



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-506
RAWLINGS-CLOVER 500 KV
90 MW Capacity / 150 MW Energy**

January 2021

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1 Introduction

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

2 Preface

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

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

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

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

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

3 General

The Interconnection Customer (IC), has proposed a Solar generating facility located in Brunswick County, Virginia. The installed facilities will have a total capability of 150 MW with 90 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is July 01, 2024. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-506
Project Name	RAWLINGS-CLOVER 500 KV
State	Virginia
County	Brunswick
Transmission Owner	Dominion
MFO	150
MWE	150
MWC	90
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

AG1-506 will interconnect with the Dominion transmission system tapping the Rawlings to Clover 500 kV line, sharing the POI and Attachment Facilities with AG1-505.

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

Costs provided are contingent on the AG1-505 project being built. Should the AG1-505 project withdraw from the Interconnection Queue, the AG1-506 project will assume the Attachment, Direct Connection, and Non-Direct Connection costs identified in the AG1-505 study report for connection to the Dominion system.

5 Cost Summary

The AG1-506 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$ 0
Total System Network Upgrade Costs	\$ 1,113,137,000 ¹
Total Costs	\$ 1,113,137,000

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

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

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

6 Transmission Owner Scope of Work

AG1-506 will interconnect with the Dominion transmission system tapping the Rawlings to Clover 500 kV line, sharing the POI and Attachment Facilities with AG1-505.

As AG1-506 is sharing the POI and Attachment Facilities with AG1-505, there are no associated interconnection costs for this project. Should the AG1-505 project withdraw from the Interconnection Queue, the AG1-506 project will assume the Attachment, Direct Connection, and Non-Direct Connection costs identified in the AG1-505 study report for connection to the Dominion system.

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

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

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

Description	Total Cost
Total Physical Interconnection Costs	\$ 0

7 Schedule

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

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

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

8 Transmission Owner Analysis

Dominion assessed the impact of the proposed AG1-506 for compliance with NERC Reliability Criteria on the Dominion Transmission System. The system was assessed using the summer 2024 AG1 case provided to Dominion by PJM.

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

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

8.1 Power Flow Analysis

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

9 Interconnection Customer Requirements

9.1 System Protection

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

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

9.2 Compliance Issues and Interconnection Customer Requirements

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

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

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

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

9.3 Power Factor Requirements

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

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

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

10.2 Meteorological Data Reporting Requirements

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

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

10.3 Interconnected Transmission Owner Requirements

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

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

11 Summer Peak - Load Flow Analysis

The Queue Project AG1-506 was evaluated as a 150.0 MW (Capacity 90.0 MW) injection tapping the Rawlings to Clover 500 kV line in the Dominion area. Project AG1-506 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-506 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

11.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPAC T
169275841	314688	3CRST L HILL	115.0	DVP	964470	AG1-310 TAP	115.0	DVP	1	DVP_P1-2: LN 556-D	single	285.760009766	99.34	101.9	DC	7.33

11.2 Multiple Facility Contingency

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

None

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPAC T
168867879	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	single	559.299987793	174.85	176.0	DC	6.59
168867889	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	single	559.299987793	171.04	172.19	DC	6.59
168867912	314299	6HARROW G	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	151.22	152.32	DC	5.01
168868032	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	144.94	145.77	DC	5.24
168867959	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	150.11	150.94	DC	5.24
168867908	314331	6POE	230.0	DVP	314299	6HARROW G	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	151.24	152.34	DC	5.01
169275578	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	153.57	160.97	DC	60.32
169275620	314686	6CLOVER	230.0	DVP	962490	AG1-098 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	571.520019531	132.35	137.47	DC	29.27
169275574	314690	6BLACK WALNU	230.0	DVP	962560	AG1-105 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	162.18	169.58	DC	60.32
169275486	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	single	559.299987793	143.49	144.51	DC	5.7
169275510	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	674.91998291	212.85	219.69	DC	46.12
169275513	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	Base Case	single	509.480010986	101.54	103.14	DC	8.11
169275705	314714	3PERTH	115.0	DVP	942750	AE2-291 TAP	115.0	DVP	1	DVP_P1-2: LN 556-D	single	285.760009766	111.93	114.48	DC	7.3

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 C T LOADIN G %	POST PROJE C T LOADIN G %	AC D C	MW IMPAC T
163902089	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	DVP_P 4-2: 557T574	breaker	3938.0	147.47	147.94	DC	51.66
163902090	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	DVP_P 4-2: H2T557	breaker	3938.0	140.2	140.58	DC	50.62
163902091	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	DVP_P 4-5: L122	breaker	3938.0	138.16	138.54	DC	49.8
163902092	314902	8CARSON	500.0	DVP	314914	8MDLTHAN	500.0	DVP	1	DVP_P 4-2: 557T567	breaker	3938.0	127.4	127.99	DC	49.8
163902166	314902	8CARSON	500.0	DVP	939410	AE1-173_POI	500.0	DVP	1	DVP_P 4-2: 562T563	breaker	3144.0	113.47	114.77	DC	44.97
168867869	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 563	single	903.903991699	161.97	163.45	DC	13.5
168867871	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 562-C	single	903.903991699	110.6	111.72	DC	10.1
163902099	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 4-2: 557T574	breaker	3637.0	139.83	139.84	DC	47.69
163902311	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 1-2: LN 574	single	2442.12011719	178.61	178.87	DC	26.93
163902314	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 1-2: LN 557	single	2442.12011719	156.89	157.07	DC	25.83
168867922	314914	8MDLTHAN	500.0	DVP	314322	6MDLTHAN	230.0	DVP	1	DVP_P 1-2: LN 576	single	1058.15795898	148.86	149.88	DC	11.34
163902182	314923	8SEPTA	500.0	DVP	314924	8SURREY	500.0	DVP	1	DVP_P 4-2: 56372	breaker	3637.0	107.41	108.41	DC	41.86
163902094	314924	8SURREY	500.0	DVP	314903	8CHCKAHM	500.0	DVP	1	DVP_P 4-2: 56372	breaker	3144.0	137.86	138.45	DC	39.18
163902398	314936	8RAWLINGS	500.0	DVP	942930	AE2-313 TAP	500.0	DVP	1	DVP_P 1-2: LN 585-A	single	4070.19995117	121.21	122.19	DC	53.66
163902399	314936	8RAWLINGS	500.0	DVP	942930	AE2-313 TAP	500.0	DVP	1	938490 AE1-068_POI 500 941030 AE2-094 TAP 500 1	single	4070.19995117	117.28	118.26	DC	53.66
163902184	314940	8ROGERSRD	500.0	DVP	938490	AE1-068_POI	500.0	DVP	1	DVP_P 4-2: 51172	breaker	5046.0	104.59	106.12	DC	77.74
163902466	314940	8ROGERSRD	500.0	DVP	938490	AE1-068_POI	500.0	DVP	1	DVP_P 1-2: LN 511-A	single	4070.19995117	112.24	113.16	DC	47.79
163902467	314940	8ROGERSRD	500.0	DVP	938490	AE1-068_POI	500.0	DVP	1	DVP_P 1-2: LN 511-B	single	4070.19995117	107.95	108.83	DC	47.79
163902226	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL	1	DVP_P 1-2: LN 556-D	single	718.0	212.05	218.48	DC	46.12

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE T LOADIN G %	POST PROJE T LOADIN G %	AC D C	MW IMPAC T
16390223 2	92725 0	AC1-221 TAP	230. 0	DVP	30407 0	6PERSON2 30 T	230. 0	CPL	1	Base Case	single	542.0	110.45	111.95	DC	8.11
16927582 3	92726 0	AC1-222 TAP	115. 0	DVP	31468 8	3CRSTL HILL	115. 0	DVP	1	DVP_P 1-2: LN 556-D	single	285.7600097 66	105.36	107.92	DC	7.33
16979105 0	93462 0	AD1-088 TAP	230. 0	DVP	96327 0	AG1-176 TAP	230. 0	DVP	1	DVP_P 1-2: LN 556-D	single	571.5200195 31	144.28	149.4	DC	29.27
16390243 0	93849 0	AE1-068_POI	500. 0	DVP	94103 0	AE2-094 TAP	500. 0	DVP	1	DVP_P 1-2: LN 511-A	single	4070.199951 17	121.43	122.35	DC	47.79
16390243 1	93849 0	AE1-068_POI	500. 0	DVP	94103 0	AE2-094 TAP	500. 0	DVP	1	DVP_P 1-2: LN 511-B	single	4070.199951 17	117.35	118.23	DC	47.79
16390211 4	93941 0	AE1-173_POI	500. 0	DVP	31492 8	8SUFFOLK	500. 0	DVP	1	DVP_P 4-2: 562T56 3	break e r	3144.0	125.99	127.3	DC	44.97
16390212 9	94047 0	AE2-031 TAP	500. 0	DVP	31490 2	8CARSON	500. 0	DVP	1	DVP_P 4-5: W72	break e r	5046.0	121.28	123.01	DC	87.06
16390233 7	94047 0	AE2-031 TAP	500. 0	DVP	31490 2	8CARSON	500. 0	DVP	1	DVP_P 1-2: LN 585-A	single	4070.199951 17	129.22	130.25	DC	53.66
16390233 8	94047 0	AE2-031 TAP	500. 0	DVP	31490 2	8CARSON	500. 0	DVP	1	938490 AE1-068_P OI 500 941030 AE2-094 TAP 500 1	single	4070.199951 17	125.2	126.23	DC	53.66
16390239 0	94103 0	AE2-094 TAP	500. 0	DVP	31490 2	8CARSON	500. 0	DVP	1	DVP_P 1-2: LN 511-A	single	4070.199951 17	126.01	126.93	DC	47.79
16390239 1	94103 0	AE2-094 TAP	500. 0	DVP	31490 2	8CARSON	500. 0	DVP	1	DVP_P 1-2: LN 511-B	single	4070.199951 17	121.93	122.81	DC	47.79
16390237 1	94293 0	AE2-313 TAP	500. 0	DVP	94047 0	AE2-031 TAP	500. 0	DVP	1	DVP_P 1-2: LN 585-A	single	4070.199951 17	124.4	125.38	DC	53.66
16390237 2	94293 0	AE2-313 TAP	500. 0	DVP	94047 0	AE2-031 TAP	500. 0	DVP	1	938490 AE1-068_P OI 500 941030 AE2-094 TAP 500 1	single	4070.199951 17	120.37	121.36	DC	53.66
16979106 4	96249 0	AG1-098 TAP	230. 0	DVP	93462 0	AD1-088 TAP	230. 0	DVP	1	DVP_P 1-2: LN 556-D	single	571.5200195 31	137.53	142.65	DC	29.27
16927555 4	96256 0	AG1-105 TAP	230. 0	DVP	31469 7	6SEDGE HILL	230. 0	DVP	1	DVP_P 1-2: LN 556-D	single	814.9799804 69	167.31	174.71	DC	60.32
16927581 3	96447 0	AG1-310 TAP	115. 0	DVP	31471 4	3PERTH	115. 0	DVP	1	DVP_P 1-2: LN 556-D	single	285.7600097 66	100.49	103.06	DC	7.33

11.4 Potential Congestion due to Local Energy Deliverability

PJM also studied the delivery of the energy portion of this interconnection request. Any problems identified below are likely to result in operational restrictions to the project under study. The developer can proceed

with network upgrades to eliminate the operational restriction at their discretion by submitting a Merchant Transmission Interconnection request.

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPAC T
168867878	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P 1-2: LN 563	operation	559.299987793	188.65	189.54	DC	10.98
168868135	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P 1-2: LN 563	operation	678.679992676	128.75	129.37	DC	9.37
168867888	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P 1-2: LN 563	operation	559.299987793	184.85	185.73	DC	10.98
168867911	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P 1-2: LN 563	operation	441.799987793	171.6	172.46	DC	8.36
168867958	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 563	operation	441.799987793	155.81	156.7	DC	8.73
168867907	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P 1-2: LN 563	operation	441.799987793	171.63	172.48	DC	8.36
169275576	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P 1-2: LN 556-D	operation	814.979980469	201.31	213.64	DC	100.53
169275618	314686	6CLOVER	230.0	DVP	962490	AG1-098 TAP	230.0	DVP	1	DVP_P 1-2: LN 556-D	operation	571.520019531	170.85	179.38	DC	48.78
169275572	314690	6BLACK WALNU	230.0	DVP	962560	AG1-105 TAP	230.0	DVP	1	DVP_P 1-2: LN 556-D	operation	814.979980469	213.41	225.75	DC	100.53
169275508	314697	6SEGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P 1-2: LN 556-D	operation	674.91998291	289.49	300.83	DC	76.88
169275512	314697	6SEGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	Base Case	operation	509.480010986	143.36	144.56	DC	13.52
169275832	314697	6SEGE HILL	230.0	DVP	314696	3SEGE HILL	115.0	DVP	1	DVP_P 1-2: LN 556-D	operation	226.727996826	99.45	101.81	DC	11.88
169275703	314714	3PERTH	115.0	DVP	942750	AE2-291 TAP	115.0	DVP	1	DVP_P 1-2: LN 556-D	operation	285.760009766	122.92	124.84	DC	12.17
163902344	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	DVP_P 1-2: LN 567	operation	3218.56005859	151.07	151.8	DC	48.31
163902353	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	Base Case	operation	3218.56005859	122.45	122.74	DC	42.21
168867868	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 563	operation	903.903991699	191.38	193.87	DC	22.51
163902310	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 1-2: LN 574	operation	2442.12011719	186.79	186.93	DC	44.88
163902320	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	Base Case	operation	2442.12011719	139.05	139.25	DC	37.33
168867921	314914	8MDLTHA N	500.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P 1-2: LN 576	operation	1058.15795898	173.49	174.13	DC	18.9

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPAC T
1639024 40	31492 3	8SEPTA	500. 0	DVP	31492 4	8SURREY	500. 0	DVP	1	DVP_P 1-2: LN 563	operatio n	2442.120117 19	134.21	135.63	DC	34.49
1639024 87	31493 5	8HERITAG E	500. 0	DVP	31494 0	8ROGERS RD	500. 0	DVP	1	DVP_P 1-2: LN 511-A	operatio n	3256.159912 11	119.99	122.34	DC	80.94
1639023 95	31493 6	8RAWLIN GS	500. 0	DVP	94293 0	AE2-313 TAP	500. 0	DVP	1	DVP_P 1-2: LN 585-A	operatio n	4070.199951 17	142.6	144.8	DC	89.43
1639024 63	31494 0	8ROGERS RD	500. 0	DVP	93849 0	AE1-068_POI	500. 0	DVP	1	DVP_P 1-2: LN 511-A	operatio n	4070.199951 17	128.51	130.43	DC	79.66
1639022 21	92725 0	AC1-221 TAP	230. 0	DVP	30407 0	6PERSON2 30 T	230. 0	CPL	1	DVP_P 1-2: LN 556-D	operatio n	718.0	287.91	298.57	DC	76.88
1639022 31	92725 0	AC1-221 TAP	230. 0	DVP	30407 0	6PERSON2 30 T	230. 0	CPL	1	Base Case	operatio n	542.0	152.94	154.06	DC	13.52
1692758 21	92726 0	AC1-222 TAP	115. 0	DVP	31468 8	3CRSTL HILL	115. 0	DVP	1	DVP_P 1-2: LN 556-D	operatio n	285.7600097 66	98.7	100.63	DC	12.21
1697910 48	93462 0	AD1-088 TAP	230. 0	DVP	96327 0	AG1-176 TAP	230. 0	DVP	1	DVP_P 1-2: LN 556-D	operatio n	571.5200195 31	188.28	196.81	DC	48.78
1639024 27	93849 0	AE1-068_POI	500. 0	DVP	94103 0	AE2-094 TAP	500. 0	DVP	1	DVP_P 1-2: LN 511-A	operatio n	4070.199951 17	137.47	139.24	DC	79.66
1639023 34	94047 0	AE2-031 TAP	500. 0	DVP	31490 2	8CARSON	500. 0	DVP	1	DVP_P 1-2: LN 585-A	operatio n	4070.199951 17	150.08	152.27	DC	89.43
1639023 87	94103 0	AE2-094 TAP	500. 0	DVP	31490 2	8CARSON	500. 0	DVP	1	DVP_P 1-2: LN 511-A	operatio n	4070.199951 17	143.88	145.64	DC	79.66
1639023 68	94293 0	AE2-313 TAP	500. 0	DVP	94047 0	AE2-031 TAP	500. 0	DVP	1	DVP_P 1-2: LN 585-A	operatio n	4070.199951 17	146.43	148.64	DC	89.43
1697910 62	96249 0	AG1-098 TAP	230. 0	DVP	93462 0	AD1-088 TAP	230. 0	DVP	1	DVP_P 1-2: LN 556-D	operatio n	571.5200195 31	179.55	188.09	DC	48.78
1692755 52	96256 0	AG1-105 TAP	230. 0	DVP	31469 7	6SEDGE HILL	230. 0	DVP	1	DVP_P 1-2: LN 556-D	operatio n	814.9799804 69	220.18	232.51	DC	100.53
1692758 11	96447 0	AG1-310 TAP	115. 0	DVP	31471 4	3PERTH	115. 0	DVP	1	DVP_P 1-2: LN 556-D	operatio n	285.7600097 66	102.77	104.69	DC	12.21

