



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-439
CHINQUAPIN 230 KV
150 MW Capacity / 250 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 Edgecombe County, North Carolina. The installed facilities will have a total capability of 250 MW with 150 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is December 31, 2023. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-439
Project Name	CHINQUAPIN 230 KV
State	North Carolina
County	Edgecombe
Transmission Owner	Dominion
MFO	250
MWE	250
MWC	150
Fuel	Solar
Basecase Study Year	2024

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

4 Point of Interconnection

4.1 Primary Point of Interconnection

AG1-439 "Chinquapin 230 kV" will interconnect with the Dominion transmission system. The primary POI is a direct connect to the Chinquapin 230 kV substation.

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

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

4.2 Secondary Point of Interconnection

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

The secondary POI for AG1-439 is a new tap on the Bethel Carolina-Conatoe 115 kV line.

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

5 Cost Summary

The AG1-439 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$3,300,000
Total System Network Upgrade Costs	\$1,216,912,000 ¹
Total Costs	\$1,220,212,000

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

The required Attachment Facilities, Direct Connection and Non-Direct Connection work for the interconnection of AG1-439 to the Dominion Transmission System is detailed in the following sections. The associated one-line showing the generation project attachment facilities and primary direct and non-direct connection is shown in Attachment 1.

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

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

Description	Total Cost
<i>Attachment Facilities</i>	\$2,100,000
<i>New Breaker</i>	\$1,200,000
Total Physical Interconnection Costs	\$3,300,000

AG1-439 "Chinquapin 230 kV" will interconnect with the Dominion transmission system. The primary POI is a direct connect to the Chinquapin 230 kV substation.

To accommodate the proposed Project, Dominion Energy will add one new 230 kV breaker to the existing Chinquapin 230 kV substation to allow for the proposed interconnection. Dominion will install one span of overhead 230 kV line to the point of interconnection ("POI") including 230 kV interconnection metering.

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

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

7 Schedule

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

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

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

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

8 Transmission Owner Analysis

Dominion assessed the impact of the proposed AG1-439 for compliance with NERC Reliability Criteria on the Dominion Transmission System. The system was assessed using the summer 2024 AG1 case provided to Dominion by PJM.

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

<http://www.dominionenergy.com>.

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

8.1 Power Flow Analysis

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

9 Interconnection Customer Requirements

9.1 System Protection

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

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

9.2 Compliance Issues and Interconnection Customer Requirements

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

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

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

The IC will also be required to meet all PJM, SERC, and NERC reliability criteria and operating procedures for standards compliance. For example, the IC will need to properly locate and report the over and under voltage and over and under frequency system protection elements for its units as well as the submission of the generator model and protection data required to satisfy the PJM and SERC audits. Failure to comply with

these requirements may result in a disconnection of service if the violation is found to compromise the reliability of the Dominion system.

9.3 Power Factor Requirements

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

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

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

10.2 Meteorological Data Reporting Requirements

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

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

10.3 Interconnected Transmission Owner Requirements

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

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

11 Summer Peak - Load Flow Analysis - Primary POI

The Queue Project AG1-439 was evaluated as a 250.0 MW (Capacity 150.0 MW) injection at the Chinquapin 230 kV substation in the Dominion area. Project AG1-439 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-439 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 DC	MW IMPACT
168525312	313701	6CHINQUAPIN	230.0	DVP	314609	6TARBORO	230.0	DVP	1	DVP_P1-2: LN 218	single	441.799987793	86.01	106.41	DC	90.13
16903777	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 218	single	441.799987793	97.47	117.87	DC	90.13

11.2 Multiple Facility Contingency

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC DC	MW IMPACT
166983657	313844	3HATHAWAY	115.0	DVP	314554	3BTLEBRO	115.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	301.0	94.83	109.27	DC	43.47

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 DC	MW IMPACT
161837641	242520	05J.FERR	500.0	AEP	242514	05J.FERR	765.0	AEP	1	AEP_P7-1_#10781-A	tower	1845.0	104.85	107.04	DC	40.38
168239767	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	131.69	134.65	DC	11.96
168239768	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	131.69	134.65	DC	11.96
168239769	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	single	275.0	121.39	124.79	DC	9.48
168525345	313713	6SWAMP	230.0	DVP	314648	6SUNBURY	230.0	DVP	1	DVP_P1-2: LN 2020	single	984.179992676	102.9	104.18	DC	12.61
168525226	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	DVP_P1-2: LN 2034-C	single	733.200012207	174.94	176.61	DC	12.24
168525227	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012207	171.49	172.96	DC	10.72
168525228	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	single	733.200012207	149.12	151.17	DC	15.04
163347135	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	459.0	185.45	192.85	DC	33.91
163347136	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	180.06	187.27	DC	33.06

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
163347405	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	202.56	212.71	DC	46.51
163347406	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:48:P71:102 649	tower	459.0	179.0	186.21	DC	33.05
168525240	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	375.059997559	155.89	161.17	DC	19.83
168525241	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	375.059997559	146.28	151.3	DC	18.83
163838168	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT2 30T	230.0	CPL E	1	DVP_P1-2: LN 2181	single	478.0	122.6	131.5	DC	42.54
163838169	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT2 30T	230.0	CPL E	1	EXT_304222 6ROCKYMT230 T 230 304226 6PA-RMOUNT#4 230 1	single	478.0	113.47	122.37	DC	42.54
168525351	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	DVP_P1-2: LN 247	single	984.179992676	106.69	108.0	DC	12.82
168525251	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	DVP_P1-2: LN 2034-C	single	733.200012207	169.93	171.6	DC	12.27
168525252	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012207	166.46	167.93	DC	10.75
168525253	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	single	733.200012207	144.25	146.31	DC	15.07
168830386	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	DVP_P1-2: LN 2034-C	single	731.320007324	170.34	172.02	DC	12.27
168830387	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	DVP_P1-2: LN 2034-E	single	731.320007324	166.87	168.34	DC	10.75
168830388	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	single	731.320007324	144.61	146.67	DC	15.07
168830457	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	single	559.299987793	166.81	168.59	DC	10.21
168830458	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 2002	single	559.299987793	151.91	153.16	DC	9.95
168830714	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P1-2: LN 563	single	678.679992676	112.98	114.15	DC	8.22
168830715	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P1-2: LN 249	single	678.679992676	114.5	115.43	DC	9.06
168830467	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	single	559.299987793	163.0	164.78	DC	10.21
168830468	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 2002	single	559.299987793	148.1	149.35	DC	9.95
168830490	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	143.3	145.08	DC	8.14
168830492	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 249	single	441.799987793	114.62	116.53	DC	8.46
168830610	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	139.69	140.98	DC	8.2
168830613	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P1-2: LN 2003	single	441.799987793	103.99	105.85	DC	8.19
168830537	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	144.85	146.14	DC	8.2
168830539	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P1-2: LN 2002	single	441.799987793	110.46	112.28	DC	8.03
168830486	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	143.32	145.1	DC	8.14
168830488	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 249	single	441.799987793	114.64	116.55	DC	8.46
163347475	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	158.0	159.74	DC	32.04
163347476	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P7-1: LN 54-2012-A	tower	830.0	157.91	159.66	DC	32.04
168830412	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	145.56	148.44	DC	19.56

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168830413	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1	single	678.679992676	142.54	145.42	DC	19.56
168830414	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	single	678.679992676	129.25	132.27	DC	20.47
163838792	314554	3BTLEBRO	115.0	DVP	304223	3ROCKYMT115T	115.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	164.0	304.01	325.77	DC	35.57
163347221	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	145.21	147.1	DC	34.63
163347480	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	151.76	157.38	DC	46.53
163347481	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	830.0	142.08	146.52	DC	36.84
169037772	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2056-A	single	678.679992676	133.35	134.98	DC	13.51
169037773	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	127.58	130.35	DC	19.57
169037774	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	single	678.679992676	116.6	119.44	DC	20.48
169037637	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	229.32	234.72	DC	30.85
169037638	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	226.42	231.82	DC	30.86
169037640	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	single	571.520019531	138.94	143.17	DC	24.18
163837930	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P4-2: 2020T2144	breaker	478.0	213.03	223.16	DC	48.41
163838105	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2167	single	478.0	138.03	151.19	DC	62.89
163838106	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2092	single	478.0	148.33	154.41	DC	29.02
163838110	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	Base Case	single	478.0	111.43	116.94	DC	26.38
163838795	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	478.0	213.76	227.34	DC	64.89
169037655	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	220.64	226.04	DC	30.85
169037656	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	217.74	223.14	DC	30.86
169037658	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	single	571.520019531	130.25	134.48	DC	24.18
163347430	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	186.75	196.92	DC	46.59
168525256	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P1-2: LN 2056-A	single	375.059997559	156.48	159.67	DC	11.93
168525257	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	single	375.059997559	139.97	145.27	DC	19.89
169037744	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 238-B	single	375.059997559	138.73	142.41	DC	13.82
169037745	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 2201	single	375.059997559	130.16	134.07	DC	14.69
163838156	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	single	478.0	122.97	132.29	DC	44.56
163838161	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 218	single	478.0	100.06	106.47	DC	30.62
168525245	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	DVP_P1-2: LN 2034-C	single	733.200012207	169.93	171.6	DC	12.27
168525246	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012207	166.47	167.94	DC	10.75
168525247	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	single	733.200012207	144.27	146.32	DC	15.07
169248615	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 247	single	571.520019531	175.58	177.82	DC	12.81

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOAD NG %	POST PROJECT LOAD NG %	AC/DC	MW IMPACT
169248617	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 2144	single	571.520019531	157.44	159.69	DC	12.83
169248618	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	Base Case	single	568.700012207	117.55	119.02	DC	8.39
169248733	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	DVP_P1-2: LN 247	single	984.179992676	106.71	108.02	DC	12.82
169248737	314648	6SUNBURY	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2020	single	984.179992676	101.98	103.26	DC	12.61
169248710	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P1-2: LN 247	single	898.640014648	121.27	122.7	DC	12.83
169248711	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P1-2: LN 2144	single	898.640014648	109.48	110.91	DC	12.85
169248626	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	DVP_P1-2: LN 2034-C	single	733.200012207	175.81	177.48	DC	12.24
169248627	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012207	172.37	173.83	DC	10.72
169248628	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	single	733.200012207	149.98	152.03	DC	15.04
163838181	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P1-2: LN 567	single	2442.12011719	148.09	148.5	DC	30.62
163838184	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P1-3: 8MDLTHAN-TX#6	single	2442.12011719	134.74	135.2	DC	26.57
163838187	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	Base Case	single	2442.12011719	130.08	130.27	DC	26.48
163838244	314924	8SURREY	500.0	DVP	314903	8CHCKAHM	500.0	DVP	1	DVP_P1-2: LN 563	single	2442.12011719	124.37	124.8	DC	27.14
163838248	314924	8SURREY	500.0	DVP	314903	8CHCKAHM	500.0	DVP	1	DVP_P1-2: LN 576	single	2442.12011719	111.09	111.45	DC	25.3
163347460	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	160.12	165.75	DC	46.53
163347461	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	156.31	158.06	DC	32.06
169753102	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	143.01	145.73	DC	19.57
169753103	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	314266 6NORTHAMPT ON 230 936400 AD2-051 TAP 230 1	single	678.679992676	139.99	142.71	DC	19.57
169753104	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	single	678.679992676	128.44	131.46	DC	20.48
168830333	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	224.97	230.37	DC	30.85
168830334	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	222.08	227.48	DC	30.86
168830336	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	single	571.520019531	134.64	138.87	DC	24.18

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 PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
168239764	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P1-3_#1377_05J.FERR 765_1	operati on	402.0	158.41	160.65	DC	19.93
168239765	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	operati on	402.0	158.41	160.65	DC	19.93
168239766	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	operati on	275.0	136.97	139.55	DC	15.79
168525310	313701	6CHINQUA PIN	230.0	DVP	314609	6TARBORO	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	136.44	170.44	DC	150.22
168525343	313713	6SWAMP	230.0	DVP	314648	6SUNBURY	230.0	DVP	1	DVP_P1-2: LN 2020	operati on	984.179992676	167.01	167.97	DC	21.01
168525225	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	operati on	733.200012207	214.69	218.11	DC	25.07
168525238	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operati on	375.059997559	218.14	226.97	DC	33.06
163838166	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT2 30T	230.0	CPL E	1	DVP_P1-2: LN 2181	operati on	478.0	166.73	181.59	DC	70.9
168525348	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	DVP_P1-2: LN 247	operati on	984.179992676	166.93	167.91	DC	21.37
168525350	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	Base Case	operati on	984.179992676	109.04	109.68	DC	14.01
168525250	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	operati on	733.200012207	190.78	194.21	DC	25.12
168830385	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	operati on	731.320007324	191.26	194.69	DC	25.12
168830456	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	operati on	559.299987793	183.67	185.05	DC	17.02
168830713	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P1-2: LN 563	operati on	678.679992676	125.59	126.5	DC	13.69
168830466	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	operati on	559.299987793	179.86	181.24	DC	17.02
168830489	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 563	operati on	441.799987793	166.67	168.06	DC	13.57
168830485	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 563	operati on	441.799987793	166.7	168.08	DC	13.57
168830409	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	operati on	678.679992676	190.75	192.92	DC	32.6
168830411	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operati on	678.679992676	173.43	175.7	DC	34.12
168830782	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	1	DVP_P1-3: 8SUFFOLK-TX#8	operati on	893.187988281	108.57	111.4	DC	25.21
169037908	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	2	DVP_P1-3: 8SUFFOLK-TX#7	operati on	906.253967285	107.23	110.02	DC	25.27
169037926	314561	6CAROLNA	230.0	DVP	314559	3CAROLNA	115.0	DVP	1	DVP_P1-2: LN 2201	operati on	239.888000488	98.5	101.9	DC	18.07
169037771	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	operati on	678.679992676	167.22	169.49	DC	34.14
169037775	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	137.03	171.03	DC	150.22
169037635	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	316.45	325.45	DC	51.41
169037639	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	operati on	571.520019531	185.84	192.9	DC	40.29
163838099	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2092	operati on	478.0	210.86	220.98	DC	48.37

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
163838104	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	Base Case	operati on	478.0	153.22	162.42	DC	43.96
169037653	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	307.77	316.77	DC	51.41
169037657	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	operati on	571.520019531	177.15	184.2	DC	40.29
169037934	314579	6HORNRTN	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	314574 6EVERETS 230 927020 AC1-189 TAP 230 1	operati on	441.799987793	84.85	100.84	DC	70.71
168525254	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P1-2: LN 2056-A	operati on	375.059997559	216.81	219.21	DC	19.89
168525255	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	operati on	375.059997559	198.24	207.09	DC	33.14
169037742	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 238-B	operati on	375.059997559	206.33	209.1	DC	23.04
163838155	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	operati on	478.0	166.47	182.03	DC	74.27
168830664	314594	6PLYMOTH	230.0	DVP	314203	6MACKEYS	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	789.599975586	128.12	132.84	DC	37.28
169037809	314609	6TARBORO	230.0	DVP	314610	6TOTDP4	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	123.01	157.01	DC	150.22
169037813	314610	6TOTDP4	230.0	DVP	314564	6EDGECOM	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	120.54	154.55	DC	150.22
169037896	314613	6TRWBRDG	115.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 2034-E	operati on	194.861999512	115.23	119.39	DC	17.98
169037859	314616	6TRWBRDG	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	789.599975586	130.86	135.58	DC	37.28
169037928	314620	6CASHIE	230.0	DVP	933990	AD1-023 TAP	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	571.520019531	100.89	102.39	DC	19.1
168525244	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	operati on	733.200012207	190.79	194.22	DC	25.12
169248730	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	DVP_P1-2: LN 247	operati on	984.179992676	166.95	167.93	DC	21.37
169248732	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	Base Case	operati on	984.179992676	109.05	109.69	DC	14.01
169248735	314648	6SUNBURY	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2020	operati on	984.179992676	166.08	167.04	DC	21.01
169248707	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P1-2: LN 247	operati on	898.640014648	186.92	187.99	DC	21.39
169248709	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	Base Case	operati on	823.440002441	134.82	135.58	DC	14.03
169248821	314651	6WINFALL	230.0	DVP	313713	6SWAMP	230.0	DVP	1	DVP_P1-2: LN 2020	operati on	984.179992676	131.95	132.92	DC	21.07
169248625	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	operati on	733.200012207	215.55	218.97	DC	25.07
163838362	314928	8SUFFOLK	500.0	DVP	314924	8SURREY	500.0	DVP	1	DVP_P1-2: LN 579	operati on	2442.12011719	114.55	114.99	DC	30.12
169037852	927020	AC1-189 TAP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 2167	operati on	441.799987793	74.17	130.74	DC	249.93
169037900	933990	AD1-023 TAP	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	571.520019531	111.19	112.69	DC	19.1
169753099	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	operati on	678.679992676	191.19	193.36	DC	32.61
169753101	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operati on	678.679992676	176.23	178.5	DC	34.14
168830331	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	314.35	323.35	DC	51.41
168830335	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	operati on	571.520019531	183.14	190.19	DC	40.29
169037924	965690	AG1-437 TAP	230.0	DVP	314620	6CASHIE	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	571.520019531	103.01	104.51	DC	19.1

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
168239767,168 239769,168239 768	5	05EDAN 1 138.0 kV - 05DANVL2 138.0 kV Ckt 1	<u>AEP</u> n6124 (382) : PJM Network Upgrade n6124. Increasing the Danville East Danville 138 kV circuit summer rating to 572/572/572 MVA will still require us to rebuild the line. The network project has an projected in-service date of 06/01/2021. Project Type : FAC Cost : \$9,000,000 Time Estimate : Months	\$9,000,000
169037638,169 037640,169037 637	23	6EARLEYS 230.0 kV - 6NUCO TP 230.0 kV Ckt 1	<u>DVP</u> n6138 (1695) : Rebuild 13.7 miles of 230 kV Line 246 from Earleys to Nucor Tap with 2-636 ACSR. Project Type : FAC Cost : \$20,550,000 Time Estimate : 30-36 Months dom-315 (1846) : Rebuild 13.7 miles of 230 kV Line 246 from Earleys to Nucor Tap with 2-768.2 ACSS 250 C. Replace Wave Trap and Line Lead at Earleys terminal. Replace Line Switch at Nucor Tap Terminal. Project Type : FAC Cost : \$21,000,000 Time Estimate : 36-40 Months	\$41,550,000
168525251,168 525253,168525 252	11	6WALBMRL 230.0 kV - 6PERQUIMANS 230.0 kV Ckt 1	<u>DVP</u> dom-203 (1734) : Wreck and rebuild 16.7 miles of existing single circuit line 2131 between Mackeys to Perquimans 230 kV. Add new circuit between Mackeys to Perquimans 230 kV, constructed as a double circuit line. Utilize 2-636 ACSR for all new and modified circuits. Add a breaker at each 230 kV terminal. Project Type : CON Cost : \$44,150,000 Time Estimate : 36-40 Months	\$44,150,000
168525246,168 525247,168525 245	29	6EDENTON 230.0 kV - 6WALBMRL 230.0 kV Ckt 1		
168830386,168 830387,168830 388	12	6MACKEYS 230.0 kV - 6EDENTON 230.0 kV Ckt 1		
169248733	31	6TANGLEW 230.0 kV - 6ECITYDP2 230.0 kV Ckt 1	<u>DVP</u> dom-200 (1731) : Wreck and rebuild 5.6 miles of existing single circuit line 2020 between Elizabeth City to Pasquotank 230 kV. Add new circuit between Elizabeth City to Pasquotank 230 kV, constructed as a double circuit line. Utilize 2-636 ACSR for all new and modified circuits. Add a three breaker station at Pasquotank and Elizabeth City DP 230 kV. Project Type : CON Cost : \$27,000,000 Time Estimate : 36-40 Months	\$27,000,000
168525351	10	6ECITYDP2 230.0 kV - 6ELIZ CT 230.0 kV Ckt 1		

