0 kV Ckt 1		
			TOTAL COST	\$278,043,000

11.6 Flow Gate Details - Primary POI

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

11.6.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166980576	314676	3BRUNWICK	DVP	314704	3LAWRENC	DVP	1	DVP_P7-1: LN 171-1009	tower	400.0	98.78	105.81	DC	28.11

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.5113	Adder	-4.13
313527	AB2-043 C	0.5728	50/50	0.5728
313853	3PONTONDP	0.4680	50/50	0.4680
314429	3JTRSVLE	0.2953	50/50	0.2953
314713	3PAMPLIN	1.0193	50/50	1.0193
316118	AC1-105 C	2.2193	Adder	2.61
316131	AB2-060 C	1.6231	50/50	1.6231
923991	AB2-040 C O1	-3.8242	Adder	-4.5
924022	AB2-043 E O1	3.2465	50/50	3.2465
924162	AB2-060 E OP	4.8412	50/50	4.8412
924301	AB2-077 C O1 (Suspended)	2.1631	50/50	2.1631
924302	AB2-077 E O1 (Suspended)	1.4421	50/50	1.4421
924311	AB2-078 C O1 (Suspended)	2.1631	50/50	2.1631
924312	AB2-078 E O1 (Suspended)	1.4421	50/50	1.4421
924321	AB2-079 C O1 (Suspended)	2.1631	50/50	2.1631
924322	AB2-079 E O1 (Suspended)	1.4421	50/50	1.4421
925611	AC1-036 C	0.2058	50/50	0.2058
925612	AC1-036 E	0.7810	50/50	0.7810
926274	AC1-105 E	1.0904	Adder	1.28
935221	AD1-157 C	0.1487	50/50	0.1487
935222	AD1-157 E	0.6284	50/50	0.6284
936265	AD2-033 C	12.4277	50/50	12.4277
936266	AD2-033 E	8.2852	50/50	8.2852
936485	AD2-063 C	15.8868	50/50	15.8868
936486	AD2-063 E	10.5912	50/50	10.5912
938371	AE1-056 C	4.0639	50/50	4.0639
938372	AE1-056 E	2.2205	50/50	2.2205
942451	AE2-258	2.7086	50/50	2.7086
942461	AE2-259 C O1	3.6358	Adder	4.28
942462	AE2-259 E O1	2.4239	Adder	2.85
943911	AF1-059	48.2291	50/50	48.2291
946301	AF1-294 C	2.9832	50/50	2.9832
946302	AF1-294 E	1.9888	50/50	1.9888
958211	AF2-115 C	1.7549	50/50	1.7549
958212	AF2-115 E	1.1699	50/50	1.1699

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958801	AF2-171 C	10.5957	50/50	10.5957
958802	AF2-171 E	7.0638	50/50	7.0638
959311	AF2-222 C	14.6710	50/50	14.6710
959312	AF2-222 E	9.8296	50/50	9.8296
961791	AG1-021 C	1.4039	50/50	1.4039
961792	AG1-021 E	0.9359	50/50	0.9359
961891	AG1-030 C	11.6136	50/50	11.6136
961892	AG1-030 E	7.7424	50/50	7.7424
962041	AG1-048 C	8.7743	50/50	8.7743
962042	AG1-048 E	5.8495	50/50	5.8495
962441	AG1-093 C O1	3.1366	Adder	6.96
962442	AG1-093 E O1	0.9546	Adder	2.12
963171	AG1-166 C	1.4039	50/50	1.4039
963172	AG1-166 E	0.9359	50/50	0.9359
963181	AG1-167 C	1.4039	50/50	1.4039
963182	AG1-167 E	0.9359	50/50	0.9359
963191	AG1-168 C	1.4039	50/50	1.4039
963192	AG1-168 E	0.9359	50/50	0.9359
963201	AG1-169 C	1.4039	50/50	1.4039
963202	AG1-169 E	0.9359	50/50	0.9359
963211	AG1-170 C	1.4039	50/50	1.4039
963212	AG1-170 E	0.9359	50/50	0.9359
963301	AG1-179 C	20.2186	50/50	20.2186
963311	AG1-180	9.8510	50/50	9.8510
963321	AG1-181 C O1	15.9257	50/50	15.9257
963361	AG1-185 O1	7.7053	50/50	7.7053
963641	AG1-215 C	0.6551	50/50	0.6551
963642	AG1-215 E	0.9827	50/50	0.9827
964111	AG1-272 C	2.3384	50/50	2.3384
964112	AG1-272 E	0.6946	50/50	0.6946
964121	AG1-273 C	2.3384	50/50	2.3384
964122	AG1-273 E	0.6946	50/50	0.6946
964131	AG1-274 C	2.3384	50/50	2.3384
964132	AG1-274 E	0.6946	50/50	0.6946
964241	AG1-285 C O1	13.5780	50/50	13.5780
964242	AG1-285 E O1	9.0520	50/50	9.0520
964791	AG1-342 C	2.6772	50/50	2.6772
964792	AG1-342 E	2.1036	50/50	2.1036
964821	AG1-345 C	0.5635	50/50	0.5635
964822	AG1-345 E	0.3757	50/50	0.3757
965191	AG1-384 C	2.3384	50/50	2.3384
965192	AG1-384 E	0.6946	50/50	0.6946
965281	AG1-393 C	1.4039	50/50	1.4039
965282	AG1-393 E	0.9359	50/50	0.9359
965451	AG1-413 C O1	20.2737	50/50	20.2737
965452	AG1-413 E O1	13.5158	50/50	13.5158
965591	AG1-427 C	12.8186	50/50	12.8186
965592	AG1-427 E	8.5638	50/50	8.5638
965601	AG1-428 C O1	16.8788	50/50	16.8788
965602	AG1-428 E O1	11.2325	50/50	11.2325
965641	AG1-432 C O1	3.8539	Adder	8.55
965642	AG1-432 E O1	2.5693	Adder	5.7

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965831	AG1-451	0.6423	Adder	1.43
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3854	Adder	0.86
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2569	Adder	0.57
WEC	WEC	0.0306	Confirmed LTF	0.0306
LGEE	LGEE	0.0653	Confirmed LTF	0.0653
CPLE	CPLE	0.0157	Confirmed LTF	0.0157
CBM-W2	CBM-W2	0.8870	Confirmed LTF	0.8870
NY	NY	0.0182	Confirmed LTF	0.0182
TVA	TVA	0.1442	Confirmed LTF	0.1442
O-066	O-066	0.3096	Confirmed LTF	0.3096
SIGE	SIGE	0.0155	Confirmed LTF	0.0155
CBM-S2	CBM-S2	0.7934	Confirmed LTF	0.7934
CBM-S1	CBM-S1	0.0391	Confirmed LTF	0.0391
G-007	G-007	0.0493	Confirmed LTF	0.0493
MEC	MEC	0.1557	Confirmed LTF	0.1557
LAGN	LAGN	0.1732	Confirmed LTF	0.1732
CBM-W1	CBM-W1	1.3179	Confirmed LTF	1.3179

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
166980578	314693	3FRMAND	DVP	314565	3CLUBHSE71	DVP	1	DVP_P7-1: LN 171-1009	tower	400.0	98.14	105.17	DC	28.11

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.5133	Adder	-4.13
313527	AB2-043 C	0.5726	50/50	0.5726
313853	3PONTONDP	0.4677	50/50	0.4677
314429	3JTRSVLE	0.2952	50/50	0.2952
314704	3LAWRENC	1.1388	50/50	1.1388
314713	3PAMPLIN	1.0187	50/50	1.0187
316118	AC1-105 C	2.2176	Adder	2.61
316131	AB2-060 C	1.6226	50/50	1.6226
923991	AB2-040 C O1	-3.8264	Adder	-4.5
924022	AB2-043 E O1	3.2455	50/50	3.2455
924162	AB2-060 E OP	4.8399	50/50	4.8399
924301	AB2-077 C O1 (Suspended)	2.1625	50/50	2.1625
924302	AB2-077 E O1 (Suspended)	1.4417	50/50	1.4417
924311	AB2-078 C O1 (Suspended)	2.1625	50/50	2.1625
924312	AB2-078 E O1 (Suspended)	1.4417	50/50	1.4417
924321	AB2-079 C O1 (Suspended)	2.1625	50/50	2.1625
924322	AB2-079 E O1 (Suspended)	1.4417	50/50	1.4417
925611	AC1-036 C	0.2057	50/50	0.2057
925612	AC1-036 E	0.7807	50/50	0.7807
926274	AC1-105 E	1.0895	Adder	1.28
935221	AD1-157 C	0.1486	50/50	0.1486
935222	AD1-157 E	0.6281	50/50	0.6281
936265	AD2-033 C	12.4231	50/50	12.4231
936266	AD2-033 E	8.2820	50/50	8.2820
936485	AD2-063 C	15.8814	50/50	15.8814
936486	AD2-063 E	10.5876	50/50	10.5876
938371	AE1-056 C	4.0616	50/50	4.0616
938372	AE1-056 E	2.2192	50/50	2.2192
942451	AE2-258	2.7078	50/50	2.7078
942461	AE2-259 C O1	3.6327	Adder	4.27
942462	AE2-259 E O1	2.4218	Adder	2.85
943911	AF1-059	48.2241	50/50	48.2241
946301	AF1-294 C	2.9817	50/50	2.9817
946302	AF1-294 E	1.9878	50/50	1.9878
958211	AF2-115 C	1.7540	50/50	1.7540

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958212	AF2-115 E	1.1693	50/50	1.1693
958801	AF2-171 C	10.5903	50/50	10.5903
958802	AF2-171 E	7.0602	50/50	7.0602
959311	AF2-222 C	14.6650	50/50	14.6650
959312	AF2-222 E	9.8256	50/50	9.8256
961791	AG1-021 C	1.4032	50/50	1.4032
961792	AG1-021 E	0.9354	50/50	0.9354
961891	AG1-030 C	11.6082	50/50	11.6082
961892	AG1-030 E	7.7388	50/50	7.7388
962041	AG1-048 C	8.7698	50/50	8.7698
962042	AG1-048 E	5.8465	50/50	5.8465
962441	AG1-093 C O1	3.1341	Adder	6.96
962442	AG1-093 E O1	0.9539	Adder	2.12
963171	AG1-166 C	1.4032	50/50	1.4032
963172	AG1-166 E	0.9354	50/50	0.9354
963181	AG1-167 C	1.4032	50/50	1.4032
963182	AG1-167 E	0.9354	50/50	0.9354
963191	AG1-168 C	1.4032	50/50	1.4032
963192	AG1-168 E	0.9354	50/50	0.9354
963201	AG1-169 C	1.4032	50/50	1.4032
963202	AG1-169 E	0.9354	50/50	0.9354
963211	AG1-170 C	1.4032	50/50	1.4032
963212	AG1-170 E	0.9354	50/50	0.9354
963301	AG1-179 C	20.2165	50/50	20.2165
963311	AG1-180	9.8500	50/50	9.8500
963321	AG1-181 C O1	15.9197	50/50	15.9197
963361	AG1-185 O1	7.7023	50/50	7.7023
963641	AG1-215 C	0.6548	50/50	0.6548
963642	AG1-215 E	0.9822	50/50	0.9822
964111	AG1-272 C	2.3375	50/50	2.3375
964112	AG1-272 E	0.6943	50/50	0.6943
964121	AG1-273 C	2.3375	50/50	2.3375
964122	AG1-273 E	0.6943	50/50	0.6943
964131	AG1-274 C	2.3375	50/50	2.3375
964132	AG1-274 E	0.6943	50/50	0.6943
964241	AG1-285 C O1	13.5735	50/50	13.5735
964242	AG1-285 E O1	9.0490	50/50	9.0490
964791	AG1-342 C	2.6757	50/50	2.6757
964792	AG1-342 E	2.1024	50/50	2.1024
964821	AG1-345 C	0.5632	50/50	0.5632
964822	AG1-345 E	0.3755	50/50	0.3755
965191	AG1-384 C	2.3375	50/50	2.3375
965192	AG1-384 E	0.6943	50/50	0.6943
965281	AG1-393 C	1.4032	50/50	1.4032
965282	AG1-393 E	0.9354	50/50	0.9354
965451	AG1-413 C O1	20.2716	50/50	20.2716
965452	AG1-413 E O1	13.5144	50/50	13.5144
965591	AG1-427 C	12.8144	50/50	12.8144
965592	AG1-427 E	8.5609	50/50	8.5609
965601	AG1-428 C O1	16.8771	50/50	16.8771
965602	AG1-428 E O1	11.2314	50/50	11.2314
965641	AG1-432 C O1	3.8507	Adder	8.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965642	AG1-432 E O1	2.5671	Adder	5.7
965831	AG1-451	0.6418	Adder	1.42
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3851	Adder	0.85
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2567	Adder	0.57
WEC	WEC	0.0287	Confirmed LTF	0.0287
LGEE	LGEE	0.0616	Confirmed LTF	0.0616
CPL	CPL	0.0116	Confirmed LTF	0.0116
CBM-W2	CBM-W2	0.8333	Confirmed LTF	0.8333
NY	NY	0.0216	Confirmed LTF	0.0216
TVA	TVA	0.1358	Confirmed LTF	0.1358
O-066	O-066	0.3500	Confirmed LTF	0.3500
SIGE	SIGE	0.0155	Confirmed LTF	0.0155
CBM-S2	CBM-S2	0.7308	Confirmed LTF	0.7308
CBM-S1	CBM-S1	0.0369	Confirmed LTF	0.0369
G-007	G-007	0.0557	Confirmed LTF	0.0557
MEC	MEC	0.1462	Confirmed LTF	0.1462
LAGN	LAGN	0.1627	Confirmed LTF	0.1627
CBM-W1	CBM-W1	1.2338	Confirmed LTF	1.2338

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
166980574	314704	3LAWRENC	DVP	314693	3FRMAN D	DVP	1	DVP_P7-1: LN 171-1009	tower	400.0	99.02	106.04	DC	28.11

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-3.5133	Adder	-4.13
313527	AB2-043 C	0.5726	50/50	0.5726
313853	3PONTONDP	0.4677	50/50	0.4677
314429	3JTRSVLE	0.2952	50/50	0.2952
314704	3LAWRENC	1.1388	50/50	1.1388
314713	3PAMPLIN	1.0187	50/50	1.0187
316118	AC1-105 C	2.2176	Adder	2.61
316131	AB2-060 C	1.6226	50/50	1.6226
923991	AB2-040 C O1	-3.8264	Adder	-4.5
924022	AB2-043 E O1	3.2455	50/50	3.2455
924162	AB2-060 E OP	4.8399	50/50	4.8399
924301	AB2-077 C O1 (Suspended)	2.1625	50/50	2.1625
924302	AB2-077 E O1 (Suspended)	1.4417	50/50	1.4417
924311	AB2-078 C O1 (Suspended)	2.1625	50/50	2.1625
924312	AB2-078 E O1 (Suspended)	1.4417	50/50	1.4417
924321	AB2-079 C O1 (Suspended)	2.1625	50/50	2.1625
924322	AB2-079 E O1 (Suspended)	1.4417	50/50	1.4417
925611	AC1-036 C	0.2057	50/50	0.2057
925612	AC1-036 E	0.7807	50/50	0.7807
926274	AC1-105 E	1.0895	Adder	1.28
935221	AD1-157 C	0.1486	50/50	0.1486
935222	AD1-157 E	0.6281	50/50	0.6281
936265	AD2-033 C	12.4231	50/50	12.4231
936266	AD2-033 E	8.2820	50/50	8.2820
936485	AD2-063 C	15.8814	50/50	15.8814
936486	AD2-063 E	10.5876	50/50	10.5876
938371	AE1-056 C	4.0616	50/50	4.0616
938372	AE1-056 E	2.2192	50/50	2.2192
942451	AE2-258	2.7078	50/50	2.7078
942461	AE2-259 C O1	3.6327	Adder	4.27
942462	AE2-259 E O1	2.4218	Adder	2.85
943911	AF1-059	48.2241	50/50	48.2241
946301	AF1-294 C	2.9817	50/50	2.9817
946302	AF1-294 E	1.9878	50/50	1.9878
958211	AF2-115 C	1.7540	50/50	1.7540

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958212	AF2-115 E	1.1693	50/50	1.1693
958801	AF2-171 C	10.5903	50/50	10.5903
958802	AF2-171 E	7.0602	50/50	7.0602
959311	AF2-222 C	14.6650	50/50	14.6650
959312	AF2-222 E	9.8256	50/50	9.8256
961791	AG1-021 C	1.4032	50/50	1.4032
961792	AG1-021 E	0.9354	50/50	0.9354
961891	AG1-030 C	11.6082	50/50	11.6082
961892	AG1-030 E	7.7388	50/50	7.7388
962041	AG1-048 C	8.7698	50/50	8.7698
962042	AG1-048 E	5.8465	50/50	5.8465
962441	AG1-093 C O1	3.1341	Adder	6.96
962442	AG1-093 E O1	0.9539	Adder	2.12
963171	AG1-166 C	1.4032	50/50	1.4032
963172	AG1-166 E	0.9354	50/50	0.9354
963181	AG1-167 C	1.4032	50/50	1.4032
963182	AG1-167 E	0.9354	50/50	0.9354
963191	AG1-168 C	1.4032	50/50	1.4032
963192	AG1-168 E	0.9354	50/50	0.9354
963201	AG1-169 C	1.4032	50/50	1.4032
963202	AG1-169 E	0.9354	50/50	0.9354
963211	AG1-170 C	1.4032	50/50	1.4032
963212	AG1-170 E	0.9354	50/50	0.9354
963301	AG1-179 C	20.2165	50/50	20.2165
963311	AG1-180	9.8500	50/50	9.8500
963321	AG1-181 C O1	15.9197	50/50	15.9197
963361	AG1-185 O1	7.7023	50/50	7.7023
963641	AG1-215 C	0.6548	50/50	0.6548
963642	AG1-215 E	0.9822	50/50	0.9822
964111	AG1-272 C	2.3375	50/50	2.3375
964112	AG1-272 E	0.6943	50/50	0.6943
964121	AG1-273 C	2.3375	50/50	2.3375
964122	AG1-273 E	0.6943	50/50	0.6943
964131	AG1-274 C	2.3375	50/50	2.3375
964132	AG1-274 E	0.6943	50/50	0.6943
964241	AG1-285 C O1	13.5735	50/50	13.5735
964242	AG1-285 E O1	9.0490	50/50	9.0490
964791	AG1-342 C	2.6757	50/50	2.6757
964792	AG1-342 E	2.1024	50/50	2.1024
964821	AG1-345 C	0.5632	50/50	0.5632
964822	AG1-345 E	0.3755	50/50	0.3755
965191	AG1-384 C	2.3375	50/50	2.3375
965192	AG1-384 E	0.6943	50/50	0.6943
965281	AG1-393 C	1.4032	50/50	1.4032
965282	AG1-393 E	0.9354	50/50	0.9354
965451	AG1-413 C O1	20.2716	50/50	20.2716
965452	AG1-413 E O1	13.5144	50/50	13.5144
965591	AG1-427 C	12.8144	50/50	12.8144
965592	AG1-427 E	8.5609	50/50	8.5609
965601	AG1-428 C O1	16.8771	50/50	16.8771
965602	AG1-428 E O1	11.2314	50/50	11.2314
965641	AG1-432 C O1	3.8507	Adder	8.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965642	AG1-432 E O1	2.5671	Adder	5.7
965831	AG1-451	0.6418	Adder	1.42
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3851	Adder	0.85
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2567	Adder	0.57
WEC	WEC	0.0287	Confirmed LTF	0.0287
LGEE	LGEE	0.0616	Confirmed LTF	0.0616
CPLE	CPLE	0.0116	Confirmed LTF	0.0116
CBM-W2	CBM-W2	0.8333	Confirmed LTF	0.8333
NY	NY	0.0216	Confirmed LTF	0.0216
TVA	TVA	0.1358	Confirmed LTF	0.1358
O-066	O-066	0.3500	Confirmed LTF	0.3500
SIGE	SIGE	0.0155	Confirmed LTF	0.0155
CBM-S2	CBM-S2	0.7308	Confirmed LTF	0.7308
CBM-S1	CBM-S1	0.0369	Confirmed LTF	0.0369
G-007	G-007	0.0557	Confirmed LTF	0.0557
MEC	MEC	0.1462	Confirmed LTF	0.1462
LAGN	LAGN	0.1627	Confirmed LTF	0.1627
CBM-W1	CBM-W1	1.2338	Confirmed LTF	1.2338

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
166980505	314788	3JONESTO	DVP	314683	3CLRKVILLE	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	115.01	116.6	DC	4.78

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

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

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

11.6.5 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
166980489	313705	3KERRDP	DVP	314702	3KERR	DVP	1	DVP_P7-1: LN 171-1009	tower	195.0	113.54	114.09	DC	2.36

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

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

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

11.6.6 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
168519013	313725	6DRY BREAD	DVP	314583	6LAKEVEW	DVP	1	DVP_P1-2: LN 238-A	single	375.06	109.01	111.58	DC	9.66

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

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

11.6.7 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
168518814	313755	3FLAT CREEK	DVP	314707	3MORAN	DVP	1	Base Case	single	203.98	126.22	127.23	DC	2.04

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

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

11.6.8 Index 8

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168519026	313825	3PLYWOOD	DVP	314696	3SEEDGE HILL	DVP	1	DVP_P1-2: LN 33	single	141.0	115.13	116.88	DC	2.47

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

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

11.6.9 Index 9

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166980553	314267	3CHASCTY2	DVP	314669	3BARNS J	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	104.74	105.45	DC	6.36

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

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

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

11.6.10 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
163339555	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	156.05	158.0	DC	16.13

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

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

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

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

11.6.11 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
169033922	314559	3CAROLNA	DVP	314561	6CAROLNA	DVP	1	DVP_P1-2: LN 68-A	single	239.89	135.35	136.38	DC	2.47