11.5 System Reinforcements - Summer Peak Load Flow

ID	Idx	Facility	Upgrade Description	Cost
163902372,163 902371	30	AE2-313 TAP 500.0 kV - AE2- 031 TAP 500.0 kV Ckt 1	<u>DVP</u> dom-183 (1010) : Build new 500 kV Line from Rawlings to Morrisville Substation 110 miles Project Type : CON Cost : \$400,000,000 Time Estimate : 60-72 Months	\$708,730,000
163902338,163 902129,163902 337	28	AE2-031 TAP 500.0 kV - 8CARSON 500.0 kV Ckt 1	n6172 (1058) : Rebuild 37.41 miles of 500 kV Line 563 from Carson to Midlothian with 3-1351.5 125C ACSR. Project Type : FAC Cost : \$115,971,000 Time Estimate : 48-60 Months	
163902092,163 902091,163902 090,163902089	14	8CARSON 500.0 kV - 8MDLTHAN 500.0 kV Ckt 1	n6324 (867) : Replace Terminal Equipment at Surry and Chickahominy Substations Project Type : FAC Cost : \$4,000,000 Time Estimate : 16-18 Months	
163902431,163 902430	26	AE1-068 TAP 500.0 kV - AE2- 094 TAP 500.0 kV Ckt 1	dom-258 (1134) : Rebuild 44.44 miles of 500 kV Line 567 from Surry to Chickahominy with 3-1351.5 ACSR. Project Type : FAC Cost : \$137,764,000 Time Estimate : 48-60 Months	
163902094	20	8SURRY 500.0 kV - 8CHCKAHM 500.0 kV Ckt 1	dom-125 (967) : Rebuild 16.45 miles of 500 kV Line 585 from AE2-094 Tap to Carson with 3-1351.5 125C ACSR. Project Type : FAC Cost : \$50,995,000 Time Estimate : 48-60 Months	
163902398,163 902399	21	8RAWLINGS 500.0 kV - AE2- 313 TAP 500.0 kV Ckt 1		
163902466,163 902184,163902 467	22	8ROGERS RD 500.0 kV - AE1- 068 TAP 500.0 kV Ckt 1		
163902390,163 902391	29	AE2-094 TAP 500.0 kV - 8CARSON 500.0 kV Ckt 1		
168867879	2	6CARSON 230.0 kV - 6CHRL249 230.0 kV Ckt 1	<u>DVP</u> n6112 (1031) : Rebuild 7.47 miles of 230 kV Line 249 from Carson to Chaparral with 2-636 ACSR. Project Type : FAC Cost : \$18,675,000 Time Estimate : 30-36 Months dom-298 (1174) : Rebuild 7.47 miles of 230 kV Line 249 from Carson to Chaparral with 2-795 ACSR 150C. Replace wave trap and Line Lead at Carson Terminal and Line Switch at Chaparral terminal Project Type : FAC Cost : \$19,125,000 Time Estimate : 36-40 Months	\$37,800,000

ID	Idx	Facility	Upgrade Description	Cost
163902311,163 902099,163902 314	17	8MDLTHAN 500.0 kV - 8NO ANNA 500.0 kV Ckt 1	<u>DVP</u> n5609 (1024) : Rebuild 41.13 miles of 500 kV Line 576 from Midlothian to North Anna with 3-1351.5 125C ACSR. Project Type : FAC Cost : \$127,503,000 Time Estimate : 48-60 Months n6055 (1029) : Replace Wave traps at Midlothian and North Anna 500kV substations Project Type : FAC Cost : \$300,000 Time Estimate : 16-18 Months	\$127,803,000
168867889	3	6CHRL249 230.0 kV - 6LOCKS 230.0 kV Ckt 1	<u>DVP</u> n6116 (1034) : Rebuild 2.86 miles of 230 kV Line 249 from Chaparral to Locks with 2-636 ACSR. Project Type : FAC Cost : \$7,150,000 Time Estimate : 30-36 Months	\$7,150,000
169275705	13	3PERTH 115.0 kV - AE2-291 TAP 115.0 kV Ckt 1	<u>DVP</u> dom-356 (1232) : Reconnector 5.67miles of 115 kV Line 31 from Perth to AE2-291 Tap with 768.2 ACSS 250 Project Type : FAC Cost : \$3,402,000 Time Estimate : 30-36 Months	\$3,402,000
168867871,168 867869	16	8CARSON 500.0 kV - 6CARSON 230.0 kV Ckt 1	<u>DVP</u> dom-030 (854) : Add additional 500/230 kV transformer at Carson substation Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
163902232,163 902226	23	AC1-221 TAP 230.0 kV - 6PERSON230 T 230.0 kV Ckt 1	<u>DVP</u> n6449 (828) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-636 ACSR. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months	\$3,000,000
169275823	24	AC1-222 TAP 115.0 kV - 3CRSTL HILL 115.0 kV Ckt 1	<u>DVP</u> dom-119 (961) : Rebuild 0.5 miles of 115 kV Line 1016 from Crystal Hill DP to AC1-222 Tap with 768 ACSS. Project Type : FAC Cost : \$650,000 Time Estimate : 30-36 Months	\$650,000

ID	Idx	Facility	Upgrade Description	Cost
169275486	11	6FARMVIL 230.0 kV - 6BUCKING 230.0 kV Ckt 1	<u>DVP</u> n6245 (861) : Rebuild 12.76 miles of 230 kV Line 298 from Buckingham to Farmville with 2-636 ACSR. Project Type : FAC Cost : \$19,140,000 Time Estimate : 30-36 Months	\$19,140,000
163902182	19	8SEPTA 500.0 kV - 8SURREY 500.0 kV Ckt 1	<u>DVP</u> dom-380 (1256) : Rebuild 11.46 miles of 500 kV Line 578 from Septa to Surry with 3-1351.5 113C ACSR. Replace wave traps at both terminals. Project Type : FAC Cost : \$36,126,000 Time Estimate : 48-60 Months	\$36,126,000
168867912	4	6HARROWG 230.0 kV - 6TYLER1 230.0 kV Ckt 1	<u>DVP</u> n6178 (1062) : Rebuild 4.5 miles of 230 kV Line 2003 from Harrowgate to Tyler with 2-636 ACSR. Project Type : FAC Cost : \$11,250,000 Time Estimate : 30-36 Months	\$11,250,000
168867908	7	6POE 230.0 kV - 6HARROWG 230.0 kV Ckt 1	<u>DVP</u> n6179 (1063) : Rebuild 12.3 miles of 230 kV Line 2003 from Poe to Harrowgate with 2-636 ACSR. Project Type : FAC Cost : \$30,750,000 Time Estimate : 30-36 Months	\$30,750,000
168867922	18	8MDLTHAN 500.0 kV - 6MDLTHAN 230.0 kV Ckt 1	<u>DVP</u> dom-378 (1254) : Add additional 500/230 kV transformer at Midlothian Substation Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
169275841	1	3CRSTL HILL 115.0 kV - AG1- 310 TAP 115.0 kV Ckt 1	<u>DVP</u> dom-344 (1220) : Reconductor 1.005 miles of 115 kV Line 1016 from Crystal Hill to AG1-310 Tap with 768.2 ACSS 250 Project Type : FAC Cost : \$603,000 Time Estimate : 30-36 Months	\$603,000
168867959	6	6LOCKS 230.0 kV - 6HARR205 230.0 kV Ckt 1	<u>DVP</u> dom-165 (993) : Uprate 5.4 miles of 230 kV Line 205 from Locks to Harrowgate with 1033.5 ACSR. Upgrade Relays at Locks. Project Type : FAC Cost : \$2,280,000 Time Estimate : 30-36 Months	\$2,280,000

ID	Idx	Facility	Upgrade Description	Cost
169275513,169275510	12	6SEEDGE HILL 230.0 kV - AC1-221 TAP 230.0 kV Ckt 1	<u>DVP</u> No upgrade needed on Dominion system. Need coordination with CPLE. <u>CPLE</u> The external (i.e. Non-PJM) Transmission Owner, CPLE, will not evaluate this violation until the impact study phase.	\$0
163902166	15	8CARSON 500.0 kV - AE1-173 TAP 500.0 kV Ckt 1	<u>DVP</u> No Violation. Incorrect Ratings in PSSe Case. Actual Ratings are 3464.0/3464.0/4156.0 MVA	\$0
163902114	27	AE1-173 TAP 500.0 kV - 8SUFFOLK 500.0 kV Ckt 1		
169275578	8	6CLOVER 230.0 kV - 6BLACK WALNU 230.0 kV Ckt 1	<u>DVP</u> dom-342 (1218) : Rebuild 0.16 miles of 230 kV Line 2068 from Clover to Black Walnut with 2-768.2 ACSR 250 C. Replace wave trap at Clover terminal. Project Type : FAC Cost : \$440,000 Time Estimate : 30-36 Months	\$440,000
168868032	5	6HARR205 230.0 kV - 6TYLER 230.0 kV Ckt 1	<u>DVP</u> dom-163 (990) : Reconnector 0.64 miles of 230 kV Line 205 from Harrowgate to Tyler with 1033.5 ACSR. Uprate 4.09 miles of 230 kV Line 205 from Harrowgate to Tyler. Project Type : FAC Cost : \$2,148,000 Time Estimate : 30-36 Months	\$2,148,000
169275813	33	AG1-310 TAP 115.0 kV - 3PERTH 115.0 kV Ckt 1	<u>DVP</u> dom-357 (1233) : Reconnector 11.56 miles of 115 kV Line 1016 from Perth to AG1-310 Tap with 768.2 ACSR 250 Project Type : FAC Cost : \$6,936,000 Time Estimate : 36-40 Months	\$6,936,000
169791064	31	AG1-098 TAP 230.0 kV - AD1-088 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-391 (1267) : Rebuild 8.936 miles of 230 kV line 235 from AD1-088 Tap to AG1-098 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$22,340,000 Time Estimate : 36-40 Months	\$22,340,000

ID	Idx	Facility	Upgrade Description	Cost
169275620	9	6CLOVER 230.0 kV - AG1-098 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-343 (1219) : Rebuild 6.534 miles of 230 kV Line 235 from Clover to AG1-098 with 2-795 ACSR 150 C. Replace Relay (Secondary CT) at Clover terminal Project Type : FAC Cost : \$16,455,000 Time Estimate : 36-40 Months	\$16,455,000
169791050	25	AD1-088 TAP 230.0 kV - AG1-176 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-392 (1268) : Rebuild 2.729 miles of 230 kV line 235 from AD1-088 Tap to AG1-176 Tap with 2-636 ACSR 150 C. Project Type : FAC Cost : \$6,822,500 Time Estimate : 30-36 Months	\$6,822,500
169275574	10	6BLACK WALNU 230.0 kV - AG1-105 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-345 (1221) : Rebuild 3.441 miles of 230 kV Line 2068 from AG1-105 to Black Walnut with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$5,161,500 Time Estimate : 30-36 Months	\$5,161,500
169275554	32	AG1-105 TAP 230.0 kV - 6SEEDGE HILL 230.0 kV Ckt 1	<u>DVP</u> dom-412 (1288) : Rebuild 13.3 miles of 230 kV Line 2068 from AG1-105 to Sedge Hill with 2-768.2 ACSS 250 C. Replace Wave Trap at Sedge Hill terminal. Project Type : FAC Cost : \$20,150,000 Time Estimate : 36-40 Months	\$20,150,000
			TOTAL COST	\$1,113,137,000

11.6 Flow Gate Details

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

11.6.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169275841	314688	3CRSTL HILL	DVP	964470	AG1-310 TAP	DVP	1	DVP_P1-2: LN 556-D	single	285.76	99.34	101.9	DC	7.33

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957481	AF2-042 C	24.4170	80/20	24.4170
958211	AF2-115 C	0.9440	80/20	0.9440
958801	AF2-171 C	5.6754	80/20	5.6754
959311	AF2-222 C	6.9200	80/20	6.9200
959751	AF2-266	4.0690	80/20	4.0690
960061	AF2-297 C	7.6483	80/20	7.6483
961791	AG1-021 C	0.7552	80/20	0.7552
961891	AG1-030 C	5.8941	80/20	5.8941
962041	AG1-048 C	4.7198	80/20	4.7198
962441	AG1-093 C O1	13.1312	80/20	13.1312
962491	AG1-098 C O1	5.5710	80/20	5.5710
962561	AG1-105 C O1	5.0340	80/20	5.0340
963171	AG1-166 C	0.7552	80/20	0.7552
963181	AG1-167 C	0.7552	80/20	0.7552
963191	AG1-168 C	0.7552	80/20	0.7552
963201	AG1-169 C	0.7552	80/20	0.7552
963211	AG1-170 C	0.7552	80/20	0.7552
963271	AG1-176 C O1	5.9319	80/20	5.9319
963321	AG1-181 C O1	7.2279	80/20	7.2279
963361	AG1-185 O1	3.4971	80/20	3.4971
963641	AG1-215 C	0.3524	80/20	0.3524
964111	AG1-272 C	1.0833	80/20	1.0833
964121	AG1-273 C	1.0833	80/20	1.0833
964131	AG1-274 C	1.0833	80/20	1.0833
964241	AG1-285 C O1	5.7360	80/20	5.7360
964261	AG1-287 C	1.4341	80/20	1.4341
964791	AG1-342 C	3.1737	80/20	3.1737
964821	AG1-345 C	0.3025	80/20	0.3025
964841	AG1-347 C	3.6966	80/20	3.6966
964931	AG1-357 C	9.7668	80/20	9.7668
965191	AG1-384 C	1.0833	80/20	1.0833
965281	AG1-393 C	0.7552	80/20	0.7552
965451	AG1-413 C O1	2.3861	80/20	2.3861
965591	AG1-427 C	5.4264	80/20	5.4264
965641	AG1-432 C O1	6.3864	80/20	6.3864
965721	AG1-440 C	2.5812	80/20	2.5812
965731	AG1-441 C	2.5812	80/20	2.5812
965771	AG1-445	1.4914	80/20	1.4914
965781	AG1-446	1.4914	80/20	1.4914
965831	AG1-451	1.0644	80/20	1.0644
966361	AG1-505 C	7.3251	80/20	7.3251
966371	AG1-506 C	7.3251	80/20	7.3251
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.6386	80/20	0.6386
CPL	CPL	1.2517	Confirmed LTF	1.2517
G-007A	G-007A	0.3021	Confirmed LTF	0.3021
VFT	VFT	0.7998	Confirmed LTF	0.7998
PRAIRIE	PRAIRIE	0.4159	Confirmed LTF	0.4159
TVA	TVA	0.0266	Confirmed LTF	0.0266
CBM-S2	CBM-S2	11.1604	Confirmed LTF	11.1604
CBM-N	CBM-N	0.1440	Confirmed LTF	0.1440
GIBSON	GIBSON	0.1491	Confirmed LTF	0.1491

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
BLUEG	BLUEG	0.5312	Confirmed LTF	0.5312
TRIMBLE	TRIMBLE	0.1731	Confirmed LTF	0.1731
LAGN	LAGN	0.0822	Confirmed LTF	0.0822

11.6.2 Index 2

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168867879	314282	6CARSON	DVP	314285	6CHRL249	DVP	1	DVP_P1-2: LN 563	single	559.3	174.85	176.0	DC	6.59

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

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

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

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

11.6.3 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
168867889	314285	6CHRL249	DVP	314316	6LOCKS	DVP	1	DVP_P1-2: LN 563	single	559.3	171.04	172.19	DC	6.59

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

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

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

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

11.6.4 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
168867912	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P1-2: LN 563	single	441.8	151.22	152.32	DC	5.01

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.3710	80/20	3.3710
313719	3CHESTNUT	0.4186	80/20	0.4186
314435	6SAPONY	0.3020	80/20	0.3020
314572	3EMPORIA	0.2256	80/20	0.2256
314582	3KELFORD	0.1281	80/20	0.1281
314589	3MURPHYS	0.0323	80/20	0.0323
314623	3WITAKRS	0.0765	80/20	0.0765
314704	3LAWRENC	0.1387	80/20	0.1387
315102	1BRUNSWICKG1	2.4537	80/20	2.4537
315103	1BRUNSWICKG2	2.4537	80/20	2.4537
315104	1BRUNSWICKG3	2.4537	80/20	2.4537
315105	1BRUNSWICKS1	5.0976	80/20	5.0976
315115	1S HAMPT1	0.5403	80/20	0.5403
315126	1ROARAP2	0.5660	80/20	0.5660
315128	1ROARAP4	0.5401	80/20	0.5401
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.2550	80/20	3.2550
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.2550	80/20	3.2550
315136	1ROSEMG1	0.9338	80/20	0.9338
315137	1ROSEMS1	0.5791	80/20	0.5791
315138	1ROSEMG2	0.4377	80/20	0.4377
315139	1GASTONA	1.3920	80/20	1.3920
315141	1GASTONB	1.3920	80/20	1.3920
315159	1KERR 2	0.3447	80/20	0.3447
315160	1KERR 3	0.3447	80/20	0.3447
315161	1KERR 4	0.3447	80/20	0.3447
315162	1KERR 5	0.3447	80/20	0.3447
315163	1KERR 6	0.3447	80/20	0.3447
315164	1KERR 7	0.3447	80/20	0.3447
315241	1Z1-086 GT1	3.1549	80/20	3.1549
315242	1Z1-086 GT2	3.1549	80/20	3.1549
315243	1Z1-086 GT3	3.1549	80/20	3.1549
315244	1Z1-086 ST	5.4843	80/20	5.4843
315293	1DOMTR9	1.7503	Adder	2.06
315294	1DOMTR10	2.1450	Adder	2.52
315601	1CONETOE2SOL	0.4539	80/20	0.4539
315602	1HOLLOMANSOL	0.4740	80/20	0.4740
315606	3AA2-053SOLA	0.5973	80/20	0.5973
315607	3AA1-063SOLA	0.5544	80/20	0.5544
315608	3AA2-088SOLA	0.3920	80/20	0.3920
316020	AB2-059 C OP	0.5832	80/20	0.5832