ID	Idx	Facility	Upgrade Description	Cost
168830333,168 830336,168830 334	38	AF2-076 TAP 230.0 kV - 6SUFFOLK 230.0 kV Ckt 1	<u>DVP</u> dom-243 (1774) : Rebuild 2.8 miles of 230 kV Line 246 from AF2-076 Tap to Suffolk with 2-768 ACSS. Project Type : FAC Cost : \$4,200,000 Time Estimate : 36-40 Months dom-408 (1939) : Rebuild 2.8 miles of 230 kV Line 246 from AF2-076 Tap to Suffolk with 2-768.2 ACSS 250 C. Replace Wave Trap at Suffolk terminal Project Type : FAC Cost : \$4,400,000 Time Estimate : 30-36 Months	\$8,600,000
169753104,163 347461,163347 460,169753103, 169753102	37	AE2-033 TAP 230.0 kV - 6SAPONY 230.0 kV Ckt 1	<u>DVP</u> n6452 (1535) : Rebuild 2.47 miles of 230 kV Line 238 from AE2-033 TAP to Sapony with 2-795 150C ACSR. Project Type : FAC Cost : \$3,705,000 Time Estimate : 30-36 Months	\$3,705,000
169248737	32	6SUNBURY 230.0 kV - 6SUFFOLK 230.0 kV Ckt 1	<u>DVP</u> dom-331 (1862) : Rebuild 18.76 miles of 230 kV Line 247 from Sunbury to Suffolk with 2-768.2 ACSS 250 C. Replace Line Lead at both terminals. Project Type : FAC Cost : \$28,140,000 Time Estimate : 36-40 Months	\$28,140,000
168830457,168 830458	13	6CARSON 230.0 kV - 6CHRL249 230.0 kV Ckt 1	<u>DVP</u> n6112 (1686) : Rebuild 7.47 miles of 230 kV Line 249 from Carson to Chaparral with 2-636 ACSR. Project Type : FAC Cost : \$18,675,000 Time Estimate : 30-36 Months	\$18,675,000
163347430,168 525257,168525 256	26	6LAKEVIEW 230.0 kV - 6DRY BREAD 230.0 kV Ckt 1	<u>DVP</u> b3121 (1473) : PJM Baseline Upgrade b3121. Rebuild Clubhouse-Lakeview 230 kV Line #254 with single-circuit wood pole equivalent structures at the current 230 kV standard with a minimum rating of 1047 MVA. The baseline project has a projected in-service date of 12/31/2024. Project Type : FAC Cost : \$0	\$0
168830468,168 830467	15	6CHRL249 230.0 kV - 6LOCKS 230.0 kV Ckt 1	<u>DVP</u> n6116 (1689) : Rebuild 2.86 miles of 230 kV Line 249 from Chaparral to Locks with 2-636 ACSR. Project Type : FAC Cost : \$7,150,000 Time Estimate : 30-36 Months	\$7,150,000

ID	Idx	Facility	Upgrade Description	Cost
169248627,169 248626,169248 628	34	6S HERTFORD 230.0 kV - 6WINFALL 230.0 kV Ckt 1	<u>DVP</u> n6439 (1586) : Rebuild 3.3 miles of 230 kV Line 2131 from South Hertford to Winfall with 2-636 ACSR. Project Type : FAC Cost : \$4,950,000 Time Estimate : 30-36 Months n6438 (1581) : Rebuild 4.65 miles of 230 kV Line 2131 from Perquimans to South Hertford with 2-636 ACSR. Project Type : FAC Cost : \$6,975,000 Time Estimate : 30-36 Months	\$35,525,000
168525228,168 525226,168525 227	7	6PERQUIMANS 230.0 kV - 6S HERTFORD 230.0 kV Ckt 1	dom-257 (1788) : Wreck and rebuild 8.0 miles of existing single circuit line 2131 between Winfall to Perquimans 230 kV. Add new circuit between Winfall to Perquimans 230 kV, constructed as a double circuit line. Utilize 2-636 ACSR for all new and modified circuits. Add a Breaker at Perquimans 230 kV and two breakers at Winfall 230 kV. Project Type : CON Cost : \$23,600,000 Time Estimate : 30-36 Months	
161837641	4	05J.FERR 500.0 kV - 05J.FERR 765.0 kV Ckt 1	<u>AEP</u> AEPA0032a (111) : Upgrade 765/500 kV T1 from 1500 MVA to 2250 MVA Transformer Project Type : FAC Cost : \$6,000,000 Time Estimate : 12-18 Months	\$6,000,000
163838169,163 838168	9	6HATHAWAY 230.0 kV - 6ROCKYMT230T 230.0 kV Ckt 1	<u>DVP</u> n6441 (1478) : For DEV portion, rebuild 4.13 miles of 230 kV Line 2058 from Hathaway to Rocky Mountain with 2-636 ACSR. Project Type : FAC Cost : \$10,325,000 Time Estimate : 30-36 Months <u>DEP</u> The external (i.e. Non-PJM) Transmission Owner, DEP, will not evaluate this violation until the impact study phase.	\$10,325,000
163838110,163 838106,163838 105,163837930, 163838795	24	6EVERETS 230.0 kV - 6GREENVILE T 230.0 kV Ckt 1	<u>DVP</u> dom-173 (1656) : Rebuild 20.32 miles of 230 kV Line 218 from Everetts to Greenville with 2-636 ACSR Project Type : FAC Cost : \$30,480,000 Time Estimate : 30-36 Months <u>DEP</u> The external (i.e. Non-PJM) Transmission Owner, DEP, will not evaluate this violation until the impact study phase.	\$30,480,000

ID	Idx	Facility	Upgrade Description	Cost
163838156,163838161	28	6NASH 230.0 kV - 6PA- RMOUNT#4 230.0 kV Ckt 1	<u>DVP</u> n6444 (1481) : For DEV portion, rebuild 3.3 miles of 230 kV Line 2181 from Nash to Parmount with 2-636 ACSR. Project Type : FAC Cost : \$8,250,000 Time Estimate : 30-36 Months <u>DEP</u> The external (i.e. Non-PJM) Transmission Owner, DEP, will not evaluate this violation until the impact study phase.	\$8,250,000
163838792	21	3BTLEBRO 115.0 kV - 3ROCKYMT115T 115.0 kV Ckt 1	<u>DVP</u> dom-007 (1179) : Build new 500 kV line between Everetts and Suffolk. Project Type : CON Cost : \$570,000,000 Time Estimate : 48-60 Months <u>DEP</u> The external (i.e. Non-PJM) Transmission Owner, DEP, will not evaluate this violation until the impact study phase. Scope: Reconductor the circuit to 1590 ACSR will bring the rating to 185/205/214 MVA. Upgrading the terminal equipment at Rocky Mount will bring the rating to 301/301/301 MVA (Limited by 1590 ACSR conductor). Project Type: FAC Cost: TBD Time Estimate: 36 Months Note 1: Mitigations have been identified to achieve a DEP end rating of 301/301/301 MVA. However, no queue customer has yet officially agreed to construct the upgrade. Therefore, no construction plans have been put in place to date. Note 2: PJM is coordinating with Duke Energy Progress (DEP) and Dominion Energy (DVP) to evaluate remedies to alleviate the higher loading seen in the AG1 study on the Battleboro to Rocky Mountain 115 kV line. Reinforcements for the PJM queue project driving the need for this upgrade have been scoped while the best solution for the loading seen in AG1 is still being evaluated by both DEP and DVP.	\$570,000,000
166983657	3	3HATHAWAY 115.0 kV - 3BTLEBRO 115.0 kV Ckt 1		
169037777	2	6EDGECOM 230.0 kV - 6HATHAWAY 230.0 kV Ckt 1	<u>DVP</u> dom-314 (1845) : Rebuild 0.28 miles of 230 kV Line 2167 from Edgecombe to Hathaway with 2-636 ACSS 150 C Project Type : FAC Cost : \$420,000 Time Estimate : 30-36 Months	\$420,000

ID	Idx	Facility	Upgrade Description	Cost
168830492,168 830490	16	6HARROWG 230.0 kV - 6TYLER1 230.0 kV Ckt 1	<u>DVP</u> n6178 (1717) : Rebuild 4.5 miles of 230 kV Line 2003 from Harrowgate to Tyler with 2-636 ACSR. Project Type : FAC Cost : \$11,250,000 Time Estimate : 30-36 Months	\$11,250,000
168830488,168 830486	19	6POE 230.0 kV - 6HARROWG 230.0 kV Ckt 1	<u>DVP</u> n6179 (1718) : Rebuild 12.3 miles of 230 kV Line 2003 from Poe to Harrowgate with 2-636 ACSR. Project Type : FAC Cost : \$30,750,000 Time Estimate : 30-36 Months	\$30,750,000
168830539,168 830537	18	6LOCKS 230.0 kV - 6HARR205 230.0 kV Ckt 1	<u>DVP</u> dom-165 (1648) : Uprate 5.4 miles of 230 kV Line 205 from Locks to Harrowgate with 1033.5 ACSR. Upgrade Relays at Locks. Project Type : FAC Cost : \$2,280,000 Time Estimate : 30-36 Months	\$2,280,000
168830715,168 830714	14	6CARSON 230.0 kV - 6POE 230.0 kV Ckt 1	<u>DVP</u> dom-120 (1617) : Rebuild 12.68 miles of 230 kV Line 2002 from Carson to Poe with 2-636 ACSR. Project Type : FAC Cost : \$31,700,000 Time Estimate : 30-36 Months	\$31,700,000
169037655,169 037656,169037 658	25	6NUCO TP 230.0 kV - AF2-076 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-317 (1848) : Rebuild 26.63 miles of 230 kV Line 246 from Nucor Tap to AF2-076 Tap with 2-768.2 ACSS 250 C. Replace Line Switch at Nucor Tap terminal. Project Type : FAC Cost : \$40,195,000 Time Estimate : 36-40 Months	\$40,195,000
163838248,163 838244	36	8SURRY 500.0 kV - 8CHCKAHM 500.0 kV Ckt 1	<u>DVP</u> n6324 (1522) : Replace Terminal Equipment at Surry and Chickahominy Substations Project Type : FAC Cost : \$4,000,000 Time Estimate : 16-18 Months	\$4,000,000
168830412,163 347475,163347 476,168830414, 168830413	20	6SAPONY 230.0 kV - 6CARSON 230.0 kV Ckt 1	<u>DVP</u> n6221 (1724) : Rebuild 11.79 miles of 230 kV Line 238 from Sapony to Carson with 2-795 150C ACSR. Project Type : FAC Cost : \$17,685,000 Time Estimate : 30-36 Months	\$17,685,000

ID	Idx	Facility	Upgrade Description	Cost
163347135,163 347136,163347 405,168525240, 168525241,163 347406	8	6DRY BREAD 230.0 kV - 6CLUBHSE 230.0 kV Ckt 1	<u>DVP</u> dom-270 (1801) : Rebuild 1.45 miles of 230 kV Line 2201 from Dry bread to Clubhouse with 2-636 ACSR 150 C. Replace Line Lead at Clubhouse terminal. Project Type : FAC Cost : \$2,175,000 Time Estimate : 30-36 Months	\$2,175,000
168830610,168 830613	17	6HARR205 230.0 kV - 6TYLER 230.0 kV Ckt 1	<u>DVP</u> n6328 (1646) : Reconductor 0.64 miles of 230 kV Line 205 from Harrowgate to Tyler with 1033.5 ACSR. Uprate 4.09 miles of 230 kV Line 205 from Harrowgate to Tyler. Project Type : FAC Cost : \$2,148,000 Time Estimate : 30-36 Months	\$2,148,000
163838187,163 838184,163838 181	35	8MDLTHAN 500.0 kV - 8NO ANNA 500.0 kV Ckt 1	<u>DVP</u> n5609 (1679) : Rebuild 41.13 miles of 500 kV Line 576 from Midlothian to North Anna with 3-1351.5 125C ACSR. Project Type : FAC Cost : \$127,503,000 Time Estimate : 48-60 Months n6055 (1684) : Replace Wave traps at Midlothian and North Anna 500kV substations Project Type : FAC Cost : \$300,000 Time Estimate : 16-18 Months	\$127,803,000
168525345	6	6SWAMP 230.0 kV - 6SUNBURY 230.0 kV Ckt 1	<u>DVP</u> dom-267 (1798) : Rebuild 12.41 miles of 230 kV Line 247 from Swamp to Sunbury with 2-768.2 ACSS 250 C. Replace Line Leads at both terminals. Project Type : FAC Cost : \$18,615,000 Time Estimate : 36-42 Months	\$18,615,000
169248711,169 248710	33	6WINFALL 230.0 kV - 6TANGLEW 230.0 kV Ckt 1	<u>DVP</u> n6440 (1601) : Rebuild 9.97 miles of 230 kV Line 2020 from Winfall to Tanglewood DP with 2-795 150C ACSR. Project Type : FAC Cost : \$14,955,000 Time Estimate : 30-36 Months	\$14,955,000

ID	Idx	Facility	Upgrade Description	Cost
169248615,169248617,169248618	30	6ELIZ CT 230.0 kV - 6SHAWBRO 230.0 kV Ckt 1	<u>DVP</u> n6218 (1489) : Rebuild 10.28 miles of 230 kV Line 2021 from Elizabeth City to Shawboro with 2-636 ACSR. Project Type : FAC Cost : \$15,420,000 Time Estimate : 30-36 Months dom-255 (1786) : Rebuild 10.28 miles of 230 kV Line 2021 from Elizabeth City to Shawboro with 2-768.2 ACSS 250C. Replace Breaker, Breaker Lead, Wave Trap and Line lead at Elizabeth City 230 kV. Replace Wave trap, relay (Secondary CT), Line Lead at Shawboro 230 kV. Project Type : FAC Cost : \$17,140,000 Time Estimate : 36-40 Months	\$32,560,000
169037774,169037773,169037772,163347221,163347481,163347480	22	6CLUBHSE 230.0 kV - AE2-033 TAP 230.0 kV Ckt 1	<u>DVP</u> n6872 (1531) : Rebuild 14.28 miles of 230 kV Line 238 from Clubhouse to AE2-033 Tap with 2-795 150C ACSR. Project Type : FAC Cost : \$21,420,000 Time Estimate : 30-36 Months	\$21,420,000
168525312	1	6CHINQUAPIN 230.0 kV - 6TARBORO 230.0 kV Ckt 1	<u>DVP</u> dom-260 (1791) : Rebuild 5.75 miles of 230 kV line 2177 from Chinquapin to Tarboro with 2-636 ACSR 150 C Project Type : FAC Cost : \$8,625,000 Time Estimate : 36-42 Months	\$8,625,000
169037744,169037745	27	6LAKEVEW 230.0 kV - 6CAROLNA 230.0 kV Ckt 1	<u>DVP</u> n6052 (1683) : Rebuild 1.37 miles of 230 kV Line 2141 from Lakeview to Carolina with 2-636 ACSR. Project Type : FAC Cost : \$1,781,000 Time Estimate : 30-36 Months	\$1,781,000
			TOTAL COST	\$1,216,912,000

11.6 Flow Gate Details - Primary POI

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

11.6.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168525312	313701	6CHINQUAPIN	DVP	314609	6TARBORO	DVP	1	DVP_P1-2: LN 218	single	441.8	86.01	106.41	DC	90.13

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1110	80/20	0.1110
314582	3KELFORD	0.1341	80/20	0.1341
314589	3MURPHYS	0.0308	80/20	0.0308
314638	6ELIZ CT	0.0649	80/20	0.0649
314639	6TANGLEW	0.1296	80/20	0.1296
315292	1DOMTR78	1.4959	80/20	1.4959
315293	1DOMTR9	7.7369	80/20	7.7369
315294	1DOMTR10	9.4815	80/20	9.4815
315601	1CONETOE2SOL	5.0246	80/20	5.0246
315602	1HOLLOMANSOL	1.1697	80/20	1.1697
315605	6W1-029WIND	0.3945	80/20	0.3945
315611	6Z1-036WIND	0.5193	80/20	0.5193
315614	AA2-178 C	1.0665	80/20	1.0665
316140	AB2-099 C (Suspended)	0.3213	80/20	0.3213
925121	AB2-169 C	1.5079	80/20	1.5079
925591	AC1-034 C	-4.4790	Adder	-5.27
927024	AC1-189 C	27.7675	80/20	27.7675
933991	AD1-023 C	10.9720	80/20	10.9720
934521	AD1-076 C	45.6132	80/20	45.6132
936401	AD2-051 C O1	7.0515	80/20	7.0515
938221	AE1-035 C	0.2925	80/20	0.2925
940491	AE2-034 C	5.0698	80/20	5.0698
941501	AE2-147 C	5.7708	80/20	5.7708
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1048	80/20	0.1048
943171	AE2-346 C	0.7711	80/20	0.7711
944871	AF1-152 C	1.9236	80/20	1.9236
945711	AF1-236 C O1	55.5025	80/20	55.5025
957521	AF2-046 C	6.6117	80/20	6.6117
957531	AF2-047 C	12.0469	80/20	12.0469
957861	AF2-080 C	25.2195	80/20	25.2195
959511	AF2-242 C	12.6968	80/20	12.6968
961681	AG1-008 C	6.6250	80/20	6.6250
961931	AG1-036 C	0.6466	80/20	0.6466
961941	AG1-037 C	0.2754	80/20	0.2754
962331	AG1-082 C	1.1016	80/20	1.1016
962341	AG1-083 C	1.1016	80/20	1.1016
962351	AG1-084 C	1.0726	80/20	1.0726
962361	AG1-085 C	1.0726	80/20	1.0726
964491	AG1-312 C O1	15.5355	80/20	15.5355
965631	AG1-431	32.1330	80/20	32.1330
965691	AG1-437 C O1	8.4240	80/20	8.4240

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965701	AG1-438 C O1	8.4240	80/20	8.4240
965711	AG1-439 C O1	90.1350	80/20	90.1350
965741	AG1-442 O1	4.9140	80/20	4.9140
965751	AG1-443 O1	4.9140	80/20	4.9140
965761	AG1-444 O1	48.0720	80/20	48.0720
966801	AG1-551 C	4.4131	80/20	4.4131
966931	AG1-431A	24.1420	80/20	24.1420
G-007A	G-007A	0.6401	Confirmed LTF	0.6401
VFT	VFT	1.7092	Confirmed LTF	1.7092
CALDERWOOD	CALDERWOOD	0.6744	Confirmed LTF	0.6744
PRAIRIE	PRAIRIE	2.3066	Confirmed LTF	2.3066
CHEOAH	CHEOAH	0.6912	Confirmed LTF	0.6912
CBM-N	CBM-N	0.3108	Confirmed LTF	0.3108
COTTONWOOD	COTTONWOOD	2.4990	Confirmed LTF	2.4990
HAMLET	HAMLET	1.4900	Confirmed LTF	1.4900
GIBSON	GIBSON	0.4040	Confirmed LTF	0.4040
BLUEG	BLUEG	1.2447	Confirmed LTF	1.2447
TRIMBLE	TRIMBLE	0.3951	Confirmed LTF	0.3951
CATAWBA	CATAWBA	0.7270	Confirmed LTF	0.7270