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	8.7340	80/20	8.7340
965731	AG1-441 C	8.7340	80/20	8.7340
965771	AG1-445	5.0463	80/20	5.0463
965781	AG1-446	5.0463	80/20	5.0463
966621	AG1-532 C	0.6874	80/20	0.6874
966751	AG1-546 C	27.3941	80/20	27.3941
966811	AG1-552 C	5.1344	80/20	5.1344
WEC	WEC	0.0176	Confirmed LTF	0.0176
LGEE	LGEE	0.0390	Confirmed LTF	0.0390
CPL	CPL	0.1269	Confirmed LTF	0.1269
CBM-W2	CBM-W2	0.7168	Confirmed LTF	0.7168
NY	NY	0.0597	Confirmed LTF	0.0597
TVA	TVA	0.1344	Confirmed LTF	0.1344
SIGE	SIGE	0.0194	Confirmed LTF	0.0194
CBM-S2	CBM-S2	1.7226	Confirmed LTF	1.7226
CBM-S1	CBM-S1	0.0338	Confirmed LTF	0.0338
MEC	MEC	0.1017	Confirmed LTF	0.1017
LAGN	LAGN	0.1610	Confirmed LTF	0.1610
CBM-W1	CBM-W1	0.7150	Confirmed LTF	0.7150

11.6.12 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
169033867	314562	3CLUBHSE	DVP	314563	6CLUBHSE	DVP	1	DVP_P1-2: LN 2201	single	182.64	221.16	227.08	DC	10.82

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924311	AB2-078 C O1 (Suspended)	1.5130	80/20	1.5130
924321	AB2-079 C O1 (Suspended)	1.5130	80/20	1.5130
925591	AC1-034 C	2.2414	80/20	2.2414
925611	AC1-036 C	0.1376	80/20	0.1376
926070	AC1-086 C	10.0123	80/20	10.0123
926201	AC1-098 C	3.1031	80/20	3.1031
926211	AC1-099 C	1.0399	80/20	1.0399
927145	AC1-208 C	5.2586	80/20	5.2586
932631	AC2-084 C	4.4236	80/20	4.4236
934331	AD1-057 C O1	3.8417	80/20	3.8417
935221	AD1-157 C	0.0980	80/20	0.0980
936265	AD2-033 C	8.3234	80/20	8.3234
936361	AD2-046 C O1	6.2368	80/20	6.2368
936485	AD2-063 C	10.6713	80/20	10.6713
938371	AE1-056 C	2.6788	80/20	2.6788
939181	AE1-148 C	6.1781	80/20	6.1781
940571	AE2-044 C	1.4680	80/20	1.4680
940661	AE2-053 O1	2.2882	80/20	2.2882
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0630	80/20	0.0630
942451	AE2-258	1.8236	80/20	1.8236
943171	AE2-346 C	0.5473	80/20	0.5473
943911	AF1-059	31.0992	80/20	31.0992
944141	AF1-082	0.9437	80/20	0.9437
946281	AF1-292 C	4.8137	80/20	4.8137
946301	AF1-294 C	1.9760	80/20	1.9760
957521	AF2-046 C	7.4161	80/20	7.4161
958211	AF2-115 C	1.1624	80/20	1.1624
958801	AF2-171 C	7.0200	80/20	7.0200
959311	AF2-222 C	9.8000	80/20	9.8000
960081	AF2-299 C	8.1131	80/20	8.1131
961091	AF2-400 C	0.1383	80/20	0.1383
961681	AG1-008 C	7.4310	80/20	7.4310
961791	AG1-021 C	0.9299	80/20	0.9299
961891	AG1-030 C	7.7229	80/20	7.7229
961931	AG1-036 C	0.5625	80/20	0.5625
961941	AG1-037 C	0.1955	80/20	0.1955
962041	AG1-048 C	5.8118	80/20	5.8118
962331	AG1-082 C	0.7819	80/20	0.7819
962341	AG1-083 C	0.7819	80/20	0.7819
962351	AG1-084 C	0.6452	80/20	0.6452
962361	AG1-085 C	0.6452	80/20	0.6452
962441	AG1-093 C O1	5.3728	80/20	5.3728
962571	AG1-106 C	2.7843	80/20	2.7843
963171	AG1-166 C	0.9299	80/20	0.9299
963181	AG1-167 C	0.9299	80/20	0.9299
963191	AG1-168 C	0.9299	80/20	0.9299
963201	AG1-169 C	0.9299	80/20	0.9299
963211	AG1-170 C	0.9299	80/20	0.9299
963301	AG1-179 C	12.9655	80/20	12.9655
963311	AG1-180	6.3171	80/20	6.3171

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O1	10.6630	80/20	10.6630
963361	AG1-185 O1	5.1590	80/20	5.1590
963641	AG1-215 C	0.4339	80/20	0.4339
964111	AG1-272 C	1.5637	80/20	1.5637
964121	AG1-273 C	1.5637	80/20	1.5637
964131	AG1-274 C	1.5637	80/20	1.5637
964241	AG1-285 C O1	9.1275	80/20	9.1275
964501	AG1-313 C O1	3.2212	80/20	3.2212
964791	AG1-342 C	1.9409	80/20	1.9409
964801	AG1-343 C	2.8707	80/20	2.8707
964821	AG1-345 C	0.3733	80/20	0.3733
965191	AG1-384 C	1.5637	80/20	1.5637
965281	AG1-393 C	0.9299	80/20	0.9299
965291	AG1-394 C	0.9982	80/20	0.9982
965451	AG1-413 C O1	13.0729	80/20	13.0729
965591	AG1-427 C	8.6159	80/20	8.6159
965601	AG1-428 C O1	10.8238	80/20	10.8238
965721	AG1-440 C	5.2753	80/20	5.2753
965731	AG1-441 C	5.2753	80/20	5.2753
965771	AG1-445	3.0480	80/20	3.0480
965781	AG1-446	3.0480	80/20	3.0480
966621	AG1-532 C	4.3810	80/20	4.3810
966751	AG1-546 C	12.7746	80/20	12.7746
966811	AG1-552 C	1.9007	80/20	1.9007
WEC	WEC	0.1181	Confirmed LTF	0.1181
LGEE	LGEE	0.2444	Confirmed LTF	0.2444
CPL	CPL	1.2353	Confirmed LTF	1.2353
CBM-W2	CBM-W2	4.9818	Confirmed LTF	4.9818
NY	NY	0.1526	Confirmed LTF	0.1526
TVA	TVA	0.9282	Confirmed LTF	0.9282
SIGE	SIGE	0.0771	Confirmed LTF	0.0771
CBM-S2	CBM-S2	13.8539	Confirmed LTF	13.8539
CBM-S1	CBM-S1	0.2329	Confirmed LTF	0.2329
MEC	MEC	0.6960	Confirmed LTF	0.6960
LAGN	LAGN	1.1515	Confirmed LTF	1.1515
CBM-W1	CBM-W1	4.9631	Confirmed LTF	4.9631

11.6.13 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
163339560	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	148.54	150.35	DC	14.96

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

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

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

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

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

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
169033983	314579	6HORNRTN	DVP	934330	AD1-057 TAP	DVP	1	DVP_P1-2: LN 238-A	single	441.8	126.2	127.41	DC	5.35

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

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

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

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
166980517	314665	3CLRK TAP	DVP	314699	3ISLND C	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	107.31	107.82	DC	2.36

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

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

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

11.6.16 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
166980559	314669	3BARNJ	DVP	314684	3MT LREL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	103.88	104.58	DC	6.36

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

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

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

11.6.17 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
166980521	314681	3CHASCTY	DVP	314781	3BLACKBR	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	112.01	113.6	DC	4.78

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

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

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

11.6.18 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
166980511	314682	3BUGGS I	DVP	314665	3CLRK TAP	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	108.66	109.17	DC	2.36

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

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

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

11.6.19 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
166980519	314683	3CLRKVILLE	DVP	314869	3BURLING	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	112.38	113.97	DC	4.78

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

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

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

11.6.20 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
166980536	314684	3MT LREL	DVP	316115	AC1-105 TAP	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	107.97	108.67	DC	6.36

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

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

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

11.6.21 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
169243864	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	2	DVP_P1-2: LN 235-A	single	182.64	273.44	275.21	DC	3.23

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

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

11.6.22 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
169243875	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	1	DVP_P1-2: LN 298	single	198.06	181.69	183.0	DC	2.58

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

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

11.6.23 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
169243934	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	1	DVP_P1-3: 6SEEDGE HILL-TX#2	single	226.73	161.51	162.9	DC	3.15

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

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

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

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
169243950	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.06	142.58	143.8	DC	3.14

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

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

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

11.6.25 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
166980501	314699	3ISLND C	DVP	313705	3KERRDP	DVP	1	DVP_P7-1: LN 171-1009	tower	202.0	110.5	111.03	DC	2.36

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

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

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

11.6.26 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
168518809	314701	3LONEPN	DVP	313755	3FLAT CREEK	DVP	1	Base Case	single	203.98	126.22	127.23	DC	2.04

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

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

11.6.27 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
163826727	314702	3KERR	DVP	304102	3GW KING TAP	CPL	1	DVP_P4-6: CAROLIN T122	breaker	199.0	196.74	197.8	DC	4.78

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5797	50/50	0.5797
313853	3PONTONDP	0.4064	Adder	0.48
314713	3PAMPLIN	0.8873	Adder	1.04
315158	1KERR 1	0.8424	50/50	0.8424
315159	1KERR 2	2.3588	50/50	2.3588
315160	1KERR 3	2.3588	50/50	2.3588
315161	1KERR 4	2.3588	50/50	2.3588
315162	1KERR 5	2.3588	50/50	2.3588
315163	1KERR 6	2.3588	50/50	2.3588
315164	1KERR 7	2.3588	50/50	2.3588
316118	AC1-105 C	2.4862	Adder	2.92
316129	AC1-054 C	15.8416	50/50	15.8416
316131	AB2-060 C	1.6441	50/50	1.6441
924022	AB2-043 E O1	3.2854	50/50	3.2854
924162	AB2-060 E OP	4.9039	50/50	4.9039
924301	AB2-077 C O1 (Suspended)	2.3786	50/50	2.3786
924302	AB2-077 E O1 (Suspended)	1.5858	50/50	1.5858
924311	AB2-078 C O1 (Suspended)	2.3786	50/50	2.3786
924312	AB2-078 E O1 (Suspended)	1.5858	50/50	1.5858
924321	AB2-079 C O1 (Suspended)	2.3786	50/50	2.3786
924322	AB2-079 E O1 (Suspended)	1.5858	50/50	1.5858
925611	AC1-036 C	0.2090	50/50	0.2090
925612	AC1-036 E	0.7934	50/50	0.7934
925785	AC1-054 E	7.2978	50/50	7.2978
926274	AC1-105 E	1.2215	Adder	1.44
935222	AD1-157 E	0.5470	Adder	0.64
936265	AD2-033 C	12.6220	50/50	12.6220
936266	AD2-033 E	8.4146	50/50	8.4146
936361	AD2-046 C O1	18.0396	50/50	18.0396
936362	AD2-046 E O1	8.2956	50/50	8.2956
936485	AD2-063 C	16.0974	50/50	16.0974
936486	AD2-063 E	10.7316	50/50	10.7316
938371	AE1-056 C	3.5374	Adder	4.16
938372	AE1-056 E	1.9328	Adder	2.27
939181	AE1-148 C	17.4836	50/50	17.4836

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939182	AE1-148 E	11.6557	50/50	11.6557
940661	AE2-053 O1	6.4754	50/50	6.4754
942451	AE2-258	2.7410	50/50	2.7410
942461	AE2-259 C O1	3.7689	Adder	4.43
942462	AE2-259 E O1	2.5126	Adder	2.96
943911	AF1-059	10.7887	Adder	12.69
946301	AF1-294 C	2.5908	Adder	3.05
946302	AF1-294 E	1.7272	Adder	2.03
958211	AF2-115 C	1.5240	Adder	1.79
958212	AF2-115 E	1.0160	Adder	1.2
958801	AF2-171 C	9.1968	Adder	10.82
958802	AF2-171 E	6.1312	Adder	7.21
959311	AF2-222 C	14.9130	50/50	14.9130
959312	AF2-222 E	9.9917	50/50	9.9917
961791	AG1-021 C	0.6462	Adder	1.43
961792	AG1-021 E	0.4308	Adder	0.96
961891	AG1-030 C	11.8413	50/50	11.8413
961892	AG1-030 E	7.8942	50/50	7.8942
962041	AG1-048 C	4.0386	Adder	8.96
962042	AG1-048 E	2.6924	Adder	5.98
962441	AG1-093 C O1	3.5138	Adder	7.8
962442	AG1-093 E O1	1.0694	Adder	2.37
963171	AG1-166 C	0.6462	Adder	1.43
963172	AG1-166 E	0.4308	Adder	0.96
963181	AG1-167 C	0.6462	Adder	1.43
963182	AG1-167 E	0.4308	Adder	0.96
963191	AG1-168 C	0.6462	Adder	1.43
963192	AG1-168 E	0.4308	Adder	0.96
963201	AG1-169 C	0.6462	Adder	1.43
963202	AG1-169 E	0.4308	Adder	0.96
963211	AG1-170 C	0.6462	Adder	1.43
963212	AG1-170 E	0.4308	Adder	0.96
963301	AG1-179 C	1.5479	Adder	3.44
963311	AG1-180	0.7542	Adder	1.67
963321	AG1-181 C O1	16.1673	50/50	16.1673
963361	AG1-185 O1	7.8222	50/50	7.8222
963641	AG1-215 C	0.3016	Adder	0.67
963642	AG1-215 E	0.4523	Adder	1.0
964111	AG1-272 C	2.3755	50/50	2.3755
964112	AG1-272 E	0.7055	50/50	0.7055
964121	AG1-273 C	2.3755	50/50	2.3755
964122	AG1-273 E	0.7055	50/50	0.7055
964131	AG1-274 C	2.3755	50/50	2.3755
964132	AG1-274 E	0.7055	50/50	0.7055
964241	AG1-285 C O1	13.7527	50/50	13.7527
964242	AG1-285 E O1	9.1685	50/50	9.1685
964791	AG1-342 C	1.2895	Adder	2.86
964792	AG1-342 E	1.0132	Adder	2.25
964821	AG1-345 C	0.2594	Adder	0.58
964822	AG1-345 E	0.1729	Adder	0.38
965191	AG1-384 C	2.3755	50/50	2.3755
965192	AG1-384 E	0.7055	50/50	0.7055

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965281	AG1-393 C	0.6462	Adder	1.43
965282	AG1-393 E	0.4308	Adder	0.96
965451	AG1-413 C O1	2.4036	Adder	5.34
965452	AG1-413 E O1	1.6024	Adder	3.56
965591	AG1-427 C	12.9843	50/50	12.9843
965592	AG1-427 E	8.6745	50/50	8.6745
965601	AG1-428 C O1	1.2922	Adder	2.87
965602	AG1-428 E O1	0.8600	Adder	1.91
965641	AG1-432 C O1	3.9950	Adder	8.87
965642	AG1-432 E O1	2.6634	Adder	5.91
965721	AG1-440 C	16.0191	50/50	16.0191
965722	AG1-440 E	10.6794	50/50	10.6794
965731	AG1-441 C	16.0191	50/50	16.0191
965732	AG1-441 E	10.6794	50/50	10.6794
965771	AG1-445	9.2555	50/50	9.2555
965781	AG1-446	9.2555	50/50	9.2555
965831	AG1-451	0.6658	Adder	1.48
966751	AG1-546 C	34.7517	50/50	34.7517
966752	AG1-546 E	18.6468	50/50	18.6468
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.3995	Adder	0.89
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.2663	Adder	0.59
G-007A	G-007A	0.1654	Confirmed LTF	0.1654
VFT	VFT	0.4386	Confirmed LTF	0.4386
CALDERWOOD	CALDERWOOD	0.3713	Confirmed LTF	0.3713
PRAIRIE	PRAIRIE	1.2528	Confirmed LTF	1.2528
CHEOAH	CHEOAH	0.3809	Confirmed LTF	0.3809
CBM-N	CBM-N	0.0792	Confirmed LTF	0.0792
COTTONWOOD	COTTONWOOD	1.3629	Confirmed LTF	1.3629
HAMLET	HAMLET	0.8062	Confirmed LTF	0.8062
GIBSON	GIBSON	0.2184	Confirmed LTF	0.2184
BLUEG	BLUEG	0.6701	Confirmed LTF	0.6701
TRIMBLE	TRIMBLE	0.2126	Confirmed LTF	0.2126
CATAWBA	CATAWBA	0.4161	Confirmed LTF	0.4161

11.6.28 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
169243903	314707	3MORAN	DVP	314691	3FARMVIL	DVP	1	Base Case	single	203.98	122.79	123.79	DC	2.04

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

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

11.6.29 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
166980499	314781	3BLACKBR	DVP	314788	3JONESTO	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	116.37	117.96	DC	4.78

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

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

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

11.6.30 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
166980523	314869	3BURLING	DVP	314682	3BUGGS I	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	111.29	112.87	DC	4.78

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

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

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

11.6.31 Index 31

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166980458	316115	AC1-105 TAP	DVP	314696	3SEDGE HILL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	137.12	137.83	DC	6.36

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

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

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

11.6.32 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
163339540	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	156.9	158.7	DC	14.96

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934522	AD1-076 E	15.0673	Adder	17.73
936265	AD2-033 C	7.3116	Adder	8.6
936266	AD2-033 E	4.8744	Adder	5.73
936361	AD2-046 C O1	6.7224	Adder	7.91
936362	AD2-046 E O1	3.0913	Adder	3.64
936401	AD2-051 C O1	7.1246	Adder	8.38
936402	AD2-051 E O1	3.0592	Adder	3.6
936485	AD2-063 C	9.4057	Adder	11.07
936486	AD2-063 E	6.2705	Adder	7.38
938222	AE1-035 E	0.8680	Adder	1.02
939181	AE1-148 C	6.6055	Adder	7.77
939182	AE1-148 E	4.4036	Adder	5.18
940481	AE2-033 C	64.3737	50/50	64.3737
940482	AE2-033 E	43.3980	50/50	43.3980
940542	AE2-040 BAT	3.9010	50/50	3.9010
940571	AE2-044 C	5.0056	50/50	5.0056
940572	AE2-044 E	1.8235	Adder	2.15
940661	AE2-053 O1	2.4465	Adder	2.88
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5093	Adder	0.6
942451	AE2-258	1.6115	Adder	1.9
942471	AE2-260 C O1	46.3236	50/50	46.3236
942472	AE2-260 E O1	65.7044	50/50	65.7044
943171	AE2-346 C	1.2178	Adder	1.43
943172	AE2-346 E	0.5219	Adder	0.61
943911	AF1-059	26.5588	50/50	26.5588
944141	AF1-082	2.7352	Adder	3.22
946011	AF1-266	53.8858	50/50	53.8858
946281	AF1-292 C	3.8472	50/50	3.8472
946282	AF1-292 E	2.5936	50/50	2.5936
957521	AF2-046 C	14.3320	Adder	16.86
957522	AF2-046 E	7.2091	Adder	8.48
957861	AF2-080 C	7.0833	Adder	8.33
957862	AF2-080 E	3.1400	Adder	3.69
959511	AF2-242 C	5.0088	Adder	5.89
959512	AF2-242 E	3.8958	Adder	4.58
960081	AF2-299 C	6.4841	50/50	6.4841
960082	AF2-299 E	4.3227	50/50	4.3227
961091	AF2-400 C	0.2483	Adder	0.29
961092	AF2-400 E	0.4075	Adder	0.48
961671	AG1-007 C	1.5192	50/50	1.5192
961672	AG1-007 E	0.8484	50/50	0.8484
961681	AG1-008 C	7.6112	Adder	16.9
961682	AG1-008 E	3.8056	Adder	8.45
961931	AG1-036 C	0.6196	Adder	1.38
961932	AG1-036 E	0.4131	Adder	0.92
961941	AG1-037 C	0.2305	Adder	0.51
961942	AG1-037 E	0.1537	Adder	0.34
962331	AG1-082 C	0.9220	Adder	2.05
962332	AG1-082 E	0.6147	Adder	1.36
962341	AG1-083 C	0.9220	Adder	2.05
962342	AG1-083 E	0.6147	Adder	1.36
962351	AG1-084 C	0.8099	Adder	1.8

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

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

11.7 Queue Dependencies

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

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA1-063A	Carolina–Seaboard 115kV	In Service
AA1-065	Earleys 230kV	In Service
AA1-067	Everetts 34.5kV	In Service
AA2-053	Carolina-Jackson 115kV	In Service
AA2-057	Hornertown-Whitakers 115kV	In Service
AA2-074	CPL-E-PJM	Confirmed
AA2-088	Boykins-Handsome 115kV	In Service
AA2-165	Hornertown-Whitakers 115kV	In Service
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
AB1-132	Thelma 230kV	Suspended
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-015	Franklin 115kV	Engineering and Procurement
AB2-025	Sapony 34.5kV	In Service
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-059	Benson-Dunbar 115kV	Partially in Service - Under Construction
AB2-060	Chase City-Lunenburg 115kV	In Service
AB2-077	Buggs Island-Chase City 115kV	Suspended
AB2-078	Buggs Island-Chase City 115kV	Suspended
AB2-079	Buggs Island-Chase City 115kV	Suspended
AB2-099	Ahoskie 34.5kV	Suspended
AB2-100	Clubhouse-Lakeview 230kV	Partially in Service - Under Construction
AB2-169	Pantago-Five Points 115kV	Partially in Service - Under Construction
AB2-174	Emporia-Trego 115kV	In Service
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-042	Altavista-Mt. Airy 69kV	Engineering and Procurement
AC1-054	Kerr Dam–Eatons Ferry 115 kV	Engineering and Procurement
AC1-075	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-080	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-086	Thelma 230kV	Active
AC1-098	Dawson-South Justice 115kV	Engineering and Procurement
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-145	Gretna DP 69 kV	Engineering and Procurement
AC1-189	Chinquapin-Everetts 230kV	Active
AC1-208	Cox-Whitakers 115kV	Engineering and Procurement
AC1-222	Crystal Hill-Halifax 115kV	Engineering and Procurement