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316083	AB2-161 C (Suspended)	3.6003	80/20	3.6003
316087	AB2-174 C	0.5694	80/20	0.5694
316096	AB2-100 C1	0.5685	80/20	0.5685
316098	AB2-100 C2	0.5685	80/20	0.5685
316103	AB2-015 C	3.2120	80/20	3.2120
316129	AC1-054 C	2.6954	80/20	2.6954
316140	AB2-099 C (Suspended)	0.2101	80/20	0.2101
920591	AA2-165 C	0.0562	80/20	0.0562
922922	AB1-081 C OP	0.4949	80/20	0.4949
923991	AB2-040 C O1	3.6714	80/20	3.6714
925591	AC1-034 C	2.3944	80/20	2.3944
926070	AC1-086 C	9.9220	80/20	9.9220
926201	AC1-098 C	2.2985	80/20	2.2985
926211	AC1-099 C	0.7702	80/20	0.7702
927024	AC1-189 C	2.8660	80/20	2.8660
927145	AC1-208 C	3.4775	80/20	3.4775
932581	AC2-078 C O1	4.4132	80/20	4.4132
932591	AC2-079 C O1	4.2148	80/20	4.2148
932631	AC2-084 C	3.2766	80/20	3.2766
933991	AD1-023 C	3.4020	Adder	4.0
934331	AD1-057 C O1	4.0899	80/20	4.0899
934575	AD1-082 C	8.2049	80/20	8.2049
936361	AD2-046 C O1	2.3961	Adder	2.82
936401	AD2-051 C O1	2.9711	80/20	2.9711
936661	AD2-085 C	1.9675	80/20	1.9675
936761	AD2-097 C	-0.5795	Adder	-0.68
938221	AE1-035 C	0.1185	80/20	0.1185
938494	AE1-068_C1	9.4459	80/20	9.4459
938497	AE1-068_C2	9.4459	80/20	9.4459
938504	AE1-069_C1	7.1988	80/20	7.1988
938507	AE1-069_C2	7.7620	80/20	7.7620
938634	AE1-085 C	9.8510	80/20	9.8510
938771	AE1-103 C	1.3373	80/20	1.3373
939181	AE1-148 C	2.3556	Adder	2.77
939195	AE1-149 C	12.8658	80/20	12.8658
939414	AE1-173_C1	7.3956	Adder	8.7
939415	AE1-173_C2	6.3391	Adder	7.46
939416	AE1-173_C3	7.3956	Adder	8.7
940061	AE2-000BC O1	10.9578	80/20	10.9578
940471	AE2-031 C	10.2695	80/20	10.2695
940481	AE2-033 C	11.9803	80/20	11.9803
940541	AE2-040	2.1774	80/20	2.1774
940571	AE2-044 C	1.5683	80/20	1.5683
940641	AE2-051 C O1	5.1129	80/20	5.1129
940651	AE2-052	4.2886	80/20	4.2886
940661	AE2-053 O1	0.8724	Adder	1.03
941031	AE2-094 C	12.3678	80/20	12.3678
941101	AE2-104 C O1	1.1780	80/20	1.1780
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0604	80/20	0.0604
942161	AE2-228 C	-1.0844	Adder	-1.28
942341	AE2-247 C	0.8575	80/20	0.8575

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942471	AE2-260 C O1	9.1780	80/20	9.1780
942931	AE2-313 C	11.1024	80/20	11.1024
943171	AE2-346 C	0.5043	80/20	0.5043
943461	AF1-017 C	0.7758	80/20	0.7758
943911	AF1-059	6.7853	80/20	6.7853
944011	AF1-069 C	4.0410	80/20	4.0410
944141	AF1-082	1.0082	80/20	1.0082
946011	AF1-266	10.0284	80/20	10.0284
946261	AF1-291 C	-1.8452	Adder	-2.17
946281	AF1-292 C	0.8273	80/20	0.8273
957521	AF2-046 C	6.2694	80/20	6.2694
957861	AF2-080 C	2.6030	80/20	2.6030
958161	AF2-110 C	0.4856	80/20	0.4856
959511	AF2-242 C	1.9726	Adder	2.32
959651	AF2-256 C	-0.2711	Adder	-0.32
960081	AF2-299 C	1.3944	80/20	1.3944
961091	AF2-400 C	0.1734	80/20	0.1734
961671	AG1-007 C	0.4216	80/20	0.4216
961681	AG1-008 C	6.2820	80/20	6.2820
961851	AG1-027 C	6.0684	80/20	6.0684
961931	AG1-036 C	0.4969	80/20	0.4969
961941	AG1-037 C	0.1801	80/20	0.1801
962331	AG1-082 C	0.7204	80/20	0.7204
962341	AG1-083 C	0.7204	80/20	0.7204
962351	AG1-084 C	0.6183	80/20	0.6183
962361	AG1-085 C	0.6183	80/20	0.6183
962571	AG1-106 C	2.7592	80/20	2.7592
963041	AG1-153 C	1.7217	80/20	1.7217
963111	AG1-160 C	1.7439	80/20	1.7439
963291	AG1-178 C O1	17.8262	80/20	17.8262
963301	AG1-179 C	2.5632	80/20	2.5632
963311	AG1-180	1.2489	80/20	1.2489
963351	AG1-184 O1	9.6038	80/20	9.6038
964491	AG1-312 C O1	6.2093	80/20	6.2093
964501	AG1-313 C O1	1.8373	80/20	1.8373
964801	AG1-343 C	2.2813	80/20	2.2813
964931	AG1-357 C	6.3144	80/20	6.3144
965291	AG1-394 C	0.7865	80/20	0.7865
965451	AG1-413 C O1	2.8523	80/20	2.8523
965601	AG1-428 C O1	2.1398	80/20	2.1398
965691	AG1-437 C O1	3.1668	80/20	3.1668
965701	AG1-438 C O1	3.1668	80/20	3.1668
965711	AG1-439 C O1	8.1420	80/20	8.1420
965721	AG1-440 C	2.4817	80/20	2.4817
965731	AG1-441 C	2.4817	80/20	2.4817
965741	AG1-442 O1	1.8473	80/20	1.8473
965751	AG1-443 O1	1.8473	80/20	1.8473
965761	AG1-444 O1	4.3424	80/20	4.3424
965771	AG1-445	1.4339	80/20	1.4339
965781	AG1-446	1.4339	80/20	1.4339
965811	AG1-449	7.2004	80/20	7.2004
966361	AG1-505 C	5.0148	80/20	5.0148

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966371	AG1-506 C	5.0148	80/20	5.0148
966621	AG1-532 C	0.7530	80/20	0.7530
966731	AG1-544 C	7.6936	80/20	7.6936
966741	AG1-545 C	2.5440	80/20	2.5440
966751	AG1-546 C	6.0232	80/20	6.0232
966801	AG1-551 C	0.3278	Adder	0.73
966811	AG1-552 C	0.8986	80/20	0.8986
WEC	WEC	0.2255	Confirmed LTF	0.2255
LGEE	LGEE	0.4643	Confirmed LTF	0.4643
CPLE	CPLE	2.4734	Confirmed LTF	2.4734
CBM-W2	CBM-W2	10.0890	Confirmed LTF	10.0890
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.9138	Confirmed LTF	1.9138
SIGE	SIGE	0.1599	Confirmed LTF	0.1599
CBM-S2	CBM-S2	29.1902	Confirmed LTF	29.1902
CBM-S1	CBM-S1	0.4761	Confirmed LTF	0.4761
MEC	MEC	1.3634	Confirmed LTF	1.3634
LAGN	LAGN	2.3800	Confirmed LTF	2.3800
AA2-074	AA2-074	1.6339	LTF	1.6339
CBM-W1	CBM-W1	9.4074	Confirmed LTF	9.4074

11.6.5 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
168868032	314301	6HARR205	DVP	314346	6TYLER	DVP	1	DVP_P1-2: LN 563	single	441.8	144.94	145.77	DC	5.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.5370	80/20	3.5370
313719	3CHESTNUT	0.4248	80/20	0.4248
314314	3LOCKS	0.4064	80/20	0.4064
314435	6SAPONY	0.3331	80/20	0.3331
314572	3EMPORIA	0.2400	80/20	0.2400
314582	3KELFORD	0.1253	80/20	0.1253
314589	3MURPHYS	0.0293	80/20	0.0293
314623	3WITAKRS	0.0778	80/20	0.0778
314704	3LAWRENC	0.1476	80/20	0.1476
315102	1BRUNSWICKG1	2.5619	80/20	2.5619
315103	1BRUNSWICKG2	2.5619	80/20	2.5619
315104	1BRUNSWICKG3	2.5619	80/20	2.5619
315105	1BRUNSWICKS1	5.3223	80/20	5.3223
315126	1ROARAP2	0.5755	80/20	0.5755
315128	1ROARAP4	0.5492	80/20	0.5492
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.3333	80/20	3.3333
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.3333	80/20	3.3333
315136	1ROSEMG1	0.9751	80/20	0.9751
315137	1ROSEMS1	0.6047	80/20	0.6047
315138	1ROSEMG2	0.4570	80/20	0.4570
315139	1GASTONA	1.4561	80/20	1.4561
315141	1GASTONB	1.4561	80/20	1.4561
315158	1KERR 1	0.1272	80/20	0.1272
315159	1KERR 2	0.3562	80/20	0.3562
315160	1KERR 3	0.3562	80/20	0.3562
315161	1KERR 4	0.3562	80/20	0.3562
315162	1KERR 5	0.3562	80/20	0.3562
315163	1KERR 6	0.3562	80/20	0.3562
315164	1KERR 7	0.3562	80/20	0.3562
315241	1Z1-086 GT1	3.2949	80/20	3.2949
315242	1Z1-086 GT2	3.2949	80/20	3.2949
315243	1Z1-086 GT3	3.2949	80/20	3.2949
315244	1Z1-086 ST	5.7278	80/20	5.7278
315601	1CONETOE2SOL	0.4569	80/20	0.4569
315602	1HOLLOMANSOL	0.4561	80/20	0.4561
315606	3AA2-053SOLA	0.6027	80/20	0.6027
315607	3AA1-063SOLA	0.5356	80/20	0.5356
315608	3AA2-088SOLA	0.3403	80/20	0.3403
316020	AB2-059 C OP	0.5962	80/20	0.5962
316083	AB2-161 C (Suspended)	1.0556	80/20	1.0556

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316087	AB2-174 C	0.6005	80/20	0.6005
316096	AB2-100 C1	0.6146	80/20	0.6146
316098	AB2-100 C2	0.6146	80/20	0.6146
316108	AB2-160 C (Suspended)	7.8316	80/20	7.8316
316129	AC1-054 C	2.7621	80/20	2.7621
316140	AB2-099 C (Suspended)	0.1993	80/20	0.1993
920591	AA2-165 C	0.0570	80/20	0.0570
922922	AB1-081 C OP	0.5059	80/20	0.5059
923991	AB2-040 C O1	3.8522	80/20	3.8522
925591	AC1-034 C	2.4479	80/20	2.4479
926070	AC1-086 C	10.3784	80/20	10.3784
926201	AC1-098 C	2.3011	80/20	2.3011
926211	AC1-099 C	0.7711	80/20	0.7711
927024	AC1-189 C	2.8676	80/20	2.8676
927145	AC1-208 C	3.5157	80/20	3.5157
932581	AC2-078 C O1	1.2802	80/20	1.2802
932631	AC2-084 C	3.2803	80/20	3.2803
934331	AD1-057 C O1	4.2371	80/20	4.2371
934575	AD1-082 C	2.4057	80/20	2.4057
936361	AD2-046 C O1	2.9176	80/20	2.9176
936401	AD2-051 C O1	2.8684	80/20	2.8684
936761	AD2-097 C	-0.6015	Adder	-0.71
938221	AE1-035 C	0.1140	80/20	0.1140
938494	AE1-068_C1	9.8661	80/20	9.8661
938497	AE1-068_C2	9.8661	80/20	9.8661
938504	AE1-069_C1	7.5191	80/20	7.5191
938507	AE1-069_C2	8.1073	80/20	8.1073
938634	AE1-085 C	2.8325	80/20	2.8325
939181	AE1-148 C	2.8690	80/20	2.8690
939195	AE1-149 C	3.5496	80/20	3.5496
940061	AE2-000BC O1	3.2742	80/20	3.2742
940431	AE2-027 C O1	11.7007	80/20	11.7007
940471	AE2-031 C	10.7306	80/20	10.7306
940481	AE2-033 C	13.1880	80/20	13.1880
940541	AE2-040	2.4021	80/20	2.4021
940571	AE2-044 C	1.6033	80/20	1.6033
940641	AE2-051 C O1	5.3001	80/20	5.3001
940651	AE2-052	1.1832	80/20	1.1832
941031	AE2-094 C	12.9210	80/20	12.9210
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0582	80/20	0.0582
942001	AE2-212 C	7.5800	80/20	7.5800
942161	AE2-228 C	-2.0735	Adder	-2.44
942371	AE2-250 C O1	13.9115	80/20	13.9115
942471	AE2-260 C O1	9.9513	80/20	9.9513
942931	AE2-313 C	11.5998	80/20	11.5998
943171	AE2-346 C	0.4783	80/20	0.4783
943911	AF1-059	7.1860	80/20	7.1860
944011	AF1-069 C	4.2218	80/20	4.2218
944141	AF1-082	1.0307	80/20	1.0307
946011	AF1-266	11.0394	80/20	11.0394
946261	AF1-291 C	-1.2662	Adder	-1.49

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946281	AF1-292 C	0.8841	80/20	0.8841
957521	AF2-046 C	5.7225	80/20	5.7225
957861	AF2-080 C	2.6045	80/20	2.6045
958141	AF2-108	4.4468	80/20	4.4468
959651	AF2-256 C	-0.5184	Adder	-0.61
959671	AF2-258 C	1.8950	80/20	1.8950
959681	AF2-259 C	6.6702	80/20	6.6702
960081	AF2-299 C	1.4901	80/20	1.4901
961671	AG1-007 C	0.4263	80/20	0.4263
961681	AG1-008 C	5.7340	80/20	5.7340
961931	AG1-036 C	0.4628	80/20	0.4628
961941	AG1-037 C	0.1708	80/20	0.1708
962271	AG1-075 C O1	24.0102	80/20	24.0102
962331	AG1-082 C	0.6833	80/20	0.6833
962341	AG1-083 C	0.6833	80/20	0.6833
962351	AG1-084 C	0.5962	80/20	0.5962
962361	AG1-085 C	0.5962	80/20	0.5962
962571	AG1-106 C	2.8862	80/20	2.8862
963041	AG1-153 C	1.7976	80/20	1.7976
963111	AG1-160 C	1.8213	80/20	1.8213
963291	AG1-178 C O1	18.4111	80/20	18.4111
963301	AG1-179 C	2.7238	80/20	2.7238
963311	AG1-180	1.3271	80/20	1.3271
963351	AG1-184 O1	9.9189	80/20	9.9189
964491	AG1-312 C O1	5.9595	80/20	5.9595
964501	AG1-313 C O1	1.8357	80/20	1.8357
964801	AG1-343 C	2.0188	80/20	2.0188
964931	AG1-357 C	6.5940	80/20	6.5940
965291	AG1-394 C	0.6928	80/20	0.6928
965451	AG1-413 C O1	3.0207	80/20	3.0207
965601	AG1-428 C O1	2.2739	80/20	2.2739
965711	AG1-439 C O1	8.1960	80/20	8.1960
965721	AG1-440 C	2.5556	80/20	2.5556
965731	AG1-441 C	2.5556	80/20	2.5556
965761	AG1-444 O1	4.3712	80/20	4.3712
965771	AG1-445	1.4765	80/20	1.4765
965781	AG1-446	1.4765	80/20	1.4765
965811	AG1-449	7.5237	80/20	7.5237
966361	AG1-505 C	5.2371	80/20	5.2371
966371	AG1-506 C	5.2371	80/20	5.2371
966621	AG1-532 C	0.8047	80/20	0.8047
966731	AG1-544 C	2.2122	80/20	2.2122
966741	AG1-545 C	0.7345	80/20	0.7345
966751	AG1-546 C	6.1667	80/20	6.1667
966811	AG1-552 C	0.9138	80/20	0.9138
WEC	WEC	0.2353	Confirmed LTF	0.2353
LGEE	LGEE	0.4844	Confirmed LTF	0.4844
CPL	CPL	2.5498	Confirmed LTF	2.5498
CBM-W2	CBM-W2	10.4742	Confirmed LTF	10.4742
NY	NY	0.3561	Confirmed LTF	0.3561
TVA	TVA	1.9852	Confirmed LTF	1.9852
SIG	SIG	0.1646	Confirmed LTF	0.1646