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
169037777	314564	6EDGECOM	DVP	313845	6HATHAWAY	DVP	1	DVP_P1-2: LN 218	single	441.8	97.47	117.87	DC	90.13

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1110	80/20	0.1110
314582	3KELFORD	0.1341	80/20	0.1341
314589	3MURPHYS	0.0308	80/20	0.0308
314638	6ELIZ CT	0.0649	80/20	0.0649
314639	6TANGLEW	0.1296	80/20	0.1296
315131	1EDGECEMA (Deactivation : 22/04/2019)	49.0668	80/20	49.0668
315132	1EDGECEMB (Deactivation : 22/04/2019)	49.0668	80/20	49.0668
315292	1DOMTR78	1.4959	80/20	1.4959
315293	1DOMTR9	7.7369	80/20	7.7369
315294	1DOMTR10	9.4815	80/20	9.4815
315601	1CONETOE2SOL	5.0246	80/20	5.0246
315602	1HOLLOMANSOL	1.1697	80/20	1.1697
315605	6W1-029WIND	0.3945	80/20	0.3945
315611	6Z1-036WIND	0.5193	80/20	0.5193
315614	AA2-178 C	1.0665	80/20	1.0665
316140	AB2-099 C (Suspended)	0.3213	80/20	0.3213
925121	AB2-169 C	1.5079	80/20	1.5079
925591	AC1-034 C	-4.4790	Adder	-5.27
927024	AC1-189 C	27.7675	80/20	27.7675
933991	AD1-023 C	10.9720	80/20	10.9720
934521	AD1-076 C	45.6132	80/20	45.6132
936401	AD2-051 C O1	7.0515	80/20	7.0515
938221	AE1-035 C	0.2925	80/20	0.2925
940491	AE2-034 C	5.0698	80/20	5.0698
941501	AE2-147 C	5.7708	80/20	5.7708
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1048	80/20	0.1048
943171	AE2-346 C	0.7711	80/20	0.7711
944871	AF1-152 C	1.9236	80/20	1.9236
945711	AF1-236 C O1	55.5025	80/20	55.5025
957521	AF2-046 C	6.6117	80/20	6.6117
957531	AF2-047 C	12.0469	80/20	12.0469
957861	AF2-080 C	25.2195	80/20	25.2195
959511	AF2-242 C	12.6968	80/20	12.6968
961671	AG1-007 C	5.1139	80/20	5.1139
961681	AG1-008 C	6.6250	80/20	6.6250
961931	AG1-036 C	0.6466	80/20	0.6466
961941	AG1-037 C	0.2754	80/20	0.2754
962331	AG1-082 C	1.1016	80/20	1.1016
962341	AG1-083 C	1.1016	80/20	1.1016

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962351	AG1-084 C	1.0726	80/20	1.0726
962361	AG1-085 C	1.0726	80/20	1.0726
964491	AG1-312 C O1	15.5355	80/20	15.5355
965631	AG1-431	32.1330	80/20	32.1330
965691	AG1-437 C O1	8.4240	80/20	8.4240
965701	AG1-438 C O1	8.4240	80/20	8.4240
965711	AG1-439 C O1	90.1350	80/20	90.1350
965741	AG1-442 O1	4.9140	80/20	4.9140
965751	AG1-443 O1	4.9140	80/20	4.9140
965761	AG1-444 O1	48.0720	80/20	48.0720
966801	AG1-551 C	4.4131	80/20	4.4131
966931	AG1-431A	24.1420	80/20	24.1420
G-007A	G-007A	0.6401	Confirmed LTF	0.6401
VFT	VFT	1.7092	Confirmed LTF	1.7092
CALDERWOOD	CALDERWOOD	0.6744	Confirmed LTF	0.6744
PRAIRIE	PRAIRIE	2.3066	Confirmed LTF	2.3066
CHEOAH	CHEOAH	0.6912	Confirmed LTF	0.6912
CBM-N	CBM-N	0.3108	Confirmed LTF	0.3108
COTTONWOOD	COTTONWOOD	2.4990	Confirmed LTF	2.4990
HAMLET	HAMLET	1.4900	Confirmed LTF	1.4900
GIBSON	GIBSON	0.4040	Confirmed LTF	0.4040
BLUEG	BLUEG	1.2447	Confirmed LTF	1.2447
TRIMBLE	TRIMBLE	0.3951	Confirmed LTF	0.3951
CATAWBA	CATAWBA	0.7270	Confirmed LTF	0.7270

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
166983657	313844	3HATHAWAY	DVP	314554	3BTLEBRO	DVP	1	DVP_P7-1: LN 2058-2181	tower	301.0	94.83	109.27	DC	43.47

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315131	1EDGE CMA (Deactivation : 22/04/2019)	15.7928	50/50	15.7928
315132	1EDGE CMB (Deactivation : 22/04/2019)	15.7928	50/50	15.7928
315136	1ROSEMG1	1.3941	50/50	1.3941
315137	1ROSEMS1	0.8645	50/50	0.8645
315138	1ROSEMG2	0.6534	50/50	0.6534
315601	1CONETOE2SOL	1.4539	50/50	1.4539
316020	AB2-059 C OP	6.0925	50/50	6.0925
316097	AB2-100 E1	0.8181	Adder	0.96
316099	AB2-100 E2	0.8181	Adder	0.96
917512	Z2-088 E OP1	8.6240	50/50	8.6240
918532	AA1-067 E	0.2831	Adder	0.33
922922	AB1-081 C OP	5.1694	50/50	5.1694
922923	AB1-081 E OP	14.0424	50/50	14.0424
923262	AB1-132 C OP (Suspended)	6.6473	Adder	7.82
923263	AB1-132 E OP (Suspended)	2.8489	Adder	3.35
924152	AB2-059 E OP	19.8934	50/50	19.8934
925591	AC1-034 C	25.0130	50/50	25.0130
925592	AC1-034 E	18.8695	50/50	18.8695
926070	AC1-086 C	9.7890	Adder	11.52
926071	AC1-086 E	4.4553	Adder	5.24
926201	AC1-098 C	-4.2203	Adder	-4.97
926211	AC1-099 C	-1.4143	Adder	-1.66
927024	AC1-189 C	7.5497	50/50	7.5497
927025	AC1-189 E	3.7607	50/50	3.7607
927145	AC1-208 C	-7.1294	Adder	-8.39
934331	AD1-057 C O1	11.9750	50/50	11.9750
934332	AD1-057 E O1	6.3879	50/50	6.3879
940571	AE2-044 C	16.3828	50/50	16.3828
940572	AE2-044 E	7.0212	50/50	7.0212
944141	AF1-082	10.5318	50/50	10.5318
957861	AF2-080 C	6.8569	50/50	6.8569
957862	AF2-080 E	3.0397	50/50	3.0397
959511	AF2-242 C	2.4243	Adder	2.85
959512	AF2-242 E	1.8856	Adder	2.22
961671	AG1-007 C	1.5344	50/50	1.5344
961672	AG1-007 E	0.8569	50/50	0.8569
962571	AG1-106 C	1.4428	Adder	3.2

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962572	AG1-106 E	0.6543	Adder	1.45
965711	AG1-439 C O1	26.0805	50/50	26.0805
965712	AG1-439 E O1	17.3870	50/50	17.3870
965761	AG1-444 O1	13.9096	50/50	13.9096
966801	AG1-551 C	0.4314	Adder	0.96
966802	AG1-551 E	0.1849	Adder	0.41
G-007A	G-007A	0.3141	Confirmed LTF	0.3141
VFT	VFT	0.8321	Confirmed LTF	0.8321
CALDERWOOD	CALDERWOOD	0.4518	Confirmed LTF	0.4518
PRAIRIE	PRAIRIE	1.5860	Confirmed LTF	1.5860
CHEOAH	CHEOAH	0.4625	Confirmed LTF	0.4625
CBM-N	CBM-N	0.1512	Confirmed LTF	0.1512
COTTONWOOD	COTTONWOOD	1.6758	Confirmed LTF	1.6758
HAMLET	HAMLET	0.9523	Confirmed LTF	0.9523
GIBSON	GIBSON	0.2834	Confirmed LTF	0.2834
BLUEG	BLUEG	0.8767	Confirmed LTF	0.8767
TRIMBLE	TRIMBLE	0.2783	Confirmed LTF	0.2783
CATAWBA	CATAWBA	0.4812	Confirmed LTF	0.4812

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
161837641	242520	05J.FERR	AEP	242514	05J.FERR	AEP	1	AEP_P7-1_#10781-A	tower	1845.0	104.85	107.04	DC	40.38

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
244165	05FRIES	-0.4531	Adder	-0.53
313506	AB1-173 C OP	4.2719	Adder	5.03
313719	3CHESTNUT	1.1050	50/50	1.1050
313853	3PONTONDP	0.3458	Adder	0.41
314539	3UNCAMP	3.1351	Adder	3.69
314541	3WATKINS	0.3706	Adder	0.44
314572	3EMPORIA	0.2564	Adder	0.3
314594	6PLYMOTH	0.0540	Adder	0.06
314623	3WITAKRS	0.2152	50/50	0.2152
315131	1EDGECEMA (Deactivation : 22/04/2019)	9.7927	50/50	9.7927
315132	1EDGECEMB (Deactivation : 22/04/2019)	9.7927	50/50	9.7927
315160	1KERR 3	0.9318	50/50	0.9318
315161	1KERR 4	0.9318	50/50	0.9318
315162	1KERR 5	0.9318	50/50	0.9318
315163	1KERR 6	0.9318	50/50	0.9318
315164	1KERR 7	0.9318	50/50	0.9318
315293	1DOMTR9	4.4179	Adder	5.2
315294	1DOMTR10	5.4141	Adder	6.37
315601	1CONETOE2SOL	1.3506	50/50	1.3506
316020	AB2-059 C OP	1.7546	50/50	1.7546
316088	AB2-174 E	3.9742	Adder	4.68
316097	AB2-100 E1	1.6195	Adder	1.91
316099	AB2-100 E2	1.6195	Adder	1.91
316103	AB2-015 C	4.5679	Adder	5.37
316104	AB2-015 E	3.7457	Adder	4.41
316118	AC1-105 C	3.6603	Adder	4.31
316129	AC1-054 C	5.1590	Adder	6.07
316140	AB2-099 C (Suspended)	0.3756	Adder	0.44
316141	AB2-099 E (Suspended)	0.1610	Adder	0.19
900672	V4-068 E	0.1821	Adder	0.21
916042	Z1-036 E (Suspended)	22.8302	Adder	26.86
917332	Z2-043 E	0.7285	Adder	0.86
917342	Z2-044 E	0.5847	50/50	0.5847
917512	Z2-088 E OP1	8.0114	50/50	8.0114
918492	AA1-063AE OP	2.5682	Adder	3.02
918512	AA1-065 E OP	2.5796	Adder	3.03
918532	AA1-067 E	0.6934	50/50	0.6934
919692	AA2-053 E OP	2.4960	Adder	2.94
919702	AA2-057 E OP	3.3062	50/50	3.3062
920042	AA2-088 E OP	6.1506	Adder	7.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
920591	AA2-165 C	0.1483	50/50	0.1483
920592	AA2-165 E	0.4544	50/50	0.4544
920692	AA2-178 E	2.3123	Adder	2.72
922922	AB1-081 C OP	1.4887	50/50	1.4887
922923	AB1-081 E OP	4.0440	50/50	4.0440
923262	AB1-132 C OP (Suspended)	9.3927	Adder	11.05
923263	AB1-132 E OP (Suspended)	4.0254	Adder	4.74
923573	AB1-173 E OP	0.6662	Adder	0.78
923991	AB2-040 C O1	4.6526	Adder	5.47
923992	AB2-040 E O1	3.8066	Adder	4.48
924022	AB2-043 E O1	1.7768	Adder	2.09
924152	AB2-059 E OP	5.7290	50/50	5.7290
924162	AB2-060 E OP	2.6734	Adder	3.15
924301	AB2-077 C O1 (Suspended)	1.2700	Adder	1.49
924302	AB2-077 E O1 (Suspended)	0.8467	Adder	1.0
924311	AB2-078 C O1 (Suspended)	1.2700	Adder	1.49
924312	AB2-078 E O1 (Suspended)	0.8467	Adder	1.0
924321	AB2-079 C O1 (Suspended)	1.2700	Adder	1.49
924322	AB2-079 E O1 (Suspended)	0.8467	Adder	1.0
925122	AB2-169 E	4.0606	Adder	4.78
925591	AC1-034 C	7.2034	50/50	7.2034
925592	AC1-034 E	5.4341	50/50	5.4341
925612	AC1-036 E	0.4896	Adder	0.58
925785	AC1-054 E	2.3766	Adder	2.8
926070	AC1-086 C	13.8318	Adder	16.27
926071	AC1-086 E	6.2953	Adder	7.41
926201	AC1-098 C	5.4268	50/50	5.4268
926202	AC1-098 E	3.2330	50/50	3.2330
926211	AC1-099 C	1.8186	50/50	1.8186
926212	AC1-099 E	1.0680	50/50	1.0680
926274	AC1-105 E	1.7983	Adder	2.12
927024	AC1-189 C	8.4959	50/50	8.4959
927025	AC1-189 E	4.2321	50/50	4.2321
927145	AC1-208 C	8.1250	50/50	8.1250
927146	AC1-208 E	3.5932	50/50	3.5932
927251	AC1-221 C	2.8387	50/50	2.8387
927252	AC1-221 E	2.8387	50/50	2.8387
927261	AC1-222 C	2.1472	Adder	2.53
927262	AC1-222 E	2.0440	Adder	2.4
932631	AC2-084 C	7.7361	50/50	7.7361
932632	AC2-084 E	3.8103	50/50	3.8103
932761	AC2-100 C	6.5328	50/50	6.5328
932762	AC2-100 E	3.1887	50/50	3.1887
933991	AD1-023 C	8.0179	Adder	9.43
933992	AD1-023 E	4.3649	Adder	5.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934311	AD1-055 C	1.4908	Adder	1.75
934312	AD1-055 E	0.3844	Adder	0.45
934331	AD1-057 C O1	9.3544	50/50	9.3544
934332	AD1-057 E O1	4.9900	50/50	4.9900
934341	AD1-058 C	7.1161	50/50	7.1161
934342	AD1-058 E	1.8082	50/50	1.8082
934521	AD1-076 C	32.6051	Adder	38.36
934522	AD1-076 E	16.6025	Adder	19.53
934615	AD1-087 C	4.4225	Adder	5.2
934616	AD1-087 E	1.8925	Adder	2.23
934625	AD1-088 C	6.2802	Adder	7.39
934626	AD1-088 E	1.6448	Adder	1.94
934991	AD1-131 C	2.3332	50/50	2.3332
934992	AD1-131 E	1.5554	50/50	1.5554
935171	AD1-152 C O1	4.8576	Adder	5.71
935172	AD1-152 E O1	3.2384	Adder	3.81
936161	AD2-022 C O1	12.9162	50/50	12.9162
936162	AD2-022 E O1	7.7497	50/50	7.7497
936171	AD2-023 C O1	7.5344	50/50	7.5344
936172	AD2-023 E O1	4.0901	50/50	4.0901
936265	AD2-033 C	7.5668	Adder	8.9
936266	AD2-033 E	5.0445	Adder	5.93
936361	AD2-046 C O1	6.4192	Adder	7.55
936362	AD2-046 E O1	2.9519	Adder	3.47
936401	AD2-051 C O1	5.6383	Adder	6.63
936402	AD2-051 E O1	2.4210	Adder	2.85
936485	AD2-063 C	9.1134	Adder	10.72
936486	AD2-063 E	6.0756	Adder	7.15
937481	AD2-202 C O1	1.2954	Adder	1.52
937482	AD2-202 E O1	0.7286	Adder	0.86
937493	AD2-205 BAT	0.4112	Merchant Transmission	0.4112
938222	AE1-035 E	0.7094	Adder	0.83
938494	AE1-068_C1	14.6867	Adder	17.28
938497	AE1-068_C2	14.6867	Adder	17.28
938498	AE1-068_E1	8.1188	Adder	9.55
938499	AE1-068_E2	8.1188	Adder	9.55
938504	AE1-069_C1	11.1929	Adder	13.17
938507	AE1-069_C2	12.0687	Adder	14.2
938508	AE1-069_E1	6.3673	Adder	7.49
938509	AE1-069_E2	6.8599	Adder	8.07
938771	AE1-103 C	1.8386	Adder	2.16
938772	AE1-103 E	2.5390	Adder	2.99
939181	AE1-148 C	6.2993	Adder	7.41
939182	AE1-148 E	4.1995	Adder	4.94
940471	AE2-031 C	15.2544	Adder	17.95
940472	AE2-031 E	10.1696	Adder	11.96
940481	AE2-033 C	7.6550	Adder	9.01
940482	AE2-033 E	5.1607	Adder	6.07
940491	AE2-034 C	4.0466	Adder	4.76
940492	AE2-034 E	1.7343	Adder	2.04
940571	AE2-044 C	4.7180	50/50	4.7180
940572	AE2-044 E	2.0220	50/50	2.0220

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940661	AE2-053 O1	2.3331	Adder	2.74
941031	AE2-094 C	18.1791	Adder	21.39
941032	AE2-094 E	8.1420	Adder	9.58
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.3807	Adder	0.45
941791	AE2-182 C	1.0203	Adder	1.2
941792	AE2-182 E	0.4750	Adder	0.56
942451	AE2-258	1.4824	Adder	1.74
942471	AE2-260 C O1	7.9764	Adder	9.38
942472	AE2-260 E O1	11.3135	Adder	13.31
942931	AE2-313 C	16.5617	Adder	19.48
942932	AE2-313 E	11.0411	Adder	12.99
943033	AE2-326 BAT	5.7498	Merchant Transmission	5.7498
943171	AE2-346 C	0.9015	Adder	1.06
943172	AE2-346 E	0.3864	Adder	0.45
943901	AF1-058 C	1.2761	Adder	1.5
943902	AF1-058 E	0.8507	Adder	1.0
943911	AF1-059	10.2592	Adder	12.07
944011	AF1-069 C	5.9398	Adder	6.99
944012	AF1-069 E	2.3075	Adder	2.71
944141	AF1-082	3.0330	50/50	3.0330
945711	AF1-236 C O1	44.3006	Adder	52.12
945712	AF1-236 E O1	27.3627	Adder	32.19
945811	AF1-246 C O1	4.1041	Adder	4.83
945812	AF1-246 E O1	5.6675	Adder	6.67
946011	AF1-266	6.4079	Adder	7.54
946281	AF1-292 C	0.9015	Adder	1.06
946282	AF1-292 E	0.6078	Adder	0.72
946301	AF1-294 C	2.2046	Adder	2.59
946302	AF1-294 E	1.4697	Adder	1.73
954211	J888	2.5375	PJM External (MISO)	2.5375
957481	AF2-042 C	29.3148	Adder	34.49
957482	AF2-042 E	19.5432	Adder	22.99
957521	AF2-046 C	10.3527	Adder	12.18
957522	AF2-046 E	5.2074	Adder	6.13
957531	AF2-047 C	9.6155	Adder	11.31
957532	AF2-047 E	4.8366	Adder	5.69
957861	AF2-080 C	7.7163	50/50	7.7163
957862	AF2-080 E	3.4206	50/50	3.4206
958211	AF2-115 C	1.2968	Adder	1.53
958212	AF2-115 E	0.8645	Adder	1.02
958801	AF2-171 C	7.7961	Adder	9.17
958802	AF2-171 E	5.1974	Adder	6.11
959311	AF2-222 C	9.3840	Adder	11.04
959312	AF2-222 E	6.2873	Adder	7.4
959511	AF2-242 C	6.4161	50/50	6.4161
959512	AF2-242 E	4.9903	50/50	4.9903
959751	AF2-266	5.0494	Adder	5.94
960061	AF2-297 C	5.1045	Adder	6.01
960062	AF2-297 E	3.4030	Adder	4.0
960081	AF2-299 C	1.5194	Adder	1.79
960082	AF2-299 E	1.0129	Adder	1.19