Queue Number	Project Name	Status
AC2-084	Dawson-South Justice 115kV	Active
AD1-023	Cashie-Trowbridge 230 kV	Active
AD1-055	Crystal Hill-Halifax 115 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-076	Trowbridge 230 kV	Active
AD1-157	South Creek 34.5 kV	Engineering and Procurement
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
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-056	Red House-South Creek 115 kV	Active
AE1-103	Holland-Union Camp 115 kV	Active
AE1-148	Kerr Dam-Ridge Rd 115 kV	Active
AE1-230	Shockoe 69 kV	Active
AE2-033	Clubhouse-Sappony 230 kV	Active
AE2-040	Sapony 34.5 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-053	Kerr Dam-Ridge Road 115 kV	Active
AE2-151	Earleys 34.5kV	Withdrawn
AE2-185	Gladys DP-Stonemill Switching Station 69 kV	Active
AE2-187	Shockoe DP-Chatham 69 kV	Active
AE2-258	Chase City 115 kV	Active
AE2-259	Curdsville-Willis Mtn 115 kV	Active
AE2-260	Clubhouse 230 kV	Active
AE2-283	Gladys-Stone Mill 69 kV	Active
AE2-291	Grit DP-Perth 115 kV	Active
AE2-292	Grit DP-Perth 115 kV	Active
AE2-346	Ahoskie 34.5 kV	Active
AF1-058	Welco 34.5 kV	Engineering and Procurement
AF1-059	Brodnax-South Hill 115 kV	Active
AF1-082	Heartsease-Mayo Dunbar DP	Active
AF1-173	Gretna DP-Shockoe DP 69 kV	Active
AF1-266	Clubhouse-Sappony 230 kV	Active
AF1-292	Fields 34.5kV	Active
AF1-294	Jetersville-Ponton 115 kV	Active
AF2-046	Tunis-Mapleton 115 kV	Active
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-115	Jetersville-Ponton 115 kV	Active
AF2-171	Madisonville 115 kV	Active
AF2-222	Madisonville DP-Twitty's Creek 115 kV	Active
AF2-242	Wharton 115 kV	Active
AF2-297	Sedge Hill 115 kV	Active
AF2-299	Fields 34.5 kV	Active
AF2-400	Franklin 13.2 kV	Engineering and Procurement
AF2-403	Shockoe DP-Chatham 69 kV	Active
AG1-007	Tar River 12.5 kV	Active
AG1-008	Tunis-Mapleton 115 kV	Active
AG1-021	Jetersville-Ponton 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

Queue Number	Project Name	Status
AG1-048	Jetersville-Ponton 115 kV	Active
AG1-082	Ahoskie 34.5 kV	Active
AG1-083	Ahoskie 34.5 kV	Active
AG1-084	Earlys 34.5 kV	Active
AG1-085	Earlys 34.5	Active
AG1-093	Halifax-Chase City 115 kV	Active
AG1-106	Thelma 230 kV	Active
AG1-166	Lone Pine 115 kV	Active
AG1-167	Lone Pine 115 kV	Active
AG1-168	Lone Pine 115 kV	Active
AG1-169	Lone Pine 115 kV	Active
AG1-170	Lone Pine 115 kV	Active
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 kV	Active
AG1-185	Pamplin-Chase City 115 kV	Active
AG1-209	Gretna 12.5 kV	Active
AG1-215	Fort Pickett 13.2 kV	Active
AG1-272	Twitty's Creek 115 kV	Active
AG1-273	Twitty's Creek 115 kV	Active
AG1-274	Twitty's Creek 115 kV	Active
AG1-275	Gladys DP-Stone Mill 69 kV	Active
AG1-276	Gladys DP-Stone Mill 69 kV	Active
AG1-285	Chase City-Central 115 kV	Active
AG1-286	Johnson Mountain 138 kV	Active
AG1-287	South Boston 12.5 kV	Active
AG1-310	Crystal Hill-Perth 115 kV	Active
AG1-312	Earleys-Cashie 230 kV	Active
AG1-313	Jackson DP-Occoneetchee 115 kV	Active
AG1-342	Dryburg 115 kV	Active
AG1-343	Boykins-Murphy 115 kV	Active
AG1-345	Crewe 12.5 kV	Active
AG1-384	Twitty's Creek 115 kV	Active
AG1-393	Fort Pickett DP 34.5 kV	Active
AG1-394	Boykins 34.5 kV	Active
AG1-413	South Hill-Bordnax 115 kV	Active
AG1-427	Chase City-Drakes Branch 115 kV	Active
AG1-428	Danieltown 69 kV	Active
AG1-432	Curdsville DP-Willis Mt. 115 kV	Active
AG1-437	Cashie-Earleys 230 kV	Active
AG1-438	Cashie-Earleys 230 kV	Active
AG1-439	Chinquapin 230 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 kV	Active
AG1-442	Cashie-Earleys 230 kV	Active
AG1-443	Cashie-Earleys 230 kV	Active
AG1-444	Chinquapin 230 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-451	Curdsville DP-Willis Mt. 115 kV	Active
AG1-532	Fields 34.5 kV	Active
AG1-539	Grit DP-Perth 115 kV	Active

Queue Number	Project Name	Status
AG1-546	Ebony-Elams Road 115 kV	Active
AG1-547	Mount Airy-Chatham 69 kV	Active
AG1-551	Parmelee 12.5 kV	Active
AG1-552	Carolina 13.2 kV	Active
AG1-557	Curdsville DP 115 kV	Withdrawn
V4-068	Murphy's 34.5kV	In Service
Z2-043	Kelford 34.5kV	In Service
Z2-044	Whitakers 34.5kV	In Service
Z2-088	Tarboro-Everetts 230kV	In Service

11.8 Contingency Descriptions - Primary POI

Contingency Name	Contingency Definition
DVP_P7-1: LN 137-1041	CONTINGENCY 'DVP_P7-1: LN 137-1041' /* . OPEN BRANCH FROM BUS 313849 TO BUS 939180 CKT 1 /* 3RIDGERD 115.00 - AE1-148 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 939180 CKT 1 /* 3KERR 115.00 - AE1-148 TAP 115.00 OPEN BUS 939180 /* ISLAND: AE1-148 TAP 115.00 OPEN BUS 939181 /* ISLAND: AE1-148 C 115.00 OPEN BUS 939182 /* ISLAND: AE1-148 E 115.00 OPEN BRANCH FROM BUS 313757 TO BUS 314674 CKT 1 /* 3CLOUD 115.00 - 3BOYDTON 115.00 OPEN BRANCH FROM BUS 314255 TO BUS 314674 CKT 1 /* 3BOYDPLK 115.00 - 3BOYDTON 115.00 OPEN BUS 314674 /* ISLAND: 3BOYDTON 115.00 END
DVP_P1-2: LN 90	CONTINGENCY 'DVP_P1-2: LN 90' OPEN BRANCH FROM BUS 314265 TO BUS 314584 CKT 1 /* 3FIVEFORKSDP115.00 - 3LITTLTN 115.00 OPEN BRANCH FROM BUS 314265 TO BUS 314673 CKT 1 /* 3FIVEFORKSDP115.00 - 3PALMERSPRNG115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314584 TO BUS 314585 CKT 1 /* 3LITTLTN 115.00 - 3L GASTN 115.00 OPEN BUS 314265 /* ISLAND: 3FIVEFORKSDP115.00 OPEN BUS 314584 /* ISLAND: 3LITTLTN 115.00 OPEN BUS 314585 /* ISLAND: 3L GASTN 115.00 END
DVP_P1-2: LN 130	CONTINGENCY 'DVP_P1-2: LN 130' OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314595 TO BUS 314600 CKT 1 /* 3PL HILL 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314600 TO BUS 314615 CKT 1 /* 3PLHITP 115.00 - 3SKIPPERS 115.00 OPEN BUS 314595 /* ISLAND: 3PL HILL 115.00 OPEN BUS 314600 /* ISLAND: 3PLHITP 115.00 END

Contingency Name	Contingency Definition
DVP_P2-2: BREMO B1	CONTINGENCY 'DVP_P2-2: BREMO B1' /* BREMO 230 KV OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END
DVP_P7-1: LN 171-1009	CONTINGENCY 'DVP_P7-1: LN 171-1009' /* . OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 /* 3HERBERT 115.00 - 3CHASCTY 115.00 OPEN BRANCH FROM BUS 313849 TO BUS 314267 CKT 1 /* 3RIDGERD 115.00 - 3CHASCTY2 115.00 END
DVP_P7-1: LN 2058-2181	CONTINGENCY 'DVP_P7-1: LN 2058-2181' /* . OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P1-3: 6SEEDGE HILL-TX#1	CONTINGENCY 'DVP_P1-3: 6SEEDGE HILL-TX#1' OPEN BRANCH FROM BUS 314696 TO BUS 314697 CKT 1 /* 3SEEDGE HILL 115.00 - 6SEEDGE HILL 230.00 END

Contingency Name	Contingency Definition
DVP_P4-2: 102802	CONTINGENCY 'DVP_P4-2: 102802' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 END
DVP_P1-2: LN 33	CONTINGENCY 'DVP_P1-2: LN 33' OPEN BRANCH FROM BUS 314267 TO BUS 314669 CKT 1 /* 3CHASCTY2 115.00 - 3BARNES J 115.00 OPEN BRANCH FROM BUS 314669 TO BUS 314684 CKT 1 /* 3BARNES J 115.00 - 3MT LREL 115.00 OPEN BRANCH FROM BUS 314684 TO BUS 316115 CKT 1 /* 3MT LREL 115.00 - AC1- 105 TAP 115.00 OPEN BRANCH FROM BUS 314696 TO BUS 316115 CKT 1 /* 3SEEDGE HILL 115.00 - AC1-105 TAP 115.00 OPEN BUS 314669 /* ISLAND: 3BARNES J 115.00 OPEN BUS 314684 /* ISLAND: 3MT LREL 115.00 OPEN BUS 316115 /* ISLAND: AC1-105 TAP 115.00 OPEN BUS 316116 /* ISLAND: AC1-105 MAIN115.00 OPEN BUS 316117 /* ISLAND: AC1-105 COL 34.500 OPEN BUS 316118 /* ISLAND: AC1-105 C 0.5750 OPEN BUS 926274 /* ISLAND: AC1-105 E 0.5750 END
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 /* 6DRY BREAD 230.00 - 6CLUBHSE 230.00 END
DVP_P1-2: LN 45	CONTINGENCY 'DVP_P1-2: LN 45' OPEN BUS 304099 /* ISLAND: 3WARREN TAP 115.00 OPEN BUS 304100 /* ISLAND: 3HEND
314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1	CONTINGENCY '314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1' OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 END
DVP_P1-3: 6SEEDGE HILL-TX#2	CONTINGENCY 'DVP_P1-3: 6SEEDGE HILL-TX#2' OPEN BRANCH FROM BUS 314696 TO BUS 314697 CKT 2 /* 3SEEDGE HILL 115.00 - 6SEEDGE HILL 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 238-B	CONTINGENCY 'DVP_P1-2: LN 238-B' OPEN BRANCH FROM BUS 940480 TO BUS 314563 CKT 1 /* AE2-033 TAP 230.00 - 6CLUBHSE 230.00 OPEN BRANCH FROM BUS 314562 TO BUS 314563 CKT 1 /* 3CLUBHSE 115.00 - 6CLUBHSE 230.00 END
DVP_P1-2: LN 238-A	CONTINGENCY 'DVP_P1-2: LN 238-A' OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2-033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 END
DVP_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END
DVP_P7-1: LN 54-2012-B	CONTINGENCY 'DVP_P7-1: LN 54-2012-B' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* AD2-051 TAP - 6EARLEYS 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 54-2012-A	CONTINGENCY 'DVP_P7-1: LN 54-2012-A' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 OPEN BUS 314266 /* ISLAND: 6NORTHAMPTON230.00 END
DVP_P1-2: LN 2056-A	CONTINGENCY 'DVP_P1-2: LN 2056-A' OPEN BRANCH FROM BUS 313845 TO BUS 934330 CKT 1 /* 6HATHAWAY 230.00 - AD1-057 TAP 230.00 END
DVP_P4-6: CAROLIN T122	CONTINGENCY 'DVP_P4-6: CAROLIN T122' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 315126 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP2 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 315128 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP4 14.400 OPEN BUS 315126 /* ISLAND: 1ROARAP2 14.400 OPEN BUS 315128 /* ISLAND: 1ROARAP4 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314578 CKT 1 /* 3CAROLNA 115.00 - 3HORNRTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 OPEN BUS 314559 /* 3CAROLNA 115.00 KV OPEN BUS 314835 /* ISLAND: 3CAROL_1 115.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 84	CONTINGENCY 'DVP_P1-2: LN 84' OPEN BRANCH FROM BUS 314521 TO BUS 314713 CKT 1 /* 3PAMPL_1 115.00 - 3PAMPLIN 115.00 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 /* 3FARMVIL 115.00 - 3WILLIS 115.00 OPEN BRANCH FROM BUS 314713 TO BUS 314726 CKT 1 /* 3PAMPLIN 115.00 - 3WILLIS 115.00 OPEN BUS 314521 /* ISLAND: 3PAMPL_1 115.00 OPEN BUS 314726 /* ISLAND: 3WILLIS 115.00 END
DVP_P1-2: LN 298	CONTINGENCY 'DVP_P1-2: LN 298' OPEN BRANCH FROM BUS 314677 TO BUS 314692 CKT 1 /* 6BUCKING 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 OPEN BUS 314677 /* ISLAND: 6BUCKING 230.00 OPEN BUS 924032 /* ISLAND: AB2-045 E 230.00 OPEN BUS 932511 /* ISLAND: AC2-071 C 230.00 OPEN BUS 932512 /* ISLAND: AC2-071 E 230.00 END
DVP_P1-2: LN 140	CONTINGENCY 'DVP_P1-2: LN 140' OPEN BRANCH FROM BUS 313720 TO BUS 314526 CKT 1 /* 3NEWSOMS 115.00 - 3HANDSOM 115.00 OPEN BRANCH FROM BUS 314526 TO BUS 314534 CKT 1 /* 3HANDSOM 115.00 - 3SHAMPT 115.00 OPEN BUS 314526 /* ISLAND: 3HANDSOM 115.00 END
DVP_P1-2: LN 68-A	CONTINGENCY 'DVP_P1-2: LN 68-A' OPEN BRANCH FROM BUS 313737 TO BUS 314527 CKT 1 /* 3COPELD DP 115.00 - 3HOLLAND 115.00 OPEN BRANCH FROM BUS 313737 TO BUS 961850 CKT 1 /* 3COPELD DP 115.00 - 3SUFFOLK 115.00 OPEN BRANCH FROM BUS 314527 TO BUS 938770 CKT 1 /* 3HOLLAND 115.00 - AE1-103 TAP 115.00 OPEN BUS 313737 /* ISLAND: 3COPELD DP 115.00 OPEN BUS 314527 /* ISLAND: 3HOLLAND 115.00 END
Base Case	
314435 6SAPONY 230 940480 AE2-033 TAP 230 1	CONTINGENCY '314435 6SAPONY 230 940480 AE2-033 TAP 230 1' OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 31-A	CONTINGENCY 'DVP_P1-2: LN 31-A' OPEN BRANCH FROM BUS 314666 TO BUS 314712 CKT 1 /* 3ALTVSTA 115.00 - 3OTTER R 115.00 OPEN BRANCH FROM BUS 314694 TO BUS 314712 CKT 1 /* 3GRIT 115.00 - 3OTTER R 115.00 OPEN BRANCH FROM BUS 314694 TO BUS 942750 CKT 1 /* 3GRIT 115.00 - AE2-291 TAP 115.00 OPEN BUS 314694 /* ISLAND: 3GRIT 115.00 OPEN BUS 314712 /* ISLAND: 3OTTER R 115.00 END
DVP_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_P7-1: LN 158-235	CONTINGENCY 'DVP_P7-1: LN 158-235' /* . OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 /* 3FLAT CREEK 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 /* 3FLAT CREEK 115.00 - 3MORAN 115.00 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 /* 3LONEPINE_1 115.00 - 3LONEPN 115.00 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 /* 3FARMVIL 115.00 - 3MORAN 115.00 OPEN BUS 313755 /* ISLAND: 3FLAT CREEK 115.00 OPEN BUS 314519 /* ISLAND: 3LONEPINE_1 115.00 OPEN BUS 314707 /* ISLAND: 3MORAN 115.00 OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 /* 6PRINCE EDW 230.00 - 6BRIERY 230.00 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 /* 6PRINCE EDW 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 /* 6BRIERY 230.00 - AG1-347 TAP 230.00 OPEN BRANCH FROM BUS 314686 TO BUS 962490 CKT 1 /* 6CLOVER 230.00 - AG1-098 TAP 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 OPEN BUS 313802 /* ISLAND: 6PRINCE EDW 230.00 OPEN BUS 314268 /* ISLAND: 6BRIERY 230.00 OPEN BUS 934620 /* ISLAND: AD1-088 TAP 230.00 OPEN BUS 934621 /* ISLAND: AD1-088 MAIN230.00 OPEN BUS 934622 /* ISLAND: AD1-088 COL134.500 OPEN BUS 934623 /* ISLAND: AD1-088 TER 13.800 OPEN BUS 934624 /* ISLAND: AD1-088 COL234.500 OPEN BUS 934625 /* ISLAND: AD1-088 C 0.6600 OPEN BUS 934626 /* ISLAND: AD1-088 E 0.6600 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 235-A	CONTINGENCY 'DVP_P1-2: LN 235-A' OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 /* 6PRINCE EDW 230.00 - 6BRIERY 230.00 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 /* 6PRINCE EDW 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 /* 6BRIERY 230.00 - AG1-347 TAP 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 OPEN BUS 313802 /* ISLAND: 6PRINCE EDW 230.00 OPEN BUS 314268 /* ISLAND: 6BRIERY 230.00 END
DVP_P7-1: LN 22-90	CONTINGENCY 'DVP_P7-1: LN 22-90' /* . OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 314571 TO BUS 316125 CKT 1 /* 3EATON F 115.00 - AC1-054 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 316125 CKT 1 /* 3KERR 115.00 - AC1-054 TAP 115.00 OPEN BUS 314571 /* ISLAND: 3EATON F 115.00 OPEN BUS 316125 /* ISLAND: AC1-054 TAP 115.00 OPEN BUS 316126 /* ISLAND: AC1-054 MAIN115.00 OPEN BUS 316127 /* ISLAND: AC1-054 COL222.860 OPEN BUS 316128 /* ISLAND: AC1-054 COL122.860 OPEN BUS 316129 /* ISLAND: AC1-054 C 0.3850 OPEN BUS 925785 /* ISLAND: AC1-054 E 0.3850 OPEN BRANCH FROM BUS 314265 TO BUS 314584 CKT 1 /* 3FIVEFORKSDP115.00 - 3LITTLTN 115.00 OPEN BRANCH FROM BUS 314265 TO BUS 314673 CKT 1 /* 3FIVEFORKSDP115.00 - 3PALMERSPRNG115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314584 TO BUS 314585 CKT 1 /* 3LITTLTN 115.00 - 3L GASTN 115.00 OPEN BUS 314265 /* ISLAND: 3FIVEFORKSDP115.00 OPEN BUS 314584 /* ISLAND: 3LITTLTN 115.00 OPEN BUS 314585 /* ISLAND: 3L GASTN 115.00 END
DVP_P1-2: LN 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 END
DVP_P1-4: 3CHASCTY2_3CHASCTY_Z1	CONTINGENCY 'DVP_P1-4: 3CHASCTY2_3CHASCTY_Z1' OPEN BRANCH FROM BUS 314267 TO BUS 314681 CKT Z1 /* 3CHASCTY2 115.00 - 3CHASCTY 115.00 END

Contingency Name	Contingency Definition
DVP_P4-2: 13002	CONTINGENCY 'DVP_P4-2: 13002' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314595 TO BUS 314600 CKT 1 /* 3PL HILL 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314600 TO BUS 314615 CKT 1 /* 3PLHITP 115.00 - 3SKIPPER 115.00 OPEN BUS 314595 /* ISLAND: 3PL HILL 115.00 OPEN BUS 314600 /* ISLAND: 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 END
DVP_P1-2: LN 154-A	CONTINGENCY 'DVP_P1-2: LN 154-A' OPEN BRANCH FROM BUS 314713 TO BUS 314715 CKT 1 /* 3PAMPLIN 115.00 - 3MADSONV 115.00 OPEN BRANCH FROM BUS 314715 TO BUS 959310 CKT 1 /* 3MADSONV 115.00 - AF2-222 TAP 115.00 OPEN BUS 314715 /* ISLAND: 3MADSONV 115.00 END

12 Short Circuit Analysis - Primary POI

The following Breakers are overdutied:

None.

12.1 System Reinforcements - Short Circuit

No short circuit impacts were identified for this project.

13 Summer Peak - Load Flow Analysis - Secondary POI

The Queue Project AG1-428 was evaluated as a 46.8 MW (Capacity 28.1 MW) injection tapping the Keisters to Campbell 138 kV in the Dominion area. Project AG1-428 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-428 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)

None.

13.2 Multiple Facility Contingency

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

None.