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

11.6.6 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
168867959	314316	6LOCKS	DVP	314301	6HARR205	DVP	1	DVP_P1-2: LN 563	single	441.8	150.11	150.94	DC	5.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.5370	80/20	3.5370
313719	3CHESTNUT	0.4248	80/20	0.4248
314314	3LOCKS	0.4064	80/20	0.4064
314435	6SAPONY	0.3331	80/20	0.3331
314572	3EMPORIA	0.2400	80/20	0.2400
314582	3KELFORD	0.1253	80/20	0.1253
314589	3MURPHYS	0.0293	80/20	0.0293
314623	3WITAKRS	0.0778	80/20	0.0778
314704	3LAWRENC	0.1476	80/20	0.1476
315102	1BRUNSWICKG1	2.5619	80/20	2.5619
315103	1BRUNSWICKG2	2.5619	80/20	2.5619
315104	1BRUNSWICKG3	2.5619	80/20	2.5619
315105	1BRUNSWICKS1	5.3223	80/20	5.3223
315126	1ROARAP2	0.5755	80/20	0.5755
315128	1ROARAP4	0.5492	80/20	0.5492
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.3333	80/20	3.3333
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.3333	80/20	3.3333
315136	1ROSEMG1	0.9751	80/20	0.9751
315137	1ROSEMS1	0.6047	80/20	0.6047
315138	1ROSEMG2	0.4570	80/20	0.4570
315139	1GASTONA	1.4561	80/20	1.4561
315141	1GASTONB	1.4561	80/20	1.4561
315158	1KERR 1	0.1272	80/20	0.1272
315159	1KERR 2	0.3562	80/20	0.3562
315160	1KERR 3	0.3562	80/20	0.3562
315161	1KERR 4	0.3562	80/20	0.3562
315162	1KERR 5	0.3562	80/20	0.3562
315163	1KERR 6	0.3562	80/20	0.3562
315164	1KERR 7	0.3562	80/20	0.3562
315241	1Z1-086 GT1	3.2949	80/20	3.2949
315242	1Z1-086 GT2	3.2949	80/20	3.2949
315243	1Z1-086 GT3	3.2949	80/20	3.2949
315244	1Z1-086 ST	5.7278	80/20	5.7278
315601	1CONETOE2SOL	0.4569	80/20	0.4569
315602	1HOLLOMANSOL	0.4561	80/20	0.4561
315606	3AA2-053SOLA	0.6027	80/20	0.6027
315607	3AA1-063SOLA	0.5356	80/20	0.5356
315608	3AA2-088SOLA	0.3403	80/20	0.3403
316020	AB2-059 C OP	0.5962	80/20	0.5962
316083	AB2-161 C (Suspended)	1.0556	80/20	1.0556

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316087	AB2-174 C	0.6005	80/20	0.6005
316096	AB2-100 C1	0.6146	80/20	0.6146
316098	AB2-100 C2	0.6146	80/20	0.6146
316108	AB2-160 C (Suspended)	7.8316	80/20	7.8316
316129	AC1-054 C	2.7621	80/20	2.7621
316140	AB2-099 C (Suspended)	0.1993	80/20	0.1993
920591	AA2-165 C	0.0570	80/20	0.0570
922922	AB1-081 C OP	0.5059	80/20	0.5059
923991	AB2-040 C O1	3.8522	80/20	3.8522
925591	AC1-034 C	2.4479	80/20	2.4479
926070	AC1-086 C	10.3784	80/20	10.3784
926201	AC1-098 C	2.3011	80/20	2.3011
926211	AC1-099 C	0.7711	80/20	0.7711
927024	AC1-189 C	2.8676	80/20	2.8676
927145	AC1-208 C	3.5157	80/20	3.5157
932581	AC2-078 C O1	1.2802	80/20	1.2802
932631	AC2-084 C	3.2803	80/20	3.2803
934331	AD1-057 C O1	4.2371	80/20	4.2371
934575	AD1-082 C	2.4057	80/20	2.4057
936361	AD2-046 C O1	2.9176	80/20	2.9176
936401	AD2-051 C O1	2.8684	80/20	2.8684
936761	AD2-097 C	-0.6015	Adder	-0.71
938221	AE1-035 C	0.1140	80/20	0.1140
938494	AE1-068_C1	9.8661	80/20	9.8661
938497	AE1-068_C2	9.8661	80/20	9.8661
938504	AE1-069_C1	7.5191	80/20	7.5191
938507	AE1-069_C2	8.1073	80/20	8.1073
938634	AE1-085 C	2.8325	80/20	2.8325
939181	AE1-148 C	2.8690	80/20	2.8690
939195	AE1-149 C	3.5496	80/20	3.5496
940061	AE2-000BC O1	3.2742	80/20	3.2742
940431	AE2-027 C O1	11.7007	80/20	11.7007
940471	AE2-031 C	10.7306	80/20	10.7306
940481	AE2-033 C	13.1880	80/20	13.1880
940541	AE2-040	2.4021	80/20	2.4021
940571	AE2-044 C	1.6033	80/20	1.6033
940641	AE2-051 C O1	5.3001	80/20	5.3001
940651	AE2-052	1.1832	80/20	1.1832
941031	AE2-094 C	12.9210	80/20	12.9210
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0582	80/20	0.0582
942161	AE2-228 C	-2.0735	Adder	-2.44
942371	AE2-250 C O1	13.9115	80/20	13.9115
942471	AE2-260 C O1	9.9513	80/20	9.9513
942931	AE2-313 C	11.5998	80/20	11.5998
943171	AE2-346 C	0.4783	80/20	0.4783
943911	AF1-059	7.1860	80/20	7.1860
944011	AF1-069 C	4.2218	80/20	4.2218
944141	AF1-082	1.0307	80/20	1.0307
946011	AF1-266	11.0394	80/20	11.0394
946261	AF1-291 C	-1.2662	Adder	-1.49
946281	AF1-292 C	0.8841	80/20	0.8841

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957521	AF2-046 C	5.7225	80/20	5.7225
957861	AF2-080 C	2.6045	80/20	2.6045
958141	AF2-108	4.4468	80/20	4.4468
959651	AF2-256 C	-0.5184	Adder	-0.61
959681	AF2-259 C	6.6702	80/20	6.6702
960081	AF2-299 C	1.4901	80/20	1.4901
961671	AG1-007 C	0.4263	80/20	0.4263
961681	AG1-008 C	5.7340	80/20	5.7340
961931	AG1-036 C	0.4628	80/20	0.4628
961941	AG1-037 C	0.1708	80/20	0.1708
962271	AG1-075 C O1	24.0102	80/20	24.0102
962331	AG1-082 C	0.6833	80/20	0.6833
962341	AG1-083 C	0.6833	80/20	0.6833
962351	AG1-084 C	0.5962	80/20	0.5962
962361	AG1-085 C	0.5962	80/20	0.5962
962571	AG1-106 C	2.8862	80/20	2.8862
963041	AG1-153 C	1.7976	80/20	1.7976
963111	AG1-160 C	1.8213	80/20	1.8213
963291	AG1-178 C O1	18.4111	80/20	18.4111
963301	AG1-179 C	2.7238	80/20	2.7238
963311	AG1-180	1.3271	80/20	1.3271
963351	AG1-184 O1	9.9189	80/20	9.9189
964491	AG1-312 C O1	5.9595	80/20	5.9595
964501	AG1-313 C O1	1.8357	80/20	1.8357
964801	AG1-343 C	2.0188	80/20	2.0188
964931	AG1-357 C	6.5940	80/20	6.5940
965291	AG1-394 C	0.6928	80/20	0.6928
965451	AG1-413 C O1	3.0207	80/20	3.0207
965601	AG1-428 C O1	2.2739	80/20	2.2739
965711	AG1-439 C O1	8.1960	80/20	8.1960
965721	AG1-440 C	2.5556	80/20	2.5556
965731	AG1-441 C	2.5556	80/20	2.5556
965761	AG1-444 O1	4.3712	80/20	4.3712
965771	AG1-445	1.4765	80/20	1.4765
965781	AG1-446	1.4765	80/20	1.4765
965811	AG1-449	7.5237	80/20	7.5237
966361	AG1-505 C	5.2371	80/20	5.2371
966371	AG1-506 C	5.2371	80/20	5.2371
966621	AG1-532 C	0.8047	80/20	0.8047
966731	AG1-544 C	2.2122	80/20	2.2122
966741	AG1-545 C	0.7345	80/20	0.7345
966751	AG1-546 C	6.1667	80/20	6.1667
966811	AG1-552 C	0.9138	80/20	0.9138
WEC	WEC	0.2353	Confirmed LTF	0.2353
LGEE	LGEE	0.4844	Confirmed LTF	0.4844
CPL	CPL	2.5498	Confirmed LTF	2.5498
CBM-W2	CBM-W2	10.4742	Confirmed LTF	10.4742
NY	NY	0.3561	Confirmed LTF	0.3561
TVA	TVA	1.9852	Confirmed LTF	1.9852
SIGE	SIGE	0.1646	Confirmed LTF	0.1646
CBM-S2	CBM-S2	30.1507	Confirmed LTF	30.1507
CBM-S1	CBM-S1	0.4940	Confirmed LTF	0.4940

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
MEC	MEC	1.4190	Confirmed LTF	1.4190
LAGN	LAGN	2.4675	Confirmed LTF	2.4675
AA2-074	AA2-074	1.6843	LTF	1.6843
CBM-W1	CBM-W1	9.8280	Confirmed LTF	9.8280

11.6.7 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
168867908	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P1-2: LN 563	single	441.8	151.24	152.34	DC	5.01

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.3710	80/20	3.3710
313719	3CHESTNUT	0.4186	80/20	0.4186
314435	6SAPONY	0.3020	80/20	0.3020
314572	3EMPORIA	0.2256	80/20	0.2256
314582	3KELFORD	0.1281	80/20	0.1281
314589	3MURPHYS	0.0323	80/20	0.0323
314623	3WITAKRS	0.0765	80/20	0.0765
314704	3LAWRENC	0.1387	80/20	0.1387
315102	1BRUNSWICKG1	2.4537	80/20	2.4537
315103	1BRUNSWICKG2	2.4537	80/20	2.4537
315104	1BRUNSWICKG3	2.4537	80/20	2.4537
315105	1BRUNSWICKS1	5.0976	80/20	5.0976
315115	1S HAMPT1	0.5403	80/20	0.5403
315126	1ROARAP2	0.5660	80/20	0.5660
315128	1ROARAP4	0.5401	80/20	0.5401
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.2550	80/20	3.2550
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.2550	80/20	3.2550
315136	1ROSEMG1	0.9338	80/20	0.9338
315137	1ROSEMS1	0.5791	80/20	0.5791
315138	1ROSEMG2	0.4377	80/20	0.4377
315139	1GASTONA	1.3920	80/20	1.3920
315141	1GASTONB	1.3920	80/20	1.3920
315159	1KERR 2	0.3447	80/20	0.3447
315160	1KERR 3	0.3447	80/20	0.3447
315161	1KERR 4	0.3447	80/20	0.3447
315162	1KERR 5	0.3447	80/20	0.3447
315163	1KERR 6	0.3447	80/20	0.3447
315164	1KERR 7	0.3447	80/20	0.3447
315241	1Z1-086 GT1	3.1549	80/20	3.1549
315242	1Z1-086 GT2	3.1549	80/20	3.1549
315243	1Z1-086 GT3	3.1549	80/20	3.1549
315244	1Z1-086 ST	5.4843	80/20	5.4843
315293	1DOMTR9	1.7503	Adder	2.06
315294	1DOMTR10	2.1450	Adder	2.52
315601	1CONETOE2SOL	0.4539	80/20	0.4539
315602	1HOLLOMANSOL	0.4740	80/20	0.4740
315606	3AA2-053SOLA	0.5973	80/20	0.5973
315607	3AA1-063SOLA	0.5544	80/20	0.5544
315608	3AA2-088SOLA	0.3920	80/20	0.3920
316020	AB2-059 C OP	0.5832	80/20	0.5832

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316083	AB2-161 C (Suspended)	3.6003	80/20	3.6003
316087	AB2-174 C	0.5694	80/20	0.5694
316096	AB2-100 C1	0.5685	80/20	0.5685
316098	AB2-100 C2	0.5685	80/20	0.5685
316103	AB2-015 C	3.2120	80/20	3.2120
316129	AC1-054 C	2.6954	80/20	2.6954
316140	AB2-099 C (Suspended)	0.2101	80/20	0.2101
920591	AA2-165 C	0.0562	80/20	0.0562
922922	AB1-081 C OP	0.4949	80/20	0.4949
923991	AB2-040 C O1	3.6714	80/20	3.6714
925591	AC1-034 C	2.3944	80/20	2.3944
926070	AC1-086 C	9.9220	80/20	9.9220
926201	AC1-098 C	2.2985	80/20	2.2985
926211	AC1-099 C	0.7702	80/20	0.7702
927024	AC1-189 C	2.8660	80/20	2.8660
927145	AC1-208 C	3.4775	80/20	3.4775
932581	AC2-078 C O1	4.4132	80/20	4.4132
932591	AC2-079 C O1	4.2148	80/20	4.2148
932631	AC2-084 C	3.2766	80/20	3.2766
933991	AD1-023 C	3.4020	Adder	4.0
934331	AD1-057 C O1	4.0899	80/20	4.0899
934575	AD1-082 C	8.2049	80/20	8.2049
936361	AD2-046 C O1	2.3961	Adder	2.82
936401	AD2-051 C O1	2.9711	80/20	2.9711
936661	AD2-085 C	1.9675	80/20	1.9675
936761	AD2-097 C	-0.5795	Adder	-0.68
938221	AE1-035 C	0.1185	80/20	0.1185
938494	AE1-068_C1	9.4459	80/20	9.4459
938497	AE1-068_C2	9.4459	80/20	9.4459
938504	AE1-069_C1	7.1988	80/20	7.1988
938507	AE1-069_C2	7.7620	80/20	7.7620
938634	AE1-085 C	9.8510	80/20	9.8510
938771	AE1-103 C	1.3373	80/20	1.3373
939181	AE1-148 C	2.3556	Adder	2.77
939195	AE1-149 C	12.8658	80/20	12.8658
939414	AE1-173_C1	7.3956	Adder	8.7
939415	AE1-173_C2	6.3391	Adder	7.46
939416	AE1-173_C3	7.3956	Adder	8.7
940061	AE2-000BC O1	10.9578	80/20	10.9578
940471	AE2-031 C	10.2695	80/20	10.2695
940481	AE2-033 C	11.9803	80/20	11.9803
940541	AE2-040	2.1774	80/20	2.1774
940571	AE2-044 C	1.5683	80/20	1.5683
940641	AE2-051 C O1	5.1129	80/20	5.1129
940651	AE2-052	4.2886	80/20	4.2886
940661	AE2-053 O1	0.8724	Adder	1.03
941031	AE2-094 C	12.3678	80/20	12.3678
941101	AE2-104 C O1	1.1780	80/20	1.1780
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0604	80/20	0.0604
942161	AE2-228 C	-1.0844	Adder	-1.28
942341	AE2-247 C	0.8575	80/20	0.8575

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942471	AE2-260 C O1	9.1780	80/20	9.1780
942931	AE2-313 C	11.1024	80/20	11.1024
943171	AE2-346 C	0.5043	80/20	0.5043
943461	AF1-017 C	0.7758	80/20	0.7758
943911	AF1-059	6.7853	80/20	6.7853
944011	AF1-069 C	4.0410	80/20	4.0410
944141	AF1-082	1.0082	80/20	1.0082
946011	AF1-266	10.0284	80/20	10.0284
946261	AF1-291 C	-1.8452	Adder	-2.17
946281	AF1-292 C	0.8273	80/20	0.8273
957521	AF2-046 C	6.2694	80/20	6.2694
957861	AF2-080 C	2.6030	80/20	2.6030
958161	AF2-110 C	0.4856	80/20	0.4856
959511	AF2-242 C	1.9726	Adder	2.32
959651	AF2-256 C	-0.2711	Adder	-0.32
960081	AF2-299 C	1.3944	80/20	1.3944
961091	AF2-400 C	0.1734	80/20	0.1734
961671	AG1-007 C	0.4216	80/20	0.4216
961681	AG1-008 C	6.2820	80/20	6.2820
961851	AG1-027 C	6.0684	80/20	6.0684
961931	AG1-036 C	0.4969	80/20	0.4969
961941	AG1-037 C	0.1801	80/20	0.1801
962331	AG1-082 C	0.7204	80/20	0.7204
962341	AG1-083 C	0.7204	80/20	0.7204
962351	AG1-084 C	0.6183	80/20	0.6183
962361	AG1-085 C	0.6183	80/20	0.6183
962571	AG1-106 C	2.7592	80/20	2.7592
963041	AG1-153 C	1.7217	80/20	1.7217
963111	AG1-160 C	1.7439	80/20	1.7439
963291	AG1-178 C O1	17.8262	80/20	17.8262
963301	AG1-179 C	2.5632	80/20	2.5632
963311	AG1-180	1.2489	80/20	1.2489
963351	AG1-184 O1	9.6038	80/20	9.6038
964491	AG1-312 C O1	6.2093	80/20	6.2093
964501	AG1-313 C O1	1.8373	80/20	1.8373
964801	AG1-343 C	2.2813	80/20	2.2813
964931	AG1-357 C	6.3144	80/20	6.3144
965291	AG1-394 C	0.7865	80/20	0.7865
965451	AG1-413 C O1	2.8523	80/20	2.8523
965601	AG1-428 C O1	2.1398	80/20	2.1398
965691	AG1-437 C O1	3.1668	80/20	3.1668
965701	AG1-438 C O1	3.1668	80/20	3.1668
965711	AG1-439 C O1	8.1420	80/20	8.1420
965721	AG1-440 C	2.4817	80/20	2.4817
965731	AG1-441 C	2.4817	80/20	2.4817
965741	AG1-442 O1	1.8473	80/20	1.8473
965751	AG1-443 O1	1.8473	80/20	1.8473
965761	AG1-444 O1	4.3424	80/20	4.3424
965771	AG1-445	1.4339	80/20	1.4339
965781	AG1-446	1.4339	80/20	1.4339
965811	AG1-449	7.2004	80/20	7.2004
966361	AG1-505 C	5.0148	80/20	5.0148