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961091	AF2-400 C	0.2467	Adder	0.29
961092	AF2-400 E	0.4047	Adder	0.48
961671	AG1-007 C	1.2583	50/50	1.2583
961672	AG1-007 E	0.7027	50/50	0.7027
961681	AG1-008 C	5.4979	Adder	12.2
961682	AG1-008 E	2.7490	Adder	6.1
961791	AG1-021 C	0.5498	Adder	1.22
961792	AG1-021 E	0.3666	Adder	0.81
961891	AG1-030 C	4.2674	Adder	9.47
961892	AG1-030 E	2.8449	Adder	6.31
961931	AG1-036 C	0.4535	Adder	1.01
961932	AG1-036 E	0.3023	Adder	0.67
961941	AG1-037 C	0.1706	Adder	0.38
961942	AG1-037 E	0.1138	Adder	0.25
962041	AG1-048 C	3.4365	Adder	7.63
962042	AG1-048 E	2.2910	Adder	5.09
962331	AG1-082 C	0.6826	Adder	1.52
962332	AG1-082 E	0.4550	Adder	1.01
962341	AG1-083 C	0.6826	Adder	1.52
962342	AG1-083 E	0.4550	Adder	1.01
962351	AG1-084 C	0.6053	Adder	1.34
962352	AG1-084 E	0.4036	Adder	0.9
962361	AG1-085 C	0.6053	Adder	1.34
962362	AG1-085 E	0.4036	Adder	0.9
962441	AG1-093 C O1	5.1733	Adder	11.48
962442	AG1-093 E O1	1.5745	Adder	3.5
962491	AG1-098 C O1	3.7386	Adder	8.3
962492	AG1-098 E O1	2.4924	Adder	5.53
962561	AG1-105 C O1	3.3669	Adder	7.47
962562	AG1-105 E O1	2.2446	Adder	4.98
962571	AG1-106 C	2.0387	Adder	4.53
962572	AG1-106 E	0.9245	Adder	2.05
963041	AG1-153 C	1.5203	Adder	3.37
963042	AG1-153 E	2.2805	Adder	5.06
963111	AG1-160 C	1.4800	Adder	3.29
963112	AG1-160 E	2.2200	Adder	4.93
963171	AG1-166 C	0.5498	Adder	1.22
963172	AG1-166 E	0.3666	Adder	0.81
963181	AG1-167 C	0.5498	Adder	1.22
963182	AG1-167 E	0.3666	Adder	0.81
963191	AG1-168 C	0.5498	Adder	1.22
963192	AG1-168 E	0.3666	Adder	0.81
963201	AG1-169 C	0.5498	Adder	1.22
963202	AG1-169 E	0.3666	Adder	0.81
963211	AG1-170 C	0.5498	Adder	1.22
963212	AG1-170 E	0.3666	Adder	0.81
963271	AG1-176 C O1	4.0931	Adder	9.09
963272	AG1-176 E O1	2.7287	Adder	6.06
963301	AG1-179 C	1.8330	Adder	4.07
963311	AG1-180	0.8931	Adder	1.98
963321	AG1-181 C O1	5.1721	Adder	11.48
963361	AG1-185 O1	2.5024	Adder	5.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963641	AG1-215 C	0.2566	Adder	0.57
963642	AG1-215 E	0.3849	Adder	0.85
964111	AG1-272 C	0.7769	Adder	1.72
964112	AG1-272 E	0.2308	Adder	0.51
964121	AG1-273 C	0.7769	Adder	1.72
964122	AG1-273 E	0.2308	Adder	0.51
964131	AG1-274 C	0.7769	Adder	1.72
964132	AG1-274 E	0.2308	Adder	0.51
964241	AG1-285 C O1	4.0697	Adder	9.03
964242	AG1-285 E O1	2.7131	Adder	6.02
964261	AG1-287 C	0.5073	Adder	1.13
964262	AG1-287 E	0.3382	Adder	0.75
964471	AG1-310 C	0.6295	Adder	1.4
964472	AG1-310 E	0.3101	Adder	0.69
964491	AG1-312 C O1	6.3459	Adder	14.09
964492	AG1-312 E O1	1.5865	Adder	3.52
964501	AG1-313 C O1	1.6150	Adder	3.58
964502	AG1-313 E O1	1.0767	Adder	2.39
964791	AG1-342 C	1.4136	Adder	3.14
964792	AG1-342 E	1.1107	Adder	2.47
964801	AG1-343 C	1.8681	Adder	4.15
964802	AG1-343 E	1.4678	Adder	3.26
964821	AG1-345 C	0.2202	Adder	0.49
964822	AG1-345 E	0.1468	Adder	0.33
964841	AG1-347 C	2.5521	Adder	5.67
964842	AG1-347 E	2.0052	Adder	4.45
964931	AG1-357 C	6.0628	Adder	13.46
964932	AG1-357 E	4.0419	Adder	8.97
965191	AG1-384 C	0.7769	Adder	1.72
965192	AG1-384 E	0.2308	Adder	0.51
965281	AG1-393 C	0.5498	Adder	1.22
965282	AG1-393 E	0.3666	Adder	0.81
965291	AG1-394 C	0.6376	Adder	1.42
965292	AG1-394 E	0.4251	Adder	0.94
965451	AG1-413 C O1	2.2857	Adder	5.07
965452	AG1-413 E O1	1.5238	Adder	3.38
965591	AG1-427 C	3.8510	Adder	8.55
965592	AG1-427 E	2.5728	Adder	5.71
965601	AG1-428 C O1	1.5302	Adder	3.4
965602	AG1-428 E O1	1.0183	Adder	2.26
965631	AG1-431	13.5933	Adder	30.17
965691	AG1-437 C O1	3.3198	Adder	7.37
965692	AG1-437 E O1	2.2132	Adder	4.91
965701	AG1-438 C O1	3.3198	Adder	7.37
965702	AG1-438 E O1	2.2132	Adder	4.91
965711	AG1-439 C O1	24.2280	50/50	24.2280
965712	AG1-439 E O1	16.1520	50/50	16.1520
965721	AG1-440 C	2.8193	Adder	6.26
965722	AG1-440 E	1.8795	Adder	4.17
965731	AG1-441 C	2.8193	Adder	6.26
965732	AG1-441 E	1.8795	Adder	4.17
965741	AG1-442 O1	1.9366	Adder	4.3

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965751	AG1-443 O1	1.9366	Adder	4.3
965761	AG1-444 O1	12.9216	50/50	12.9216
965771	AG1-445	1.6289	Adder	3.62
965781	AG1-446	1.6289	Adder	3.62
965811	AG1-449	5.6687	Adder	12.58
966361	AG1-505 C	4.4198	Adder	9.81
966362	AG1-505 E	2.9465	Adder	6.54
966371	AG1-506 C	4.4198	Adder	9.81
966372	AG1-506 E	2.9465	Adder	6.54
966621	AG1-532 C	0.4349	Adder	0.97
966622	AG1-532 E	0.2899	Adder	0.64
966751	AG1-546 C	5.9735	Adder	13.26
966752	AG1-546 E	3.2052	Adder	7.11
966801	AG1-551 C	2.0721	50/50	2.0721
966802	AG1-551 E	0.8881	50/50	0.8881
966811	AG1-552 C	0.7440	Adder	1.65
966812	AG1-552 E	0.3189	Adder	0.71
966931	AG1-431A	10.2128	Adder	22.67
CPL	CPL	15.4982	Confirmed LTF	15.4982
G-007A	G-007A	1.2994	Confirmed LTF	1.2994
VFT	VFT	3.4120	Confirmed LTF	3.4120
CBM-W2	CBM-W2	41.0816	Confirmed LTF	41.0816
TVA	TVA	10.1388	Confirmed LTF	10.1388
CBM-S2	CBM-S2	274.8121	Confirmed LTF	274.8121
CBM-S1	CBM-S1	2.1854	Confirmed LTF	2.1854
CBM-N	CBM-N	0.6012	Confirmed LTF	0.6012
MEC	MEC	2.2071	Confirmed LTF	2.2071
GIBSON	GIBSON	0.2255	Confirmed LTF	0.2255
BLUEG	BLUEG	1.9634	Confirmed LTF	1.9634
TRIMBLE	TRIMBLE	0.7001	Confirmed LTF	0.7001
LAGN	LAGN	13.3753	Confirmed LTF	13.3753
AA2-074	AA2-074	10.2038	LTF	10.2038

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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
168239768	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	131.69	134.65	DC	11.96

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

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

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

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

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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
168525345	313713	6SWAMP	DVP	314648	6SUNBURY	DVP	1	DVP_P1-2: LN 2020	single	984.18	102.9	104.18	DC	12.61

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	0.4266	80/20	0.4266
314582	3KELFORD	0.1925	80/20	0.1925
314589	3MURPHYS	0.0291	80/20	0.0291
314623	3WITAKRS	0.0778	80/20	0.0778
315126	1ROARAP2	0.4164	80/20	0.4164
315128	1ROARAP4	0.3974	80/20	0.3974
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.4174	80/20	3.4174
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.4174	80/20	3.4174
315136	1ROSEMG1	0.7135	80/20	0.7135
315137	1ROSEMS1	0.4424	80/20	0.4424
315138	1ROSEMG2	0.3344	80/20	0.3344
315139	1GASTONA	1.0269	80/20	1.0269
315141	1GASTONB	1.0269	80/20	1.0269
315292	1DOMTR78	2.2301	80/20	2.2301
315293	1DOMTR9	11.5346	80/20	11.5346
315294	1DOMTR10	14.1355	80/20	14.1355
315601	1CONETOE2SOL	0.7028	80/20	0.7028
315602	1HOLLOMANSOL	1.0116	80/20	1.0116
315605	6W1-029WIND	4.4399	80/20	4.4399
315606	3AA2-053SOLA	0.5280	80/20	0.5280
315611	6Z1-036WIND	3.7399	80/20	3.7399
315614	AA2-178 C	3.8465	80/20	3.8465
316020	AB2-059 C OP	0.5947	80/20	0.5947
316140	AB2-099 C (Suspended)	0.3143	80/20	0.3143
920591	AA2-165 C	0.0573	80/20	0.0573
922922	AB1-081 C OP	0.5046	80/20	0.5046
925121	AB2-169 C	1.3763	80/20	1.3763
925591	AC1-034 C	2.4415	80/20	2.4415
926070	AC1-086 C	7.3193	80/20	7.3193
926201	AC1-098 C	2.6606	80/20	2.6606
926211	AC1-099 C	0.8916	80/20	0.8916
927024	AC1-189 C	4.9315	80/20	4.9315
927145	AC1-208 C	3.4265	80/20	3.4265
932631	AC2-084 C	3.7927	80/20	3.7927
933991	AD1-023 C	21.5509	80/20	21.5509
934331	AD1-057 C O1	3.5916	80/20	3.5916
934521	AD1-076 C	106.8508	80/20	106.8508
936401	AD2-051 C O1	6.1811	80/20	6.1811
938221	AE1-035 C	0.2529	80/20	0.2529
940491	AE2-034 C	18.2855	80/20	18.2855

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940571	AE2-044 C	1.5991	80/20	1.5991
941501	AE2-147 C	64.9431	80/20	64.9431
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1031	80/20	0.1031
943171	AE2-346 C	0.7543	80/20	0.7543
944141	AF1-082	1.0280	80/20	1.0280
944871	AF1-152 C	21.6477	80/20	21.6477
945711	AF1-236 C O1	200.1831	80/20	200.1831
957521	AF2-046 C	6.3114	80/20	6.3114
957531	AF2-047 C	43.4499	80/20	43.4499
957861	AF2-080 C	4.4790	80/20	4.4790
959511	AF2-242 C	8.2886	80/20	8.2886
961671	AG1-007 C	0.5973	80/20	0.5973
961681	AG1-008 C	6.3240	80/20	6.3240
961931	AG1-036 C	0.6265	80/20	0.6265
961941	AG1-037 C	0.2694	80/20	0.2694
962331	AG1-082 C	1.0776	80/20	1.0776
962341	AG1-083 C	1.0776	80/20	1.0776
962351	AG1-084 C	1.0558	80/20	1.0558
962361	AG1-085 C	1.0558	80/20	1.0558
962571	AG1-106 C	2.0354	80/20	2.0354
964491	AG1-312 C O1	15.7819	80/20	15.7819
964501	AG1-313 C O1	1.9549	80/20	1.9549
965631	AG1-431	115.8955	80/20	115.8955
965691	AG1-437 C O1	13.9836	80/20	13.9836
965701	AG1-438 C O1	13.9836	80/20	13.9836
965711	AG1-439 C O1	12.6075	80/20	12.6075
965741	AG1-442 O1	8.1571	80/20	8.1571
965751	AG1-443 O1	8.1571	80/20	8.1571
965761	AG1-444 O1	6.7240	80/20	6.7240
966801	AG1-551 C	2.0857	80/20	2.0857
966811	AG1-552 C	0.6611	80/20	0.6611
966931	AG1-431A	87.0740	80/20	87.0740
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2444	Confirmed LTF	0.2444
CPL	CPL	1.4599	Confirmed LTF	1.4599
CBM-W2	CBM-W2	5.2506	Confirmed LTF	5.2506
NY	NY	0.1371	Confirmed LTF	0.1371
TVA	TVA	0.9884	Confirmed LTF	0.9884
SIGE	SIGE	0.0743	Confirmed LTF	0.0743
CBM-S2	CBM-S2	15.6391	Confirmed LTF	15.6391
CBM-S1	CBM-S1	0.2462	Confirmed LTF	0.2462
MEC	MEC	0.7166	Confirmed LTF	0.7166
LAGN	LAGN	1.2338	Confirmed LTF	1.2338
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

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
168525226	313714	6PERQUIMANS	DVP	314662	6S HERTFORD	DVP	1	DVP_P1-2: LN 2034-C	single	733.2	174.94	176.61	DC	12.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	4.3243	80/20	4.3243
315293	1DOMTR9	22.3657	80/20	22.3657
315294	1DOMTR10	27.4090	80/20	27.4090
315601	1CONETOE2SOL	0.6823	80/20	0.6823
315611	6Z1-036WIND	5.1616	80/20	5.1616
315614	AA2-178 C	6.4997	80/20	6.4997
925121	AB2-169 C	2.4637	80/20	2.4637
927024	AC1-189 C	4.9326	80/20	4.9326
933991	AD1-023 C	52.4094	80/20	52.4094
934521	AD1-076 C	216.3154	80/20	216.3154
940491	AE2-034 C	30.8981	80/20	30.8981
945711	AF1-236 C O1	338.2611	80/20	338.2611
957531	AF2-047 C	73.4199	80/20	73.4199
957861	AF2-080 C	4.4799	80/20	4.4799
959511	AF2-242 C	13.5706	80/20	13.5706
961671	AG1-007 C	0.5635	80/20	0.5635
965631	AG1-431	195.8354	80/20	195.8354
965711	AG1-439 C O1	12.2400	80/20	12.2400
965761	AG1-444 O1	6.5280	80/20	6.5280
966801	AG1-551 C	2.9879	80/20	2.9879
966931	AG1-431A	147.1340	80/20	147.1340
WEC	WEC	0.1065	Confirmed LTF	0.1065
LGEE	LGEE	0.2174	Confirmed LTF	0.2174
CPL	CPL	1.3254	Confirmed LTF	1.3254
CBM-W2	CBM-W2	4.6861	Confirmed LTF	4.6861
NY	NY	0.1200	Confirmed LTF	0.1200
TVA	TVA	0.8820	Confirmed LTF	0.8820
SIGE	SIGE	0.0657	Confirmed LTF	0.0657
CBM-S2	CBM-S2	14.0731	Confirmed LTF	14.0731
CBM-S1	CBM-S1	0.2200	Confirmed LTF	0.2200
MEC	MEC	0.6388	Confirmed LTF	0.6388
LAGN	LAGN	1.1025	Confirmed LTF	1.1025
CBM-W1	CBM-W1	4.4724	Confirmed LTF	4.4724

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
163347405	313725	6DRY BREAD	DVP	314563	6CLUBHSE	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	202.56	212.71	DC	46.51

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	1.1200	50/50	1.1200
314541	3WATKINS	0.2783	Adder	0.33
314582	3KELFORD	0.3259	50/50	0.3259
314589	3MURPHYS	0.0637	50/50	0.0637
314594	6PLYMOTH	0.0477	Adder	0.06
314623	3WITAKRS	0.2110	50/50	0.2110
315126	1ROARAP2	1.2790	50/50	1.2790
315128	1ROARAP4	1.2205	50/50	1.2205
315131	1EDGECEMA (Deactivation : 22/04/2019)	13.4543	50/50	13.4543
315132	1EDGECEMB (Deactivation : 22/04/2019)	13.4543	50/50	13.4543
315136	1ROSEMG1	4.2810	50/50	4.2810
315137	1ROSEMS1	2.6547	50/50	2.6547
315138	1ROSEMG2	2.0064	50/50	2.0064
315139	1GASTONA	6.4396	50/50	6.4396
315141	1GASTONB	6.4396	50/50	6.4396
315293	1DOMTR9	3.9847	Adder	4.69
315294	1DOMTR10	4.8833	Adder	5.75
315601	1CONETOE2SOL	1.5555	50/50	1.5555
315602	1HOLLOMANSOL	1.2800	50/50	1.2800
315606	3AA2-053SOLA	1.3751	50/50	1.3751
315607	3AA1-063SOLA	1.1446	50/50	1.1446
316020	AB2-059 C OP	1.7408	50/50	1.7408
316096	AB2-100 C1	3.3890	50/50	3.3890
316097	AB2-100 E1	10.5801	50/50	10.5801
316098	AB2-100 C2	3.3890	50/50	3.3890
316099	AB2-100 E2	10.5801	50/50	10.5801
316103	AB2-015 C	3.2495	Adder	3.82
316104	AB2-015 E	2.6646	Adder	3.13
316129	AC1-054 C	3.7171	Adder	4.37
316140	AB2-099 C (Suspended)	0.5015	50/50	0.5015
316141	AB2-099 E (Suspended)	0.2149	50/50	0.2149
900672	V4-068 E	0.2211	50/50	0.2211
917332	Z2-043 E	0.9722	50/50	0.9722
917342	Z2-044 E	0.5730	50/50	0.5730
917512	Z2-088 E OP1	9.2266	50/50	9.2266
918492	AA1-063AE OP	3.4207	50/50	3.4207
918512	AA1-065 E OP	3.6326	50/50	3.6326
918532	AA1-067 E	0.6273	50/50	0.6273
919692	AA2-053 E OP	3.5786	50/50	3.5786