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	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
166980489	313705	3KERRDP	115.0	DVP	314702	3KERR	115.0	DVP	1	DVP_P7-1: LN 171-1009	tower	195.0	130.19	130.74	DC	2.36
166980490	313705	3KERRDP	115.0	DVP	314702	3KERR	115.0	DVP	1	DVP_P7-1: LN 137-1041	tower	195.0	100.62	101.16	DC	2.36
168519012	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	375.059997559	131.45	134.02	DC	9.66
173902639	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P4-2: 23872	breaker	459.0	144.16	147.67	DC	16.09
168518814	313755	3FLAT CREEK	115.0	DVP	314707	3MORAN	115.0	DVP	1	Base Case	single	203.979995728	141.34	142.34	DC	2.04
175303622	313825	3PLYWOOD	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P1-2: LN 33-A	single	141.0	127.84	129.59	DC	2.47
174300038	314266	6NORTHAMPTON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P4-2: 23872	breaker	699.0	120.05	121.34	DC	9.04
166980553	314267	3CHASCTY2	115.0	DVP	314669	3BARNES J	115.0	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	114.43	115.14	DC	6.36
174475406	314267	3CHASCTY2	115.0	DVP	314669	3BARNES J	115.0	DVP	1	DVP_P4-2: 15832	breaker	406.0	155.96	156.78	DC	7.4
174475407	314267	3CHASCTY2	115.0	DVP	314669	3BARNES J	115.0	DVP	1	DVP_P4-5: FARMVIL L432	breaker	406.0	154.1	154.92	DC	7.36
174300003	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P4-2: 24972-4	breaker	830.0	130.33	131.67	DC	11.07
174299890	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	176.94	178.5	DC	8.45
174299889	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	176.95	178.52	DC	8.45
168823878	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	157.38	158.77	DC	9.43
168823880	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	single	678.679992676	137.73	139.0	DC	8.59
169033922	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 68-A	single	239.888000488	141.07	142.09	DC	2.47
174299888	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P4-2: L5T68	breaker	288.600006104	166.21	166.85	DC	4.11
174091833	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	DVP_P4-2: 23872	breaker	671.0	123.97	125.32	DC	9.04
169033867	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2201	single	182.641998291	228.39	234.31	DC	10.82
169033869	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	176.81401062	167.68	174.34	DC	11.77

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
163339 301	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	144.06	145.83	DC	14.6
163339 302	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	AEP_P2-2_#1377_05J.F ERR 765_1	bus	830.0	139.29	141.03	DC	14.45
163339 560	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P7-1: LN 2058-2181	towe r	830.0	149.78	151.59	DC	14.96
163339 561	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P7-1: LN 25-2034-A	towe r	830.0	137.76	139.52	DC	14.56
168519 090	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	114.58	117.16	DC	9.67
169033 967	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	129.3	130.64	DC	9.44
169033 968	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	Base Case	single	678.67999 2676	115.49	116.69	DC	8.59
173902 686	3145 63	6CLUBHSE	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	DVP_P4-2: 23872	break er	459.0	127.81	131.32	DC	16.11
174091 787	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P4-2: 201262	break er	830.0	141.88	143.79	DC	15.82
174091 834	3145 99	6ROA VAL	230 .0	DVP	3142 66	6NORTHAM PTON	230 .0	DVP	1	DVP_P4-2: 23872	break er	671.0	123.92	125.27	DC	9.04
166980 517	3146 65	3CLRK TAP	115 .0	DVP	3146 99	3ISLND C	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	208.0	122.92	123.43	DC	2.36
173104 181	3146 69	3BARN S J	115 .0	DVP	9625 60	AG1-105 TAP	115 .0	DVP	1	DVP_P7-1: LN 158-235	towe r	406.0	113.57	114.27	DC	6.36
174475 408	3146 69	3BARN S J	115 .0	DVP	9625 60	AG1-105 TAP	115 .0	DVP	1	DVP_P4-2: 15832	break er	406.0	155.1	155.92	DC	7.4
174475 409	3146 69	3BARN S J	115 .0	DVP	9625 60	AG1-105 TAP	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	406.0	153.24	154.06	DC	7.36
166980 576	3146 76	3BRUNWICK	115 .0	DVP	3147 04	3LAWRENC	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	400.0	109.18	116.21	DC	28.11
166980 577	3146 76	3BRUNWICK	115 .0	DVP	3147 04	3LAWRENC	115 .0	DVP	1	DVP_P7-1: LN 158-235	towe r	400.0	106.87	113.81	DC	27.74
174299 959	3146 76	3BRUNWICK	115 .0	DVP	3147 04	3LAWRENC	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	137.67	144.77	DC	28.41
174475 427	3146 76	3BRUNWICK	115 .0	DVP	3147 04	3LAWRENC	115 .0	DVP	1	DVP_P4-2: 15832	break er	400.0	137.03	144.12	DC	28.39
166980 521	3146 81	3CHASCTY	115 .0	DVP	3147 81	3BLACKBR	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	301.0	129.81	131.4	DC	4.78
174300 054	3146 81	3CHASCTY	115 .0	DVP	3147 81	3BLACKBR	115 .0	DVP	1	DVP_P4-2: 15832	break er	301.0	115.61	116.2	DC	3.9
166980 511	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	124.27	124.78	DC	2.36
166980 519	3146 83	3CLRKVILLE	115 .0	DVP	3148 69	3BURLING	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	301.0	130.18	131.77	DC	4.78
174300 058	3146 83	3CLRKVILLE	115 .0	DVP	3148 69	3BURLING	115 .0	DVP	1	DVP_P4-2: 15832	break er	301.0	115.08	115.66	DC	3.9
166980 536	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	132.22	132.92	DC	6.36
169243 864	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	2	DVP_P1-2: LN 235-A	single	182.64199 8291	290.55	292.32	DC	3.23
169243 867	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	2	Base Case	single	176.81401 062	175.45	176.58	DC	2.0
175120 019	3146 91	3FARMVIL	115 .0	DVP	3146 92	6FARMVIL	230 .0	DVP	1	DVP_P1-2: LN 298-B	single	198.05799 8657	195.82	197.13	DC	2.58
166980 578	3146 93	3FRMAN D	115 .0	DVP	3145 65	3CLUBHSE71	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	400.0	108.53	115.56	DC	28.11
166980 579	3146 93	3FRMAN D	115 .0	DVP	3145 65	3CLUBHSE71	115 .0	DVP	1	DVP_P7-1: LN 158-235	towe r	400.0	106.22	113.16	DC	27.74
174299 961	3146 93	3FRMAN D	115 .0	DVP	3145 65	3CLUBHSE71	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	137.05	144.15	DC	28.41
174475 431	3146 93	3FRMAN D	115 .0	DVP	3145 65	3CLUBHSE71	115 .0	DVP	1	DVP_P4-2: 15832	break er	400.0	136.4	143.5	DC	28.38

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
169243 936	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DVP	1	DVP_P1-2: LN 31-A	single	226.72799 6826	123.28	124.32	DC	2.35
169243 950	3146 96	3SEEDGE HILL	115 .0	DVP	3146 97	6SEEDGE HILL	230 .0	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.05599 9756	143.13	144.36	DC	3.14
166980 501	3146 99	3ISLND C	115 .0	DVP	3137 05	3KERRDP	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	202.0	126.57	127.1	DC	2.36
168518 809	3147 01	3LONEPN	115 .0	DVP	3137 55	3FLAT CREEK	115 .0	DVP	1	Base Case	single	203.97999 5728	141.34	142.34	DC	2.04
163826 727	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	217.85	218.91	DC	4.78
163826 728	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P4-2: 13002	break er	199.0	177.93	178.9	DC	4.26
163826 940	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	DVP_P7-1: LN 90	single	199.0	133.07	134.32	DC	2.49
163826 941	3147 02	3KERR	115 .0	DVP	3041 02	3GW KING TAP	115 .0	CPL E	1	Base Case	single	191.0	124.83	126.08	DC	2.4
163827 602	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	217.38	218.37	DC	4.41
166980 574	3147 04	3LAWRENC	115 .0	DVP	3146 93	3FRMAN D	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	400.0	109.4	116.43	DC	28.11
166980 575	3147 04	3LAWRENC	115 .0	DVP	3146 93	3FRMAN D	115 .0	DVP	1	DVP_P7-1: LN 158-235	towe r	400.0	107.1	114.03	DC	27.74
174299 957	3147 04	3LAWRENC	115 .0	DVP	3146 93	3FRMAN D	115 .0	DVP	1	DVP_P4-5: FARMVIL L432	break er	400.0	137.9	145.0	DC	28.41
169243 903	3147 07	3MORAN	115 .0	DVP	3146 91	3FARMVIL	115 .0	DVP	1	Base Case	single	203.97999 5728	137.91	138.91	DC	2.04
166980 499	3147 81	3BLACKBR	115 .0	DVP	3147 88	3JONESTO	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	301.0	134.17	135.76	DC	4.78
166980 500	3147 81	3BLACKBR	115 .0	DVP	3147 88	3JONESTO	115 .0	DVP	1	DVP_P7-1: LN 137-1041	towe r	301.0	118.07	119.65	DC	4.78
174300 036	3147 81	3BLACKBR	115 .0	DVP	3147 88	3JONESTO	115 .0	DVP	1	DVP_P4-2: 15832	break er	301.0	119.03	119.62	DC	3.9
166980 505	3147 88	3JONESTO	115 .0	DVP	3146 83	3CLRKVILLE	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	301.0	132.81	134.4	DC	4.78
166980 506	3147 88	3JONESTO	115 .0	DVP	3146 83	3CLRKVILLE	115 .0	DVP	1	DVP_P7-1: LN 137-1041	towe r	301.0	116.7	118.29	DC	4.78
174300 042	3147 88	3JONESTO	115 .0	DVP	3146 83	3CLRKVILLE	115 .0	DVP	1	DVP_P4-2: 15832	break er	301.0	117.67	118.25	DC	3.9
166980 523	3148 69	3BURLING	115 .0	DVP	3146 82	3BUGGS I	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	301.0	129.09	130.67	DC	4.78
174300 064	3148 69	3BURLING	115 .0	DVP	3146 82	3BUGGS I	115 .0	DVP	1	DVP_P4-2: 15832	break er	301.0	113.98	114.57	DC	3.9
164101 135	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DVP	1	DVP_P2-2: BREMO B1	bus	406.0	124.64	125.29	DC	5.85
164101 136	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DVP	1	AEP_P2-2_#10265_05L EESVI 138_1	bus	406.0	116.4	117.76	DC	5.54
166980 458	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	141.82	142.52	DC	6.36
166980 459	3161 15	AC1-105 TAP	115 .0	DVP	3146 96	3SEEDGE HILL	115 .0	DVP	1	DVP_P7-1: LN 171-1009	towe r	406.0	137.7	139.37	DC	6.77
174091 826	9364 00	AD2-051 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DVP	1	DVP_P4-2: 23872	break er	699.0	126.37	127.67	DC	9.04
173902 842	9364 80	AD2-063 TAP	115 .0	DVP	3146 79	3CENTRAL	115 .0	DVP	1	DVP_P4-2: 1T158	break er	349.0	103.26	103.72	DC	3.54
163339 540	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	170.71	172.51	DC	14.96
169746 480	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	154.68	156.02	DC	9.44
169746 482	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DVP	1	Base Case	single	678.67999 2676	134.55	135.82	DC	8.59
173104 104	9625 60	AG1-105 TAP	115 .0	DVP	3146 84	3MT LREL	115 .0	DVP	1	DVP_P7-1: LN 158-235	towe r	406.0	127.58	128.28	DC	6.36

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 PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168519010	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVIEW	230.0	DVP	1	314435 6SAPO NY 230 940480 AE2-033 TAP 230 1	operati on	375.059997559	176.35	180.64	DC	16.09
168519011	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVIEW	230.0	DVP	1	DVP_P 1-2: LN 238-A	operati on	375.059997559	176.35	180.64	DC	16.09
175303621	313825	3PLYWOOD	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	DVP_P 1-2: LN 33-A	operati on	141.0	135.49	136.81	DC	4.12
174915498	313898	3BUTCHER CRK	115.0	DVP	962490	AG1-098 TAP	115.0	DVP	1	DVP_P 1-2: LN 84	operati on	269.779998779	99.57	100.29	DC	4.27
168824047	314266	6NORTHAMP TON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P 1-2: LN 238-A	operati on	571.520019531	146.27	147.85	DC	9.04
168824190	314267	3CHASCTY2	115.0	DVP	314669	3BARNS J	115.0	DVP	1	Base Case	operati on	331.820007324	109.46	111.13	DC	5.56
175546973	314267	3CHASCTY2	115.0	DVP	314669	3BARNS J	115.0	DVP	1	DVP_P 1-2: LN 158	operati on	331.820007324	135.96	136.82	DC	6.32
168823875	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 2012-B	operati on	678.679992676	205.65	207.97	DC	15.71
168823877	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operati on	678.679992676	182.15	184.26	DC	14.31
169033919	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P 1-2: LN 68-A	operati on	239.888000488	184.03	184.8	DC	4.11
169033921	314559	3CAROLNA	115.0	DVP	314561	6CAROLNA	230.0	DVP	1	Base Case	operati on	226.539993286	138.76	139.48	DC	3.62
169034024	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	DVP_P 1-2: LN 238-A	operati on	548.020019531	151.19	152.84	DC	9.04
169033865	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P 1-2: LN 2201	operati on	182.641998291	284.7	294.58	DC	18.03
169033866	314562	3CLUBHSE	115.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operati on	176.81401062	226.64	237.72	DC	19.6

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADING %	POST PROJE CT LOADING %	AC/DC	MW IMPACT
168519088	314563	6CLUBHSE	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	3144356SAPO NY 230 940480 AE2-033 TAP 230 1	operation	375.059997559	156.36	160.66	DC	16.11
169033964	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P 1-2: LN 2012-B	operation	678.679992676	169.97	172.29	DC	15.71
169033965	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	operation	678.679992676	165.05	167.17	DC	14.31
175120189	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	DVP_P 1-2: LN 238-B	operation	441.799987793	144.66	145.82	DC	5.1
169034059	314583	6LAKEVEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	3144356SAPO NY 230 940480 AE2-033 TAP 230 1	operation	441.799987793	133.05	135.08	DC	8.95
168824011	314599	6ROA VAL	230.0	DVP	314266	6NORTHAMP TON	230.0	DVP	1	DVP_P 1-2: LN 238-A	operation	548.020019531	151.14	152.79	DC	9.04
175546986	314669	3BARN S J	115.0	DVP	962560	AG1-105 TAP	115.0	DVP	1	DVP_P 1-2: LN 158	operation	331.820007324	134.91	135.77	DC	6.32
175546987	314669	3BARN S J	115.0	DVP	962560	AG1-105 TAP	115.0	DVP	1	Base Case	operation	331.820007324	108.41	110.08	DC	5.56
169244180	314676	3BRUNWICK	115.0	DVP	314704	3LAWRENC	115.0	DVP	1	DVP_P 1-2: LN 158	operation	326.179992676	129.5	138.0	DC	27.72
169244181	314676	3BRUNWICK	115.0	DVP	314704	3LAWRENC	115.0	DVP	1	Base Case	operation	326.179992676	100.67	109.02	DC	27.25
175120049	314677	6BUCKING	230.0	DVP	314747	6BREM O	230.0	DVP	1	DVP_P 1-2: LN 556-B-A	operation	571.520019531	292.25	292.72	DC	6.03
168824051	314681	3CHASCTY	115.0	DVP	314267	3CHASCTY2	115.0	DVP	Z1	DVP_P 1-2: LN 84	operation	449.320007324	130.17	133.17	DC	13.45
175547133	314681	3CHASCTY	115.0	DVP	314781	3BLACKBR	115.0	DVP	1	DVP_P 1-2: LN 33-A	operation	246.279998779	109.53	110.29	DC	4.15
175547135	314683	3CLRKVILLE	115.0	DVP	314869	3BURLING	115.0	DVP	1	DVP_P 1-2: LN 33-A	operation	246.279998779	109.06	109.82	DC	4.15
169244135	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	Base Case	operation	331.820007324	129.81	131.49	DC	5.56
175303596	314684	3MT LREL	115.0	DVP	316115	AC1-105 TAP	115.0	DVP	1	DVP_P 1-2: LN 158	operation	331.820007324	157.1	157.96	DC	6.32
169243862	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	DVP_P 1-2: LN 235-A	operation	182.641998291	443.48	444.81	DC	5.37
169243865	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	2	Base Case	operation	176.81401062	274.97	275.82	DC	3.33
169243876	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	Base Case	operation	193.734008789	202.1	202.73	DC	2.68
175120018	314691	3FARMVIL	115.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P 1-2: LN 298-B	operation	198.057998657	327.38	328.35	DC	4.3

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADING %	POST PROJE CT LOADING %	AC/DC	MW IMPACT
175120034	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	DVP_P 1-2: LN 556-B-A	operation	559.299987793	300.42	300.9	DC	6.03
169244186	314693	3FRMAN D	115.0	DVP	314565	3CLUBHSE71	115.0	DVP	1	DVP_P 1-2: LN 158	operation	326.179992676	128.74	137.24	DC	27.71
169244187	314693	3FRMAN D	115.0	DVP	314565	3CLUBHSE71	115.0	DVP	1	Base Case	operation	326.179992676	99.91	108.26	DC	27.25
169243933	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P 1-2: LN 31-A	operation	226.727996826	196.47	197.25	DC	3.91
169243935	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	Base Case	operation	223.531997681	142.38	143.01	DC	3.11
169243948	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	DVP_P 1-3: 6SEEDGE HILL-TX#1	operation	256.055999756	223.14	224.06	DC	5.22
169243951	314696	3SEEDGE HILL	115.0	DVP	314697	6SEEDGE HILL	230.0	DVP	2	Base Case	operation	253.235992432	124.46	125.01	DC	3.07
163826935	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	DVP_P 1-2: LN 90	operation	199.0	175.61	176.54	DC	4.15
163826936	314702	3KERR	115.0	DVP	304102	3GW KING TAP	115.0	CPL E	1	Base Case	operation	191.0	165.8	166.74	DC	3.99
169244171	314704	3LAWRENC	115.0	DVP	314693	3FRMAN D	115.0	DVP	1	DVP_P 1-2: LN 158	operation	326.179992676	129.78	138.28	DC	27.71
169244172	314704	3LAWRENC	115.0	DVP	314693	3FRMAN D	115.0	DVP	1	Base Case	operation	326.179992676	100.98	109.33	DC	27.25
175547101	314781	3BLACKBR	115.0	DVP	314788	3JONESTO	115.0	DVP	1	DVP_P 1-2: LN 33-A	operation	246.279998779	113.93	114.69	DC	4.15
174716176	314787	2BRUNWICK2	69.0	DVP	314676	3BRUNWICK	115.0	DVP	1	DVP_P 1-2: LN 50-A	operation	40.8899993896	-10.76	103.69	DC	46.8
175547111	314788	3JONESTO	115.0	DVP	314683	3CLRKVILLE	115.0	DVP	1	DVP_P 1-2: LN 33-A	operation	246.279998779	112.27	113.03	DC	4.15
175547070	314869	3BURLING	115.0	DVP	314682	3BUGGS I	115.0	DVP	1	DVP_P 1-2: LN 33-A	operation	224.660003662	118.09	118.92	DC	4.15
169459796	314872	2BRUNSWICK DP	69.0	DVP	314787	2BRUNWICK2	69.0	DVP	1	Base Case	operation	30.0799999237	-41.22	114.36	DC	46.8
174716058	314872	2BRUNSWICK DP	69.0	DVP	314787	2BRUNWICK2	69.0	DVP	1	DVP_P 1-2: LN 50-A	operation	30.0799999237	-14.3	141.29	DC	46.8
169459596	316115	AC1-105 TAP	115.0	DVP	314696	3SEEDGE HILL	115.0	DVP	1	Base Case	operation	331.820007324	141.41	143.08	DC	5.56
168518951	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P 1-2: LN 238-B	operation	441.799987793	157.91	159.06	DC	5.1
168518955	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	Base Case	operation	441.799987793	107.77	108.22	DC	4.46
169034016	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P 1-2: LN 238-A	operation	571.520019531	153.99	155.58	DC	9.04
174915353	936480	AD2-063 TAP	115.0	DVP	314679	3CENTRAL	115.0	DVP	1	DVP_P 1-2: LN 158	operation	269.779998779	133.49	134.08	DC	3.54
169746920	939180	AE1-148 TAP	115.0	DVP	314702	3KERR	115.0	DVP	1	DVP_P 1-2: LN 171	operation	325.804016113	110.3	110.81	DC	3.69
169746477	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P 1-2: LN 2012-B	operation	678.679992676	206.77	209.09	DC	15.71

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 PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169746479	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operation	678.679992676	186.58	188.69	DC	14.31
169244131	961890	AG1-030 TAP	115.0	DVP	314706	3MARTIN TAP	115.0	DVP	1	Base Case	operation	247.220001221	113.32	113.94	DC	3.41
174915456	962490	AG1-098 TAP	115.0	DVP	964930	AG1-357 TAP	115.0	DVP	1	DVP_P 1-2: LN 84	operation	269.779998779	109.25	109.96	DC	4.27
175546896	962560	AG1-105 TAP	115.0	DVP	314684	3MT LREL	115.0	DVP	1	DVP_P 1-2: LN 158	operation	331.820007324	151.38	152.24	DC	6.32
175546897	962560	AG1-105 TAP	115.0	DVP	314684	3MT LREL	115.0	DVP	1	Base Case	operation	331.820007324	124.96	126.63	DC	5.56
174716015	965600	AG1-428 TAP	69.0	DVP	314872	2BRUNSWICK DP	69.0	DVP	1	DVP_P 1-2: LN 50-A	operation	30.0799999237	0.0	155.59	DC	46.8
174716016	965600	AG1-428 TAP	69.0	DVP	314872	2BRUNSWICK DP	69.0	DVP	1	Base Case	operation	30.0799999237	-26.6	128.99	DC	46.8
175120042	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P 1-2: LN 556-B-A	operation	559.299987793	296.52	297.01	DC	6.03