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966371	AG1-506 C	5.0148	80/20	5.0148
966621	AG1-532 C	0.7530	80/20	0.7530
966731	AG1-544 C	7.6936	80/20	7.6936
966741	AG1-545 C	2.5440	80/20	2.5440
966751	AG1-546 C	6.0232	80/20	6.0232
966801	AG1-551 C	0.3278	Adder	0.73
966811	AG1-552 C	0.8986	80/20	0.8986
WEC	WEC	0.2255	Confirmed LTF	0.2255
LGEE	LGEE	0.4643	Confirmed LTF	0.4643
CPL	CPL	2.4734	Confirmed LTF	2.4734
CBM-W2	CBM-W2	10.0890	Confirmed LTF	10.0890
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.9138	Confirmed LTF	1.9138
SIGE	SIGE	0.1599	Confirmed LTF	0.1599
CBM-S2	CBM-S2	29.1902	Confirmed LTF	29.1902
CBM-S1	CBM-S1	0.4761	Confirmed LTF	0.4761
MEC	MEC	1.3634	Confirmed LTF	1.3634
LAGN	LAGN	2.3800	Confirmed LTF	2.3800
AA2-074	AA2-074	1.6339	LTF	1.6339
CBM-W1	CBM-W1	9.4074	Confirmed LTF	9.4074

11.6.8 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
169275578	314686	6CLOVER	DVP	314690	6BLACK WALNU	DVP	1	DVP_P1-2: LN 556-D	single	814.98	153.57	160.97	DC	60.32

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6808	80/20	46.6808
315154	1CLOVER2	46.2156	80/20	46.2156
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934625	AD1-088 C	37.5628	80/20	37.5628
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
938371	AE1-056 C	5.9678	80/20	5.9678
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6406	80/20	6.6406
941791	AE2-182 C	6.1026	80/20	6.1026
942461	AE2-259 C O1	12.7938	80/20	12.7938
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1476	80/20	28.1476
946291	AF1-293 C O1	9.9685	80/20	9.9685
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0540	80/20	201.0540
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7666	80/20	11.7666
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5085	80/20	33.5085
960111	AF2-302 C	0.7429	80/20	0.7429
961061	AF2-397 C	7.7259	80/20	7.7259
961791	AG1-021 C	1.5832	80/20	1.5832
961801	AG1-022 C	0.7429	80/20	0.7429

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961891	AG1-030 C	9.9432	80/20	9.9432
962041	AG1-048 C	9.8947	80/20	9.8947
962491	AG1-098 C O1	44.5095	80/20	44.5095
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O1	45.3442	80/20	45.3442
963321	AG1-181 C O1	6.0674	80/20	6.0674
963361	AG1-185 O1	2.9356	80/20	2.9356
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O1	4.1950	80/20	4.1950
964821	AG1-345 C	0.6297	80/20	0.6297
964841	AG1-347 C	28.2369	80/20	28.2369
964931	AG1-357 C	80.4216	80/20	80.4216
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O1	25.5876	80/20	25.5876
965831	AG1-451	4.2646	80/20	4.2646
966361	AG1-505 C	60.3171	80/20	60.3171
966371	AG1-506 C	60.3171	80/20	60.3171
966791	AG1-550 O1	2.9092	80/20	2.9092
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.5588	80/20	2.5588
G-007A	G-007A	0.4507	Confirmed LTF	0.4507
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7005	Confirmed LTF	0.7005
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

11.6.9 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
169275620	314686	6CLOVER	DVP	962490	AG1-098 TAP	DVP	1	DVP_P1-2: LN 556-D	single	571.52	132.35	137.47	DC	29.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962561	AG1-105 C O1	17.8794	80/20	17.8794
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964931	AG1-357 C	39.0228	80/20	39.0228
966361	AG1-505 C	29.2662	80/20	29.2662
966371	AG1-506 C	29.2662	80/20	29.2662
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206

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

11.6.10 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
169275574	314690	6BLACK WALNU	DVP	962560	AG1-105 TAP	DVP	1	DVP_P1-2: LN 556-D	single	814.98	162.18	169.58	DC	60.32

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6808	80/20	46.6808
315154	1CLOVER2	46.2156	80/20	46.2156
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934615	AD1-087 C	29.3393	80/20	29.3393
934625	AD1-088 C	37.5628	80/20	37.5628
935171	AD1-152 C O1	32.2262	80/20	32.2262
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
937481	AD2-202 C O1	8.5937	80/20	8.5937
938371	AE1-056 C	5.9678	80/20	5.9678
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6406	80/20	6.6406
941791	AE2-182 C	6.1026	80/20	6.1026
942461	AE2-259 C O1	12.7938	80/20	12.7938
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1476	80/20	28.1476
946291	AF1-293 C O1	9.9685	80/20	9.9685
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0540	80/20	201.0540
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7666	80/20	11.7666
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5085	80/20	33.5085
960111	AF2-302 C	0.7429	80/20	0.7429

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961061	AF2-397 C	7.7259	80/20	7.7259
961791	AG1-021 C	1.5832	80/20	1.5832
961801	AG1-022 C	0.7429	80/20	0.7429
961891	AG1-030 C	9.9432	80/20	9.9432
962041	AG1-048 C	9.8947	80/20	9.8947
962491	AG1-098 C O1	44.5095	80/20	44.5095
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O1	45.3442	80/20	45.3442
963321	AG1-181 C O1	6.0674	80/20	6.0674
963361	AG1-185 O1	2.9356	80/20	2.9356
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O1	4.1950	80/20	4.1950
964821	AG1-345 C	0.6297	80/20	0.6297
964841	AG1-347 C	28.2369	80/20	28.2369
964931	AG1-357 C	80.4216	80/20	80.4216
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O1	25.5876	80/20	25.5876
965831	AG1-451	4.2646	80/20	4.2646
966361	AG1-505 C	60.3171	80/20	60.3171
966371	AG1-506 C	60.3171	80/20	60.3171
966791	AG1-550 O1	2.9092	80/20	2.9092
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.5588	80/20	2.5588
G-007A	G-007A	0.4507	Confirmed LTF	0.4507
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7005	Confirmed LTF	0.7005
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

11.6.11 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
169275486	314692	6FARMVIL	DVP	314677	6BUCKING	DVP	1	Base Case	single	559.3	143.49	144.51	DC	5.7

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.5040	80/20	2.5040
313527	AB2-043 C	0.5302	80/20	0.5302
314429	3JTRSVLE	0.8504	80/20	0.8504
314572	3EMPORIA	0.1589	80/20	0.1589
314704	3LAWRENC	0.1693	80/20	0.1693
315126	1ROARAP2	0.4693	80/20	0.4693
315128	1ROARAP4	0.4479	80/20	0.4479
315153	1CLOVER1	9.2314	80/20	9.2314
315154	1CLOVER2	9.1394	80/20	9.1394
315158	1KERR 1	0.2882	80/20	0.2882
315159	1KERR 2	0.8070	80/20	0.8070
315160	1KERR 3	0.8070	80/20	0.8070
315161	1KERR 4	0.8070	80/20	0.8070
315162	1KERR 5	0.8070	80/20	0.8070
315163	1KERR 6	0.8070	80/20	0.8070
315164	1KERR 7	0.8070	80/20	0.8070
315266	1PLYWOOD A	0.8200	80/20	0.8200
315606	3AA2-053SOLA	0.4830	80/20	0.4830
315607	3AA1-063SOLA	0.4272	80/20	0.4272
316087	AB2-174 C	0.4145	80/20	0.4145
316118	AC1-105 C	4.1790	80/20	4.1790
316123	AC1-075 C	0.4221	80/20	0.4221
316129	AC1-054 C	4.1848	80/20	4.1848
316131	AB2-060 C	1.5777	80/20	1.5777
923991	AB2-040 C O1	2.7271	80/20	2.7271
924301	AB2-077 C O1 (Suspended)	2.0795	80/20	2.0795
924311	AB2-078 C O1 (Suspended)	2.0795	80/20	2.0795
924321	AB2-079 C O1 (Suspended)	2.0795	80/20	2.0795
925611	AC1-036 C	0.3576	80/20	0.3576
926023	AC1-080 C	0.1411	80/20	0.1411
927145	AC1-208 C	2.7744	80/20	2.7744
927251	AC1-221 C	0.9505	80/20	0.9505
927261	AC1-222 C	2.2531	80/20	2.2531
932761	AC2-100 C	2.1874	80/20	2.1874
934311	AD1-055 C	1.5644	80/20	1.5644
934341	AD1-058 C	2.3827	80/20	2.3827
934615	AD1-087 C	5.7793	80/20	5.7793
934625	AD1-088 C	19.5108	80/20	19.5108
934991	AD1-131 C	0.7812	80/20	0.7812

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935171	AD1-152 C O1	6.3480	80/20	6.3480
935221	AD1-157 C	0.5154	80/20	0.5154
936265	AD2-033 C	19.2683	80/20	19.2683
936361	AD2-046 C O1	7.1832	80/20	7.1832
936485	AD2-063 C	18.9756	80/20	18.9756
937481	AD2-202 C O1	1.6928	80/20	1.6928
938371	AE1-056 C	14.0840	80/20	14.0840
939181	AE1-148 C	7.1798	80/20	7.1798
940661	AE2-053 O1	2.6592	80/20	2.6592
941791	AE2-182 C	3.1698	80/20	3.1698
942451	AE2-258	2.5070	80/20	2.5070
942461	AE2-259 C O1	26.0340	80/20	26.0340
942751	AE2-291 C	3.5178	80/20	3.5178
942761	AE2-292 C O1	4.3800	80/20	4.3800
943901	AF1-058 C	1.2767	80/20	1.2767
943911	AF1-059	12.5944	80/20	12.5944
945811	AF1-246 C O1	4.4239	80/20	4.4239
946281	AF1-292 C	0.5714	80/20	0.5714
946301	AF1-294 C	8.5909	80/20	8.5909
957481	AF2-042 C	31.5990	80/20	31.5990
958211	AF2-115 C	5.0535	80/20	5.0535
958801	AF2-171 C	30.1914	80/20	30.1914
959311	AF2-222 C	27.4020	80/20	27.4020
959751	AF2-266	6.6265	80/20	6.6265
960061	AF2-297 C	5.1067	80/20	5.1067
960081	AF2-299 C	0.9630	80/20	0.9630
961791	AG1-021 C	4.0428	80/20	4.0428
961891	AG1-030 C	28.0179	80/20	28.0179
962041	AG1-048 C	25.2675	80/20	25.2675
962441	AG1-093 C O1	11.1440	80/20	11.1440
962491	AG1-098 C O1	15.5595	80/20	15.5595
962561	AG1-105 C O1	7.5654	80/20	7.5654
963171	AG1-166 C	4.0428	80/20	4.0428
963181	AG1-167 C	4.0428	80/20	4.0428
963191	AG1-168 C	4.0428	80/20	4.0428
963201	AG1-169 C	4.0428	80/20	4.0428
963211	AG1-170 C	4.0428	80/20	4.0428
963271	AG1-176 C O1	26.3144	80/20	26.3144
963301	AG1-179 C	3.6073	80/20	3.6073
963311	AG1-180	1.7576	80/20	1.7576
963321	AG1-181 C O1	25.3797	80/20	25.3797
963361	AG1-185 O1	12.2793	80/20	12.2793
963641	AG1-215 C	1.8866	80/20	1.8866
964111	AG1-272 C	4.0639	80/20	4.0639
964121	AG1-273 C	4.0639	80/20	4.0639
964131	AG1-274 C	4.0639	80/20	4.0639
964241	AG1-285 C O1	15.0938	80/20	15.0938
964261	AG1-287 C	0.9575	80/20	0.9575
964471	AG1-310 C	1.2747	80/20	1.2747
964501	AG1-313 C O1	1.4393	80/20	1.4393
964791	AG1-342 C	3.4280	80/20	3.4280
964821	AG1-345 C	1.6129	80/20	1.6129

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964841	AG1-347 C	16.4982	80/20	16.4982
964931	AG1-357 C	10.2612	80/20	10.2612
965191	AG1-384 C	4.0639	80/20	4.0639
965281	AG1-393 C	4.0428	80/20	4.0428
965451	AG1-413 C O1	5.2942	80/20	5.2942
965591	AG1-427 C	14.4219	80/20	14.4219
965601	AG1-428 C O1	3.0115	80/20	3.0115
965641	AG1-432 C O1	52.0680	80/20	52.0680
965721	AG1-440 C	5.0238	80/20	5.0238
965731	AG1-441 C	5.0238	80/20	5.0238
965771	AG1-445	2.9026	80/20	2.9026
965781	AG1-446	2.9026	80/20	2.9026
965831	AG1-451	8.6780	80/20	8.6780
966361	AG1-505 C	5.6970	80/20	5.6970
966371	AG1-506 C	5.6970	80/20	5.6970
966621	AG1-532 C	0.5200	80/20	0.5200
966691	AG1-539 C	1.8394	80/20	1.8394
966751	AG1-546 C	8.8209	80/20	8.8209
966811	AG1-552 C	0.7452	80/20	0.7452
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	5.2068	80/20	5.2068
WEC	WEC	0.1616	Confirmed LTF	0.1616
LGEE	LGEE	0.3267	Confirmed LTF	0.3267
CPL	CPL	2.7355	Confirmed LTF	2.7355
CBM-W2	CBM-W2	8.6106	Confirmed LTF	8.6106
NY	NY	0.2533	Confirmed LTF	0.2533
TVA	TVA	1.7094	Confirmed LTF	1.7094
SIGE	SIGE	0.1138	Confirmed LTF	0.1138
CBM-S2	CBM-S2	30.8189	Confirmed LTF	30.8189
CBM-S1	CBM-S1	0.4157	Confirmed LTF	0.4157
MEC	MEC	1.0599	Confirmed LTF	1.0599
LAGN	LAGN	2.1385	Confirmed LTF	2.1385
AA2-074	AA2-074	1.8054	LTF	1.8054
CBM-W1	CBM-W1	6.6315	Confirmed LTF	6.6315

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169275510	314697	6SEEDGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-D	single	674.92	212.85	219.69	DC	46.12

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9277	80/20	0.9277
315160	1KERR 3	0.9277	80/20	0.9277
315161	1KERR 4	0.9277	80/20	0.9277
315162	1KERR 5	0.9277	80/20	0.9277
315163	1KERR 6	0.9277	80/20	0.9277
315164	1KERR 7	0.9277	80/20	0.9277
315191	1BEARGRDN G1	3.3141	80/20	3.3141
315192	1BEARGRDN G2	3.3141	80/20	3.3141
315193	1BEARGRDN S1	4.2858	80/20	4.2858
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6956	80/20	14.6956
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	-2.4502	Adder	-2.88
927261	AC1-222 C	10.1051	80/20	10.1051
932511	AC2-071 C	0.3929	80/20	0.3929
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0162	80/20	7.0162
934341	AD1-058 C	-6.1424	Adder	-7.23
934615	AD1-087 C	22.4303	80/20	22.4303

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934625	AD1-088 C	29.6903	80/20	29.6903
935171	AD1-152 C O1	24.6374	80/20	24.6374
935221	AD1-157 C	0.3412	80/20	0.3412
936265	AD2-033 C	18.1139	80/20	18.1139
936361	AD2-046 C O1	8.4650	80/20	8.4650
936485	AD2-063 C	20.6649	80/20	20.6649
937481	AD2-202 C O1	6.5700	80/20	6.5700
938371	AE1-056 C	9.3221	80/20	9.3221
938561	AE1-075 C	0.1048	80/20	0.1048
938821	AE1-108 C O1	7.2807	80/20	7.2807
939181	AE1-148 C	8.5007	80/20	8.5007
939941	AE1-230 C	0.7209	80/20	0.7209
940661	AE2-053 O1	3.1484	80/20	3.1484
941011	AE2-092 C	6.3234	80/20	6.3234
941791	AE2-182 C	4.8236	80/20	4.8236
941801	AE2-185 C	3.6043	80/20	3.6043
941821	AE2-187 C	3.6043	80/20	3.6043
942451	AE2-258	3.2048	80/20	3.2048
942461	AE2-259 C O1	14.7132	80/20	14.7132
942671	AE2-283 C	3.9648	80/20	3.9648
942751	AE2-291 C	15.6354	80/20	15.6354
942761	AE2-292 C O1	19.4676	80/20	19.4676
943901	AF1-058 C	5.7308	80/20	5.7308
943911	AF1-059	14.4227	80/20	14.4227
945081	AF1-173	1.3967	80/20	1.3967
945811	AF1-246 C O1	21.5242	80/20	21.5242
946291	AF1-293 C O1	9.4568	80/20	9.4568
946301	AF1-294 C	6.0812	80/20	6.0812
946591	AF1-323 C	2.4073	80/20	2.4073
957481	AF2-042 C	153.7440	80/20	153.7440
958211	AF2-115 C	3.5772	80/20	3.5772
958501	AF2-144 C	0.5649	80/20	0.5649
958801	AF2-171 C	21.4497	80/20	21.4497
959311	AF2-222 C	23.4030	80/20	23.4030
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5206	80/20	0.5206
959751	AF2-266	25.6235	80/20	25.6235
960061	AF2-297 C	22.9234	80/20	22.9234
960111	AF2-302 C	0.8754	80/20	0.8754
961061	AF2-397 C	7.1206	80/20	7.1206
961121	AF2-403	0.8010	80/20	0.8010
961791	AG1-021 C	2.8618	80/20	2.8618
961801	AG1-022 C	0.8754	80/20	0.8754
961891	AG1-030 C	21.3030	80/20	21.3030
962041	AG1-048 C	17.8860	80/20	17.8860
962441	AG1-093 C O1	39.1883	80/20	39.1883
962491	AG1-098 C O1	34.5765	80/20	34.5765
962561	AG1-105 C O1	31.8432	80/20	31.8432
963171	AG1-166 C	2.8618	80/20	2.8618
963181	AG1-167 C	2.8618	80/20	2.8618
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O1	36.0621	80/20	36.0621
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O1	23.4953	80/20	23.4953
963361	AG1-185 O1	11.3677	80/20	11.3677
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O1	3.9711	80/20	3.9711
964241	AG1-285 C O1	17.1705	80/20	17.1705
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4655	80/20	22.4655
964931	AG1-357 C	61.4988	80/20	61.4988
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O1	6.0628	80/20	6.0628
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O1	3.1896	80/20	3.1896
965641	AG1-432 C O1	29.4264	80/20	29.4264
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9044	80/20	4.9044
966361	AG1-505 C	46.1250	80/20	46.1250
966371	AG1-506 C	46.1250	80/20	46.1250
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O1	2.6947	80/20	2.6947
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.9426	80/20	2.9426
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169275705	314714	3PERTH	DVP	942750	AE2-291 TAP	DVP	1	DVP_P1-2: LN 556-D	single	285.76	111.93	114.48	DC	7.3