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
919702	AA2-057 E OP	3.3511	50/50	3.3511
920042	AA2-088 E OP	5.7712	Adder	6.79
920591	AA2-165 C	0.1504	50/50	0.1504
920592	AA2-165 E	0.4606	50/50	0.4606
920692	AA2-178 E	1.8040	Adder	2.12
922922	AB1-081 C OP	1.4770	50/50	1.4770
922923	AB1-081 E OP	4.0123	50/50	4.0123
923262	AB1-132 C OP (Suspended)	31.1690	50/50	31.1690
923263	AB1-132 E OP (Suspended)	13.3582	50/50	13.3582
924152	AB2-059 E OP	5.6841	50/50	5.6841
925121	AB2-169 C	0.7584	50/50	0.7584
925122	AB2-169 E	4.3138	50/50	4.3138
925591	AC1-034 C	7.1469	50/50	7.1469
925592	AC1-034 E	5.3916	50/50	5.3916
925785	AC1-054 E	1.7124	Adder	2.01
926070	AC1-086 C	45.9001	50/50	45.9001
926071	AC1-086 E	20.8907	50/50	20.8907
926201	AC1-098 C	5.8825	50/50	5.8825
926202	AC1-098 E	3.5045	50/50	3.5045
926211	AC1-099 C	1.9713	50/50	1.9713
926212	AC1-099 E	1.1577	50/50	1.1577
927024	AC1-189 C	9.1234	50/50	9.1234
927025	AC1-189 E	4.5446	50/50	4.5446
927145	AC1-208 C	8.7875	50/50	8.7875
927146	AC1-208 E	3.8862	50/50	3.8862
932631	AC2-084 C	8.3857	50/50	8.3857
932632	AC2-084 E	4.1303	50/50	4.1303
933991	AD1-023 C	9.2587	50/50	9.2587
933992	AD1-023 E	5.0405	50/50	5.0405
934331	AD1-057 C O1	18.0112	50/50	18.0112
934332	AD1-057 E O1	9.6079	50/50	9.6079
934521	AD1-076 C	29.3748	Adder	34.56
934522	AD1-076 E	14.9576	Adder	17.6
936401	AD2-051 C O1	8.2336	50/50	8.2336
936402	AD2-051 E O1	3.5354	50/50	3.5354
938221	AE1-035 C	0.3200	50/50	0.3200
938222	AE1-035 E	0.9990	50/50	0.9990
940491	AE2-034 C	3.1570	Adder	3.71
940492	AE2-034 E	1.3530	Adder	1.59
940542	AE2-040 BAT	2.8696	50/50	2.8696
940571	AE2-044 C	4.6810	50/50	4.6810
940572	AE2-044 E	2.0062	50/50	2.0062
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1531	50/50	0.1531
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5226	50/50	0.5226
943171	AE2-346 C	1.2036	50/50	1.2036
943172	AE2-346 E	0.5158	50/50	0.5158
944141	AF1-082	3.0092	50/50	3.0092
945711	AF1-236 C O1	34.5611	Adder	40.66
945712	AF1-236 E O1	21.3470	Adder	25.11

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946012	AF1-266 BAT	15.1801	50/50	15.1801
957521	AF2-046 C	12.8113	50/50	12.8113
957522	AF2-046 E	6.4442	50/50	6.4442
957531	AF2-047 C	7.5015	Adder	8.83
957532	AF2-047 E	3.7733	Adder	4.44
957861	AF2-080 C	8.2862	50/50	8.2862
957862	AF2-080 E	3.6733	50/50	3.6733
959511	AF2-242 C	5.7978	50/50	5.7978
959512	AF2-242 E	4.5094	50/50	4.5094
961091	AF2-400 C	0.1755	Adder	0.21
961092	AF2-400 E	0.2879	Adder	0.34
961671	AG1-007 C	1.5237	50/50	1.5237
961672	AG1-007 E	0.8509	50/50	0.8509
961681	AG1-008 C	12.8370	50/50	12.8370
961682	AG1-008 E	6.4185	50/50	6.4185
961931	AG1-036 C	1.1039	50/50	1.1039
961932	AG1-036 E	0.7360	50/50	0.7360
961941	AG1-037 C	0.4298	50/50	0.4298
961942	AG1-037 E	0.2866	50/50	0.2866
962331	AG1-082 C	1.7194	50/50	1.7194
962332	AG1-082 E	1.1462	50/50	1.1462
962341	AG1-083 C	1.7194	50/50	1.7194
962342	AG1-083 E	1.1462	50/50	1.1462
962351	AG1-084 C	1.5679	50/50	1.5679
962352	AG1-084 E	1.0452	50/50	1.0452
962361	AG1-085 C	1.5679	50/50	1.5679
962362	AG1-085 E	1.0452	50/50	1.0452
962571	AG1-106 C	12.7645	50/50	12.7645
962572	AG1-106 E	5.7885	50/50	5.7885
963312	AG1-180 BAT	1.5599	Merchant Transmission	1.5599
964491	AG1-312 C O1	16.4662	50/50	16.4662
964492	AG1-312 E O1	4.1166	50/50	4.1166
964501	AG1-313 C O1	4.3233	50/50	4.3233
964502	AG1-313 E O1	2.8822	50/50	2.8822
964801	AG1-343 C	4.0533	50/50	4.0533
964802	AG1-343 E	3.1848	50/50	3.1848
965291	AG1-394 C	0.6159	Adder	1.37
965292	AG1-394 E	0.4106	Adder	0.91
965631	AG1-431	10.6048	Adder	23.54
965691	AG1-437 C O1	7.6920	50/50	7.6920
965692	AG1-437 E O1	5.1280	50/50	5.1280
965701	AG1-438 C O1	7.6920	50/50	7.6920
965702	AG1-438 E O1	5.1280	50/50	5.1280
965711	AG1-439 C O1	27.9030	50/50	27.9030
965712	AG1-439 E O1	18.6020	50/50	18.6020
965741	AG1-442 O1	4.4870	50/50	4.4870
965751	AG1-443 O1	4.4870	50/50	4.4870
965761	AG1-444 O1	14.8816	50/50	14.8816
966751	AG1-546 C	4.6133	Adder	10.24
966752	AG1-546 E	2.4753	Adder	5.49
966801	AG1-551 C	1.8735	50/50	1.8735
966802	AG1-551 E	0.8029	50/50	0.8029

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966811	AG1-552 C	2.0307	50/50	2.0307
966812	AG1-552 E	0.8703	50/50	0.8703
966931	AG1-431A	7.9675	Adder	17.69
WEC	WEC	0.1386	Confirmed LTF	0.1386
LGEE	LGEE	0.2840	Confirmed LTF	0.2840
CPL	CPL	1.9410	Confirmed LTF	1.9410
CBM-W2	CBM-W2	6.4512	Confirmed LTF	6.4512
NY	NY	0.2278	Confirmed LTF	0.2278
TVA	TVA	1.2362	Confirmed LTF	1.2362
O-066	O-066	3.1631	Confirmed LTF	3.1631
SIGE	SIGE	0.1008	Confirmed LTF	0.1008
CBM-S2	CBM-S2	20.5459	Confirmed LTF	20.5459
CBM-S1	CBM-S1	0.3059	Confirmed LTF	0.3059
G-007	G-007	0.4967	Confirmed LTF	0.4967
MEC	MEC	0.8533	Confirmed LTF	0.8533
LAGN	LAGN	1.5435	Confirmed LTF	1.5435
CBM-W1	CBM-W1	5.7622	Confirmed LTF	5.7622

11.6.9 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
163838168	313845	6HATHAWAY	DVP	304222	6ROCKYMT230T	CPL	1	DVP_P1-2: LN 2181	single	478.0	122.6	131.5	DC	42.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.9769	80/20	4.9769
313719	3CHESTNUT	1.3428	80/20	1.3428
314435	6SAPONY	0.1633	80/20	0.1633
314572	3EMPORIA	0.2896	80/20	0.2896
314582	3KELFORD	0.2906	80/20	0.2906
314589	3MURPHYS	0.0557	80/20	0.0557
314623	3WITAKRS	0.2693	80/20	0.2693
314704	3LAWRENC	0.1555	80/20	0.1555
315115	1S HAMPT1	0.7175	80/20	0.7175
315126	1ROARAP2	1.0817	80/20	1.0817
315128	1ROARAP4	1.0323	80/20	1.0323
315131	1EDGECEMA (Deactivation : 22/04/2019)	25.4510	80/20	25.4510
315132	1EDGECEMB (Deactivation : 22/04/2019)	25.4510	80/20	25.4510
315136	1ROSEMG1	2.6866	80/20	2.6866
315137	1ROSEMS1	1.6660	80/20	1.6660
315138	1ROSEMG2	1.2591	80/20	1.2591
315139	1GASTONA	3.3238	80/20	3.3238
315141	1GASTONB	3.3238	80/20	3.3238
315292	1DOMTR78	0.7947	80/20	0.7947
315293	1DOMTR9	4.1102	80/20	4.1102
315294	1DOMTR10	5.0370	80/20	5.0370
315601	1CONETOE2SOL	2.3712	80/20	2.3712
315602	1HOLLOMANSOL	0.9675	80/20	0.9675
315605	6W1-029WIND	0.3244	80/20	0.3244
315606	3AA2-053SOLA	1.1540	80/20	1.1540
315607	3AA1-063SOLA	0.9931	80/20	0.9931
315608	3AA2-088SOLA	0.6088	80/20	0.6088
315611	6Z1-036WIND	0.3884	80/20	0.3884
315614	AA2-178 C	0.7254	80/20	0.7254
316020	AB2-059 C OP	2.7008	80/20	2.7008
316087	AB2-174 C	0.7985	80/20	0.7985
316096	AB2-100 C1	0.6775	80/20	0.6775
316098	AB2-100 C2	0.6775	80/20	0.6775
316103	AB2-015 C	4.0585	80/20	4.0585
316129	AC1-054 C	3.7242	80/20	3.7242
316140	AB2-099 C (Suspended)	0.4120	80/20	0.4120
920591	AA2-165 C	0.1803	80/20	0.1803
922922	AB1-081 C OP	2.2916	80/20	2.2916
923991	AB2-040 C O1	5.4204	80/20	5.4204
925121	AB2-169 C	0.6730	80/20	0.6730

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925591	AC1-034 C	11.0881	80/20	11.0881
926070	AC1-086 C	23.6910	80/20	23.6910
926201	AC1-098 C	6.0769	80/20	6.0769
926211	AC1-099 C	2.0364	80/20	2.0364
927024	AC1-189 C	12.4064	80/20	12.4064
927145	AC1-208 C	9.3283	80/20	9.3283
932631	AC2-084 C	8.6628	80/20	8.6628
933991	AD1-023 C	7.6814	80/20	7.6814
934331	AD1-057 C O1	20.4104	80/20	20.4104
934521	AD1-076 C	29.9373	80/20	29.9373
936401	AD2-051 C O1	6.1020	80/20	6.1020
938221	AE1-035 C	0.2419	80/20	0.2419
938771	AE1-103 C	1.4969	80/20	1.4969
940481	AE2-033 C	7.2695	80/20	7.2695
940491	AE2-034 C	3.4486	80/20	3.4486
940541	AE2-040	1.1775	80/20	1.1775
940571	AE2-044 C	7.2624	80/20	7.2624
941501	AE2-147 C	4.7457	80/20	4.7457
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1236	80/20	0.1236
942471	AE2-260 C O1	9.9463	80/20	9.9463
943171	AE2-346 C	0.9888	80/20	0.9888
943911	AF1-059	6.8508	80/20	6.8508
944141	AF1-082	4.6687	80/20	4.6687
944871	AF1-152 C	1.5819	80/20	1.5819
945711	AF1-236 C O1	37.7542	80/20	37.7542
946011	AF1-266	6.0852	80/20	6.0852
946281	AF1-292 C	1.0047	80/20	1.0047
957521	AF2-046 C	11.0658	80/20	11.0658
957531	AF2-047 C	8.1946	80/20	8.1946
957861	AF2-080 C	11.2680	80/20	11.2680
959511	AF2-242 C	5.1822	80/20	5.1822
960081	AF2-299 C	1.6934	80/20	1.6934
961091	AF2-400 C	0.2192	80/20	0.2192
961671	AG1-007 C	2.4920	80/20	2.4920
961681	AG1-008 C	11.0880	80/20	11.0880
961851	AG1-027 C	5.3990	80/20	5.3990
961931	AG1-036 C	0.9275	80/20	0.9275
961941	AG1-037 C	0.3532	80/20	0.3532
962331	AG1-082 C	1.4126	80/20	1.4126
962341	AG1-083 C	1.4126	80/20	1.4126
962351	AG1-084 C	1.2651	80/20	1.2651
962361	AG1-085 C	1.2651	80/20	1.2651
962571	AG1-106 C	6.5883	80/20	6.5883
963301	AG1-179 C	2.7897	80/20	2.7897
963311	AG1-180	1.3592	80/20	1.3592
964491	AG1-312 C O1	12.5787	80/20	12.5787
964501	AG1-313 C O1	3.5955	80/20	3.5955
964801	AG1-343 C	3.6792	80/20	3.6792
965291	AG1-394 C	1.2510	80/20	1.2510
965451	AG1-413 C O1	2.8798	80/20	2.8798
965601	AG1-428 C O1	2.3289	80/20	2.3289

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965631	AG1-431	21.8577	80/20	21.8577
965691	AG1-437 C O1	6.1932	80/20	6.1932
965701	AG1-438 C O1	6.1932	80/20	6.1932
965711	AG1-439 C O1	42.5370	80/20	42.5370
965721	AG1-440 C	2.5713	80/20	2.5713
965731	AG1-441 C	2.5713	80/20	2.5713
965741	AG1-442 O1	3.6127	80/20	3.6127
965751	AG1-443 O1	3.6127	80/20	3.6127
965761	AG1-444 O1	22.6864	80/20	22.6864
965771	AG1-445	1.4856	80/20	1.4856
965781	AG1-446	1.4856	80/20	1.4856
966621	AG1-532 C	0.9144	80/20	0.9144
966751	AG1-546 C	8.7116	80/20	8.7116
966801	AG1-551 C	1.6845	80/20	1.6845
966811	AG1-552 C	1.7175	80/20	1.7175
966931	AG1-431A	16.4220	80/20	16.4220
G-007A	G-007A	0.8583	Confirmed LTF	0.8583
VFT	VFT	2.2898	Confirmed LTF	2.2898
CALDERWOOD	CALDERWOOD	1.0815	Confirmed LTF	1.0815
PRAIRIE	PRAIRIE	3.7557	Confirmed LTF	3.7557
CHEOAH	CHEOAH	1.1081	Confirmed LTF	1.1081
CBM-N	CBM-N	0.4152	Confirmed LTF	0.4152
COTTONWOOD	COTTONWOOD	4.0047	Confirmed LTF	4.0047
HAMLET	HAMLET	2.3123	Confirmed LTF	2.3123
GIBSON	GIBSON	0.6656	Confirmed LTF	0.6656
BLUEG	BLUEG	2.0572	Confirmed LTF	2.0572
TRIMBLE	TRIMBLE	0.6533	Confirmed LTF	0.6533
CATAWBA	CATAWBA	1.1602	Confirmed LTF	1.1602

11.6.10 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
168525351	313851	6ECITYDP2	DVP	314638	6ELIZ CT	DVP	1	DVP_P1-2: LN 247	single	984.18	106.69	108.0	DC	12.82

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	0.4442	80/20	0.4442
314582	3KELFORD	0.2018	80/20	0.2018
314589	3MURPHYS	0.0335	80/20	0.0335
314623	3WITAKRS	0.0807	80/20	0.0807
314639	6TANGLEW	1.6093	80/20	1.6093
315126	1ROARAP2	0.4471	80/20	0.4471
315128	1ROARAP4	0.4267	80/20	0.4267
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.5090	80/20	3.5090
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.5090	80/20	3.5090
315136	1ROSEMG1	0.7457	80/20	0.7457
315137	1ROSEMS1	0.4624	80/20	0.4624
315138	1ROSEMG2	0.3495	80/20	0.3495
315139	1GASTONA	1.0755	80/20	1.0755
315141	1GASTONB	1.0755	80/20	1.0755
315292	1DOMTR78	2.1726	80/20	2.1726
315293	1DOMTR9	11.2371	80/20	11.2371
315294	1DOMTR10	13.7710	80/20	13.7710
315601	1CONETOE2SOL	0.7148	80/20	0.7148
315602	1HOLLOMANSOL	1.0495	80/20	1.0495
315605	6W1-029WIND	4.0408	80/20	4.0408
315606	3AA2-053SOLA	0.5629	80/20	0.5629
315607	3AA1-063SOLA	0.4255	80/20	0.4255
315611	6Z1-036WIND	3.5738	80/20	3.5738
315614	AA2-178 C	3.7035	80/20	3.7035
316020	AB2-059 C OP	0.6127	80/20	0.6127
316140	AB2-099 C (Suspended)	0.3345	80/20	0.3345
920591	AA2-165 C	0.0596	80/20	0.0596
922922	AB1-081 C OP	0.5199	80/20	0.5199
925121	AB2-169 C	1.3494	80/20	1.3494
925591	AC1-034 C	2.5154	80/20	2.5154
926070	AC1-086 C	7.6657	80/20	7.6657
926201	AC1-098 C	2.7884	80/20	2.7884
926211	AC1-099 C	0.9344	80/20	0.9344
927024	AC1-189 C	5.0052	80/20	5.0052
927145	AC1-208 C	3.5988	80/20	3.5988
932631	AC2-084 C	3.9750	80/20	3.9750
933991	AD1-023 C	21.0800	80/20	21.0800
934331	AD1-057 C O1	3.7215	80/20	3.7215
934521	AD1-076 C	103.7112	80/20	103.7112
936401	AD2-051 C O1	6.4138	80/20	6.4138