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
166980489	313705	3KERRDP	DVP	314702	3KERR	DVP	1	DVP_P7-1: LN 171-1009	tower	195.0	130.19	130.74	DC	2.36

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

13.5.2 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
173902639	313725	6DRY BREAD	DVP	314583	6LAKEVEW	DVP	1	DVP_P4-2: 23872	breaker	459.0	144.16	147.67	DC	16.09

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

13.5.3 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
168518814	313755	3FLAT CREEK	DVP	314707	3MORAN	DVP	1	Base Case	single	203.98	141.34	142.34	DC	2.04

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4009	80/20	0.4009
314429	3JTRSVLE	1.3977	80/20	1.3977
314704	3LAWRENC	0.1117	80/20	0.1117
315158	1KERR 1	0.1906	80/20	0.1906
315159	1KERR 2	0.5337	80/20	0.5337
315160	1KERR 3	0.5337	80/20	0.5337
315161	1KERR 4	0.5337	80/20	0.5337
315162	1KERR 5	0.5337	80/20	0.5337
315163	1KERR 6	0.5337	80/20	0.5337
315164	1KERR 7	0.5337	80/20	0.5337
316118	AC1-105 C	1.8185	80/20	1.8185
316129	AC1-054 C	2.5725	80/20	2.5725
316131	AB2-060 C	1.2911	80/20	1.2911
924301	AB2-077 C O1 (Suspended)	1.5502	80/20	1.5502
924311	AB2-078 C O1 (Suspended)	1.5502	80/20	1.5502
924321	AB2-079 C O1 (Suspended)	1.5502	80/20	1.5502
925611	AC1-036 C	0.0731	80/20	0.0731
936265	AD2-033 C	24.7221	80/20	24.7221
936361	AD2-046 C O1	4.9041	80/20	4.9041
936485	AD2-063 C	9.3060	80/20	9.3060
939181	AE1-148 C	4.9324	80/20	4.9324
940661	AE2-053 O1	1.8268	80/20	1.8268
942451	AE2-258	1.8956	80/20	1.8956
943911	AF1-059	8.9330	80/20	8.9330
946301	AF1-294 C	14.1193	80/20	14.1193
958211	AF2-115 C	8.3055	80/20	8.3055
961791	AG1-021 C	6.6444	80/20	6.6444
961891	AG1-030 C	43.7661	80/20	43.7661
962041	AG1-048 C	41.5275	80/20	41.5275
962491	AG1-098 C O2	13.4153	80/20	13.4153
962561	AG1-105 C O2	5.0280	80/20	5.0280
963171	AG1-166 C	6.6444	80/20	6.6444
963181	AG1-167 C	6.6444	80/20	6.6444
963191	AG1-168 C	6.6444	80/20	6.6444
963201	AG1-169 C	6.6444	80/20	6.6444
963211	AG1-170 C	6.6444	80/20	6.6444
963301	AG1-179 C	2.4494	80/20	2.4494
963311	AG1-180	1.1934	80/20	1.1934
963321	AG1-181 C O2	6.1776	80/20	6.1776

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O2	2.9889	80/20	2.9889
963641	AG1-215 C	3.1007	80/20	3.1007
964111	AG1-272 C	0.8308	80/20	0.8308
964121	AG1-273 C	0.8308	80/20	0.8308
964131	AG1-274 C	0.8308	80/20	0.8308
964791	AG1-342 C	1.8711	80/20	1.8711
964821	AG1-345 C	2.6467	80/20	2.6467
964931	AG1-357 C O2	26.1900	80/20	26.1900
965191	AG1-384 C	0.8308	80/20	0.8308
965281	AG1-393 C	6.6444	80/20	6.6444
965451	AG1-413 C O2	3.9131	80/20	3.9131
965591	AG1-427 C	7.8857	80/20	7.8857
965601	AG1-428 C O2	2.0448	80/20	2.0448
965721	AG1-440 C	3.2508	80/20	3.2508
965731	AG1-441 C	3.2508	80/20	3.2508
965771	AG1-445	1.8782	80/20	1.8782
965781	AG1-446	1.8782	80/20	1.8782
966751	AG1-546 C	5.3496	80/20	5.3496
WEC	WEC	0.0372	Confirmed LTF	0.0372
LGEE	LGEE	0.0760	Confirmed LTF	0.0760
CPL	CPL	0.5255	Confirmed LTF	0.5255
CBM-W2	CBM-W2	1.7830	Confirmed LTF	1.7830
NY	NY	0.0553	Confirmed LTF	0.0553
TVA	TVA	0.3458	Confirmed LTF	0.3458
SIGE	SIGE	0.0256	Confirmed LTF	0.0256
CBM-S2	CBM-S2	5.8255	Confirmed LTF	5.8255
CBM-S1	CBM-S1	0.0851	Confirmed LTF	0.0851
MEC	MEC	0.2320	Confirmed LTF	0.2320
LAGN	LAGN	0.4305	Confirmed LTF	0.4305
CBM-W1	CBM-W1	1.5422	Confirmed LTF	1.5422

13.5.4 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
175303622	313825	3PLYWOOD	DVP	314696	3SEdge HILL	DVP	1	DVP_P1-2: LN 33-A	single	141.0	127.84	129.59	DC	2.47

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

13.5.5 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
174300038	314266	6NORTHAMPTON	DVP	936400	AD2-051 TAP	DVP	1	DVP_P4-2: 23872	breaker	699.0	120.05	121.34	DC	9.04

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

13.5.6 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
174475406	314267	3CHASCTY2	DVP	314669	3BARN J	DVP	1	DVP_P4-2: 15832	breaker	406.0	155.96	156.78	DC	7.4

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.8838	50/50	0.8838
313853	3PONTOND	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

13.5.7 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
174300003	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P4-2: 24972-4	breaker	830.0	130.33	131.67	DC	11.07

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
962572	AG1-106 E	3.8033	50/50	3.8033

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
SIGE	SIGE	0.1578	Confirmed LTF	0.1578
CBM-S2	CBM-S2	30.9024	Confirmed LTF	30.9024

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.8 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
174299890	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	176.94	178.5	DC	8.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	8.1766	50/50	8.1766
313719	3CHESTNUT	0.7736	50/50	0.7736
314331	6POE	7.0021	50/50	7.0021
314435	6SAPONY	0.9033	50/50	0.9033
314539	3UNCAMP	2.7703	Adder	3.26
314541	3WATKINS	0.3383	Adder	0.4
314572	3EMPORIA	0.5739	50/50	0.5739
314582	3KELFORD	0.2317	50/50	0.2317
314589	3MURPHYS	0.0570	50/50	0.0570
314623	3WITAKRS	0.1376	50/50	0.1376
314704	3LAWRENC	0.3366	50/50	0.3366
315115	1S HAMPT1	0.8414	50/50	0.8414
315126	1ROARAP2	1.2213	50/50	1.2213
315128	1ROARAP4	1.1655	50/50	1.1655
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.8570	Adder	5.71
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.8570	Adder	5.71
315136	1ROSEMG1	2.1541	50/50	2.1541
315137	1ROSEMS1	1.3357	50/50	1.3357
315138	1ROSEMG2	1.0095	50/50	1.0095
315139	1GASTONA	3.2852	50/50	3.2852
315141	1GASTONB	3.2852	50/50	3.2852
315606	3AA2-053SOLA	1.2534	50/50	1.2534
315607	3AA1-063SOLA	1.1137	50/50	1.1137
315608	3AA2-088SOLA	0.6785	50/50	0.6785
316083	AB2-161 C	5.1370	50/50	5.1370
316084	AB2-161 E	8.3815	50/50	8.3815
316087	AB2-174 C	1.4069	50/50	1.4069
316088	AB2-174 E	8.0682	50/50	8.0682
316096	AB2-100 C1	1.5598	50/50	1.5598
316097	AB2-100 E1	4.8696	50/50	4.8696
316098	AB2-100 C2	1.5598	50/50	1.5598
316099	AB2-100 E2	4.8696	50/50	4.8696
316103	AB2-015 C	4.1157	Adder	4.84
316104	AB2-015 E	3.3749	Adder	3.97
316129	AC1-054 C	5.2595	50/50	5.2595
316140	AB2-099 C (Suspended)	0.3706	50/50	0.3706
316141	AB2-099 E (Suspended)	0.1588	50/50	0.1588
900672	V4-068 E	0.1979	50/50	0.1979
917332	Z2-043 E	0.6912	50/50	0.6912
917342	Z2-044 E	0.3738	50/50	0.3738

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
917512	Z2-088 E OP1	3.8285	Adder	4.5
918492	AA1-063AE OP	3.3286	50/50	3.3286
918512	AA1-065 E OP	1.9223	Adder	2.26
918532	AA1-067 E	0.3175	Adder	0.37
919692	AA2-053 E OP	3.2618	50/50	3.2618
919702	AA2-057 E OP	2.3145	50/50	2.3145
920042	AA2-088 E OP	7.0165	50/50	7.0165
920591	AA2-165 C	0.1038	50/50	0.1038
920592	AA2-165 E	0.3181	50/50	0.3181
922923	AB1-081 E OP	1.9980	Adder	2.35
923262	AB1-132 C OP (Suspended)	15.9012	50/50	15.9012
923263	AB1-132 E OP (Suspended)	6.8148	50/50	6.8148
923573	AB1-173 E OP	1.2751	50/50	1.2751
923852	AB2-025 E	2.5723	50/50	2.5723
923991	AB2-040 C O1	8.9052	50/50	8.9052
923992	AB2-040 E O1	7.2860	50/50	7.2860
924022	AB2-043 E O1	1.1824	Adder	1.39
924152	AB2-059 E OP	2.8305	Adder	3.33
924162	AB2-060 E OP	1.7632	Adder	2.07
924301	AB2-077 C O1 (Suspended)	0.8309	Adder	0.98
924302	AB2-077 E O1 (Suspended)	0.5539	Adder	0.65
924311	AB2-078 C O1 (Suspended)	0.8309	Adder	0.98
924312	AB2-078 E O1 (Suspended)	0.5539	Adder	0.65
924321	AB2-079 C O1 (Suspended)	0.8309	Adder	0.98
924322	AB2-079 E O1 (Suspended)	0.5539	Adder	0.65
925122	AB2-169 E	2.2878	Adder	2.69
925591	AC1-034 C	3.5589	Adder	4.19
925592	AC1-034 E	2.6848	Adder	3.16
925785	AC1-054 E	2.4229	50/50	2.4229
926070	AC1-086 C	23.4164	50/50	23.4164
926071	AC1-086 E	10.6576	50/50	10.6576
926201	AC1-098 C	4.3270	50/50	4.3270
926202	AC1-098 E	2.5778	50/50	2.5778
926211	AC1-099 C	1.4500	50/50	1.4500
926212	AC1-099 E	0.8516	50/50	0.8516
927024	AC1-189 C	4.0066	Adder	4.71
927025	AC1-189 E	1.9958	Adder	2.35
927145	AC1-208 C	6.7544	50/50	6.7544
927146	AC1-208 E	2.9870	50/50	2.9870
932581	AC2-078 C O1	6.3117	50/50	6.3117
932582	AC2-078 E O1	10.2981	50/50	10.2981
932591	AC2-079 C O1	5.7113	50/50	5.7113
932592	AC2-079 E O1	9.3184	50/50	9.3184
932631	AC2-084 C	6.1683	50/50	6.1683
932632	AC2-084 E	3.0381	50/50	3.0381

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933991	AD1-023 C	5.0927	Adder	5.99
933992	AD1-023 E	2.7725	Adder	3.26
934331	AD1-057 C O1	8.4901	50/50	8.4901
934332	AD1-057 E O1	4.5290	50/50	4.5290
934575	AD1-082 C	11.7070	50/50	11.7070
934576	AD1-082 E	6.6781	50/50	6.6781
936361	AD2-046 C O1	4.1242	Adder	4.85
936362	AD2-046 E O1	1.8965	Adder	2.23
936401	AD2-051 C O1	4.3110	Adder	5.07
936402	AD2-051 E O1	1.8511	Adder	2.18
936485	AD2-063 C	5.7796	Adder	6.8
936486	AD2-063 E	3.8531	Adder	4.53
936661	AD2-085 C	2.5365	50/50	2.5365
936662	AD2-085 E	4.1384	50/50	4.1384
938222	AE1-035 E	0.5286	Adder	0.62
938634	AE1-085 C	14.1165	50/50	14.1165
938635	AE1-085 E	7.0583	50/50	7.0583
938771	AE1-103 C	1.5872	Adder	1.87
938772	AE1-103 E	2.1919	Adder	2.58
939181	AE1-148 C	4.0521	Adder	4.77
939182	AE1-148 E	2.7014	Adder	3.18
939195	AE1-149 C	18.5958	50/50	18.5958
939196	AE1-149 E	12.3972	50/50	12.3972
940061	AE2-000BC O1	15.5706	50/50	15.5706
940062	AE2-000BE O1	10.3804	50/50	10.3804
940481	AE2-033 C	35.5252	50/50	35.5252
940482	AE2-033 E	23.9496	50/50	23.9496
940541	AE2-040	6.5136	50/50	6.5136
940571	AE2-044 C	2.3310	Adder	2.74
940572	AE2-044 E	0.9990	Adder	1.18
940651	AE2-052	6.1986	50/50	6.1986
940661	AE2-053 O1	1.5008	Adder	1.77
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1066	50/50	0.1066
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.3639	50/50	0.3639
942161	AE2-228 C	-1.1943	Adder	-1.41
942341	AE2-247 C	1.1069	50/50	1.1069
942342	AE2-247 E	1.5285	50/50	1.5285
942451	AE2-258	0.9865	Adder	1.16
942471	AE2-260 C O1	25.5014	50/50	25.5014
942472	AE2-260 E O1	36.1706	50/50	36.1706
943171	AE2-346 C	0.8896	50/50	0.8896
943172	AE2-346 E	0.3812	50/50	0.3812
943461	AF1-017 C	1.0015	50/50	1.0015
943462	AF1-017 E	1.6339	50/50	1.6339
943911	AF1-059	15.1836	50/50	15.1836
944141	AF1-082	1.4985	Adder	1.76
946011	AF1-266	29.7374	50/50	29.7374
946261	AF1-291 C	-1.5795	Adder	-1.86
946281	AF1-292 C	2.1397	50/50	2.1397
946282	AF1-292 E	1.4425	50/50	1.4425
957521	AF2-046 C	11.0479	50/50	11.0479

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957522	AF2-046 E	5.5571	50/50	5.5571
957861	AF2-080 C	3.6389	Adder	4.28
957862	AF2-080 E	1.6131	Adder	1.9
958142	AF2-108 BAT	0.6460	Merchant Transmission	0.6460
959511	AF2-242 C	3.0221	Adder	3.56
959512	AF2-242 E	2.3505	Adder	2.77
959651	AF2-256 C	-0.2986	Adder	-0.35
960081	AF2-299 C	3.6063	50/50	3.6063
960082	AF2-299 E	2.4042	50/50	2.4042
961091	AF2-400 C	0.2222	Adder	0.26
961092	AF2-400 E	0.3647	Adder	0.43
961671	AG1-007 C	0.3219	Adder	0.71
961672	AG1-007 E	0.1798	Adder	0.4
961681	AG1-008 C	11.0700	50/50	11.0700
961682	AG1-008 E	5.5350	50/50	5.5350
961851	AG1-027 C	3.3326	Adder	7.4
961852	AG1-027 E	1.8423	Adder	4.09
961931	AG1-036 C	0.8760	50/50	0.8760
961932	AG1-036 E	0.5840	50/50	0.5840
961941	AG1-037 C	0.3177	50/50	0.3177
961942	AG1-037 E	0.2118	50/50	0.2118
962271	AG1-075 C O2	37.2017	50/50	37.2017
962272	AG1-075 E O2	22.6723	50/50	22.6723
962331	AG1-082 C	1.2708	50/50	1.2708
962332	AG1-082 E	0.8472	50/50	0.8472
962341	AG1-083 C	1.2708	50/50	1.2708
962342	AG1-083 E	0.8472	50/50	0.8472
962351	AG1-084 C	1.0916	50/50	1.0916
962352	AG1-084 E	0.7277	50/50	0.7277
962361	AG1-085 C	1.0916	50/50	1.0916
962362	AG1-085 E	0.7277	50/50	0.7277
962491	AG1-098 C O2	2.6635	Adder	5.91
962492	AG1-098 E O2	1.7756	Adder	3.94
962571	AG1-106 C	6.5119	50/50	6.5119
962572	AG1-106 E	2.9531	50/50	2.9531
963301	AG1-179 C	6.0793	50/50	6.0793
963311	AG1-180	2.9620	50/50	2.9620
964491	AG1-312 C O1	4.6379	Adder	10.3
964492	AG1-312 E O1	1.1595	Adder	2.57
964501	AG1-313 C O2	3.6840	50/50	3.6840
964502	AG1-313 E O2	2.4560	50/50	2.4560
964801	AG1-343 C	4.0159	50/50	4.0159
964802	AG1-343 E	3.1553	50/50	3.1553
964931	AG1-357 C O2	4.0961	Adder	9.09
964932	AG1-357 E O2	2.7308	Adder	6.06
965291	AG1-394 C	1.3842	50/50	1.3842
965292	AG1-394 E	0.9228	50/50	0.9228
965451	AG1-413 C O2	6.1307	50/50	6.1307
965452	AG1-413 E O2	4.0872	50/50	4.0872
965591	AG1-427 C	2.4724	Adder	5.49
965592	AG1-427 E	1.6518	Adder	3.67
965601	AG1-428 C O2	5.0751	50/50	5.0751

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965602	AG1-428 E O2	3.3774	50/50	3.3774
965691	AG1-437 C O1	2.2143	Adder	4.92
965692	AG1-437 E O1	1.4762	Adder	3.28
965701	AG1-438 C O1	2.2143	Adder	4.92
965702	AG1-438 E O1	1.4762	Adder	3.28
965711	AG1-439 C O1	6.1365	Adder	13.62
965712	AG1-439 E O1	4.0910	Adder	9.08
965721	AG1-440 C	4.5077	50/50	4.5077
965722	AG1-440 E	3.0051	50/50	3.0051
965731	AG1-441 C	4.5077	50/50	4.5077
965732	AG1-441 E	3.0051	50/50	3.0051
965741	AG1-442 O1	1.2917	Adder	2.87
965751	AG1-443 O1	1.2917	Adder	2.87
965761	AG1-444 O1	3.2728	Adder	7.26
965771	AG1-445	2.6044	50/50	2.6044
965781	AG1-446	2.6044	50/50	2.6044
966621	AG1-532 C	1.9474	50/50	1.9474
966622	AG1-532 E	1.2983	50/50	1.2983
966731	AG1-544 C	11.0250	50/50	11.0250
966732	AG1-544 E	5.9148	50/50	5.9148
966741	AG1-545 C	3.6422	50/50	3.6422
966742	AG1-545 E	1.9526	50/50	1.9526
966751	AG1-546 C	11.9048	50/50	11.9048
966752	AG1-546 E	6.3877	50/50	6.3877
966801	AG1-551 C	0.5102	Adder	1.13
966802	AG1-551 E	0.2186	Adder	0.49
966811	AG1-552 C	1.9391	50/50	1.9391
966812	AG1-552 E	0.8311	50/50	0.8311
WEC	WEC	0.2082	Confirmed LTF	0.2082
LGEE	LGEE	0.4272	Confirmed LTF	0.4272
CPL	CPL	2.3997	Confirmed LTF	2.3997
CBM-W2	CBM-W2	9.1840	Confirmed LTF	9.1840
NY	NY	0.2826	Confirmed LTF	0.2826
TVA	TVA	1.7346	Confirmed LTF	1.7346
O-066	O-066	3.9842	Confirmed LTF	3.9842
SIGE	SIGE	0.1386	Confirmed LTF	0.1386
CBM-S2	CBM-S2	26.9561	Confirmed LTF	26.9561
CBM-S1	CBM-S1	0.4324	Confirmed LTF	0.4324
G-007	G-007	0.6268	Confirmed LTF	0.6268
MEC	MEC	1.2505	Confirmed LTF	1.2505
LAGN	LAGN	2.1595	Confirmed LTF	2.1595
AA2-074	AA2-074	1.5849	LTF	1.5849
CBM-W1	CBM-W1	8.7064	Confirmed LTF	8.7064

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
174299889	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	176.95	178.52	DC	8.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	8.1766	50/50	8.1766
313719	3CHESTNUT	0.7736	50/50	0.7736
314331	6POE	7.0021	50/50	7.0021
314435	6SAPONY	0.9033	50/50	0.9033
314539	3UNCAMP	2.7703	Adder	3.26
314541	3WATKINS	0.3383	Adder	0.4
314572	3EMPORIA	0.5739	50/50	0.5739
314582	3KELFORD	0.2317	50/50	0.2317
314589	3MURPHYS	0.0570	50/50	0.0570
314623	3WITAKRS	0.1376	50/50	0.1376
314704	3LAWRENC	0.3366	50/50	0.3366
315115	1S HAMPT1	0.8414	50/50	0.8414
315126	1ROARAP2	1.2213	50/50	1.2213
315128	1ROARAP4	1.1655	50/50	1.1655
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.8570	Adder	5.71
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.8570	Adder	5.71
315136	1ROSEMG1	2.1541	50/50	2.1541
315137	1ROSEMS1	1.3357	50/50	1.3357
315138	1ROSEMG2	1.0095	50/50	1.0095
315139	1GASTONA	3.2852	50/50	3.2852
315141	1GASTONB	3.2852	50/50	3.2852
315606	3AA2-053SOLA	1.2534	50/50	1.2534
315607	3AA1-063SOLA	1.1137	50/50	1.1137
315608	3AA2-088SOLA	0.6785	50/50	0.6785
316083	AB2-161 C	5.1370	50/50	5.1370
316084	AB2-161 E	8.3815	50/50	8.3815
316087	AB2-174 C	1.4069	50/50	1.4069
316088	AB2-174 E	8.0682	50/50	8.0682
316096	AB2-100 C1	1.5598	50/50	1.5598
316097	AB2-100 E1	4.8696	50/50	4.8696
316098	AB2-100 C2	1.5598	50/50	1.5598
316099	AB2-100 E2	4.8696	50/50	4.8696
316103	AB2-015 C	4.1157	Adder	4.84
316104	AB2-015 E	3.3749	Adder	3.97
316129	AC1-054 C	5.2595	50/50	5.2595
316140	AB2-099 C (Suspended)	0.3706	50/50	0.3706
316141	AB2-099 E (Suspended)	0.1588	50/50	0.1588
900672	V4-068 E	0.1979	50/50	0.1979
917332	Z2-043 E	0.6912	50/50	0.6912
917342	Z2-044 E	0.3738	50/50	0.3738