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
945811	AF1-246 C O1	3.4070	80/20	3.4070
946301	AF1-294 C	1.5978	80/20	1.5978
957481	AF2-042 C	24.3360	80/20	24.3360
958211	AF2-115 C	0.9399	80/20	0.9399
958801	AF2-171 C	5.6511	80/20	5.6511
959311	AF2-222 C	6.8930	80/20	6.8930
959751	AF2-266	4.0555	80/20	4.0555
960061	AF2-297 C	7.6354	80/20	7.6354
961791	AG1-021 C	0.7519	80/20	0.7519
961891	AG1-030 C	5.8698	80/20	5.8698
962041	AG1-048 C	4.6995	80/20	4.6995
962441	AG1-093 C O1	13.1063	80/20	13.1063
962491	AG1-098 C O1	5.5507	80/20	5.5507
962561	AG1-105 C O1	5.0178	80/20	5.0178
963171	AG1-166 C	0.7519	80/20	0.7519
963181	AG1-167 C	0.7519	80/20	0.7519
963191	AG1-168 C	0.7519	80/20	0.7519
963201	AG1-169 C	0.7519	80/20	0.7519
963211	AG1-170 C	0.7519	80/20	0.7519
963271	AG1-176 C O1	5.9076	80/20	5.9076
963321	AG1-181 C O1	7.2006	80/20	7.2006
963361	AG1-185 O1	3.4839	80/20	3.4839
963641	AG1-215 C	0.3509	80/20	0.3509
964111	AG1-272 C	1.0791	80/20	1.0791
964121	AG1-273 C	1.0791	80/20	1.0791
964131	AG1-274 C	1.0791	80/20	1.0791
964241	AG1-285 C O1	5.7157	80/20	5.7157
964261	AG1-287 C	1.4316	80/20	1.4316
964471	AG1-310 C	3.2918	80/20	3.2918
964791	AG1-342 C	3.1669	80/20	3.1669
964821	AG1-345 C	0.3012	80/20	0.3012
964841	AG1-347 C	3.6820	80/20	3.6820
964931	AG1-357 C	9.7344	80/20	9.7344
965191	AG1-384 C	1.0791	80/20	1.0791
965281	AG1-393 C	0.7519	80/20	0.7519
965451	AG1-413 C O1	2.3748	80/20	2.3748
965591	AG1-427 C	5.4072	80/20	5.4072
965641	AG1-432 C O1	6.3540	80/20	6.3540
965721	AG1-440 C	2.5690	80/20	2.5690
965731	AG1-441 C	2.5690	80/20	2.5690
965771	AG1-445	1.4843	80/20	1.4843
965781	AG1-446	1.4843	80/20	1.4843
965831	AG1-451	1.0590	80/20	1.0590
966361	AG1-505 C	7.3008	80/20	7.3008
966371	AG1-506 C	7.3008	80/20	7.3008
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.6354	80/20	0.6354
CPL	CPL	1.2333	Confirmed LTF	1.2333
G-007A	G-007A	0.2374	Confirmed LTF	0.2374
VFT	VFT	0.6256	Confirmed LTF	0.6256
PRAIRIE	PRAIRIE	0.4856	Confirmed LTF	0.4856
CBM-S2	CBM-S2	10.8785	Confirmed LTF	10.8785

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163902089	314902	8CARSON	DVP	314914	8MDLTHAN	DVP	1	DVP_P4-2: 557T574	breaker	3938.0	147.47	147.94	DC	51.66

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163902166	314902	8CARSON	DVP	939410	AE1-173_POI	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	113.47	114.77	DC	44.97

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168867869	314902	8CARSON	DVP	314282	6CARSON	DVP	1	DVP_P1-2: LN 563	single	903.9	161.97	163.45	DC	13.5

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163902311	314914	8MDLTHAN	DVP	314918	8NO ANNA	DVP	1	DVP_P1-2: LN 574	single	2442.12	178.61	178.87	DC	26.93

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168867922	314914	8MDLTHAN	DVP	314322	6MDLTHAN	DVP	1	DVP_P1-2: LN 576	single	1058.16	148.86	149.88	DC	11.34

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926754	AC1-161 C	14.1944	80/20	14.1944
927024	AC1-189 C	3.0702	Adder	3.61
927145	AC1-208 C	3.0886	Adder	3.63
927251	AC1-221 C	0.8116	Adder	0.95
927261	AC1-222 C	1.1675	Adder	1.37
932044	AC2-012 C	4.2294	80/20	4.2294
932631	AC2-084 C	3.0202	Adder	3.55
932761	AC2-100 C	1.8678	Adder	2.2
933294	AC2-141 C	14.1944	80/20	14.1944
933731	AC2-196 C	0.1214	80/20	0.1214
933991	AD1-023 C	4.6496	Adder	5.47
934061	AD1-033 C	3.2231	80/20	3.2231
934311	AD1-055 C	0.8106	Adder	0.95
934331	AD1-057 C O1	3.4483	Adder	4.06
934341	AD1-058 C	2.0346	Adder	2.39
934521	AD1-076 C	19.3134	Adder	22.72
934615	AD1-087 C	3.8963	80/20	3.8963
934991	AD1-131 C	0.6671	Adder	0.78
935171	AD1-152 C O1	4.2797	80/20	4.2797
936401	AD2-051 C O1	3.0750	Adder	3.62
936761	AD2-097 C	-1.1969	Adder	-1.41
937221	AD2-160 C O1	2.5076	80/20	2.5076
937481	AD2-202 C O1	1.1412	80/20	1.1412
938494	AE1-068_C1	22.0989	80/20	22.0989
938497	AE1-068_C2	22.0989	80/20	22.0989
938504	AE1-069_C1	16.8418	80/20	16.8418
938507	AE1-069_C2	18.1595	80/20	18.1595
938535	AE1-072 C	7.5289	80/20	7.5289
938771	AE1-103 C	1.1972	Adder	1.41
939414	AE1-173_C1	20.5380	80/20	20.5380
939415	AE1-173_C2	17.6040	80/20	17.6040
939416	AE1-173_C3	20.5380	80/20	20.5380
940251	AE2-007_O1 (Withdrawn : 12/11/2020)	72.4636	80/20	72.4636
940471	AE2-031 C	24.0764	80/20	24.0764
940481	AE2-033 C	4.8272	Adder	5.68
940491	AE2-034 C	2.5622	Adder	3.01
940541	AE2-040	0.8513	Adder	1.0
940571	AE2-044 C	1.5860	Adder	1.87
940641	AE2-051 C O1	12.3417	80/20	12.3417
941031	AE2-094 C	29.2048	80/20	29.2048
941101	AE2-104 C O1	1.0920	Adder	1.28
941281	AE2-122 C O1	12.0319	80/20	12.0319
941291	AE2-123 C O1	12.3651	80/20	12.3651
941301	AE2-124 C O1	11.2667	80/20	11.2667
941501	AE2-147 C	5.6641	Adder	6.66
941591	AE2-156_O1	7.4480	80/20	7.4480
942131	AE2-225 C	0.7536	Adder	0.89
942151	AE2-227 C	-0.6853	Adder	-0.81
942171	AE2-229 C	0.5652	Adder	0.66
942401	AE2-253 C	2.6375	80/20	2.6375
942471	AE2-260 C O1	4.4919	Adder	5.28

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163902182	314923	8SEPTA	DVP	314924	8SURREY	DVP	1	DVP_P4-2: 56372	breaker	3637.0	107.41	108.41	DC	41.86

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163902094	314924	8SURRY	DVP	314903	8CHCKAHM	DVP	1	DVP_P4-2: 56372	breaker	3144.0	137.86	138.45	DC	39.18

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313717	6SLIGO L2192	3.1319	Adder	3.68
314295	6BIRDNECK	0.0719	50/50	0.0719
314466	6FENTRES	3.7992	50/50	3.7992
314491	3PENDLTN	0.5360	50/50	0.5360
314525	6KINGFORK	5.6243	Adder	6.62
314550	6HICKORY	6.9891	50/50	6.9891
314632	6AYDLETOLD	3.1340	Adder	3.69
315099	1CHESPKB (Deactivation : 31/05/2019)	4.9116	50/50	4.9116
315108	1ELIZAR1	5.2434	50/50	5.2434
315109	1ELIZAR2	5.1523	50/50	5.1523
315110	1ELIZAR3	5.3105	50/50	5.3105
315233	1SURRY 2	51.9844	50/50	51.9844
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-11.9140	Adder	-14.02
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-11.9140	Adder	-14.02
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-20.6397	Adder	-24.28
316151	AD2-215 E (Withdrawn : 01/14/2021)	1.2036	Adder	1.42
901082	W1-029 E	62.1224	Adder	73.09
913392	Y1-086 E	3.0559	Adder	3.6
916042	Z1-036 E (Suspended)	59.7462	Adder	70.29
916192	Z1-068 E	3.1893	50/50	3.1893
917122	Z2-027 E	1.4593	Adder	1.72
919152	AA1-139 E	9.1809	Adder	10.8
923832	AB2-022 E	1.7251	Adder	2.03
925522	AC1-027 E	1.9414	50/50	1.9414
926662	AC1-147 E	1.8957	Adder	2.23
926754	AC1-161 C	60.4629	50/50	60.4629
926755	AC1-161 E	25.8099	50/50	25.8099
932044	AC2-012 C	14.6019	Adder	17.18
932046	AC2-012 E	23.8241	Adder	28.03
933294	AC2-141 C	60.4629	50/50	60.4629
933295	AC2-141 E	25.8099	50/50	25.8099
933731	AC2-196 C	0.4835	50/50	0.4835
933732	AC2-196 E	2.0409	50/50	2.0409
934061	AD1-033 C	12.8537	50/50	12.8537
934062	AD1-033 E	8.5691	50/50	8.5691
935112	AD1-144 E	1.2268	Adder	1.44
937221	AD2-160 C O1	9.9013	50/50	9.9013
937222	AD2-160 E O1	5.1922	50/50	5.1922

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938494	AE1-068_C1	37.9417	Adder	44.64
938497	AE1-068_C2	37.9417	Adder	44.64
938498	AE1-068_E1	20.9740	Adder	24.68
938499	AE1-068_E2	20.9740	Adder	24.68
938504	AE1-069_C1	28.9158	Adder	34.02
938507	AE1-069_C2	31.1781	Adder	36.68
938508	AE1-069_E1	16.4492	Adder	19.35
938509	AE1-069_E2	17.7218	Adder	20.85
938535	AE1-072_C	25.0860	Adder	29.51
938536	AE1-072_E	12.9231	Adder	15.2
939414	AE1-173_C1	51.8297	50/50	51.8297
939415	AE1-173_C2	44.4254	50/50	44.4254
939416	AE1-173_C3	51.8297	50/50	51.8297
939423	AE1-173_E1	34.5531	50/50	34.5531
939424	AE1-173_E2	29.6170	50/50	29.6170
939425	AE1-173_E3	34.5531	50/50	34.5531
940251	AE2-007_O1 (Withdrawn : 12/11/2020)	293.6472	50/50	293.6472
940471	AE2-031_C	41.3957	Adder	48.7
940472	AE2-031_E	27.5972	Adder	32.47
940641	AE2-051_C O1	27.7668	50/50	27.7668
940642	AE2-051_E O1	18.5112	50/50	18.5112
941031	AE2-094_C	49.9159	Adder	58.72
941032	AE2-094_E	22.3562	Adder	26.3
941101	AE2-104_C O1	4.1712	Adder	4.91
941102	AE2-104_E O1	6.6316	Adder	7.8
941281	AE2-122_C O1	48.2881	50/50	48.2881
941282	AE2-122_E O1	194.8543	50/50	194.8543
941291	AE2-123_C O1	49.6252	50/50	49.6252
941292	AE2-123_E O1	193.5171	50/50	193.5171
941301	AE2-124_C O1	45.1633	50/50	45.1633
941302	AE2-124_E O1	198.1711	50/50	198.1711
941501	AE2-147_C	21.4215	Adder	25.2
941502	AE2-147_E	14.2810	Adder	16.8
941591	AE2-156_O1	30.2330	50/50	30.2330
942131	AE2-225_C	2.9306	Adder	3.45
942132	AE2-225_E	1.9537	Adder	2.3
942171	AE2-229_C	2.1979	Adder	2.59
942172	AE2-229_E	1.4653	Adder	1.72
942401	AE2-253_C	10.4145	50/50	10.4145
942402	AE2-253_E	4.6790	50/50	4.6790
942931	AE2-313_C	44.7367	Adder	52.63
942932	AE2-313_E	29.8245	Adder	35.09
943611	AF1-032_C	2.3933	Adder	2.82
943612	AF1-032_E	1.2699	Adder	1.49
944011	AF1-069_C	16.3094	Adder	19.19
944012	AF1-069_E	6.3359	Adder	7.45
944581	AF1-123_C O1	85.1238	50/50	85.1238
944582	AF1-123_E O1	194.9097	50/50	194.9097
944591	AF1-124_C O1	85.1238	50/50	85.1238
944592	AF1-124_E O1	194.9097	50/50	194.9097
944601	AF1-125_C O1	85.1238	50/50	85.1238

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
944602	AF1-125 E O1	194.9097	50/50	194.9097
944871	AF1-152 C	7.1405	Adder	8.4
944872	AF1-152 E	4.7603	Adder	5.6
957491	AF2-043 C	2.9306	Adder	3.45
957492	AF2-043 E	1.9537	Adder	2.3
957631	AF2-057	5.1235	Adder	6.03
957821	AF2-076 C	7.1561	Adder	8.42
957822	AF2-076 E	4.7707	Adder	5.61
957871	AF2-081 C	14.2814	Adder	16.8
957872	AF2-081 E	6.1206	Adder	7.2
958161	AF2-110 C	1.7196	Adder	2.02
958162	AF2-110 E	2.6897	Adder	3.16
961851	AG1-027 C	10.8778	Adder	24.15
961852	AG1-027 E	6.0132	Adder	13.35
963041	AG1-153 C	3.6420	Adder	8.08
963042	AG1-153 E	5.4630	Adder	12.13
963111	AG1-160 C	3.7026	Adder	8.22
963112	AG1-160 E	5.5539	Adder	12.33
963291	AG1-178 C O1	101.6770	50/50	101.6770
963351	AG1-184 O1	54.7780	50/50	54.7780
963821	AG1-235 C O1	41.0778	50/50	41.0778
963822	AG1-235 E O1	27.3852	50/50	27.3852
964951	AG1-359 O1	45.9660	50/50	45.9660
965001	AG1-364 C O1	12.0872	50/50	12.0872
965002	AG1-364 E O1	18.1308	50/50	18.1308
965181	AG1-383 C	4.7031	50/50	4.7031
965182	AG1-383 E	1.3929	50/50	1.3929
965811	AG1-449	15.3830	Adder	34.15
966361	AG1-505 C	10.5904	Adder	23.51
966362	AG1-505 E	7.0602	Adder	15.67
966371	AG1-506 C	10.5904	Adder	23.51
966372	AG1-506 E	7.0602	Adder	15.67
966491	AG1-518 O1	6.4717	Adder	14.37
WEC	WEC	0.6817	Confirmed LTF	0.6817
LGEE	LGEE	1.4137	Confirmed LTF	1.4137
CPL	CPL	9.4458	Confirmed LTF	9.4458
CBM-W2	CBM-W2	34.3168	Confirmed LTF	34.3168
NY	NY	1.7204	Confirmed LTF	1.7204
TVA	TVA	6.7340	Confirmed LTF	6.7340
O-066	O-066	23.3666	Confirmed LTF	23.3666
SIGE	SIGE	0.6239	Confirmed LTF	0.6239
CBM-S2	CBM-S2	110.7266	Confirmed LTF	110.7266
CBM-S1	CBM-S1	1.6511	Confirmed LTF	1.6511
G-007	G-007	3.6676	Confirmed LTF	3.6676
MEC	MEC	4.3523	Confirmed LTF	4.3523
LAGN	LAGN	8.3738	Confirmed LTF	8.3738
AA2-074	AA2-074	6.2352	LTF	6.2352
CBM-W1	CBM-W1	27.8157	Confirmed LTF	27.8157