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938221	AE1-035 C	0.2624	80/20	0.2624
940491	AE2-034 C	17.6056	80/20	17.6056
940571	AE2-044 C	1.6475	80/20	1.6475
941501	AE2-147 C	59.1048	80/20	59.1048
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1081	80/20	0.1081
943171	AE2-346 C	0.8029	80/20	0.8029
944141	AF1-082	1.0591	80/20	1.0591
944871	AF1-152 C	19.7016	80/20	19.7016
945711	AF1-236 C O1	192.7390	80/20	192.7390
957521	AF2-046 C	7.1177	80/20	7.1177
957531	AF2-047 C	41.8342	80/20	41.8342
957861	AF2-080 C	4.5459	80/20	4.5459
959511	AF2-242 C	8.1801	80/20	8.1801
961671	AG1-007 C	0.6086	80/20	0.6086
961681	AG1-008 C	7.1320	80/20	7.1320
961931	AG1-036 C	0.6821	80/20	0.6821
961941	AG1-037 C	0.2867	80/20	0.2867
962331	AG1-082 C	1.1470	80/20	1.1470
962341	AG1-083 C	1.1470	80/20	1.1470
962351	AG1-084 C	1.1067	80/20	1.1067
962361	AG1-085 C	1.1067	80/20	1.1067
962571	AG1-106 C	2.1318	80/20	2.1318
964491	AG1-312 C O1	16.1235	80/20	16.1235
964501	AG1-313 C O1	2.0722	80/20	2.0722
964801	AG1-343 C	1.7811	80/20	1.7811
965631	AG1-431	111.5857	80/20	111.5857
965691	AG1-437 C O1	13.7976	80/20	13.7976
965701	AG1-438 C O1	13.7976	80/20	13.7976
965711	AG1-439 C O1	12.8220	80/20	12.8220
965741	AG1-442 O1	8.0486	80/20	8.0486
965751	AG1-443 O1	8.0486	80/20	8.0486
965761	AG1-444 O1	6.8384	80/20	6.8384
966801	AG1-551 C	2.0763	80/20	2.0763
966811	AG1-552 C	0.7099	80/20	0.7099
966931	AG1-431A	83.8360	80/20	83.8360
WEC	WEC	0.1244	Confirmed LTF	0.1244
LGEE	LGEE	0.2538	Confirmed LTF	0.2538
CPL	CPL	1.4913	Confirmed LTF	1.4913
CBM-W2	CBM-W2	5.4118	Confirmed LTF	5.4118
NY	NY	0.1355	Confirmed LTF	0.1355
TVA	TVA	1.0164	Confirmed LTF	1.0164
SIGE	SIGE	0.0757	Confirmed LTF	0.0757
CBM-S2	CBM-S2	16.0045	Confirmed LTF	16.0045
CBM-S1	CBM-S1	0.2538	Confirmed LTF	0.2538
MEC	MEC	0.7421	Confirmed LTF	0.7421
LAGN	LAGN	1.2687	Confirmed LTF	1.2687
CBM-W1	CBM-W1	5.2295	Confirmed LTF	5.2295

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
168525251	313885	6WALBMRL	DVP	313714	6PERQUIMANS	DVP	1	DVP_P1-2: LN 2034-C	single	733.2	169.93	171.6	DC	12.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	4.3260	80/20	4.3260
315293	1DOMTR9	22.3743	80/20	22.3743
315294	1DOMTR10	27.4195	80/20	27.4195
315601	1CONETOE2SOL	0.6841	80/20	0.6841
315614	AA2-178 C	6.5016	80/20	6.5016
925121	AB2-169 C	2.4650	80/20	2.4650
927024	AC1-189 C	4.9438	80/20	4.9438
933991	AD1-023 C	52.4257	80/20	52.4257
934521	AD1-076 C	216.3827	80/20	216.3827
940491	AE2-034 C	30.9070	80/20	30.9070
945711	AF1-236 C O1	338.3576	80/20	338.3576
957531	AF2-047 C	73.4408	80/20	73.4408
957861	AF2-080 C	4.4901	80/20	4.4901
959511	AF2-242 C	13.5797	80/20	13.5797
961671	AG1-007 C	0.5650	80/20	0.5650
965631	AG1-431	195.8913	80/20	195.8913
965711	AG1-439 C O1	12.2715	80/20	12.2715
965761	AG1-444 O1	6.5448	80/20	6.5448
966801	AG1-551 C	2.9908	80/20	2.9908
966931	AG1-431A	147.1760	80/20	147.1760
WEC	WEC	0.1128	Confirmed LTF	0.1128
LGEE	LGEE	0.2300	Confirmed LTF	0.2300
CPL	CPL	1.3391	Confirmed LTF	1.3391
CBM-W2	CBM-W2	4.8653	Confirmed LTF	4.8653
NY	NY	0.1089	Confirmed LTF	0.1089
TVA	TVA	0.9100	Confirmed LTF	0.9100
SIGE	SIGE	0.0657	Confirmed LTF	0.0657
CBM-S2	CBM-S2	14.2819	Confirmed LTF	14.2819
CBM-S1	CBM-S1	0.2276	Confirmed LTF	0.2276
MEC	MEC	0.6706	Confirmed LTF	0.6706
LAGN	LAGN	1.1375	Confirmed LTF	1.1375
CBM-W1	CBM-W1	4.7528	Confirmed LTF	4.7528

11.6.12 Index 12

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168830386	314203	6MACKEYS	DVP	314637	6EDENTON	DVP	1	DVP_P1-2: LN 2034-C	single	731.32	170.34	172.02	DC	12.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	4.3260	80/20	4.3260
315293	1DOMTR9	22.3743	80/20	22.3743
315294	1DOMTR10	27.4195	80/20	27.4195
315601	1CONETOE2SOL	0.6841	80/20	0.6841
315614	AA2-178 C	6.5016	80/20	6.5016
925121	AB2-169 C	2.4650	80/20	2.4650
927024	AC1-189 C	4.9438	80/20	4.9438
933991	AD1-023 C	52.4257	80/20	52.4257
934521	AD1-076 C	216.3827	80/20	216.3827
940491	AE2-034 C	30.9070	80/20	30.9070
945711	AF1-236 C O1	338.3576	80/20	338.3576
957531	AF2-047 C	73.4408	80/20	73.4408
957861	AF2-080 C	4.4901	80/20	4.4901
959511	AF2-242 C	13.5797	80/20	13.5797
961671	AG1-007 C	0.5650	80/20	0.5650
965631	AG1-431	195.8913	80/20	195.8913
965711	AG1-439 C O1	12.2715	80/20	12.2715
965761	AG1-444 O1	6.5448	80/20	6.5448
966801	AG1-551 C	2.9908	80/20	2.9908
966931	AG1-431A	147.1760	80/20	147.1760
WEC	WEC	0.1128	Confirmed LTF	0.1128
LGEE	LGEE	0.2300	Confirmed LTF	0.2300
CPL	CPL	1.3391	Confirmed LTF	1.3391
CBM-W2	CBM-W2	4.8653	Confirmed LTF	4.8653
NY	NY	0.1089	Confirmed LTF	0.1089
TVA	TVA	0.9100	Confirmed LTF	0.9100
SIGE	SIGE	0.0657	Confirmed LTF	0.0657
CBM-S2	CBM-S2	14.2819	Confirmed LTF	14.2819
CBM-S1	CBM-S1	0.2276	Confirmed LTF	0.2276
MEC	MEC	0.6706	Confirmed LTF	0.6706
LAGN	LAGN	1.1375	Confirmed LTF	1.1375
CBM-W1	CBM-W1	4.7528	Confirmed LTF	4.7528

11.6.13 Index 13

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168830457	314282	6CARSON	DVP	314285	6CHRL249	DVP	1	DVP_P1-2: LN 563	single	559.3	166.81	168.59	DC	10.21

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

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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
168830715	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P1-2: LN 249	single	678.68	114.5	115.43	DC	9.06

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.8496	80/20	4.8496
313527	AB2-043 C	0.1848	80/20	0.1848
313719	3CHESTNUT	0.4963	80/20	0.4963
314435	6SAPONY	0.5314	80/20	0.5314
314572	3EMPORIA	0.3423	80/20	0.3423
314582	3KELFORD	0.1318	80/20	0.1318
314623	3WITAKRS	0.0909	80/20	0.0909
314704	3LAWRENC	0.2076	80/20	0.2076
315102	1BRUNSWICKG1	2.4306	80/20	2.4306
315103	1BRUNSWICKG2	2.4306	80/20	2.4306
315104	1BRUNSWICKG3	2.4306	80/20	2.4306
315105	1BRUNSWICKS1	5.0497	80/20	5.0497
315126	1ROARAP2	0.7139	80/20	0.7139
315128	1ROARAP4	0.6813	80/20	0.6813
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.9109	80/20	3.9109
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.9109	80/20	3.9109
315136	1ROSEMG1	1.2983	80/20	1.2983
315137	1ROSEMS1	0.8051	80/20	0.8051
315138	1ROSEMG2	0.6085	80/20	0.6085
315139	1GASTONA	1.9606	80/20	1.9606
315141	1GASTONB	1.9606	80/20	1.9606
315158	1KERR 1	0.1527	80/20	0.1527
315159	1KERR 2	0.4275	80/20	0.4275
315160	1KERR 3	0.4275	80/20	0.4275
315161	1KERR 4	0.4275	80/20	0.4275
315162	1KERR 5	0.4275	80/20	0.4275
315163	1KERR 6	0.4275	80/20	0.4275
315164	1KERR 7	0.4275	80/20	0.4275
315241	1Z1-086 GT1	3.1185	80/20	3.1185
315242	1Z1-086 GT2	3.1185	80/20	3.1185
315243	1Z1-086 GT3	3.1185	80/20	3.1185
315244	1Z1-086 ST	5.4211	80/20	5.4211
315601	1CONETOE2SOL	0.5048	80/20	0.5048
315606	3AA2-053SOLA	0.7264	80/20	0.7264
315607	3AA1-063SOLA	0.5804	80/20	0.5804
316020	AB2-059 C OP	0.6965	80/20	0.6965
316087	AB2-174 C	0.8363	80/20	0.8363
316096	AB2-100 C1	0.9230	80/20	0.9230
316098	AB2-100 C2	0.9230	80/20	0.9230
316129	AC1-054 C	3.3722	80/20	3.3722

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	0.5253	80/20	0.5253
316132	AB2-190 C	-8.1101	Adder	-9.54
316140	AB2-099 C (Suspended)	0.1918	80/20	0.1918
920591	AA2-165 C	0.0666	80/20	0.0666
922922	AB1-081 C OP	0.5910	80/20	0.5910
923991	AB2-040 C O1	5.2818	80/20	5.2818
924301	AB2-077 C O1 (Suspended)	0.7397	80/20	0.7397
924311	AB2-078 C O1 (Suspended)	0.7397	80/20	0.7397
924321	AB2-079 C O1 (Suspended)	0.7397	80/20	0.7397
925591	AC1-034 C	2.8595	80/20	2.8595
926070	AC1-086 C	13.9744	80/20	13.9744
926201	AC1-098 C	2.6158	80/20	2.6158
926211	AC1-099 C	0.8766	80/20	0.8766
927024	AC1-189 C	3.0993	80/20	3.0993
927145	AC1-208 C	4.1428	80/20	4.1428
932581	AC2-078 C O1	-4.8865	Adder	-5.75
932631	AC2-084 C	3.7290	80/20	3.7290
934331	AD1-057 C O1	5.3662	80/20	5.3662
936265	AD2-033 C	4.1722	80/20	4.1722
936361	AD2-046 C O1	3.5116	80/20	3.5116
936401	AD2-051 C O1	2.8134	80/20	2.8134
936485	AD2-063 C	5.2128	80/20	5.2128
936761	AD2-097 C	-0.8307	Adder	-0.98
938494	AE1-068_C1	9.3235	80/20	9.3235
938497	AE1-068_C2	9.3235	80/20	9.3235
938504	AE1-069_C1	7.1056	80/20	7.1056
938507	AE1-069_C2	7.6615	80/20	7.6615
939181	AE1-148 C	3.4555	80/20	3.4555
940471	AE2-031 C	10.1251	80/20	10.1251
940481	AE2-033 C	20.9114	80/20	20.9114
940541	AE2-040	3.8317	80/20	3.8317
940571	AE2-044 C	1.8729	80/20	1.8729
940661	AE2-053 O1	1.2798	80/20	1.2798
941031	AE2-094 C	12.1730	80/20	12.1730
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0582	80/20	0.0582
942151	AE2-227 C	-0.7632	Adder	-0.9
942161	AE2-228 C	-1.7813	Adder	-2.1
942451	AE2-258	0.8736	80/20	0.8736
942471	AE2-260 C O1	15.0795	80/20	15.0795
942931	AE2-313 C	10.9479	80/20	10.9479
943171	AE2-346 C	0.4602	80/20	0.4602
943911	AF1-059	9.7722	80/20	9.7722
944011	AF1-069 C	3.9774	80/20	3.9774
944141	AF1-082	1.2040	80/20	1.2040
946011	AF1-266	17.5045	80/20	17.5045
946261	AF1-291 C	-2.1026	Adder	-2.47
946281	AF1-292 C	1.2784	80/20	1.2784
957861	AF2-080 C	2.8149	80/20	2.8149
959641	AF2-255 C	-0.1908	Adder	-0.22

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959651	AF2-256 C	-0.4453	Adder	-0.52
960081	AF2-299 C	2.1546	80/20	2.1546
961671	AG1-007 C	0.4789	80/20	0.4789
961941	AG1-037 C	0.1644	80/20	0.1644
962331	AG1-082 C	0.6575	80/20	0.6575
962341	AG1-083 C	0.6575	80/20	0.6575
962351	AG1-084 C	0.5962	80/20	0.5962
962361	AG1-085 C	0.5962	80/20	0.5962
962571	AG1-106 C	3.8862	80/20	3.8862
963041	AG1-153 C	1.7055	80/20	1.7055
963111	AG1-160 C	1.7238	80/20	1.7238
963301	AG1-179 C	3.7948	80/20	3.7948
963311	AG1-180	1.8489	80/20	1.8489
963321	AG1-181 C O1	5.3588	80/20	5.3588
964241	AG1-285 C O1	4.4325	80/20	4.4325
964501	AG1-313 C O1	2.1332	80/20	2.1332
965451	AG1-413 C O1	4.1079	80/20	4.1079
965591	AG1-427 C	4.1878	80/20	4.1878
965601	AG1-428 C O1	3.1680	80/20	3.1680
965711	AG1-439 C O1	9.0555	80/20	9.0555
965721	AG1-440 C	3.0884	80/20	3.0884
965731	AG1-441 C	3.0884	80/20	3.0884
965761	AG1-444 O1	4.8296	80/20	4.8296
965771	AG1-445	1.7844	80/20	1.7844
965781	AG1-446	1.7844	80/20	1.7844
965811	AG1-449	7.0992	80/20	7.0992
966361	AG1-505 C	4.9869	80/20	4.9869
966371	AG1-506 C	4.9869	80/20	4.9869
966621	AG1-532 C	1.1635	80/20	1.1635
966751	AG1-546 C	7.5441	80/20	7.5441
966811	AG1-552 C	1.1335	80/20	1.1335
WEC	WEC	0.2580	Confirmed LTF	0.2580
LGEE	LGEE	0.5278	Confirmed LTF	0.5278
CPL	CPL	2.6679	Confirmed LTF	2.6679
CBM-W2	CBM-W2	11.1642	Confirmed LTF	11.1642
NY	NY	0.2881	Confirmed LTF	0.2881
TVA	TVA	2.0958	Confirmed LTF	2.0958
SIGE	SIGE	0.1584	Confirmed LTF	0.1584
CBM-S2	CBM-S2	31.4453	Confirmed LTF	31.4453
CBM-S1	CBM-S1	0.5236	Confirmed LTF	0.5236
MEC	MEC	1.5350	Confirmed LTF	1.5350
LAGN	LAGN	2.6093	Confirmed LTF	2.6093
AA2-074	AA2-074	1.7622	LTF	1.7622
CBM-W1	CBM-W1	10.8375	Confirmed LTF	10.8375

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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
168830467	314285	6CHRL249	DVP	314316	6LOCKS	DVP	1	DVP_P1-2: LN 563	single	559.3	163.0	164.78	DC	10.21

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

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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
168830490	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P1-2: LN 563	single	441.8	143.3	145.08	DC	8.14

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

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966371	AG1-506 C	5.0148	80/20	5.0148
966621	AG1-532 C	0.7530	80/20	0.7530
966731	AG1-544 C	7.6936	80/20	7.6936
966741	AG1-545 C	2.5440	80/20	2.5440
966751	AG1-546 C	6.0232	80/20	6.0232
966801	AG1-551 C	0.3278	Adder	0.73
966811	AG1-552 C	0.8986	80/20	0.8986
WEC	WEC	0.2255	Confirmed LTF	0.2255
LGEE	LGEE	0.4643	Confirmed LTF	0.4643
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

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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
168830610	314301	6HARR205	DVP	314346	6TYLER	DVP	1	DVP_P1-2: LN 563	single	441.8	139.69	140.98	DC	8.2

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

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

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

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

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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
168830537	314316	6LOCKS	DVP	314301	6HARR205	DVP	1	DVP_P1-2: LN 563	single	441.8	144.85	146.14	DC	8.2

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	1EDGECSMA (Deactivation : 22/04/2019)	3.3333	80/20	3.3333
315132	1EDGECSMB (Deactivation : 22/04/2019)	3.3333	80/20	3.3333
315136	1ROSEMG1	0.9751	80/20	0.9751
315137	1ROSEMS1	0.6047	80/20	0.6047
315138	1ROSEMG2	0.4570	80/20	0.4570
315139	1GASTONA	1.4561	80/20	1.4561
315141	1GASTONB	1.4561	80/20	1.4561
315158	1KERR 1	0.1272	80/20	0.1272
315159	1KERR 2	0.3562	80/20	0.3562
315160	1KERR 3	0.3562	80/20	0.3562
315161	1KERR 4	0.3562	80/20	0.3562
315162	1KERR 5	0.3562	80/20	0.3562
315163	1KERR 6	0.3562	80/20	0.3562
315164	1KERR 7	0.3562	80/20	0.3562
315241	1Z1-086 GT1	3.2949	80/20	3.2949
315242	1Z1-086 GT2	3.2949	80/20	3.2949
315243	1Z1-086 GT3	3.2949	80/20	3.2949
315244	1Z1-086 ST	5.7278	80/20	5.7278
315601	1CONETOE2SOL	0.4569	80/20	0.4569
315602	1HOLLOMANSOL	0.4561	80/20	0.4561
315606	3AA2-053SOLA	0.6027	80/20	0.6027
315607	3AA1-063SOLA	0.5356	80/20	0.5356
315608	3AA2-088SOLA	0.3403	80/20	0.3403
316020	AB2-059 C OP	0.5962	80/20	0.5962
316083	AB2-161 C	1.0556	80/20	1.0556

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

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

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

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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
168830486	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P1-2: LN 563	single	441.8	143.32	145.1	DC	8.14

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

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966371	AG1-506 C	5.0148	80/20	5.0148
966621	AG1-532 C	0.7530	80/20	0.7530
966731	AG1-544 C	7.6936	80/20	7.6936
966741	AG1-545 C	2.5440	80/20	2.5440
966751	AG1-546 C	6.0232	80/20	6.0232
966801	AG1-551 C	0.3278	Adder	0.73
966811	AG1-552 C	0.8986	80/20	0.8986
WEC	WEC	0.2255	Confirmed LTF	0.2255
LGEE	LGEE	0.4643	Confirmed LTF	0.4643
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

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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
163347476	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P7-1: LN 54-2012-A	tower	830.0	157.91	159.66	DC	32.04

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163838792	314554	3BTLEBRO	DVP	304223	3ROCKYMT115T	CPL	1	DVP_P7-1: LN 2058-2181	tower	164.0	304.01	325.77	DC	35.57