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
917512	Z2-088 E OP1	3.8285	Adder	4.5
918492	AA1-063AE OP	3.3286	50/50	3.3286
918512	AA1-065 E OP	1.9223	Adder	2.26
918532	AA1-067 E	0.3175	Adder	0.37
919692	AA2-053 E OP	3.2618	50/50	3.2618
919702	AA2-057 E OP	2.3145	50/50	2.3145
920042	AA2-088 E OP	7.0165	50/50	7.0165
920591	AA2-165 C	0.1038	50/50	0.1038
920592	AA2-165 E	0.3181	50/50	0.3181
922923	AB1-081 E OP	1.9980	Adder	2.35
923262	AB1-132 C OP (Suspended)	15.9012	50/50	15.9012
923263	AB1-132 E OP (Suspended)	6.8148	50/50	6.8148
923573	AB1-173 E OP	1.2751	50/50	1.2751
923852	AB2-025 E	2.5723	50/50	2.5723
923991	AB2-040 C O1	8.9052	50/50	8.9052
923992	AB2-040 E O1	7.2860	50/50	7.2860
924022	AB2-043 E O1	1.1824	Adder	1.39
924152	AB2-059 E OP	2.8305	Adder	3.33
924162	AB2-060 E OP	1.7632	Adder	2.07
924301	AB2-077 C O1 (Suspended)	0.8309	Adder	0.98
924302	AB2-077 E O1 (Suspended)	0.5539	Adder	0.65
924311	AB2-078 C O1 (Suspended)	0.8309	Adder	0.98
924312	AB2-078 E O1 (Suspended)	0.5539	Adder	0.65
924321	AB2-079 C O1 (Suspended)	0.8309	Adder	0.98
924322	AB2-079 E O1 (Suspended)	0.5539	Adder	0.65
925122	AB2-169 E	2.2878	Adder	2.69
925591	AC1-034 C	3.5589	Adder	4.19
925592	AC1-034 E	2.6848	Adder	3.16
925785	AC1-054 E	2.4229	50/50	2.4229
926070	AC1-086 C	23.4164	50/50	23.4164
926071	AC1-086 E	10.6576	50/50	10.6576
926201	AC1-098 C	4.3270	50/50	4.3270
926202	AC1-098 E	2.5778	50/50	2.5778
926211	AC1-099 C	1.4500	50/50	1.4500
926212	AC1-099 E	0.8516	50/50	0.8516
927024	AC1-189 C	4.0066	Adder	4.71
927025	AC1-189 E	1.9958	Adder	2.35
927145	AC1-208 C	6.7544	50/50	6.7544
927146	AC1-208 E	2.9870	50/50	2.9870
932581	AC2-078 C O1	6.3117	50/50	6.3117
932582	AC2-078 E O1	10.2981	50/50	10.2981
932591	AC2-079 C O1	5.7113	50/50	5.7113
932592	AC2-079 E O1	9.3184	50/50	9.3184
932631	AC2-084 C	6.1683	50/50	6.1683
932632	AC2-084 E	3.0381	50/50	3.0381

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933991	AD1-023 C	5.0927	Adder	5.99
933992	AD1-023 E	2.7725	Adder	3.26
934331	AD1-057 C O1	8.4901	50/50	8.4901
934332	AD1-057 E O1	4.5290	50/50	4.5290
934575	AD1-082 C	11.7070	50/50	11.7070
934576	AD1-082 E	6.6781	50/50	6.6781
936361	AD2-046 C O1	4.1242	Adder	4.85
936362	AD2-046 E O1	1.8965	Adder	2.23
936401	AD2-051 C O1	4.3110	Adder	5.07
936402	AD2-051 E O1	1.8511	Adder	2.18
936485	AD2-063 C	5.7796	Adder	6.8
936486	AD2-063 E	3.8531	Adder	4.53
936661	AD2-085 C	2.5365	50/50	2.5365
936662	AD2-085 E	4.1384	50/50	4.1384
938222	AE1-035 E	0.5286	Adder	0.62
938634	AE1-085 C	14.1165	50/50	14.1165
938635	AE1-085 E	7.0583	50/50	7.0583
938771	AE1-103 C	1.5872	Adder	1.87
938772	AE1-103 E	2.1919	Adder	2.58
939181	AE1-148 C	4.0521	Adder	4.77
939182	AE1-148 E	2.7014	Adder	3.18
939195	AE1-149 C	18.5958	50/50	18.5958
939196	AE1-149 E	12.3972	50/50	12.3972
940061	AE2-000BC O1	15.5706	50/50	15.5706
940062	AE2-000BE O1	10.3804	50/50	10.3804
940481	AE2-033 C	35.5252	50/50	35.5252
940482	AE2-033 E	23.9496	50/50	23.9496
940541	AE2-040	6.5136	50/50	6.5136
940571	AE2-044 C	2.3310	Adder	2.74
940572	AE2-044 E	0.9990	Adder	1.18
940651	AE2-052	6.1986	50/50	6.1986
940661	AE2-053 O1	1.5008	Adder	1.77
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1066	50/50	0.1066
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.3639	50/50	0.3639
942161	AE2-228 C	-1.1943	Adder	-1.41
942341	AE2-247 C	1.1069	50/50	1.1069
942342	AE2-247 E	1.5285	50/50	1.5285
942451	AE2-258	0.9865	Adder	1.16
942471	AE2-260 C O1	25.5014	50/50	25.5014
942472	AE2-260 E O1	36.1706	50/50	36.1706
943171	AE2-346 C	0.8896	50/50	0.8896
943172	AE2-346 E	0.3812	50/50	0.3812
943461	AF1-017 C	1.0015	50/50	1.0015
943462	AF1-017 E	1.6339	50/50	1.6339
943911	AF1-059	15.1836	50/50	15.1836
944141	AF1-082	1.4985	Adder	1.76
946011	AF1-266	29.7374	50/50	29.7374
946261	AF1-291 C	-1.5795	Adder	-1.86
946281	AF1-292 C	2.1397	50/50	2.1397
946282	AF1-292 E	1.4425	50/50	1.4425
957521	AF2-046 C	11.0479	50/50	11.0479

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957522	AF2-046 E	5.5571	50/50	5.5571
957861	AF2-080 C	3.6389	Adder	4.28
957862	AF2-080 E	1.6131	Adder	1.9
958142	AF2-108 BAT	0.6460	Merchant Transmission	0.6460
959511	AF2-242 C	3.0221	Adder	3.56
959512	AF2-242 E	2.3505	Adder	2.77
959651	AF2-256 C	-0.2986	Adder	-0.35
960081	AF2-299 C	3.6063	50/50	3.6063
960082	AF2-299 E	2.4042	50/50	2.4042
961091	AF2-400 C	0.2222	Adder	0.26
961092	AF2-400 E	0.3647	Adder	0.43
961671	AG1-007 C	0.3219	Adder	0.71
961672	AG1-007 E	0.1798	Adder	0.4
961681	AG1-008 C	11.0700	50/50	11.0700
961682	AG1-008 E	5.5350	50/50	5.5350
961851	AG1-027 C	3.3326	Adder	7.4
961852	AG1-027 E	1.8423	Adder	4.09
961931	AG1-036 C	0.8760	50/50	0.8760
961932	AG1-036 E	0.5840	50/50	0.5840
961941	AG1-037 C	0.3177	50/50	0.3177
961942	AG1-037 E	0.2118	50/50	0.2118
962271	AG1-075 C O2	37.2017	50/50	37.2017
962272	AG1-075 E O2	22.6723	50/50	22.6723
962331	AG1-082 C	1.2708	50/50	1.2708
962332	AG1-082 E	0.8472	50/50	0.8472
962341	AG1-083 C	1.2708	50/50	1.2708
962342	AG1-083 E	0.8472	50/50	0.8472
962351	AG1-084 C	1.0916	50/50	1.0916
962352	AG1-084 E	0.7277	50/50	0.7277
962361	AG1-085 C	1.0916	50/50	1.0916
962362	AG1-085 E	0.7277	50/50	0.7277
962491	AG1-098 C O2	2.6635	Adder	5.91
962492	AG1-098 E O2	1.7756	Adder	3.94
962571	AG1-106 C	6.5119	50/50	6.5119
962572	AG1-106 E	2.9531	50/50	2.9531
963301	AG1-179 C	6.0793	50/50	6.0793
963311	AG1-180	2.9620	50/50	2.9620
964491	AG1-312 C O1	4.6379	Adder	10.3
964492	AG1-312 E O1	1.1595	Adder	2.57
964501	AG1-313 C O2	3.6840	50/50	3.6840
964502	AG1-313 E O2	2.4560	50/50	2.4560
964801	AG1-343 C	4.0159	50/50	4.0159
964802	AG1-343 E	3.1553	50/50	3.1553
964931	AG1-357 C O2	4.0961	Adder	9.09
964932	AG1-357 E O2	2.7308	Adder	6.06
965291	AG1-394 C	1.3842	50/50	1.3842
965292	AG1-394 E	0.9228	50/50	0.9228
965451	AG1-413 C O2	6.1307	50/50	6.1307
965452	AG1-413 E O2	4.0872	50/50	4.0872
965591	AG1-427 C	2.4724	Adder	5.49
965592	AG1-427 E	1.6518	Adder	3.67
965601	AG1-428 C O2	5.0751	50/50	5.0751

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965602	AG1-428 E O2	3.3774	50/50	3.3774
965691	AG1-437 C O1	2.2143	Adder	4.92
965692	AG1-437 E O1	1.4762	Adder	3.28
965701	AG1-438 C O1	2.2143	Adder	4.92
965702	AG1-438 E O1	1.4762	Adder	3.28
965711	AG1-439 C O1	6.1365	Adder	13.62
965712	AG1-439 E O1	4.0910	Adder	9.08
965721	AG1-440 C	4.5077	50/50	4.5077
965722	AG1-440 E	3.0051	50/50	3.0051
965731	AG1-441 C	4.5077	50/50	4.5077
965732	AG1-441 E	3.0051	50/50	3.0051
965741	AG1-442 O1	1.2917	Adder	2.87
965751	AG1-443 O1	1.2917	Adder	2.87
965761	AG1-444 O1	3.2728	Adder	7.26
965771	AG1-445	2.6044	50/50	2.6044
965781	AG1-446	2.6044	50/50	2.6044
966621	AG1-532 C	1.9474	50/50	1.9474
966622	AG1-532 E	1.2983	50/50	1.2983
966731	AG1-544 C	11.0250	50/50	11.0250
966732	AG1-544 E	5.9148	50/50	5.9148
966741	AG1-545 C	3.6422	50/50	3.6422
966742	AG1-545 E	1.9526	50/50	1.9526
966751	AG1-546 C	11.9048	50/50	11.9048
966752	AG1-546 E	6.3877	50/50	6.3877
966801	AG1-551 C	0.5102	Adder	1.13
966802	AG1-551 E	0.2186	Adder	0.49
966811	AG1-552 C	1.9391	50/50	1.9391
966812	AG1-552 E	0.8311	50/50	0.8311
WEC	WEC	0.2082	Confirmed LTF	0.2082
LGEE	LGEE	0.4272	Confirmed LTF	0.4272
CPL	CPL	2.3997	Confirmed LTF	2.3997
CBM-W2	CBM-W2	9.1840	Confirmed LTF	9.1840
NY	NY	0.2826	Confirmed LTF	0.2826
TVA	TVA	1.7346	Confirmed LTF	1.7346
O-066	O-066	3.9842	Confirmed LTF	3.9842
SIGE	SIGE	0.1386	Confirmed LTF	0.1386
CBM-S2	CBM-S2	26.9561	Confirmed LTF	26.9561
CBM-S1	CBM-S1	0.4324	Confirmed LTF	0.4324
G-007	G-007	0.6268	Confirmed LTF	0.6268
MEC	MEC	1.2505	Confirmed LTF	1.2505
LAGN	LAGN	2.1595	Confirmed LTF	2.1595
AA2-074	AA2-074	1.5849	LTF	1.5849
CBM-W1	CBM-W1	8.7064	Confirmed LTF	8.7064

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
168823878	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P1-2: LN 2012-B	single	678.68	157.38	158.77	DC	9.43

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
CPLE	CPLE	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

13.5.11 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
174299888	314559	3CAROLNA	DVP	314561	6CAROLNA	DVP	1	DVP_P4-2: L5T68	breaker	288.6	166.21	166.85	DC	4.11

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

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

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

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

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
174091833	314561	6CAROLNA	DVP	314599	6ROA VAL	DVP	1	DVP_P4-2: 23872	breaker	671.0	123.97	125.32	DC	9.04

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

13.5.13 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
169033867	314562	3CLUBHSE	DVP	314563	6CLUBHSE	DVP	1	DVP_P1-2: LN 2201	single	182.64	228.39	234.31	DC	10.82

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

13.5.14 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
163339560	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	149.78	151.59	DC	14.96

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

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

13.5.15 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
173902686	314563	6CLUBHSE	DVP	313725	6DRY BREAD	DVP	1	DVP_P4-2: 23872	breaker	459.0	127.81	131.32	DC	16.11

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

13.5.16 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
174091834	314599	6ROA VAL	DVP	314266	6NORTHAMPTON	DVP	1	DVP_P4-2: 23872	breaker	671.0	123.92	125.27	DC	9.04

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

13.5.17 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
166980517	314665	3CLRK TAP	DVP	314699	3ISLND C	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	122.92	123.43	DC	2.36

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

13.5.18 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
174475408	314669	3BARNJ	DVP	962560	AG1-105 TAP	DVP	1	DVP_P4-2: 15832	breaker	406.0	155.1	155.92	DC	7.4

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

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

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

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
174475427	314676	3BRUNWICK	DVP	314704	3LAWRENC	DVP	1	DVP_P4-2: 15832	breaker	400.0	137.03	144.12	DC	28.39

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

13.5.20 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
166980521	314681	3CHASCTY	DVP	314781	3BLACKBR	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	129.81	131.4	DC	4.78

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

13.5.21 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
166980511	314682	3BUGGS I	DVP	314665	3CLRK TAP	DVP	1	DVP_P7-1: LN 171-1009	tower	208.0	124.27	124.78	DC	2.36

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

13.5.22 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
166980519	314683	3CLRKVILLE	DVP	314869	3BURLING	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	130.18	131.77	DC	4.78

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
166980536	314684	3MT LREL	DVP	316115	AC1-105 TAP	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	132.22	132.92	DC	6.36

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942461	AE2-259 C O1	4.1560	Adder	4.89
942462	AE2-259 E O1	2.7707	Adder	3.26
943901	AF1-058 C	-1.0975	Adder	-1.29
943911	AF1-059	16.8253	50/50	16.8253
946301	AF1-294 C	6.5474	50/50	6.5474
946302	AF1-294 E	4.3649	50/50	4.3649
958211	AF2-115 C	3.8514	50/50	3.8514
958212	AF2-115 E	2.5676	50/50	2.5676
958801	AF2-171 C	13.3857	50/50	13.3857
958802	AF2-171 E	8.9238	50/50	8.9238
959311	AF2-222 C	19.0690	50/50	19.0690
959312	AF2-222 E	12.7762	50/50	12.7762
961791	AG1-021 C	3.0811	50/50	3.0811
961792	AG1-021 E	2.0541	50/50	2.0541
961891	AG1-030 C	23.1084	50/50	23.1084
961892	AG1-030 E	15.4056	50/50	15.4056
962041	AG1-048 C	19.2570	50/50	19.2570
962042	AG1-048 E	12.8380	50/50	12.8380
962491	AG1-098 C O2	19.2570	50/50	19.2570
962492	AG1-098 E O2	12.8380	50/50	12.8380
962561	AG1-105 C O2	34.1874	50/50	34.1874
962562	AG1-105 E O2	22.7916	50/50	22.7916
963171	AG1-166 C	3.0811	50/50	3.0811
963172	AG1-166 E	2.0541	50/50	2.0541
963181	AG1-167 C	3.0811	50/50	3.0811
963182	AG1-167 E	2.0541	50/50	2.0541
963191	AG1-168 C	3.0811	50/50	3.0811
963192	AG1-168 E	2.0541	50/50	2.0541
963201	AG1-169 C	3.0811	50/50	3.0811
963202	AG1-169 E	2.0541	50/50	2.0541
963211	AG1-170 C	3.0811	50/50	3.0811
963212	AG1-170 E	2.0541	50/50	2.0541
963301	AG1-179 C	2.0596	Adder	4.57
963311	AG1-180	1.0035	Adder	2.23
963321	AG1-181 C O2	20.5314	50/50	20.5314
963361	AG1-185 O2	9.9336	50/50	9.9336
963641	AG1-215 C	1.4379	50/50	1.4379
963642	AG1-215 E	2.1568	50/50	2.1568
964111	AG1-272 C	3.0507	50/50	3.0507
964112	AG1-272 E	0.9061	50/50	0.9061
964121	AG1-273 C	3.0507	50/50	3.0507
964122	AG1-273 E	0.9061	50/50	0.9061
964131	AG1-274 C	3.0507	50/50	3.0507
964132	AG1-274 E	0.9061	50/50	0.9061
964791	AG1-342 C	15.8415	50/50	15.8415
964792	AG1-342 E	12.4469	50/50	12.4469
964821	AG1-345 C	1.2324	50/50	1.2324
964822	AG1-345 E	0.8216	50/50	0.8216
964931	AG1-357 C O2	30.8112	50/50	30.8112
964932	AG1-357 E O2	20.5408	50/50	20.5408
965191	AG1-384 C	3.0507	50/50	3.0507
965192	AG1-384 E	0.9061	50/50	0.9061

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965281	AG1-393 C	3.0811	50/50	3.0811
965282	AG1-393 E	2.0541	50/50	2.0541
965451	AG1-413 C O2	7.3817	50/50	7.3817
965452	AG1-413 E O2	4.9212	50/50	4.9212
965591	AG1-427 C	17.0142	50/50	17.0142
965592	AG1-427 E	11.3667	50/50	11.3667
965601	AG1-428 C O2	1.7194	Adder	3.82
965602	AG1-428 E O2	1.1442	Adder	2.54
965641	AG1-432 C O2	4.4053	Adder	9.78
965642	AG1-432 E O2	2.9369	Adder	6.52
965721	AG1-440 C	2.4799	Adder	5.5
965722	AG1-440 E	1.6533	Adder	3.67
965731	AG1-441 C	2.4799	Adder	5.5
965732	AG1-441 E	1.6533	Adder	3.67
965771	AG1-445	1.4329	Adder	3.18
965781	AG1-446	1.4329	Adder	3.18
965831	AG1-451	0.7342	Adder	1.63
966751	AG1-546 C	4.0416	Adder	8.97
966752	AG1-546 E	2.1686	Adder	4.81
G-007A	G-007A	0.1175	Confirmed LTF	0.1175
VFT	VFT	0.3096	Confirmed LTF	0.3096
CALDERWOOD	CALDERWOOD	0.1218	Confirmed LTF	0.1218
PRAIRIE	PRAIRIE	0.5011	Confirmed LTF	0.5011
CHEOAH	CHEOAH	0.1231	Confirmed LTF	0.1231
CBM-N	CBM-N	0.0564	Confirmed LTF	0.0564
COTTONWOOD	COTTONWOOD	0.4599	Confirmed LTF	0.4599
HAMLET	HAMLET	0.1438	Confirmed LTF	0.1438
GIBSON	GIBSON	0.0994	Confirmed LTF	0.0994
BLUEG	BLUEG	0.3177	Confirmed LTF	0.3177
TRIMBLE	TRIMBLE	0.1013	Confirmed LTF	0.1013
CATAWBA	CATAWBA	0.1033	Confirmed LTF	0.1033

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
169243864	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	2	DVP_P1-2: LN 235-A	single	182.64	290.55	292.32	DC	3.23