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163902398	314936	8RAWLINGS	DVP	942930	AE2-313 TAP	DVP	1	DVP_P1-2: LN 585-A	single	4070.2	121.21	122.19	DC	53.66

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163902466	314940	8ROGERS RD	DVP	938490	AE1-068_POI	DVP	1	DVP_P1-2: LN 511-A	single	4070.2	112.24	113.16	DC	47.79

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163902226	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-D	single	718.0	212.05	218.48	DC	46.12

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9277	80/20	0.9277
315160	1KERR 3	0.9277	80/20	0.9277
315161	1KERR 4	0.9277	80/20	0.9277
315162	1KERR 5	0.9277	80/20	0.9277
315163	1KERR 6	0.9277	80/20	0.9277
315164	1KERR 7	0.9277	80/20	0.9277
315191	1BEARGRDN G1	3.3141	80/20	3.3141
315192	1BEARGRDN G2	3.3141	80/20	3.3141
315193	1BEARGRDN S1	4.2858	80/20	4.2858
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6956	80/20	14.6956
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	11.7174	80/20	11.7174
927261	AC1-222 C	10.1051	80/20	10.1051
932511	AC2-071 C	0.3929	80/20	0.3929
932761	AC2-100 C	26.9660	80/20	26.9660
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0162	80/20	7.0162
934341	AD1-058 C	29.3737	80/20	29.3737

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169275823	927260	AC1-222 TAP	DVP	314688	3CRSTL HILL	DVP	1	DVP_P1-2: LN 556-D	single	285.76	105.36	107.92	DC	7.33

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957481	AF2-042 C	24.4170	80/20	24.4170
958211	AF2-115 C	0.9440	80/20	0.9440
958801	AF2-171 C	5.6754	80/20	5.6754
959311	AF2-222 C	6.9200	80/20	6.9200
959751	AF2-266	4.0690	80/20	4.0690
960061	AF2-297 C	7.6483	80/20	7.6483
961791	AG1-021 C	0.7552	80/20	0.7552
961891	AG1-030 C	5.8941	80/20	5.8941
962041	AG1-048 C	4.7198	80/20	4.7198
962441	AG1-093 C O1	13.1312	80/20	13.1312
962491	AG1-098 C O1	5.5710	80/20	5.5710
962561	AG1-105 C O1	5.0340	80/20	5.0340
963171	AG1-166 C	0.7552	80/20	0.7552
963181	AG1-167 C	0.7552	80/20	0.7552
963191	AG1-168 C	0.7552	80/20	0.7552
963201	AG1-169 C	0.7552	80/20	0.7552
963211	AG1-170 C	0.7552	80/20	0.7552
963271	AG1-176 C O1	5.9319	80/20	5.9319
963321	AG1-181 C O1	7.2279	80/20	7.2279
963361	AG1-185 O1	3.4971	80/20	3.4971
963641	AG1-215 C	0.3524	80/20	0.3524
964111	AG1-272 C	1.0833	80/20	1.0833
964121	AG1-273 C	1.0833	80/20	1.0833
964131	AG1-274 C	1.0833	80/20	1.0833
964241	AG1-285 C O1	5.7360	80/20	5.7360
964261	AG1-287 C	1.4341	80/20	1.4341
964791	AG1-342 C	3.1737	80/20	3.1737
964821	AG1-345 C	0.3025	80/20	0.3025
964841	AG1-347 C	3.6966	80/20	3.6966
964931	AG1-357 C	9.7668	80/20	9.7668
965191	AG1-384 C	1.0833	80/20	1.0833
965281	AG1-393 C	0.7552	80/20	0.7552
965451	AG1-413 C O1	2.3861	80/20	2.3861
965591	AG1-427 C	5.4264	80/20	5.4264
965641	AG1-432 C O1	6.3864	80/20	6.3864
965721	AG1-440 C	2.5812	80/20	2.5812
965731	AG1-441 C	2.5812	80/20	2.5812
965771	AG1-445	1.4914	80/20	1.4914
965781	AG1-446	1.4914	80/20	1.4914
965831	AG1-451	1.0644	80/20	1.0644
966361	AG1-505 C	7.3251	80/20	7.3251
966371	AG1-506 C	7.3251	80/20	7.3251
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.6386	80/20	0.6386
CPL	CPL	1.2517	Confirmed LTF	1.2517
G-007A	G-007A	0.3021	Confirmed LTF	0.3021
VFT	VFT	0.7998	Confirmed LTF	0.7998
PRAIRIE	PRAIRIE	0.4159	Confirmed LTF	0.4159
TVA	TVA	0.0266	Confirmed LTF	0.0266
CBM-S2	CBM-S2	11.1604	Confirmed LTF	11.1604
CBM-N	CBM-N	0.1440	Confirmed LTF	0.1440
GIBSON	GIBSON	0.1491	Confirmed LTF	0.1491

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
BLUEG	BLUEG	0.5312	Confirmed LTF	0.5312
TRIMBLE	TRIMBLE	0.1731	Confirmed LTF	0.1731
LAGN	LAGN	0.0822	Confirmed LTF	0.0822

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
169791050	934620	AD1-088 TAP	DVP	963270	AG1-176 TAP	DVP	1	DVP_P1-2: LN 556-D	single	571.52	144.28	149.4	DC	29.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964931	AG1-357 C	39.0228	80/20	39.0228
966361	AG1-505 C	29.2662	80/20	29.2662
966371	AG1-506 C	29.2662	80/20	29.2662
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113

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

11.6.26 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
163902430	938490	AE1-068_POI	DVP	941030	AE2-094 TAP	DVP	1	DVP_P1-2: LN 511-A	single	4070.2	121.43	122.35	DC	47.79

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

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

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

11.6.27 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
163902114	939410	AE1-173_POI	DVP	314928	8SUFFOLK	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	125.99	127.3	DC	44.97

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163902337	940470	AE2-031 TAP	DVP	314902	8CARSON	DVP	1	DVP_P1-2: LN 585-A	single	4070.2	129.22	130.25	DC	53.66

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163902390	941030	AE2-094 TAP	DVP	314902	8CARSON	DVP	1	DVP_P1-2: LN 511-A	single	4070.2	126.01	126.93	DC	47.79

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

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

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

11.6.30 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
163902371	942930	AE2-313 TAP	DVP	940470	AE2-031 TAP	DVP	1	DVP_P1-2: LN 585-A	single	4070.2	124.4	125.38	DC	53.66

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

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

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

11.6.31 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
169791064	962490	AG1-098 TAP	DVP	934620	AD1-088 TAP	DVP	1	DVP_P1-2: LN 556-D	single	571.52	137.53	142.65	DC	29.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
964261	AG1-287 C	1.3180	80/20	1.3180
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964931	AG1-357 C	39.0228	80/20	39.0228
966361	AG1-505 C	29.2662	80/20	29.2662
966371	AG1-506 C	29.2662	80/20	29.2662
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586

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

11.6.32 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
169275554	962560	AG1-105 TAP	DVP	314697	6SEEDGE HILL	DVP	1	DVP_P1-2: LN 556-D	single	814.98	167.31	174.71	DC	60.32

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6808	80/20	46.6808
315154	1CLOVER2	46.2156	80/20	46.2156
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934615	AD1-087 C	29.3393	80/20	29.3393
934625	AD1-088 C	37.5628	80/20	37.5628
935171	AD1-152 C O1	32.2262	80/20	32.2262
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
937481	AD2-202 C O1	8.5937	80/20	8.5937
938371	AE1-056 C	5.9678	80/20	5.9678
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6406	80/20	6.6406
941791	AE2-182 C	6.1026	80/20	6.1026
942461	AE2-259 C O1	12.7938	80/20	12.7938
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1476	80/20	28.1476
946291	AF1-293 C O1	9.9685	80/20	9.9685
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0540	80/20	201.0540
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7666	80/20	11.7666
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5085	80/20	33.5085
960111	AF2-302 C	0.7429	80/20	0.7429

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961061	AF2-397 C	7.7259	80/20	7.7259
961791	AG1-021 C	1.5832	80/20	1.5832
961801	AG1-022 C	0.7429	80/20	0.7429
961891	AG1-030 C	9.9432	80/20	9.9432
962041	AG1-048 C	9.8947	80/20	9.8947
962491	AG1-098 C O1	44.5095	80/20	44.5095
962561	AG1-105 C O1	41.8428	80/20	41.8428
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O1	45.3442	80/20	45.3442
963321	AG1-181 C O1	6.0674	80/20	6.0674
963361	AG1-185 O1	2.9356	80/20	2.9356
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O1	4.1950	80/20	4.1950
964821	AG1-345 C	0.6297	80/20	0.6297
964841	AG1-347 C	28.2369	80/20	28.2369
964931	AG1-357 C	80.4216	80/20	80.4216
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O1	25.5876	80/20	25.5876
965831	AG1-451	4.2646	80/20	4.2646
966361	AG1-505 C	60.3171	80/20	60.3171
966371	AG1-506 C	60.3171	80/20	60.3171
966791	AG1-550 O1	2.9092	80/20	2.9092
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.5588	80/20	2.5588
G-007A	G-007A	0.4507	Confirmed LTF	0.4507
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7005	Confirmed LTF	0.7005
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

11.6.33 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
169275813	964470	AG1-310 TAP	DVP	314714	3PERTH	DVP	1	DVP_P1-2: LN 556-D	single	285.76	100.49	103.06	DC	7.33

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957481	AF2-042 C	24.4170	80/20	24.4170
958211	AF2-115 C	0.9440	80/20	0.9440
958801	AF2-171 C	5.6754	80/20	5.6754
959311	AF2-222 C	6.9200	80/20	6.9200
959751	AF2-266	4.0690	80/20	4.0690
960061	AF2-297 C	7.6483	80/20	7.6483
961791	AG1-021 C	0.7552	80/20	0.7552
961891	AG1-030 C	5.8941	80/20	5.8941
962041	AG1-048 C	4.7198	80/20	4.7198
962441	AG1-093 C O1	13.1312	80/20	13.1312
962491	AG1-098 C O1	5.5710	80/20	5.5710
962561	AG1-105 C O1	5.0340	80/20	5.0340
963171	AG1-166 C	0.7552	80/20	0.7552
963181	AG1-167 C	0.7552	80/20	0.7552
963191	AG1-168 C	0.7552	80/20	0.7552
963201	AG1-169 C	0.7552	80/20	0.7552
963211	AG1-170 C	0.7552	80/20	0.7552
963271	AG1-176 C O1	5.9319	80/20	5.9319
963321	AG1-181 C O1	7.2279	80/20	7.2279
963361	AG1-185 O1	3.4971	80/20	3.4971
963641	AG1-215 C	0.3524	80/20	0.3524
964111	AG1-272 C	1.0833	80/20	1.0833
964121	AG1-273 C	1.0833	80/20	1.0833
964131	AG1-274 C	1.0833	80/20	1.0833
964241	AG1-285 C O1	5.7360	80/20	5.7360
964261	AG1-287 C	1.4341	80/20	1.4341
964471	AG1-310 C	3.2955	80/20	3.2955
964791	AG1-342 C	3.1737	80/20	3.1737
964821	AG1-345 C	0.3025	80/20	0.3025
964841	AG1-347 C	3.6966	80/20	3.6966
964931	AG1-357 C	9.7668	80/20	9.7668
965191	AG1-384 C	1.0833	80/20	1.0833
965281	AG1-393 C	0.7552	80/20	0.7552
965451	AG1-413 C O1	2.3861	80/20	2.3861
965591	AG1-427 C	5.4264	80/20	5.4264
965641	AG1-432 C O1	6.3864	80/20	6.3864
965721	AG1-440 C	2.5812	80/20	2.5812
965731	AG1-441 C	2.5812	80/20	2.5812
965771	AG1-445	1.4914	80/20	1.4914
965781	AG1-446	1.4914	80/20	1.4914
965831	AG1-451	1.0644	80/20	1.0644
966361	AG1-505 C	7.3251	80/20	7.3251
966371	AG1-506 C	7.3251	80/20	7.3251
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.6386	80/20	0.6386
CPL	CPL	1.2517	Confirmed LTF	1.2517
G-007A	G-007A	0.3021	Confirmed LTF	0.3021
VFT	VFT	0.7998	Confirmed LTF	0.7998
PRAIRIE	PRAIRIE	0.4159	Confirmed LTF	0.4159
TVA	TVA	0.0266	Confirmed LTF	0.0266
CBM-S2	CBM-S2	11.1604	Confirmed LTF	11.1604
CBM-N	CBM-N	0.1440	Confirmed LTF	0.1440

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
GIBSON	GIBSON	0.1491	Confirmed LTF	0.1491
BLUEG	BLUEG	0.5312	Confirmed LTF	0.5312
TRIMBLE	TRIMBLE	0.1731	Confirmed LTF	0.1731
LAGN	LAGN	0.0822	Confirmed LTF	0.0822

11.7 Queue Dependencies

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

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA1-139	Hickory-Shawboro 230kV	In Service
AA2-053	Carolina-Jackson 115kV	In Service
AA2-074	CPLP-PJM	Confirmed
AA2-088	Boykins-Handsome 115kV	In Service
AA2-165	Hornertown-Whitakers 115kV	In Service
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-015	Franklin 115kV	Engineering and Procurement
AB2-022	Elizabeth City 34.5kV	Engineering and Procurement
AB2-025	Sapony 34.5kV	In Service
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-059	Benson-Dunbar 115kV	Partially in Service - Under Construction
AB2-060	Chase City-Lunenburg 115kV	In Service
AB2-068	Chickahominy 500kV	Withdrawn
AB2-077	Buggs Island-Chase City 115kV	Suspended
AB2-078	Buggs Island-Chase City 115kV	Suspended
AB2-079	Buggs Island-Chase City 115kV	Suspended
AB2-099	Ahoskie 34.5kV	Suspended
AB2-100	Clubhouse-Lakeview 230kV	Under Construction
AB2-160	Reams 115kV	Suspended
AB2-161	Waverly #2 DP 115kV	Suspended
AB2-174	Emporia-Trego 115kV	In Service
AB2-190	Hopewell-Surry 230kV	Engineering and Procurement
AC1-027	Pendleton 34.5kV	In Service
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-042	Altavista-Mt. Airy 69kV	Engineering and Procurement
AC1-054	Kerr Dam-Eatons Ferry 115 kV	Engineering and Procurement
AC1-065	Harmony Village-Shackleford 115kV	Engineering and Procurement
AC1-075	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-080	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-083	Smith Mountain-Bearskin 138kV	Active
AC1-086	Thelma 230kV	Active
AC1-098	Dawson-South Justice 115kV	Engineering and Procurement
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-107	Chickahominy 500kV	Engineering and Procurement

Queue Number	Project Name	Status
AC1-116	Mount Eagle 34.5kV	Engineering and Procurement
AC1-131	PJM-CPLE	Confirmed
AC1-145	Gretna DP 69 kV	Engineering and Procurement
AC1-147	Grassfield 34.5kV	Engineering and Procurement
AC1-161	Septa 500kV	Engineering and Procurement
AC1-189	Chinquapin-Everetts 230kV	Active
AC1-208	Cox-Whitakers 115kV	Engineering and Procurement
AC1-221	Halifax-Person 230kV	Engineering and Procurement
AC1-222	Crystal Hill-Halifax 115kV	Engineering and Procurement
AC2-012	Grassfield-Great Bridge 115kV	Active
AC2-071	Buckingham 35kV	Engineering and Procurement
AC2-078	Disputanta-Waverly 115kV	Engineering and Procurement
AC2-079	Ivor-Oak Ridge 115kV	Engineering and Procurement
AC2-084	Dawson-South Justice 115kV	Active
AC2-100	Halifax-Person 230kV	Engineering and Procurement
AC2-141	Septa 500kV	Active
AC2-165	Bremo-Powhatan 230kV	Engineering and Procurement
AC2-196	Fentress 34.5kV	Engineering and Procurement
AD1-017	Smith Mountain-Bearskin 138 kV	Active
AD1-023	Cashie-Trowbridge 230 kV	Active
AD1-025	Hopewell-Surry 230 kV	Active
AD1-033	Fentress-Landstown 230 kV	Engineering and Procurement
AD1-041	Harmony Village-Shackleford 115 kV	Engineering and Procurement
AD1-055	Crystal Hill-Halifax 115 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-058	Halifax-Person 230 kV	Engineering and Procurement
AD1-076	Trowbridge 230 kV	Active
AD1-082	Bakers Pond-Ivor 115kV	Engineering and Procurement
AD1-087	Clover-Sedge Hill 230 kV	Active
AD1-088	Briery-Clover 230 kV	Active
AD1-131	Sedge Hill-Person 230 kV	Engineering and Procurement
AD1-144	Kings Fork 34.5 kV	Partially in Service - Under Construction
AD1-151	Hopewell-Surry 230 kV	Active
AD1-152	Clover-Sedge Hill 230 kV	Active
AD1-157	South Creek 34.5 kV	Engineering and Procurement
AD2-007	Hopewell-Surry 230 kV	Active
AD2-008	Hopewell-Surry 230 kV	Active
AD2-022	East Danville-Roxborough 230 kV	Active
AD2-023	E. Danville-Roxborough 230 kV	Active
AD2-033	Chase City-Lunenburg 115 kV	Active
AD2-046	Boydton DP-Kerr Dam 115 kV	Active
AD2-051	Earleys – Northampton 230kV	Active
AD2-063	Central-Chase City 115kV	Active
AD2-085	Myrtle-Windsor DP 115kV	Active
AD2-097	Spruance NUG 230kV	In Service
AD2-160	Hickory-Moyock 230kV	Active
AD2-202	Clover-Sedge Hill 230kV	Active
AD2-215	Kings Fork 34.5 kV	Withdrawn
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-056	Red House-South Creek 115 kV	Active
AE1-068	Carson-Rogers Rd 500 kV	Active
AE1-069	Carson-Rogers Road 500 kV	Active