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.1181	Adder	3.67
313719	3CHESTNUT	2.4261	50/50	2.4261
314541	3WATKINS	0.2172	Adder	0.26
314572	3EMPORIA	0.1704	Adder	0.2
314582	3KELFORD	0.3112	50/50	0.3112
314623	3WITAKRS	0.5240	50/50	0.5240
315126	1ROARAP2	0.8712	50/50	0.8712
315128	1ROARAP4	0.8314	50/50	0.8314
315131	1EDGE CMA (Deactivation : 22/04/2019)	12.5808	50/50	12.5808
315132	1EDGE CMB (Deactivation : 22/04/2019)	12.5808	50/50	12.5808
315136	1ROSEMG1	1.5086	50/50	1.5086
315137	1ROSEMS1	0.9355	50/50	0.9355
315138	1ROSEMG2	0.7070	50/50	0.7070
315139	1GASTONA	1.9383	50/50	1.9383
315141	1GASTONB	1.9383	50/50	1.9383
315293	1DOMTR9	2.0513	Adder	2.41
315294	1DOMTR10	2.5139	Adder	2.96
315601	1CONETOE2SOL	1.1895	50/50	1.1895
315606	3AA2-053SOLA	0.9246	50/50	0.9246
316020	AB2-059 C OP	4.4268	50/50	4.4268
316088	AB2-174 E	2.8075	Adder	3.3
316097	AB2-100 E1	1.0834	Adder	1.27
316099	AB2-100 E2	1.0834	Adder	1.27
316103	AB2-015 C	2.5912	Adder	3.05
316104	AB2-015 E	2.1248	Adder	2.5
316129	AC1-054 C	2.5555	Adder	3.01
316140	AB2-099 C (Suspended)	0.2729	Adder	0.32
316141	AB2-099 E (Suspended)	0.1170	Adder	0.14
900672	V4-068 E	0.1280	Adder	0.15
917332	Z2-043 E	0.9284	50/50	0.9284
917342	Z2-044 E	1.4235	50/50	1.4235
917512	Z2-088 E OP1	7.0561	50/50	7.0561
918492	AA1-063AE OP	2.0088	Adder	2.36
918512	AA1-065 E OP	1.4796	Adder	1.74
918532	AA1-067 E	0.2544	Adder	0.3
919692	AA2-053 E OP	2.4062	50/50	2.4062
919702	AA2-057 E OP	7.2586	50/50	7.2586
920042	AA2-088 E OP	4.1496	Adder	4.88
920591	AA2-165 C	0.3257	50/50	0.3257

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
920592	AA2-165 E	0.9976	50/50	0.9976
922922	AB1-081 C OP	3.7561	50/50	3.7561
922923	AB1-081 E OP	10.2031	50/50	10.2031
923262	AB1-132 C OP (Suspended)	9.3820	50/50	9.3820
923263	AB1-132 E OP (Suspended)	4.0208	50/50	4.0208
923573	AB1-173 E OP	0.4862	Adder	0.57
923991	AB2-040 C O1	3.3959	Adder	4.0
923992	AB2-040 E O1	2.7785	Adder	3.27
924152	AB2-059 E OP	14.4544	50/50	14.4544
925122	AB2-169 E	1.8344	Adder	2.16
925591	AC1-034 C	18.1743	50/50	18.1743
925592	AC1-034 E	13.7104	50/50	13.7104
925785	AC1-054 E	1.1772	Adder	1.38
926070	AC1-086 C	13.8161	50/50	13.8161
926071	AC1-086 E	6.2881	50/50	6.2881
926201	AC1-098 C	8.8191	50/50	8.8191
926202	AC1-098 E	5.2539	50/50	5.2539
926211	AC1-099 C	2.9553	50/50	2.9553
926212	AC1-099 E	1.7357	50/50	1.7357
927024	AC1-189 C	6.2804	50/50	6.2804
927025	AC1-189 E	3.1284	50/50	3.1284
927145	AC1-208 C	14.0422	50/50	14.0422
927146	AC1-208 E	6.2100	50/50	6.2100
932631	AC2-084 C	12.5719	50/50	12.5719
932632	AC2-084 E	6.1921	50/50	6.1921
933991	AD1-023 C	4.0327	Adder	4.74
933992	AD1-023 E	2.1954	Adder	2.58
934331	AD1-057 C O1	10.5448	50/50	10.5448
934332	AD1-057 E O1	5.6251	50/50	5.6251
936401	AD2-051 C O1	3.2781	Adder	3.86
936402	AD2-051 E O1	1.4076	Adder	1.66
938222	AE1-035 E	0.4069	Adder	0.48
940571	AE2-044 C	11.9036	50/50	11.9036
940572	AE2-044 E	5.1016	50/50	5.1016
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2794	Adder	0.33
942471	AE2-260 C O1	5.1280	Adder	6.03
942472	AE2-260 E O1	7.2735	Adder	8.56
943171	AE2-346 C	0.6550	Adder	0.77
943172	AE2-346 E	0.2807	Adder	0.33
944141	AF1-082	7.6523	50/50	7.6523
946281	AF1-292 C	0.5743	Adder	0.68
946282	AF1-292 E	0.3872	Adder	0.46
957521	AF2-046 C	7.3234	Adder	8.62
957522	AF2-046 E	3.6837	Adder	4.33
957861	AF2-080 C	5.7041	50/50	5.7041
957862	AF2-080 E	2.5286	50/50	2.5286
959511	AF2-242 C	2.4228	Adder	2.85
959512	AF2-242 E	1.8844	Adder	2.22
960081	AF2-299 C	0.9680	Adder	1.14
960082	AF2-299 E	0.6453	Adder	0.76

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961091	AF2-400 C	0.1399	Adder	0.16
961092	AF2-400 E	0.2296	Adder	0.27
961671	AG1-007 C	1.2437	50/50	1.2437
961672	AG1-007 E	0.6945	50/50	0.6945
961681	AG1-008 C	3.8892	Adder	8.63
961682	AG1-008 E	1.9446	Adder	4.32
961931	AG1-036 C	0.3255	Adder	0.72
961932	AG1-036 E	0.2170	Adder	0.48
961941	AG1-037 C	0.1240	Adder	0.28
961942	AG1-037 E	0.0826	Adder	0.18
962331	AG1-082 C	0.4959	Adder	1.1
962332	AG1-082 E	0.3306	Adder	0.73
962341	AG1-083 C	0.4959	Adder	1.1
962342	AG1-083 E	0.3306	Adder	0.73
962351	AG1-084 C	0.4442	Adder	0.99
962352	AG1-084 E	0.2961	Adder	0.66
962361	AG1-085 C	0.4442	Adder	0.99
962362	AG1-085 E	0.2961	Adder	0.66
962571	AG1-106 C	3.8421	50/50	3.8421
962572	AG1-106 E	1.7424	50/50	1.7424
964491	AG1-312 C O1	3.5814	Adder	7.95
964492	AG1-312 E O1	0.8953	Adder	1.99
964501	AG1-313 C O1	2.8627	50/50	2.8627
964502	AG1-313 E O1	1.9084	50/50	1.9084
964801	AG1-343 C	1.2896	Adder	2.86
964802	AG1-343 E	1.0133	Adder	2.25
965291	AG1-394 C	0.4384	Adder	0.97
965292	AG1-394 E	0.2923	Adder	0.65
965691	AG1-437 C O1	1.7375	Adder	3.86
965692	AG1-437 E O1	1.1583	Adder	2.57
965701	AG1-438 C O1	1.7375	Adder	3.86
965702	AG1-438 E O1	1.1583	Adder	2.57
965711	AG1-439 C O1	21.3390	50/50	21.3390
965712	AG1-439 E O1	14.2260	50/50	14.2260
965741	AG1-442 O1	1.0135	Adder	2.25
965751	AG1-443 O1	1.0135	Adder	2.25
965761	AG1-444 O1	11.3808	50/50	11.3808
966621	AG1-532 C	0.2770	Adder	0.61
966622	AG1-532 E	0.1847	Adder	0.41
966751	AG1-546 C	3.1668	Adder	7.03
966752	AG1-546 E	1.6992	Adder	3.77
966801	AG1-551 C	0.4089	Adder	0.91
966802	AG1-551 E	0.1753	Adder	0.39
966811	AG1-552 C	1.3832	50/50	1.3832
966812	AG1-552 E	0.5928	50/50	0.5928
G-007A	G-007A	0.4867	Confirmed LTF	0.4867
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	0.7087	Confirmed LTF	0.7087
PRAIRIE	PRAIRIE	2.4719	Confirmed LTF	2.4719
CHEOAH	CHEOAH	0.7262	Confirmed LTF	0.7262
CBM-N	CBM-N	0.2340	Confirmed LTF	0.2340
COTTONWOOD	COTTONWOOD	2.6313	Confirmed LTF	2.6313

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
HAMLET	HAMLET	1.5263	Confirmed LTF	1.5263
GIBSON	GIBSON	0.4390	Confirmed LTF	0.4390
BLUEG	BLUEG	1.3558	Confirmed LTF	1.3558
TRIMBLE	TRIMBLE	0.4307	Confirmed LTF	0.4307
CATAWBA	CATAWBA	0.7581	Confirmed LTF	0.7581

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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
163347480	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	151.76	157.38	DC	46.53

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169037637	314569	GEARLEYS	DVP	314575	6NUCO TP	DVP	1	DVP_P1-2: LN 2092	single	571.52	229.32	234.72	DC	30.85

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

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

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

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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
163838795	314574	6EVERETS	DVP	304451	6GREENVILLE	CPL	1	DVP_P7-1: LN 2058-2181	tower	478.0	213.76	227.34	DC	64.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.9855	Adder	3.51
314539	3UNCAMP	2.4187	Adder	2.85
314541	3WATKINS	0.2950	Adder	0.35
314572	3EMPORIA	0.1716	Adder	0.2
314582	3KELFORD	0.2963	50/50	0.2963
314589	3MURPHYS	0.0602	50/50	0.0602
314594	6PLYMOTH	0.0896	50/50	0.0896
314632	6AYDLETOLD	0.6586	Adder	0.77
315131	1EDGE CMA (Deactivation : 22/04/2019)	9.5990	50/50	9.5990
315132	1EDGE CMB (Deactivation : 22/04/2019)	9.5990	50/50	9.5990
315136	1ROSEMG1	1.5370	50/50	1.5370
315137	1ROSEMS1	0.9531	50/50	0.9531
315138	1ROSEMG2	0.7203	50/50	0.7203
315139	1GASTONA	2.1216	50/50	2.1216
315141	1GASTONB	2.1216	50/50	2.1216
315292	1DOMTR78	1.6763	50/50	1.6763
315293	1DOMTR9	8.6700	50/50	8.6700
315294	1DOMTR10	10.6250	50/50	10.6250
315601	1CONETOE2SOL	2.1704	50/50	2.1704
315602	1HOLLOMAN SOL	1.5332	50/50	1.5332
315606	3AA2-053SOLA	0.9398	50/50	0.9398
315611	6Z1-036WIND	0.6573	50/50	0.6573
315614	AA2-178 C	1.2997	50/50	1.2997
316088	AB2-174 E	2.7352	Adder	3.22
316097	AB2-100 E1	1.2133	Adder	1.43
316099	AB2-100 E2	1.2133	Adder	1.43
316103	AB2-015 C	3.5908	Adder	4.22
316104	AB2-015 E	2.9445	Adder	3.46
316140	AB2-099 C (Suspended)	0.5180	50/50	0.5180
316141	AB2-099 E (Suspended)	0.2220	50/50	0.2220
900672	V4-068 E	0.2092	50/50	0.2092
901082	W1-029 E	18.7397	Adder	22.05
913392	Y1-086 E	0.7676	Adder	0.9
916042	Z1-036 E (Suspended)	27.9147	50/50	27.9147
917122	Z2-027 E	0.3981	Adder	0.47
917332	Z2-043 E	0.8838	50/50	0.8838
917342	Z2-044 E	0.2085	Adder	0.25
917512	Z2-088 E OP1	12.8742	50/50	12.8742
918492	AA1-063AE OP	2.0182	Adder	2.37

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

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

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

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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
169037655	314575	6NUCO TP	DVP	957820	AF2-076 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	220.64	226.04	DC	30.85

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

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

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

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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
163347430	314583	6LAKEVEW	DVP	313725	6DRY BREAD	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	186.75	196.92	DC	46.59

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169037744	314583	6LAKEVEW	DVP	314561	6CAROLNA	DVP	1	DVP_P1-2: LN 238-B	single	375.06	138.73	142.41	DC	13.82

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-5.6750	Adder	-6.68
314623	3WITAKRS	0.1132	80/20	0.1132
315131	1EDGECSMA (Deactivation : 22/04/2019)	10.2144	80/20	10.2144
315132	1EDGECSMB (Deactivation : 22/04/2019)	10.2144	80/20	10.2144
315136	1ROSEMG1	6.8305	80/20	6.8305
315137	1ROSEMS1	4.2356	80/20	4.2356
315138	1ROSEMG2	3.2012	80/20	3.2012
315139	1GASTONA	10.7423	80/20	10.7423
315141	1GASTONB	10.7423	80/20	10.7423
315601	1CONETOE2SOL	0.7705	80/20	0.7705
316020	AB2-059 C OP	1.4578	80/20	1.4578
316096	AB2-100 C1	3.2715	80/20	3.2715
316098	AB2-100 C2	3.2715	80/20	3.2715
316129	AC1-054 C	-4.7440	Adder	-5.58
922922	AB1-081 C OP	1.2369	80/20	1.2369
923991	AB2-040 C O1	-6.1807	Adder	-7.27
925591	AC1-034 C	5.9850	80/20	5.9850
926070	AC1-086 C	76.5691	80/20	76.5691
927024	AC1-189 C	3.4406	80/20	3.4406
934331	AD1-057 C O1	22.8011	80/20	22.8011
940571	AE2-044 C	3.9200	80/20	3.9200
942471	AE2-260 C O1	51.1896	80/20	51.1896
944141	AF1-082	2.5200	80/20	2.5200
957861	AF2-080 C	3.1249	80/20	3.1249
961091	AF2-400 C	-0.2040	Adder	-0.24
961671	AG1-007 C	0.8764	80/20	0.8764
962571	AG1-106 C	21.2933	80/20	21.2933
965711	AG1-439 C O1	13.8225	80/20	13.8225
965761	AG1-444 O1	7.3720	80/20	7.3720
WEC	WEC	0.1528	Confirmed LTF	0.1528
LGEE	LGEE	0.3110	Confirmed LTF	0.3110
CPL	CPL	1.8243	Confirmed LTF	1.8243
CBM-W2	CBM-W2	6.7558	Confirmed LTF	6.7558
NY	NY	0.1665	Confirmed LTF	0.1665
TVA	TVA	1.2754	Confirmed LTF	1.2754
SIGE	SIGE	0.0930	Confirmed LTF	0.0930
CBM-S2	CBM-S2	20.1910	Confirmed LTF	20.1910
CBM-S1	CBM-S1	0.3173	Confirmed LTF	0.3173
MEC	MEC	0.9184	Confirmed LTF	0.9184
LAGN	LAGN	1.5925	Confirmed LTF	1.5925

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W1	CBM-W1	6.4212	Confirmed LTF	6.4212

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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
163838156	314591	6NASH	DVP	304226	6PA-RMOUNT#4	CPLE	1	DVP_P1-2: LN 2058	single	478.0	122.97	132.29	DC	44.56

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965601	AG1-428 C O1	2.3208	80/20	2.3208
965631	AG1-431	22.2783	80/20	22.2783
965691	AG1-437 C O1	6.2958	80/20	6.2958
965701	AG1-438 C O1	6.2958	80/20	6.2958
965711	AG1-439 C O1	44.5620	80/20	44.5620
965721	AG1-440 C	2.4651	80/20	2.4651
965731	AG1-441 C	2.4651	80/20	2.4651
965741	AG1-442 O1	3.6725	80/20	3.6725
965751	AG1-443 O1	3.6725	80/20	3.6725
965761	AG1-444 O1	23.7664	80/20	23.7664
965771	AG1-445	1.4243	80/20	1.4243
965781	AG1-446	1.4243	80/20	1.4243
966621	AG1-532 C	0.9156	80/20	0.9156
966751	AG1-546 C	8.3914	80/20	8.3914
966801	AG1-551 C	1.7522	80/20	1.7522
966811	AG1-552 C	1.6593	80/20	1.6593
966931	AG1-431A	16.7380	80/20	16.7380
G-007A	G-007A	0.8895	Confirmed LTF	0.8895
VFT	VFT	2.3672	Confirmed LTF	2.3672
CALDERWOOD	CALDERWOOD	1.0899	Confirmed LTF	1.0899
PRAIRIE	PRAIRIE	3.7763	Confirmed LTF	3.7763
CHEOAH	CHEOAH	1.1166	Confirmed LTF	1.1166
CBM-N	CBM-N	0.4308	Confirmed LTF	0.4308
COTTONWOOD	COTTONWOOD	4.0320	Confirmed LTF	4.0320
HAMLET	HAMLET	2.3325	Confirmed LTF	2.3325
GIBSON	GIBSON	0.6688	Confirmed LTF	0.6688
BLUEG	BLUEG	2.0658	Confirmed LTF	2.0658
TRIMBLE	TRIMBLE	0.6561	Confirmed LTF	0.6561
CATAWBA	CATAWBA	1.1704	Confirmed LTF	1.1704

11.6.29 Index 29

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168525245	314637	6EDENTON	DVP	313885	6WALBMRL	DVP	1	DVP_P1-2: LN 2034-C	single	733.2	169.93	171.6	DC	12.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	4.3260	80/20	4.3260
315293	1DOMTR9	22.3743	80/20	22.3743
315294	1DOMTR10	27.4195	80/20	27.4195
315601	1CONETOE2SOL	0.6841	80/20	0.6841
315614	AA2-178 C	6.5016	80/20	6.5016
925121	AB2-169 C	2.4650	80/20	2.4650
927024	AC1-189 C	4.9438	80/20	4.9438
933991	AD1-023 C	52.4257	80/20	52.4257
934521	AD1-076 C	216.3827	80/20	216.3827
940491	AE2-034 C	30.9070	80/20	30.9070
945711	AF1-236 C O1	338.3576	80/20	338.3576
957531	AF2-047 C	73.4408	80/20	73.4408
957861	AF2-080 C	4.4901	80/20	4.4901
959511	AF2-242 C	13.5797	80/20	13.5797
961671	AG1-007 C	0.5650	80/20	0.5650
965631	AG1-431	195.8913	80/20	195.8913
965711	AG1-439 C O1	12.2715	80/20	12.2715
965761	AG1-444 O1	6.5448	80/20	6.5448
966801	AG1-551 C	2.9908	80/20	2.9908
966931	AG1-431A	147.1760	80/20	147.1760
WEC	WEC	0.1128	Confirmed LTF	0.1128
LGEE	LGEE	0.2300	Confirmed LTF	0.2300
CPL	CPL	1.3391	Confirmed LTF	1.3391
CBM-W2	CBM-W2	4.8653	Confirmed LTF	4.8653
NY	NY	0.1089	Confirmed LTF	0.1089
TVA	TVA	0.9100	Confirmed LTF	0.9100
SIGE	SIGE	0.0657	Confirmed LTF	0.0657
CBM-S2	CBM-S2	14.2819	Confirmed LTF	14.2819
CBM-S1	CBM-S1	0.2276	Confirmed LTF	0.2276
MEC	MEC	0.6706	Confirmed LTF	0.6706
LAGN	LAGN	1.1375	Confirmed LTF	1.1375
CBM-W1	CBM-W1	4.7528	Confirmed LTF	4.7528

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
169248615	314638	6ELIZ CT	DVP	314647	6SHAWBRO	DVP	1	DVP_P1-2: LN 247	single	571.52	175.58	177.82	DC	12.81