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959311	AF2-222 C	36.0450	80/20	36.0450
960061	AF2-297 C	2.9851	80/20	2.9851
960081	AF2-299 C	0.8732	80/20	0.8732
961791	AG1-021 C	5.5216	80/20	5.5216
961891	AG1-030 C	37.7604	80/20	37.7604
962041	AG1-048 C	34.5098	80/20	34.5098
962491	AG1-098 C O2	17.5920	80/20	17.5920
962561	AG1-105 C O2	8.1702	80/20	8.1702
963171	AG1-166 C	5.5216	80/20	5.5216
963181	AG1-167 C	5.5216	80/20	5.5216
963191	AG1-168 C	5.5216	80/20	5.5216
963201	AG1-169 C	5.5216	80/20	5.5216
963211	AG1-170 C	5.5216	80/20	5.5216
963301	AG1-179 C	3.8659	80/20	3.8659
963311	AG1-180	1.8835	80/20	1.8835
963321	AG1-181 C O2	33.5265	80/20	33.5265
963361	AG1-185 O2	16.2210	80/20	16.2210
963641	AG1-215 C	2.5767	80/20	2.5767
964111	AG1-272 C	5.3022	80/20	5.3022
964121	AG1-273 C	5.3022	80/20	5.3022
964131	AG1-274 C	5.3022	80/20	5.3022
964261	AG1-287 C	0.5597	80/20	0.5597
964471	AG1-310 C	0.7473	80/20	0.7473
964791	AG1-342 C	3.0915	80/20	3.0915
964821	AG1-345 C	2.2020	80/20	2.2020
964931	AG1-357 C O2	30.9912	80/20	30.9912
965191	AG1-384 C	5.3022	80/20	5.3022
965281	AG1-393 C	5.5216	80/20	5.5216
965451	AG1-413 C O2	6.1149	80/20	6.1149
965591	AG1-427 C	17.6058	80/20	17.6058
965601	AG1-428 C O2	3.2273	80/20	3.2273
965641	AG1-432 C O2	73.6692	80/20	73.6692
965721	AG1-440 C	5.1777	80/20	5.1777
965731	AG1-441 C	5.1777	80/20	5.1777
965771	AG1-445	2.9916	80/20	2.9916
965781	AG1-446	2.9916	80/20	2.9916
965831	AG1-451	12.2782	80/20	12.2782
966621	AG1-532 C	0.4715	80/20	0.4715
966751	AG1-546 C	8.6364	80/20	8.6364
WEC	WEC	0.0813	Confirmed LTF	0.0813
LGEE	LGEE	0.1659	Confirmed LTF	0.1659
CPL	CPL	1.2422	Confirmed LTF	1.2422
CBM-W2	CBM-W2	4.0768	Confirmed LTF	4.0768
NY	NY	0.1233	Confirmed LTF	0.1233
TVA	TVA	0.7980	Confirmed LTF	0.7980
SIGE	SIGE	0.0565	Confirmed LTF	0.0565
CBM-S2	CBM-S2	13.8748	Confirmed LTF	13.8748
CBM-S1	CBM-S1	0.1953	Confirmed LTF	0.1953
MEC	MEC	0.5180	Confirmed LTF	0.5180
LAGN	LAGN	0.9958	Confirmed LTF	0.9958
CBM-W1	CBM-W1	3.3508	Confirmed LTF	3.3508

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
175120019	314691	3FARMVIL	DVP	314692	6FARMVIL	DVP	1	DVP_P1-2: LN 298-B	single	198.06	195.82	197.13	DC	2.58

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5190	80/20	0.5190
314429	3JTRSVLE	1.0409	80/20	1.0409
314704	3LAWRENC	0.1400	80/20	0.1400
315158	1KERR 1	0.2388	80/20	0.2388
315159	1KERR 2	0.6685	80/20	0.6685
315160	1KERR 3	0.6685	80/20	0.6685
315161	1KERR 4	0.6685	80/20	0.6685
315162	1KERR 5	0.6685	80/20	0.6685
315163	1KERR 6	0.6685	80/20	0.6685
315164	1KERR 7	0.6685	80/20	0.6685
316118	AC1-105 C	1.9644	80/20	1.9644
316129	AC1-054 C	3.1577	80/20	3.1577
316131	AB2-060 C	1.5711	80/20	1.5711
924301	AB2-077 C O1 (Suspended)	2.0005	80/20	2.0005
924311	AB2-078 C O1 (Suspended)	2.0005	80/20	2.0005
924321	AB2-079 C O1 (Suspended)	2.0005	80/20	2.0005
925611	AC1-036 C	0.4104	80/20	0.4104
935221	AD1-157 C	0.6410	80/20	0.6410
936265	AD2-033 C	21.6637	80/20	21.6637
936361	AD2-046 C O1	6.1935	80/20	6.1935
936485	AD2-063 C	20.1177	80/20	20.1177
938371	AE1-056 C	17.5166	80/20	17.5166
939181	AE1-148 C	6.2359	80/20	6.2359
940661	AE2-053 O1	2.3096	80/20	2.3096
942451	AE2-258	2.4541	80/20	2.4541
942461	AE2-259 C O1	33.4614	80/20	33.4614
943911	AF1-059	11.3951	80/20	11.3951
946301	AF1-294 C	10.5154	80/20	10.5154
958211	AF2-115 C	6.1856	80/20	6.1856
958801	AF2-171 C	36.9207	80/20	36.9207
959311	AF2-222 C	31.8180	80/20	31.8180
961791	AG1-021 C	4.9484	80/20	4.9484
961891	AG1-030 C	33.6636	80/20	33.6636
962041	AG1-048 C	30.9277	80/20	30.9277
962491	AG1-098 C O2	14.9415	80/20	14.9415
962561	AG1-105 C O2	6.0834	80/20	6.0834
963171	AG1-166 C	4.9484	80/20	4.9484
963181	AG1-167 C	4.9484	80/20	4.9484
963191	AG1-168 C	4.9484	80/20	4.9484

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963201	AG1-169 C	4.9484	80/20	4.9484
963211	AG1-170 C	4.9484	80/20	4.9484
963301	AG1-179 C	3.0910	80/20	3.0910
963311	AG1-180	1.5060	80/20	1.5060
963321	AG1-181 C O2	29.4142	80/20	29.4142
963361	AG1-185 O2	14.2313	80/20	14.2313
963641	AG1-215 C	2.3093	80/20	2.3093
964111	AG1-272 C	4.6646	80/20	4.6646
964121	AG1-273 C	4.6646	80/20	4.6646
964131	AG1-274 C	4.6646	80/20	4.6646
964791	AG1-342 C	2.2108	80/20	2.2108
964821	AG1-345 C	1.9730	80/20	1.9730
964931	AG1-357 C O2	26.5932	80/20	26.5932
965191	AG1-384 C	4.6646	80/20	4.6646
965281	AG1-393 C	4.9484	80/20	4.9484
965451	AG1-413 C O2	5.0007	80/20	5.0007
965591	AG1-427 C	15.0419	80/20	15.0419
965601	AG1-428 C O2	2.5804	80/20	2.5804
965641	AG1-432 C O2	66.9228	80/20	66.9228
965721	AG1-440 C	4.0478	80/20	4.0478
965731	AG1-441 C	4.0478	80/20	4.0478
965771	AG1-445	2.3387	80/20	2.3387
965781	AG1-446	2.3387	80/20	2.3387
965831	AG1-451	11.1538	80/20	11.1538
966751	AG1-546 C	6.5405	80/20	6.5405
WEC	WEC	0.0236	Confirmed LTF	0.0236
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPL	CPL	0.2361	Confirmed LTF	0.2361
CBM-W2	CBM-W2	0.9498	Confirmed LTF	0.9498
NY	NY	0.0321	Confirmed LTF	0.0321
TVA	TVA	0.1736	Confirmed LTF	0.1736
SIGE	SIGE	0.0158	Confirmed LTF	0.0158
CBM-S2	CBM-S2	2.5056	Confirmed LTF	2.5056
CBM-S1	CBM-S1	0.0441	Confirmed LTF	0.0441
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2135	Confirmed LTF	0.2135
CBM-W1	CBM-W1	0.9954	Confirmed LTF	0.9954

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
174299961	314693	3FRMAND	DVP	314565	3CLUBHSE71	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	137.05	144.15	DC	28.41

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

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

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

13.5.27 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
169243936	314696	3SEGE HILL	DVP	314697	6SEGE HILL	DVP	1	DVP_P1-2: LN 31-A	single	226.73	123.28	124.32	DC	2.35

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

13.5.28 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
169243950	314696	3SEEDGE HILL	DVP	314697	6SEEDGE HILL	DVP	2	DVP_P1-3: 6SEEDGE HILL-TX#1	single	256.06	143.13	144.36	DC	3.14

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

13.5.29 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
166980501	314699	3ISLND C	DVP	313705	3KERRDP	DVP	1	DVP_P7-1: LN 171-1009	tower	202.0	126.57	127.1	DC	2.36

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

13.5.30 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
168518809	314701	3LONEPN	DVP	313755	3FLAT CREEK	DVP	1	Base Case	single	203.98	141.34	142.34	DC	2.04

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4009	80/20	0.4009
314429	3JTRSVLE	1.3977	80/20	1.3977
314704	3LAWRENC	0.1117	80/20	0.1117
315158	1KERR 1	0.1906	80/20	0.1906
315159	1KERR 2	0.5337	80/20	0.5337
315160	1KERR 3	0.5337	80/20	0.5337
315161	1KERR 4	0.5337	80/20	0.5337
315162	1KERR 5	0.5337	80/20	0.5337
315163	1KERR 6	0.5337	80/20	0.5337
315164	1KERR 7	0.5337	80/20	0.5337
316118	AC1-105 C	1.8185	80/20	1.8185
316129	AC1-054 C	2.5725	80/20	2.5725
316131	AB2-060 C	1.2911	80/20	1.2911
924301	AB2-077 C O1 (Suspended)	1.5502	80/20	1.5502
924311	AB2-078 C O1 (Suspended)	1.5502	80/20	1.5502
924321	AB2-079 C O1 (Suspended)	1.5502	80/20	1.5502
925611	AC1-036 C	0.0731	80/20	0.0731
936265	AD2-033 C	24.7221	80/20	24.7221
936361	AD2-046 C O1	4.9041	80/20	4.9041
936485	AD2-063 C	9.3060	80/20	9.3060
939181	AE1-148 C	4.9324	80/20	4.9324
940661	AE2-053 O1	1.8268	80/20	1.8268
942451	AE2-258	1.8956	80/20	1.8956
943911	AF1-059	8.9330	80/20	8.9330
946301	AF1-294 C	14.1193	80/20	14.1193
958211	AF2-115 C	8.3055	80/20	8.3055
961791	AG1-021 C	6.6444	80/20	6.6444
961891	AG1-030 C	43.7661	80/20	43.7661
962041	AG1-048 C	41.5275	80/20	41.5275
962491	AG1-098 C O2	13.4153	80/20	13.4153
962561	AG1-105 C O2	5.0280	80/20	5.0280
963171	AG1-166 C	6.6444	80/20	6.6444
963181	AG1-167 C	6.6444	80/20	6.6444
963191	AG1-168 C	6.6444	80/20	6.6444
963201	AG1-169 C	6.6444	80/20	6.6444
963211	AG1-170 C	6.6444	80/20	6.6444
963301	AG1-179 C	2.4494	80/20	2.4494
963311	AG1-180	1.1934	80/20	1.1934
963321	AG1-181 C O2	6.1776	80/20	6.1776

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O2	2.9889	80/20	2.9889
963641	AG1-215 C	3.1007	80/20	3.1007
964111	AG1-272 C	0.8308	80/20	0.8308
964121	AG1-273 C	0.8308	80/20	0.8308
964131	AG1-274 C	0.8308	80/20	0.8308
964791	AG1-342 C	1.8711	80/20	1.8711
964821	AG1-345 C	2.6467	80/20	2.6467
964931	AG1-357 C O2	26.1900	80/20	26.1900
965191	AG1-384 C	0.8308	80/20	0.8308
965281	AG1-393 C	6.6444	80/20	6.6444
965451	AG1-413 C O2	3.9131	80/20	3.9131
965591	AG1-427 C	7.8857	80/20	7.8857
965601	AG1-428 C O2	2.0448	80/20	2.0448
965721	AG1-440 C	3.2508	80/20	3.2508
965731	AG1-441 C	3.2508	80/20	3.2508
965771	AG1-445	1.8782	80/20	1.8782
965781	AG1-446	1.8782	80/20	1.8782
966751	AG1-546 C	5.3496	80/20	5.3496
WEC	WEC	0.0372	Confirmed LTF	0.0372
LGEE	LGEE	0.0760	Confirmed LTF	0.0760
CPL	CPL	0.5255	Confirmed LTF	0.5255
CBM-W2	CBM-W2	1.7830	Confirmed LTF	1.7830
NY	NY	0.0553	Confirmed LTF	0.0553
TVA	TVA	0.3458	Confirmed LTF	0.3458
SIGE	SIGE	0.0256	Confirmed LTF	0.0256
CBM-S2	CBM-S2	5.8255	Confirmed LTF	5.8255
CBM-S1	CBM-S1	0.0851	Confirmed LTF	0.0851
MEC	MEC	0.2320	Confirmed LTF	0.2320
LAGN	LAGN	0.4305	Confirmed LTF	0.4305
CBM-W1	CBM-W1	1.5422	Confirmed LTF	1.5422

13.5.31 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
163827602	314702	3KERR	DVP	304102	3GW KING TAP	CPL	1	DVP_P7-1: LN 22-90	tower	199.0	217.38	218.37	DC	4.41

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

13.5.32 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
174299957	314704	3LAWRENC	DVP	314693	3FRMAN D	DVP	1	DVP_P4-5: FARMVIL L432	breaker	400.0	137.9	145.0	DC	28.41

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

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

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

13.5.33 Index 33

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169243903	314707	3MORAN	DVP	314691	3FARMVIL	DVP	1	Base Case	single	203.98	137.91	138.91	DC	2.04

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4009	80/20	0.4009
314429	3JTRSVLE	1.3977	80/20	1.3977
314704	3LAWRENC	0.1117	80/20	0.1117
315158	1KERR 1	0.1906	80/20	0.1906
315159	1KERR 2	0.5337	80/20	0.5337
315160	1KERR 3	0.5337	80/20	0.5337
315161	1KERR 4	0.5337	80/20	0.5337
315162	1KERR 5	0.5337	80/20	0.5337
315163	1KERR 6	0.5337	80/20	0.5337
315164	1KERR 7	0.5337	80/20	0.5337
316118	AC1-105 C	1.8185	80/20	1.8185
316129	AC1-054 C	2.5725	80/20	2.5725
316131	AB2-060 C	1.2911	80/20	1.2911
924301	AB2-077 C O1 (Suspended)	1.5502	80/20	1.5502
924311	AB2-078 C O1 (Suspended)	1.5502	80/20	1.5502
924321	AB2-079 C O1 (Suspended)	1.5502	80/20	1.5502
925611	AC1-036 C	0.0731	80/20	0.0731
936265	AD2-033 C	24.7221	80/20	24.7221
936361	AD2-046 C O1	4.9041	80/20	4.9041
936485	AD2-063 C	9.3060	80/20	9.3060
939181	AE1-148 C	4.9324	80/20	4.9324
940661	AE2-053 O1	1.8268	80/20	1.8268
942451	AE2-258	1.8956	80/20	1.8956
943911	AF1-059	8.9330	80/20	8.9330
946301	AF1-294 C	14.1193	80/20	14.1193
958211	AF2-115 C	8.3055	80/20	8.3055
961791	AG1-021 C	6.6444	80/20	6.6444
961891	AG1-030 C	43.7661	80/20	43.7661
962041	AG1-048 C	41.5275	80/20	41.5275
962491	AG1-098 C O2	13.4153	80/20	13.4153
962561	AG1-105 C O2	5.0280	80/20	5.0280
963171	AG1-166 C	6.6444	80/20	6.6444
963181	AG1-167 C	6.6444	80/20	6.6444
963191	AG1-168 C	6.6444	80/20	6.6444
963201	AG1-169 C	6.6444	80/20	6.6444
963211	AG1-170 C	6.6444	80/20	6.6444
963301	AG1-179 C	2.4494	80/20	2.4494
963311	AG1-180	1.1934	80/20	1.1934
963321	AG1-181 C O2	6.1776	80/20	6.1776

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O2	2.9889	80/20	2.9889
963641	AG1-215 C	3.1007	80/20	3.1007
964111	AG1-272 C	0.8308	80/20	0.8308
964121	AG1-273 C	0.8308	80/20	0.8308
964131	AG1-274 C	0.8308	80/20	0.8308
964791	AG1-342 C	1.8711	80/20	1.8711
964821	AG1-345 C	2.6467	80/20	2.6467
964931	AG1-357 C O2	26.1900	80/20	26.1900
965191	AG1-384 C	0.8308	80/20	0.8308
965281	AG1-393 C	6.6444	80/20	6.6444
965451	AG1-413 C O2	3.9131	80/20	3.9131
965591	AG1-427 C	7.8857	80/20	7.8857
965601	AG1-428 C O2	2.0448	80/20	2.0448
965721	AG1-440 C	3.2508	80/20	3.2508
965731	AG1-441 C	3.2508	80/20	3.2508
965771	AG1-445	1.8782	80/20	1.8782
965781	AG1-446	1.8782	80/20	1.8782
966751	AG1-546 C	5.3496	80/20	5.3496
WEC	WEC	0.0372	Confirmed LTF	0.0372
LGEE	LGEE	0.0760	Confirmed LTF	0.0760
CPL	CPL	0.5255	Confirmed LTF	0.5255
CBM-W2	CBM-W2	1.7830	Confirmed LTF	1.7830
NY	NY	0.0553	Confirmed LTF	0.0553
TVA	TVA	0.3458	Confirmed LTF	0.3458
SIGE	SIGE	0.0256	Confirmed LTF	0.0256
CBM-S2	CBM-S2	5.8255	Confirmed LTF	5.8255
CBM-S1	CBM-S1	0.0851	Confirmed LTF	0.0851
MEC	MEC	0.2320	Confirmed LTF	0.2320
LAGN	LAGN	0.4305	Confirmed LTF	0.4305
CBM-W1	CBM-W1	1.5422	Confirmed LTF	1.5422

13.5.34 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
166980499	314781	3BLACKBR	DVP	314788	3JONESTO	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	134.17	135.76	DC	4.78

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

13.5.35 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
166980505	314788	3JONESTO	DVP	314683	3CLRKVILLE	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	132.81	134.4	DC	4.78

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

13.5.36 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
166980523	314869	3BURLING	DVP	314682	3BUGGS I	DVP	1	DVP_P7-1: LN 171-1009	tower	301.0	129.09	130.67	DC	4.78

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

13.5.37 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
166980458	316115	AC1-105 TAP	DVP	314696	3SEDGE HILL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	141.82	142.52	DC	6.36

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940661	AE2-053 O1	3.2148	50/50	3.2148
942451	AE2-258	3.6154	50/50	3.6154
942461	AE2-259 C O1	4.1560	Adder	4.89
942462	AE2-259 E O1	2.7707	Adder	3.26
943901	AF1-058 C	-1.0975	Adder	-1.29
943911	AF1-059	16.8253	50/50	16.8253
946301	AF1-294 C	6.5474	50/50	6.5474
946302	AF1-294 E	4.3649	50/50	4.3649
958211	AF2-115 C	3.8514	50/50	3.8514
958212	AF2-115 E	2.5676	50/50	2.5676
958801	AF2-171 C	13.3857	50/50	13.3857
958802	AF2-171 E	8.9238	50/50	8.9238
959311	AF2-222 C	19.0690	50/50	19.0690
959312	AF2-222 E	12.7762	50/50	12.7762
961791	AG1-021 C	3.0811	50/50	3.0811
961792	AG1-021 E	2.0541	50/50	2.0541
961891	AG1-030 C	23.1084	50/50	23.1084
961892	AG1-030 E	15.4056	50/50	15.4056
962041	AG1-048 C	19.2570	50/50	19.2570
962042	AG1-048 E	12.8380	50/50	12.8380
962491	AG1-098 C O2	19.2570	50/50	19.2570
962492	AG1-098 E O2	12.8380	50/50	12.8380
962561	AG1-105 C O2	34.1874	50/50	34.1874
962562	AG1-105 E O2	22.7916	50/50	22.7916
963171	AG1-166 C	3.0811	50/50	3.0811
963172	AG1-166 E	2.0541	50/50	2.0541
963181	AG1-167 C	3.0811	50/50	3.0811
963182	AG1-167 E	2.0541	50/50	2.0541
963191	AG1-168 C	3.0811	50/50	3.0811
963192	AG1-168 E	2.0541	50/50	2.0541
963201	AG1-169 C	3.0811	50/50	3.0811
963202	AG1-169 E	2.0541	50/50	2.0541
963211	AG1-170 C	3.0811	50/50	3.0811
963212	AG1-170 E	2.0541	50/50	2.0541
963301	AG1-179 C	2.0596	Adder	4.57
963311	AG1-180	1.0035	Adder	2.23
963321	AG1-181 C O2	20.5314	50/50	20.5314
963361	AG1-185 O2	9.9336	50/50	9.9336
963641	AG1-215 C	1.4379	50/50	1.4379
963642	AG1-215 E	2.1568	50/50	2.1568
964111	AG1-272 C	3.0507	50/50	3.0507
964112	AG1-272 E	0.9061	50/50	0.9061
964121	AG1-273 C	3.0507	50/50	3.0507
964122	AG1-273 E	0.9061	50/50	0.9061
964131	AG1-274 C	3.0507	50/50	3.0507
964132	AG1-274 E	0.9061	50/50	0.9061
964791	AG1-342 C	15.8415	50/50	15.8415
964792	AG1-342 E	12.4469	50/50	12.4469
964821	AG1-345 C	1.2324	50/50	1.2324
964822	AG1-345 E	0.8216	50/50	0.8216
964931	AG1-357 C O2	30.8112	50/50	30.8112
964932	AG1-357 E O2	20.5408	50/50	20.5408