Queue Number	Project Name	Status
AE1-072	Shawboro-Sligo 230 kV	Active
AE1-074	Winterpock 34.5 kV	Engineering and Procurement
AE1-075	Powhatan 34.5 kV	Engineering and Procurement
AE1-085	Bakers Pond-Bell Ave 115 kV	Active
AE1-103	Holland-Union Camp 115 kV	Active
AE1-108	Bremo-Scottsville 138 kV	Active
AE1-148	Kerr Dam-Ridge Rd 115 kV	Active
AE1-149	Disputanta-Poe 115 kV	Active
AE1-162	Smithfield 34.5 kV	Engineering and Procurement
AE1-173	Carson-Suffolk 500 kV	Active
AE1-175	Light Foot 34.5 kV	Engineering and Procurement
AE1-230	Shockoe 69 kV	Active
AE1-250	Smith Mountain-E. Danville 138 kV	Active
AE2-000B	N/A	N/A
AE2-005	Harmony Village-Shackleford 115 kV	Engineering and Procurement
AE2-007	Chesapeake 230 kV	Withdrawn
AE2-027	Harrowgate-Locks 115kV	Active
AE2-031	Carson-Rawlings 500 kV	Active
AE2-033	Clubhouse-Sappony 230 kV	Active
AE2-034	Mackeys 230 kV	Active
AE2-040	Sapony 34.5 kV	Active
AE2-041	Harmony Village 230 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-047	Ridgeway-Solite 69 kV	Active
AE2-051	Carson-Septa 500 kV	Active
AE2-052	Disputanta-Poe 115 kV	Active
AE2-053	Kerr Dam-Ridge Road 115 kV	Active
AE2-078	Poolesville 34.5 kV	Engineering and Procurement
AE2-079	Poolesville 34.5 kV	Engineering and Procurement
AE2-092	Kidds Store-Sherwood 115 kV	Active
AE2-094	Carson-Rogers Road 500 kV	Active
AE2-104	Suffolk 115 kV	Active
AE2-122	Birdneck-Landstown 230 kV	Active
AE2-123	Birdneck-Landstown 230 kV	Active
AE2-124	Landstown 230 kV	Active
AE2-147	Swamp 230 kV	Active
AE2-151	Earleys 34.5kV	Withdrawn
AE2-156	Yadkin 115 kV	Active
AE2-182	Briery-Clover 230 kV	Active
AE2-185	Gladys DP-Stonemill Switching Station 69 kV	Active
AE2-187	Shockoe DP-Chatham 69 kV	Active
AE2-212	Harrowgate 34 kV	Active
AE2-225	Suffolk 34 kV	Engineering and Procurement
AE2-227	Iron Bridge 34 kV	Engineering and Procurement
AE2-228	Tyler 34 kV	Engineering and Procurement
AE2-229	Suffolk 34 kV	Engineering and Procurement
AE2-247	Myrtle-Windsor 115 kV	Active
AE2-250	Purdy Sw.-Reams 115 kV	Active
AE2-253	Hickory-Moyock 230 kV	Active
AE2-258	Chase City 115 kV	Active
AE2-259	Curdsville-Willis Mtn 115 kV	Active
AE2-260	Clubhouse 230 kV	Active

Queue Number	Project Name	Status
AE2-270	Hopewell-Surry 230 kV	Active
AE2-283	Gladys-Stone Mill 69 kV	Active
AE2-291	Grit DP-Perth 115 kV	Active
AE2-292	Grit DP-Perth 115 kV	Active
AE2-313	Carson-Rawlings 500 kV	Active
AE2-346	Ahoskie 34.5 kV	Active
AF1-017	Myrtle-Windsor 115 kV	Active
AF1-018	Harmony Village 230 kV	Active
AF1-032	Suffolk 34.5 kV	Engineering and Procurement
AF1-033	Poolesville 34 kV	Engineering and Procurement
AF1-049	Berry Hill 138 kV	Active
AF1-058	Welco 34.5 kV	Engineering and Procurement
AF1-059	Brodnax-South Hill 115 kV	Active
AF1-069	Carson-Rogers Rd 500 kV	Active
AF1-082	Heartsease-Mayo Dunbar DP	Active
AF1-123	Fentress 500 kV	Active
AF1-124	Fentress 500 kV	Active
AF1-125	Fentress 500 kV	Active
AF1-129	Chesterfield 230 kV	Active
AF1-152	Swamp 230 kV	Active
AF1-173	Gretna DP-Shockoe DP 69 kV	Active
AF1-201	Hayes-White Marsh 115 kV	Active
AF1-236	Mackeys 230 kV	Active
AF1-246	Clover-Rawlings 500 kV	Active
AF1-266	Clubhouse-Sapony 230 kV	Active
AF1-291	Tyler 34.5 kV	Engineering and Procurement
AF1-292	Fields 34.5kV	Active
AF1-293	Kidds Store-Fort Union 115 kV	Active
AF1-294	Jetersville-Ponton 115 kV	Active
AF1-323	Scottsville-Colleen 138 kV	Active
AF2-042	Clover-Rawlings 500 kV	Active
AF2-043	Suffolk 34.5 kV	Engineering and Procurement
AF2-046	Tunis-Mapleton 115 kV	Active
AF2-047	Creswell-Riders Creek 115 kV	Active
AF2-057	Grassfield 34.5 kV	Active
AF2-065	Surry-Hopewell 230 kV	Active
AF2-076	Suffolk-Nucor Steel 230 kV	Active
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-081	Moyock 230 kV	Active
AF2-085	Midlothian 34.5 kV	Engineering and Procurement
AF2-108	Locks 34.5 kV	Active
AF2-110	Suffolk 115 kV	Active
AF2-115	Jetersville-Ponton 115 kV	Active
AF2-144	Powhatan 34.5 kV	Active
AF2-171	Madisonville 115 kV	Active
AF2-222	Madisonville DP-Twitty's Creek 115 kV	Active
AF2-242	Wharton 115 kV	Active
AF2-244	Powhatan 34.5 kV	Withdrawn
AF2-255	Iron Bridge 34.5 kV	Engineering and Procurement
AF2-256	Tyler 34.5 kV	Engineering and Procurement
AF2-257	Tyler 34.5 kV	Active
AF2-258	Harrowgate 34.5 kV	Active

Queue Number	Project Name	Status
AF2-259	Locks 34.5 kV	Active
AF2-266	Clover 230 kV	Active
AF2-297	Sedge Hill 115 kV	Active
AF2-299	Fields 34.5 kV	Active
AF2-302	Scottsville-Colleen 138 kV	Active
AF2-397	Fork Union-Mt. Eagle 230 kV	Active
AF2-400	Franklin 13.2 kV	Engineering and Procurement
AF2-403	Shockoe DP-Chatham 69 kV	
AG1-000B	N/A	N/A
AG1-007	Tar River 12.5 kV	Active
AG1-008	Tunis-Mapleton 115 kV	Active
AG1-009	Hopewell-Surry 230kV	Active
AG1-011	Colonial Trial 230 kV	Active
AG1-021	Jetersville-Ponton 115 kV	Active
AG1-022	Scottsville-Colleen 138 kV	Active
AG1-027	Suffolk-Holland 115 kV	Active
AG1-028	Suffolk-Holland 115 kV	Active
AG1-030	Victoria DP-Martin DP 115 kV	Active
AG1-036	Tunis 34.5 kV	Active
AG1-037	Ahoskie 34.5 kV	Active
AG1-048	Jetersville-Ponton 115 kV	Active
AG1-057	Harmony Village 230 kV	Active
AG1-075	Purdy-Sapony 115 kV	Active
AG1-081	Poolesville 34.5 kV	Withdrawn
AG1-082	Ahoskie 34.5 kV	Active
AG1-083	Ahoskie 34.5 kV	Active
AG1-084	Earlys 34.5 kV	Active
AG1-085	Earlys 34.5	Active
AG1-093	Halifax-Chase City 115 kV	Active
AG1-098	Briery-Clover 230 kV	Active
AG1-105	Clover-Sedge Hill 230 kV	Active
AG1-106	Thelma 230 kV	Active
AG1-153	Heritage 500 kV	Active
AG1-160	Rogers Road 500 kV	Active
AG1-166	Lone Pine 115 kV	Active
AG1-167	Lone Pine 115 kV	Active
AG1-168	Lone Pine 115 kV	Active
AG1-169	Lone Pine 115 kV	Active
AG1-170	Lone Pine 115 kV	Active
AG1-171	Hopewell-Surry 230kV	Active
AG1-172	Hopewell-Surry 230 kV	Active
AG1-173	Hopewell-Surry 230 kV	Active
AG1-174	Hopewell-Surry 230 kV	Active
AG1-175	Hopewell-Surry 230 kV	Active
AG1-176	Briery-Clover 230 kV	Active
AG1-178	Carson-Septa 500 kV	Active
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 kV	Active
AG1-184	Carson-Septa 500 kV	Active
AG1-185	Pamplin-Chase City 115 kV	Active
AG1-209	Gretna 12.5 kV	Active

Queue Number	Project Name	Status
AG1-210	Northern Neck 34.5 kV	Active
AG1-215	Fort Pickett 13.2 kV	Active
AG1-235	Fentress-Sligo 230 kV	Active
AG1-272	Twitty's Creek 115 kV	Active
AG1-273	Twitty's Creek 115 kV	Active
AG1-274	Twitty's Creek 115 kV	Active
AG1-275	Gladys DP-Stone Mill 69 kV	Active
AG1-276	Gladys DP-Stone Mill 69 kV	Active
AG1-284	Bremo-Cunningham DP 115 kV	Active
AG1-285	Chase City-Central 115 kV	Active
AG1-286	Johnson Mountain 138 kV	Active
AG1-287	South Boston 12.5 kV	Active
AG1-310	Crystal Hill-Perth 115 kV	Active
AG1-312	Earleys-Cashie 230 kV	Active
AG1-313	Jackson DP-Occoneechee 115 kV	Active
AG1-342	Dryburg 115 kV	Active
AG1-343	Boykins-Murphy 115 kV	Active
AG1-345	Crewe 12.5 kV	Active
AG1-347	Briery DP-Clover 230 kV	Active
AG1-357	Clover-Rawlings 500 kV	Active
AG1-359	Fentress 230 kV	Active
AG1-364	Deep Creek 115 kV	Active
AG1-383	Hickory 34.5 kV	Active
AG1-384	Twitty's Creek 115 kV	Active
AG1-393	Fort Pickett DP 34.5 kV	Active
AG1-394	Boykins 34.5 kV	Active
AG1-413	South Hill-Bordnax 115 kV	Active
AG1-426	Bremo-Scottsville 138 kV	Active
AG1-427	Chase City-Drakes Branch 115 kV	Active
AG1-428	Danielstown 69 kV	Active
AG1-431	Mackeys 230 kV	Active
AG1-431A	Mackeys 230 kV	Active
AG1-432	Curdsville DP-Willis Mt. 115 kV	Active
AG1-437	Cashie-Earleys 230 kV	Active
AG1-438	Cashie-Earleys 230 kV	Active
AG1-439	Chinquapin 230 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 kV	Active
AG1-442	Cashie-Earleys 230 kV	Active
AG1-443	Cashie-Earleys 230 kV	Active
AG1-444	Chinquapin 230 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-449	Rawlings-Carson 500 kV	Active
AG1-451	Curdsville DP-Willis Mt. 115 kV	Active
AG1-505	Rawlings-Clover 500 kV	Active
AG1-506	Rawlings-Clover 500 kV	Active
AG1-518	Suffolk 230 kV	Active
AG1-531	Poolesville-Winchester 230 kV	Active
AG1-532	Fields 34.5 kV	Active
AG1-536	Garner-Northern Neck 115 kV	Active
AG1-539	Grit DP-Perth 115 kV	Active

Queue Number	Project Name	Status
AG1-540	Berry Hill 138 kV	Active
AG1-544	Bakers Pond DP 115 kV	Active
AG1-545	W. Quaker Rd-Disputanta 34.5 kV	Active
AG1-546	Ebony-Elams Road 115 kV	Active
AG1-547	Mount Airy-Chatham 69 kV	Active
AG1-550	Mount Eagle-Fork Union 230 kV	Active
AG1-551	Parmelee 12.5 kV	Active
AG1-552	Carolina 13.2 kV	Active
AG1-557	Curdsville DP 115 kV	Withdrawn
W1-029	Winfall 230kV	In Service
Y1-086	Morgans Corner	In Service
Z1-036	WinFall-Chowan 230kV	Suspended
Z1-068	Birdneck 34.5kV	In Service
Z1-086	Heritage-Carson	In Service
Z2-027	Pasquotank 34.5kV	In Service

11.8 Contingency Descriptions

Contingency Name	Contingency Definition
DVP_P1-2: LN 556-D	CONTINGENCY 'DVP_P1-2: LN 556-D' OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-055 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P4-2: H2T557	CONTINGENCY 'DVP_P4-2: H2T557' /* ELMONT 500 KV OPEN BRANCH FROM BUS 314214 TO BUS 314903 CKT 1 /* 6CHCKAHM 230.00 - 8CHCKAHM 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 OPEN BRANCH FROM BUS 314218 TO BUS 314908 CKT 2 /* 6ELMONT 230.00 - 8ELMONT 500.00 END
DVP_P1-2: LN 562-C	CONTINGENCY 'DVP_P1-2: LN 562-C' OPEN BRANCH FROM BUS 963290 TO BUS 314923 CKT 1 /* AG1-178 TAP 500.00 - 8SEPTA 500.00 END
DVP_P1-2: LN 557	CONTINGENCY 'DVP_P1-2: LN 557' OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 END
DVP_P1-2: LN 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
938490 AE1-068_POI 500 941030 AE2-094 TAP 500 1	CONTINGENCY '938490 AE1-068_POI 500 941030 AE2-094 TAP 500 1' OPEN BRANCH FROM BUS 938490 TO BUS 941030 CKT 1 END
DVP_P1-2: LN 567	CONTINGENCY 'DVP_P1-2: LN 567' OPEN BRANCH FROM BUS 314903 TO BUS 314924 CKT 1 /* 8CHCKAHM 500.00 - 8SURREY 500.00 END
DVP_P1-2: LN 585-A	CONTINGENCY 'DVP_P1-2: LN 585-A' OPEN BRANCH FROM BUS 314902 TO BUS 941030 CKT 1 /* 8CARSON 500.00 - AE2- 094 TAP 500.00 END

Contingency Name	Contingency Definition
DVP_P4-5: L122	CONTINGENCY 'DVP_P4-5: L122' /* CHICKAHOMINY 230 KV OPEN BRANCH FROM BUS 314214 TO BUS 314903 CKT 1 /* 6CHCKAHM 230.00 - 8CHCKAHM 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 END
DVP_P4-2: 557T567	CONTINGENCY 'DVP_P4-2: 557T567' /* CHICKAHOMINY 500 KV OPEN BRANCH FROM BUS 314214 TO BUS 314903 CKT 1 /* 6CHCKAHM 230.00 - 8CHCKAHM 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314924 CKT 1 /* 8CHCKAHM 500.00 - 8SURREY 500.00 END
DVP_P4-2: 56372	CONTINGENCY 'DVP_P4-2: 56372' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 END
DVP_P1-2: LN 574	CONTINGENCY 'DVP_P1-2: LN 574' OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END
DVP_P4-2: 557T574	CONTINGENCY 'DVP_P4-2: 557T574' /* ELMONT 500 KV OPEN BRANCH FROM BUS 314214 TO BUS 314903 CKT 1 /* 6CHCKAHM 230.00 - 8CHCKAHM 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END
DVP_P4-2: 51172	CONTINGENCY 'DVP_P4-2: 51172' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 940470 CKT 1 /* 8CARSON 500.00 - AE2- 031 TAP 500.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 END
DVP_P1-2: LN 511-A	CONTINGENCY 'DVP_P1-2: LN 511-A' OPEN BRANCH FROM BUS 314902 TO BUS 940470 CKT 1 /* 8CARSON 500.00 - AE2- 031 TAP 500.00 END

Contingency Name	Contingency Definition
Base Case	
DVP_P4-5: W72	CONTINGENCY 'DVP_P4-5: W72' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 941030 CKT 1 /* 8CARSON 500.00 - AE2-094 TAP 500.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 END
DVP_P1-2: LN 576	CONTINGENCY 'DVP_P1-2: LN 576' OPEN BRANCH FROM BUS 314914 TO BUS 314918 CKT 1 /* 8MDLTHAN 500.00 - 8NO ANNA 500.00 END
DVP_P4-2: 562T563	CONTINGENCY 'DVP_P4-2: 562T563' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 940640 CKT 1 /* 8CARSON 500.00 - AE2-051 TAP 500.00 OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 511-B	CONTINGENCY 'DVP_P1-2: LN 511-B' OPEN BRANCH FROM BUS 940470 TO BUS 942930 CKT 1 /* AE2-031 TAP 500.00 - AE2-313 TAP 500.00 END

12 Short Circuit Analysis

The following Breakers are overdutied:

None

12.1 System Reinforcements - Short Circuit

None

13 Affected Systems

13.1 TVA

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

13.2 Duke Energy Progress

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