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965191	AG1-384 C	3.0507	50/50	3.0507
965192	AG1-384 E	0.9061	50/50	0.9061
965281	AG1-393 C	3.0811	50/50	3.0811
965282	AG1-393 E	2.0541	50/50	2.0541
965451	AG1-413 C O2	7.3817	50/50	7.3817
965452	AG1-413 E O2	4.9212	50/50	4.9212
965591	AG1-427 C	17.0142	50/50	17.0142
965592	AG1-427 E	11.3667	50/50	11.3667
965601	AG1-428 C O2	1.7194	Adder	3.82
965602	AG1-428 E O2	1.1442	Adder	2.54
965641	AG1-432 C O2	4.4053	Adder	9.78
965642	AG1-432 E O2	2.9369	Adder	6.52
965721	AG1-440 C	2.4799	Adder	5.5
965722	AG1-440 E	1.6533	Adder	3.67
965731	AG1-441 C	2.4799	Adder	5.5
965732	AG1-441 E	1.6533	Adder	3.67
965771	AG1-445	1.4329	Adder	3.18
965781	AG1-446	1.4329	Adder	3.18
965831	AG1-451	0.7342	Adder	1.63
966751	AG1-546 C	4.0416	Adder	8.97
966752	AG1-546 E	2.1686	Adder	4.81
G-007A	G-007A	0.1175	Confirmed LTF	0.1175
VFT	VFT	0.3096	Confirmed LTF	0.3096
CALDERWOOD	CALDERWOOD	0.1218	Confirmed LTF	0.1218
PRAIRIE	PRAIRIE	0.5011	Confirmed LTF	0.5011
CHEOAH	CHEOAH	0.1231	Confirmed LTF	0.1231
CBM-N	CBM-N	0.0564	Confirmed LTF	0.0564
COTTONWOOD	COTTONWOOD	0.4599	Confirmed LTF	0.4599
HAMLET	HAMLET	0.1438	Confirmed LTF	0.1438
GIBSON	GIBSON	0.0994	Confirmed LTF	0.0994
BLUEG	BLUEG	0.3177	Confirmed LTF	0.3177
TRIMBLE	TRIMBLE	0.1013	Confirmed LTF	0.1013
CATAWBA	CATAWBA	0.1033	Confirmed LTF	0.1033

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
174091826	936400	AD2-051 TAP	DVP	314569	6EARLEYS	DVP	1	DVP_P4-2: 23872	breaker	699.0	126.37	127.67	DC	9.04

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

13.5.39 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
173902842	936480	AD2-063 TAP	DVP	314679	3CENTRAL	DVP	1	DVP_P4-2: 1T158	breaker	349.0	103.26	103.72	DC	3.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4170	50/50	0.4170
313853	3PONTONDP	0.5589	50/50	0.5589
314429	3JTRSVLE	0.3527	50/50	0.3527
316131	AB2-060 C	1.1993	50/50	1.1993
924022	AB2-043 E O1	2.3633	50/50	2.3633
924162	AB2-060 E OP	3.5771	50/50	3.5771
924301	AB2-077 C O1 (Suspended)	1.6124	50/50	1.6124
924302	AB2-077 E O1 (Suspended)	1.0750	50/50	1.0750
924311	AB2-078 C O1 (Suspended)	1.6124	50/50	1.6124
924312	AB2-078 E O1 (Suspended)	1.0750	50/50	1.0750
924321	AB2-079 C O1 (Suspended)	1.6124	50/50	1.6124
924322	AB2-079 E O1 (Suspended)	1.0750	50/50	1.0750
936265	AD2-033 C	10.8982	50/50	10.8982
936266	AD2-033 E	7.2654	50/50	7.2654
936361	AD2-046 C O1	4.3338	Adder	5.1
936362	AD2-046 E O1	1.9929	Adder	2.34
936485	AD2-063 C	20.3103	50/50	20.3103
936486	AD2-063 E	13.5402	50/50	13.5402
939181	AE1-148 C	4.3559	Adder	5.12
939182	AE1-148 E	2.9039	Adder	3.42
940661	AE2-053 O1	1.6133	Adder	1.9
942451	AE2-258	1.9717	50/50	1.9717
943911	AF1-059	7.9008	Adder	9.3
946301	AF1-294 C	3.5629	50/50	3.5629
946302	AF1-294 E	2.3752	50/50	2.3752
958211	AF2-115 C	2.0958	50/50	2.0958
958212	AF2-115 E	1.3972	50/50	1.3972
961791	AG1-021 C	1.6766	50/50	1.6766
961792	AG1-021 E	1.1178	50/50	1.1178
961891	AG1-030 C	12.5748	50/50	12.5748
961892	AG1-030 E	8.3832	50/50	8.3832
962041	AG1-048 C	10.4790	50/50	10.4790
962042	AG1-048 E	6.9860	50/50	6.9860
962491	AG1-098 C O2	10.4798	50/50	10.4798
962492	AG1-098 E O2	6.9865	50/50	6.9865
962561	AG1-105 C O2	2.3519	Adder	5.22
962562	AG1-105 E O2	1.5679	Adder	3.48

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963171	AG1-166 C	1.6766	50/50	1.6766
963172	AG1-166 E	1.1178	50/50	1.1178
963181	AG1-167 C	1.6766	50/50	1.6766
963182	AG1-167 E	1.1178	50/50	1.1178
963191	AG1-168 C	1.6766	50/50	1.6766
963192	AG1-168 E	1.1178	50/50	1.1178
963201	AG1-169 C	1.6766	50/50	1.6766
963202	AG1-169 E	1.1178	50/50	1.1178
963211	AG1-170 C	1.6766	50/50	1.6766
963212	AG1-170 E	1.1178	50/50	1.1178
963301	AG1-179 C	1.1484	Adder	2.55
963311	AG1-180	0.5595	Adder	1.24
963362	AG1-185 BAT	59.1624	50/50	59.1624
964113	AG1-272 BAT	12.7472	50/50	12.7472
964123	AG1-273 BAT	12.7472	50/50	12.7472
964133	AG1-274 BAT	12.7472	50/50	12.7472
964791	AG1-342 C	0.8753	Adder	1.94
964792	AG1-342 E	0.6877	Adder	1.53
964821	AG1-345 C	0.6707	50/50	0.6707
964822	AG1-345 E	0.4471	50/50	0.4471
964931	AG1-357 C O2	16.7664	50/50	16.7664
964932	AG1-357 E O2	11.1776	50/50	11.1776
965193	AG1-384 BAT	5.4622	50/50	5.4622
965451	AG1-413 C O2	1.8343	Adder	4.07
965452	AG1-413 E O2	1.2228	Adder	2.71
965591	AG1-427 C	14.5691	50/50	14.5691
965592	AG1-427 E	9.7332	50/50	9.7332
965601	AG1-428 C O2	0.9587	Adder	2.13
965602	AG1-428 E O2	0.6380	Adder	1.42
965832	AG1-451 BAT	3.8946	50/50	3.8946
WEC	WEC	0.0416	Confirmed LTF	0.0416
LGEE	LGEE	0.0848	Confirmed LTF	0.0848
CPL	CPL	0.5521	Confirmed LTF	0.5521
CBM-W2	CBM-W2	1.9354	Confirmed LTF	1.9354
NY	NY	0.0520	Confirmed LTF	0.0520
TVA	TVA	0.3710	Confirmed LTF	0.3710
O-066	O-066	0.7201	Confirmed LTF	0.7201
SIGE	SIGE	0.0267	Confirmed LTF	0.0267
CBM-S2	CBM-S2	6.1387	Confirmed LTF	6.1387
CBM-S1	CBM-S1	0.0916	Confirmed LTF	0.0916
G-007	G-007	0.1134	Confirmed LTF	0.1134
MEC	MEC	0.2558	Confirmed LTF	0.2558
LAGN	LAGN	0.4620	Confirmed LTF	0.4620
CBM-W1	CBM-W1	1.7245	Confirmed LTF	1.7245

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
163339540	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	170.71	172.51	DC	14.96

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
962351	AG1-084 C	0.8099	Adder	1.8

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962352	AG1-084 E	0.5399	Adder	1.2
962361	AG1-085 C	0.8099	Adder	1.8
962362	AG1-085 E	0.5399	Adder	1.2
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
LGEE	LGEE	0.4128	Confirmed LTF	0.4128

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.41 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
173104104	962560	AG1-105 TAP	DVP	314684	3MT LREL	DVP	1	DVP_P7-1: LN 158-235	tower	406.0	127.58	128.28	DC	6.36

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942461	AE2-259 C O1	4.1560	Adder	4.89
942462	AE2-259 E O1	2.7707	Adder	3.26
943901	AF1-058 C	-1.0975	Adder	-1.29
943911	AF1-059	16.8253	50/50	16.8253
946301	AF1-294 C	6.5474	50/50	6.5474
946302	AF1-294 E	4.3649	50/50	4.3649
958211	AF2-115 C	3.8514	50/50	3.8514
958212	AF2-115 E	2.5676	50/50	2.5676
958801	AF2-171 C	13.3857	50/50	13.3857
958802	AF2-171 E	8.9238	50/50	8.9238
959311	AF2-222 C	19.0690	50/50	19.0690
959312	AF2-222 E	12.7762	50/50	12.7762
961791	AG1-021 C	3.0811	50/50	3.0811
961792	AG1-021 E	2.0541	50/50	2.0541
961891	AG1-030 C	23.1084	50/50	23.1084
961892	AG1-030 E	15.4056	50/50	15.4056
962041	AG1-048 C	19.2570	50/50	19.2570
962042	AG1-048 E	12.8380	50/50	12.8380
962491	AG1-098 C O2	19.2570	50/50	19.2570
962492	AG1-098 E O2	12.8380	50/50	12.8380
962561	AG1-105 C O2	34.1874	50/50	34.1874
962562	AG1-105 E O2	22.7916	50/50	22.7916
963171	AG1-166 C	3.0811	50/50	3.0811
963172	AG1-166 E	2.0541	50/50	2.0541
963181	AG1-167 C	3.0811	50/50	3.0811
963182	AG1-167 E	2.0541	50/50	2.0541
963191	AG1-168 C	3.0811	50/50	3.0811
963192	AG1-168 E	2.0541	50/50	2.0541
963201	AG1-169 C	3.0811	50/50	3.0811
963202	AG1-169 E	2.0541	50/50	2.0541
963211	AG1-170 C	3.0811	50/50	3.0811
963212	AG1-170 E	2.0541	50/50	2.0541
963301	AG1-179 C	2.0596	Adder	4.57
963311	AG1-180	1.0035	Adder	2.23
963321	AG1-181 C O2	20.5314	50/50	20.5314
963361	AG1-185 O2	9.9336	50/50	9.9336
963641	AG1-215 C	1.4379	50/50	1.4379
963642	AG1-215 E	2.1568	50/50	2.1568
964111	AG1-272 C	3.0507	50/50	3.0507
964112	AG1-272 E	0.9061	50/50	0.9061
964121	AG1-273 C	3.0507	50/50	3.0507
964122	AG1-273 E	0.9061	50/50	0.9061
964131	AG1-274 C	3.0507	50/50	3.0507
964132	AG1-274 E	0.9061	50/50	0.9061
964793	AG1-342 BAT	3.3423	50/50	3.3423
964821	AG1-345 C	1.2324	50/50	1.2324
964822	AG1-345 E	0.8216	50/50	0.8216
964931	AG1-357 C O2	30.8112	50/50	30.8112
964932	AG1-357 E O2	20.5408	50/50	20.5408
965191	AG1-384 C	3.0507	50/50	3.0507
965192	AG1-384 E	0.9061	50/50	0.9061
965281	AG1-393 C	3.0811	50/50	3.0811

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965282	AG1-393 E	2.0541	50/50	2.0541
965451	AG1-413 C O2	7.3817	50/50	7.3817
965452	AG1-413 E O2	4.9212	50/50	4.9212
965591	AG1-427 C	17.0142	50/50	17.0142
965592	AG1-427 E	11.3667	50/50	11.3667
965601	AG1-428 C O2	1.7194	Adder	3.82
965602	AG1-428 E O2	1.1442	Adder	2.54
965641	AG1-432 C O2	4.4053	Adder	9.78
965642	AG1-432 E O2	2.9369	Adder	6.52
965721	AG1-440 C	2.4799	Adder	5.5
965722	AG1-440 E	1.6533	Adder	3.67
965731	AG1-441 C	2.4799	Adder	5.5
965732	AG1-441 E	1.6533	Adder	3.67
965771	AG1-445	1.4329	Adder	3.18
965781	AG1-446	1.4329	Adder	3.18
965831	AG1-451	0.7342	Adder	1.63
966751	AG1-546 C	4.0416	Adder	8.97
966752	AG1-546 E	2.1686	Adder	4.81
G-007A	G-007A	0.1175	Confirmed LTF	0.1175
VFT	VFT	0.3096	Confirmed LTF	0.3096
CALDERWOOD	CALDERWOOD	0.1218	Confirmed LTF	0.1218
PRAIRIE	PRAIRIE	0.5011	Confirmed LTF	0.5011
CHEOAH	CHEOAH	0.1231	Confirmed LTF	0.1231
CBM-N	CBM-N	0.0564	Confirmed LTF	0.0564
COTTONWOOD	COTTONWOOD	0.4599	Confirmed LTF	0.4599
HAMLET	HAMLET	0.1438	Confirmed LTF	0.1438
GIBSON	GIBSON	0.0994	Confirmed LTF	0.0994
BLUEG	BLUEG	0.3177	Confirmed LTF	0.3177
TRIMBLE	TRIMBLE	0.1013	Confirmed LTF	0.1013
CATAWBA	CATAWBA	0.1033	Confirmed LTF	0.1033

13.6 Contingency Descriptions - Secondary POI

Contingency Name	Contingency Definition
DVP_P7-1: LN 137-1041	CONTINGENCY 'DVP_P7-1: LN 137-1041' /* . OPEN BRANCH FROM BUS 313849 TO BUS 939180 CKT 1 /* 3RIDGERD 115.00 - AE1-148 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 939180 CKT 1 /* 3KERR 115.00 - AE1-148 TAP 115.00 OPEN BUS 939180 /* ISLAND: AE1-148 TAP 115.00 OPEN BUS 939181 /* ISLAND: AE1-148 C 115.00 OPEN BUS 939182 /* ISLAND: AE1-148 E 115.00 OPEN BRANCH FROM BUS 313757 TO BUS 314674 CKT 1 /* 3CLOUD 115.00 - 3BOYDTON 115.00 OPEN BRANCH FROM BUS 314255 TO BUS 314674 CKT 1 /* 3BOYDPLK 115.00 - 3BOYDTON 115.00 OPEN BUS 314674 /* ISLAND: 3BOYDTON 115.00 END
DVP_P1-2: LN 90	CONTINGENCY 'DVP_P1-2: LN 90' OPEN BRANCH FROM BUS 314265 TO BUS 314584 CKT 1 /* 3FIVEFORKSDP115.00 - 3LITTLTN 115.00 OPEN BRANCH FROM BUS 314265 TO BUS 314673 CKT 1 /* 3FIVEFORKSDP115.00 - 3PALMERSPRNG115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314584 TO BUS 314585 CKT 1 /* 3LITTLTN 115.00 - 3L GASTN 115.00 OPEN BUS 314265 /* ISLAND: 3FIVEFORKSDP115.00 OPEN BUS 314584 /* ISLAND: 3LITTLTN 115.00 OPEN BUS 314585 /* ISLAND: 3L GASTN 115.00 END

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

Contingency Name	Contingency Definition
DVP_P1-2: LN 50-A	CONTINGENCY 'DVP_P1-2: LN 50-A' / 14 OPEN BRANCH FROM BUS 314785 TO BUS 965600 CKT 1 / 314785 2DANLWTN 69.0 965600 AG1-428 TAP 69.0 1 END
DVP_P4-2: L5T68	CONTINGENCY 'DVP_P4-2: L5T68' / 388 OPEN BRANCH FROM BUS 314536 TO BUS 961850 CKT 1 / 314536 3SUFFOLK 115 961850 AG1-027 TAP 115 1 OPEN BRANCH FROM BUS 314537 TO BUS 314536 CKT 2 / 314537 6SUFFOLK 230 314536 3SUFFOLK 115 2 END
DVP_P1-2: LN 171	CONTINGENCY 'DVP_P1-2: LN 171' / 1549 OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 / 313806 3HERBERT 115 314681 3CHASCTY 115 1 END
DVP_P7-1: LN 171-1009	CONTINGENCY 'DVP_P7-1: LN 171-1009' /* . OPEN BRANCH FROM BUS 313806 TO BUS 314681 CKT 1 /* 3HERBERT 115.00 - 3CHASCTY 115.00 OPEN BRANCH FROM BUS 313849 TO BUS 314267 CKT 1 /* 3RIDGERD 115.00 - 3CHASCTY2 115.00 END
DVP_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 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

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: 1T158	CONTINGENCY 'DVP_P4-2: 1T158' / 330 OPEN BRANCH FROM BUS 314426 TO BUS 314701 CKT 1 / 314426 3FT PKET 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314426 TO BUS 963641 CKT 1 / 314426 3FT PKET 115 963641 AG1-215 C 115 1 OPEN BRANCH FROM BUS 314426 TO BUS 965281 CKT 1 / 314426 3FT PKET 115 965281 AG1-393 C 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314701 CKT 1 / 313755 3FLAT CREEK 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 313755 TO BUS 314707 CKT 1 / 313755 3FLAT CREEK 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314519 TO BUS 314701 CKT 1 / 314519 3LONEPINE_1 115 314701 3LONEPN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 END
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' / 187 OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 / 313725 6DRY BREAD 230 314563 6CLUBHSE 230 1 END
DVP_P1-3: 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
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 3BARNs J 115 1 OPEN BRANCH FROM BUS 314669 TO BUS 962560 CKT 1 / 314669 3BARNs J 115 962560 AG1-105 TAP 115 1 END
DVP_P1-2: LN 238-A	CONTINGENCY 'DVP_P1-2: LN 238-A' OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2- 033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END
DVP_P4-5: FARMVIL L432	CONTINGENCY 'DVP_P4-5: FARMVIL L432' / 1172 OPEN BRANCH FROM BUS 313802 TO BUS 314268 CKT 1 / 313802 6PRINCE EDW 230 314268 6BRIERY 230 1 OPEN BRANCH FROM BUS 313802 TO BUS 314692 CKT 1 / 313802 6PRINCE EDW 230 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314268 TO BUS 964840 CKT 1 / 314268 6BRIERY 230 964840 AG1-347 TAP 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 1 / 314691 3FARMVIL 115 314692 6FARMVIL 230 1 OPEN BRANCH FROM BUS 314691 TO BUS 314707 CKT 1 / 314691 3FARMVIL 115 314707 3MORAN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 / 314691 3FARMVIL 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 / 314691 3FARMVIL 115 314692 6FARMVIL 230 2 END
DVP_P1-2: LN 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
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

Contingency Name	Contingency Definition
DVP_P4-6: CAROLIN T122	CONTINGENCY 'DVP_P4-6: CAROLIN T122' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 315126 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP2 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 315128 CKT 1 /* 3CAROLNA 115.00 - 1ROARAP4 14.400 OPEN BUS 315126 /* ISLAND: 1ROARAP2 14.400 OPEN BUS 315128 /* ISLAND: 1ROARAP4 14.400 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314578 CKT 1 /* 3CAROLNA 115.00 - 3HORNRTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3LGASTN 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 OPEN BUS 314559 /* 3CAROLNA 115.00 KV OPEN BUS 314835 /* ISLAND: 3CAROL_1 115.00 END
DVP_P1-2: LN 556-B-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_P1-2: LN 84	CONTINGENCY 'DVP_P1-2: LN 84' / 358 OPEN BRANCH FROM BUS 314521 TO BUS 314713 CKT 1 / 314521 3PAMPL_1 115 314713 3PAMPLIN 115 1 OPEN BRANCH FROM BUS 314691 TO BUS 314726 CKT 1 / 314691 3FARMVIL 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314713 TO BUS 314726 CKT 1 / 314713 3PAMPLIN 115 314726 3WILLIS 115 1 OPEN BRANCH FROM BUS 314726 TO BUS 942461 CKT 1 / 314726 3WILLIS 115 942461 AE2-259 C O1 115 1 OPEN BRANCH FROM BUS 314726 TO BUS 965641 CKT 1 / 314726 3WILLIS 115 965641 AG1-432 C O2 115 1 OPEN BRANCH FROM BUS 314726 TO BUS 965831 CKT 1 / 314726 3WILLIS 115 965831 AG1-451 115 1 END

Contingency Name	Contingency Definition
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_P1-2: LN 68-A	CONTINGENCY 'DVP_P1-2: LN 68-A' / 353 OPEN BRANCH FROM BUS 313737 TO BUS 314527 CKT 1 / 313737 3COPELD DP 115 314527 3HOLLAND 115 1 OPEN BRANCH FROM BUS 313737 TO BUS 961850 CKT 1 / 313737 3COPELD DP 115 961850 AG1-027 TAP 115 1 OPEN BRANCH FROM BUS 314527 TO BUS 938770 CKT 1 / 314527 3HOLLAND 115 938770 AE1-103 TAP 115 1 END
DVP_P1-2: LN 298-B	CONTINGENCY 'DVP_P1-2: LN 298-B' OPEN BRANCH FROM BUS 966860 TO BUS 314692 CKT 1 /* AG1-557 TAP 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 END
Base Case	
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
314435 6SAPONY 230 940480 AE2-033 TAP 230 1	CONTINGENCY '314435 6SAPONY 230 940480 AE2-033 TAP 230 1' OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 END

Contingency Name	Contingency Definition
DVP_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
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_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
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
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
DVP_P4-2: 13002	CONTINGENCY 'DVP_P4-2: 13002' /* CAROLINA 115 KV OPEN BRANCH FROM BUS 314559 TO BUS 314600 CKT 1 /* 3CAROLNA 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314595 TO BUS 314600 CKT 1 /* 3PL HILL 115.00 - 3PLHITP 115.00 OPEN BRANCH FROM BUS 314600 TO BUS 314615 CKT 1 /* 3PLHITP 115.00 - 3SKIPPER 115.00 OPEN BUS 314595 /* ISLAND: 3PL HILL 115.00 OPEN BUS 314600 /* ISLAND: 3PLHITP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 313722 TO BUS 314559 CKT 1 /* 3OCCONEECHEE115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 313723 TO BUS 314559 CKT 1 /* 3PECAN 115.00 - 3CAROLNA 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314835 CKT 1 /* 3CAROLNA 115.00 - 3CAROL_1 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314561 CKT 1 /* 3CAROLNA 115.00 - 6CAROLNA 230.00 END

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