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	1.5724	80/20	1.5724
313719	3CHESTNUT	0.4435	80/20	0.4435
314582	3KELFORD	0.2015	80/20	0.2015
314589	3MURPHYS	0.0334	80/20	0.0334
314623	3WITAKRS	0.0805	80/20	0.0805
314638	6ELIZ CT	0.9192	80/20	0.9192
314639	6TANGLEW	1.6091	80/20	1.6091
315126	1ROARAP2	0.4462	80/20	0.4462
315128	1ROARAP4	0.4258	80/20	0.4258
315131	1EDGE CMA (Deactivation : 22/04/2019)	3.5026	80/20	3.5026
315132	1EDGE CMB (Deactivation : 22/04/2019)	3.5026	80/20	3.5026
315136	1ROSEMG1	0.7443	80/20	0.7443
315137	1ROSEMS1	0.4616	80/20	0.4616
315138	1ROSEMG2	0.3488	80/20	0.3488
315139	1GASTONA	1.0736	80/20	1.0736
315141	1GASTONB	1.0736	80/20	1.0736
315292	1DOMTR78	2.1719	80/20	2.1719
315293	1DOMTR9	11.2331	80/20	11.2331
315294	1DOMTR10	13.7660	80/20	13.7660
315601	1CONETOE2SOL	0.7139	80/20	0.7139
315602	1HOLLOMANSOL	1.0486	80/20	1.0486
315605	6W1-029WIND	4.0401	80/20	4.0401
315606	3AA2-053SOLA	0.5620	80/20	0.5620
315607	3AA1-063SOLA	0.4246	80/20	0.4246
315611	6Z1-036WIND	3.5731	80/20	3.5731
315614	AA2-178 C	3.7025	80/20	3.7025
316020	AB2-059 C OP	0.6115	80/20	0.6115
316140	AB2-099 C (Suspended)	0.3341	80/20	0.3341
920591	AA2-165 C	0.0595	80/20	0.0595
922922	AB1-081 C OP	0.5189	80/20	0.5189
925121	AB2-169 C	1.3487	80/20	1.3487
925591	AC1-034 C	2.5107	80/20	2.5107
926070	AC1-086 C	7.6521	80/20	7.6521
926201	AC1-098 C	2.7843	80/20	2.7843
926211	AC1-099 C	0.9330	80/20	0.9330
927024	AC1-189 C	4.9993	80/20	4.9993
927145	AC1-208 C	3.5927	80/20	3.5927
932631	AC2-084 C	3.9691	80/20	3.9691
933991	AD1-023 C	21.0715	80/20	21.0715
934331	AD1-057 C O1	3.7148	80/20	3.7148

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934521	AD1-076 C	103.6759	80/20	103.6759
936401	AD2-051 C O1	6.4080	80/20	6.4080
938221	AE1-035 C	0.2622	80/20	0.2622
940491	AE2-034 C	17.6009	80/20	17.6009
940571	AE2-044 C	1.6444	80/20	1.6444
941501	AE2-147 C	59.0949	80/20	59.0949
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1080	80/20	0.1080
943171	AE2-346 C	0.8019	80/20	0.8019
944141	AF1-082	1.0571	80/20	1.0571
944871	AF1-152 C	19.6983	80/20	19.6983
945711	AF1-236 C O1	192.6884	80/20	192.6884
957521	AF2-046 C	7.1068	80/20	7.1068
957531	AF2-047 C	41.8232	80/20	41.8232
957861	AF2-080 C	4.5406	80/20	4.5406
959511	AF2-242 C	8.1751	80/20	8.1751
961671	AG1-007 C	0.6078	80/20	0.6078
961681	AG1-008 C	7.1210	80/20	7.1210
961931	AG1-036 C	0.6812	80/20	0.6812
961941	AG1-037 C	0.2864	80/20	0.2864
962331	AG1-082 C	1.1456	80/20	1.1456
962341	AG1-083 C	1.1456	80/20	1.1456
962351	AG1-084 C	1.1055	80/20	1.1055
962361	AG1-085 C	1.1055	80/20	1.1055
962571	AG1-106 C	2.1280	80/20	2.1280
964491	AG1-312 C O1	16.1123	80/20	16.1123
964501	AG1-313 C O1	2.0692	80/20	2.0692
964801	AG1-343 C	1.7773	80/20	1.7773
965631	AG1-431	111.5564	80/20	111.5564
965691	AG1-437 C O1	13.7910	80/20	13.7910
965701	AG1-438 C O1	13.7910	80/20	13.7910
965711	AG1-439 C O1	12.8070	80/20	12.8070
965741	AG1-442 O1	8.0447	80/20	8.0447
965751	AG1-443 O1	8.0447	80/20	8.0447
965761	AG1-444 O1	6.8304	80/20	6.8304
966801	AG1-551 C	2.0748	80/20	2.0748
966811	AG1-552 C	0.7085	80/20	0.7085
966931	AG1-431A	83.8140	80/20	83.8140
WEC	WEC	0.1210	Confirmed LTF	0.1210
LGEE	LGEE	0.2469	Confirmed LTF	0.2469
CPL	CPL	1.4838	Confirmed LTF	1.4838
CBM-W2	CBM-W2	5.3133	Confirmed LTF	5.3133
NY	NY	0.1416	Confirmed LTF	0.1416
TVA	TVA	1.0010	Confirmed LTF	1.0010
SIGE	SIGE	0.0757	Confirmed LTF	0.0757
CBM-S2	CBM-S2	15.8897	Confirmed LTF	15.8897
CBM-S1	CBM-S1	0.2497	Confirmed LTF	0.2497
MEC	MEC	0.7246	Confirmed LTF	0.7246
LAGN	LAGN	1.2495	Confirmed LTF	1.2495
CBM-W1	CBM-W1	5.0752	Confirmed LTF	5.0752

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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
169248733	314639	6TANGLEW	DVP	313851	6ECITYDP2	DVP	1	DVP_P1-2: LN 247	single	984.18	106.71	108.02	DC	12.82

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	0.4442	80/20	0.4442
314582	3KELFORD	0.2018	80/20	0.2018
314589	3MURPHYS	0.0335	80/20	0.0335
314623	3WITAKRS	0.0807	80/20	0.0807
314639	6TANGLEW	1.6093	80/20	1.6093
315126	1ROARAP2	0.4471	80/20	0.4471
315128	1ROARAP4	0.4267	80/20	0.4267
315131	1EDGE CMA (Deactivation : 22/04/2019)	3.5090	80/20	3.5090
315132	1EDGE CMB (Deactivation : 22/04/2019)	3.5090	80/20	3.5090
315136	1ROSEMG1	0.7457	80/20	0.7457
315137	1ROSEMS1	0.4624	80/20	0.4624
315138	1ROSEMG2	0.3495	80/20	0.3495
315139	1GASTONA	1.0755	80/20	1.0755
315141	1GASTONB	1.0755	80/20	1.0755
315292	1DOMTR78	2.1726	80/20	2.1726
315293	1DOMTR9	11.2371	80/20	11.2371
315294	1DOMTR10	13.7710	80/20	13.7710
315601	1CONETOE2SOL	0.7148	80/20	0.7148
315602	1HOLLOMANSOL	1.0495	80/20	1.0495
315605	6W1-029WIND	4.0408	80/20	4.0408
315606	3AA2-053SOLA	0.5629	80/20	0.5629
315607	3AA1-063SOLA	0.4255	80/20	0.4255
315611	6Z1-036WIND	3.5738	80/20	3.5738
315614	AA2-178 C	3.7035	80/20	3.7035
316020	AB2-059 C OP	0.6127	80/20	0.6127
316140	AB2-099 C (Suspended)	0.3345	80/20	0.3345
920591	AA2-165 C	0.0596	80/20	0.0596
922922	AB1-081 C OP	0.5199	80/20	0.5199
925121	AB2-169 C	1.3494	80/20	1.3494
925591	AC1-034 C	2.5154	80/20	2.5154
926070	AC1-086 C	7.6657	80/20	7.6657
926201	AC1-098 C	2.7884	80/20	2.7884
926211	AC1-099 C	0.9344	80/20	0.9344
927024	AC1-189 C	5.0052	80/20	5.0052
927145	AC1-208 C	3.5988	80/20	3.5988
932631	AC2-084 C	3.9750	80/20	3.9750
933991	AD1-023 C	21.0800	80/20	21.0800
934331	AD1-057 C O1	3.7215	80/20	3.7215
934521	AD1-076 C	103.7112	80/20	103.7112
936401	AD2-051 C O1	6.4138	80/20	6.4138

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938221	AE1-035 C	0.2624	80/20	0.2624
940491	AE2-034 C	17.6056	80/20	17.6056
940571	AE2-044 C	1.6475	80/20	1.6475
941501	AE2-147 C	59.1048	80/20	59.1048
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1081	80/20	0.1081
943171	AE2-346 C	0.8029	80/20	0.8029
944141	AF1-082	1.0591	80/20	1.0591
944871	AF1-152 C	19.7016	80/20	19.7016
945711	AF1-236 C O1	192.7390	80/20	192.7390
957521	AF2-046 C	7.1177	80/20	7.1177
957531	AF2-047 C	41.8342	80/20	41.8342
957861	AF2-080 C	4.5459	80/20	4.5459
959511	AF2-242 C	8.1801	80/20	8.1801
961671	AG1-007 C	0.6086	80/20	0.6086
961681	AG1-008 C	7.1320	80/20	7.1320
961931	AG1-036 C	0.6821	80/20	0.6821
961941	AG1-037 C	0.2867	80/20	0.2867
962331	AG1-082 C	1.1470	80/20	1.1470
962341	AG1-083 C	1.1470	80/20	1.1470
962351	AG1-084 C	1.1067	80/20	1.1067
962361	AG1-085 C	1.1067	80/20	1.1067
962571	AG1-106 C	2.1318	80/20	2.1318
964491	AG1-312 C O1	16.1235	80/20	16.1235
964501	AG1-313 C O1	2.0722	80/20	2.0722
964801	AG1-343 C	1.7811	80/20	1.7811
965631	AG1-431	111.5857	80/20	111.5857
965691	AG1-437 C O1	13.7976	80/20	13.7976
965701	AG1-438 C O1	13.7976	80/20	13.7976
965711	AG1-439 C O1	12.8220	80/20	12.8220
965741	AG1-442 O1	8.0486	80/20	8.0486
965751	AG1-443 O1	8.0486	80/20	8.0486
965761	AG1-444 O1	6.8384	80/20	6.8384
966801	AG1-551 C	2.0763	80/20	2.0763
966811	AG1-552 C	0.7099	80/20	0.7099
966931	AG1-431A	83.8360	80/20	83.8360
WEC	WEC	0.1244	Confirmed LTF	0.1244
LGEE	LGEE	0.2538	Confirmed LTF	0.2538
CPL	CPL	1.4913	Confirmed LTF	1.4913
CBM-W2	CBM-W2	5.4118	Confirmed LTF	5.4118
NY	NY	0.1355	Confirmed LTF	0.1355
TVA	TVA	1.0164	Confirmed LTF	1.0164
SIGE	SIGE	0.0757	Confirmed LTF	0.0757
CBM-S2	CBM-S2	16.0045	Confirmed LTF	16.0045
CBM-S1	CBM-S1	0.2538	Confirmed LTF	0.2538
MEC	MEC	0.7421	Confirmed LTF	0.7421
LAGN	LAGN	1.2687	Confirmed LTF	1.2687
CBM-W1	CBM-W1	5.2295	Confirmed LTF	5.2295

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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
169248737	314648	6SUNBURY	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2020	single	984.18	101.98	103.26	DC	12.61

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	0.4266	80/20	0.4266
314582	3KELFORD	0.1925	80/20	0.1925
314589	3MURPHYS	0.0291	80/20	0.0291
314623	3WITAKRS	0.0778	80/20	0.0778
315126	1ROARAP2	0.4164	80/20	0.4164
315128	1ROARAP4	0.3974	80/20	0.3974
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.4174	80/20	3.4174
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.4174	80/20	3.4174
315136	1ROSEMG1	0.7135	80/20	0.7135
315137	1ROSEMS1	0.4424	80/20	0.4424
315138	1ROSEMG2	0.3344	80/20	0.3344
315139	1GASTONA	1.0269	80/20	1.0269
315141	1GASTONB	1.0269	80/20	1.0269
315292	1DOMTR78	2.2301	80/20	2.2301
315293	1DOMTR9	11.5346	80/20	11.5346
315294	1DOMTR10	14.1355	80/20	14.1355
315601	1CONETOE2SOL	0.7028	80/20	0.7028
315602	1HOLLOMANSOL	1.0116	80/20	1.0116
315605	6W1-029WIND	4.4399	80/20	4.4399
315606	3AA2-053SOLA	0.5280	80/20	0.5280
315611	6Z1-036WIND	3.7399	80/20	3.7399
315614	AA2-178 C	3.8465	80/20	3.8465
316020	AB2-059 C OP	0.5947	80/20	0.5947
316140	AB2-099 C (Suspended)	0.3143	80/20	0.3143
920591	AA2-165 C	0.0573	80/20	0.0573
922922	AB1-081 C OP	0.5046	80/20	0.5046
925121	AB2-169 C	1.3763	80/20	1.3763
925591	AC1-034 C	2.4415	80/20	2.4415
926070	AC1-086 C	7.3193	80/20	7.3193
926201	AC1-098 C	2.6606	80/20	2.6606
926211	AC1-099 C	0.8916	80/20	0.8916
927024	AC1-189 C	4.9315	80/20	4.9315
927145	AC1-208 C	3.4265	80/20	3.4265
932631	AC2-084 C	3.7927	80/20	3.7927
933991	AD1-023 C	21.5509	80/20	21.5509
934331	AD1-057 C O1	3.5916	80/20	3.5916
934521	AD1-076 C	106.8508	80/20	106.8508
936401	AD2-051 C O1	6.1811	80/20	6.1811
938221	AE1-035 C	0.2529	80/20	0.2529
940491	AE2-034 C	18.2855	80/20	18.2855

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940571	AE2-044 C	1.5991	80/20	1.5991
941501	AE2-147 C	64.9431	80/20	64.9431
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1031	80/20	0.1031
943171	AE2-346 C	0.7543	80/20	0.7543
944141	AF1-082	1.0280	80/20	1.0280
944871	AF1-152 C	21.6477	80/20	21.6477
945711	AF1-236 C O1	200.1831	80/20	200.1831
957521	AF2-046 C	6.3114	80/20	6.3114
957531	AF2-047 C	43.4499	80/20	43.4499
957861	AF2-080 C	4.4790	80/20	4.4790
959511	AF2-242 C	8.2886	80/20	8.2886
961671	AG1-007 C	0.5973	80/20	0.5973
961681	AG1-008 C	6.3240	80/20	6.3240
961931	AG1-036 C	0.6265	80/20	0.6265
961941	AG1-037 C	0.2694	80/20	0.2694
962331	AG1-082 C	1.0776	80/20	1.0776
962341	AG1-083 C	1.0776	80/20	1.0776
962351	AG1-084 C	1.0558	80/20	1.0558
962361	AG1-085 C	1.0558	80/20	1.0558
962571	AG1-106 C	2.0354	80/20	2.0354
964491	AG1-312 C O1	15.7819	80/20	15.7819
964501	AG1-313 C O1	1.9549	80/20	1.9549
965631	AG1-431	115.8955	80/20	115.8955
965691	AG1-437 C O1	13.9836	80/20	13.9836
965701	AG1-438 C O1	13.9836	80/20	13.9836
965711	AG1-439 C O1	12.6075	80/20	12.6075
965741	AG1-442 O1	8.1571	80/20	8.1571
965751	AG1-443 O1	8.1571	80/20	8.1571
965761	AG1-444 O1	6.7240	80/20	6.7240
966801	AG1-551 C	2.0857	80/20	2.0857
966811	AG1-552 C	0.6611	80/20	0.6611
966931	AG1-431A	87.0740	80/20	87.0740
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2444	Confirmed LTF	0.2444
CPL	CPL	1.4599	Confirmed LTF	1.4599
CBM-W2	CBM-W2	5.2506	Confirmed LTF	5.2506
NY	NY	0.1371	Confirmed LTF	0.1371
TVA	TVA	0.9884	Confirmed LTF	0.9884
SIGE	SIGE	0.0743	Confirmed LTF	0.0743
CBM-S2	CBM-S2	15.6391	Confirmed LTF	15.6391
CBM-S1	CBM-S1	0.2462	Confirmed LTF	0.2462
MEC	MEC	0.7166	Confirmed LTF	0.7166
LAGN	LAGN	1.2338	Confirmed LTF	1.2338
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

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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
169248710	314651	6WINFALL	DVP	314639	6TANGLEW	DVP	1	DVP_P1-2: LN 247	single	898.64	121.27	122.7	DC	12.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	0.4448	80/20	0.4448
314582	3KELFORD	0.2019	80/20	0.2019
314589	3MURPHYS	0.0335	80/20	0.0335
314623	3WITAKRS	0.0807	80/20	0.0807
315126	1ROARAP2	0.4477	80/20	0.4477
315128	1ROARAP4	0.4272	80/20	0.4272
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.5131	80/20	3.5131
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.5131	80/20	3.5131
315136	1ROSEMG1	0.7465	80/20	0.7465
315137	1ROSEMS1	0.4629	80/20	0.4629
315138	1ROSEMG2	0.3499	80/20	0.3499
315139	1GASTONA	1.0767	80/20	1.0767
315141	1GASTONB	1.0767	80/20	1.0767
315292	1DOMTR78	2.1733	80/20	2.1733
315293	1DOMTR9	11.2404	80/20	11.2404
315294	1DOMTR10	13.7750	80/20	13.7750
315601	1CONETOE2SOL	0.7154	80/20	0.7154
315602	1HOLLOMANSOL	1.0501	80/20	1.0501
315605	6W1-029WIND	4.0412	80/20	4.0412
315606	3AA2-053SOLA	0.5636	80/20	0.5636
315607	3AA1-063SOLA	0.4260	80/20	0.4260
315611	6Z1-036WIND	3.5742	80/20	3.5742
315614	AA2-178 C	3.7041	80/20	3.7041
316020	AB2-059 C OP	0.6134	80/20	0.6134
316140	AB2-099 C (Suspended)	0.3348	80/20	0.3348
920591	AA2-165 C	0.0597	80/20	0.0597
922922	AB1-081 C OP	0.5205	80/20	0.5205
925121	AB2-169 C	1.3498	80/20	1.3498
925591	AC1-034 C	2.5184	80/20	2.5184
926070	AC1-086 C	7.6743	80/20	7.6743
926201	AC1-098 C	2.7914	80/20	2.7914
926211	AC1-099 C	0.9354	80/20	0.9354
927024	AC1-189 C	5.0095	80/20	5.0095
927145	AC1-208 C	3.6027	80/20	3.6027
932631	AC2-084 C	3.9793	80/20	3.9793
933991	AD1-023 C	21.0854	80/20	21.0854
934331	AD1-057 C O1	3.7264	80/20	3.7264
934521	AD1-076 C	103.7368	80/20	103.7368
936401	AD2-051 C O1	6.4174	80/20	6.4174
938221	AE1-035 C	0.2626	80/20	0.2626

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940491	AE2-034 C	17.6085	80/20	17.6085
940571	AE2-044 C	1.6495	80/20	1.6495
941501	AE2-147 C	59.1111	80/20	59.1111
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1082	80/20	0.1082
943171	AE2-346 C	0.8035	80/20	0.8035
944141	AF1-082	1.0604	80/20	1.0604
944871	AF1-152 C	19.7037	80/20	19.7037
945711	AF1-236 C O1	192.7712	80/20	192.7712
957521	AF2-046 C	7.1247	80/20	7.1247
957531	AF2-047 C	41.8412	80/20	41.8412
957861	AF2-080 C	4.5498	80/20	4.5498
959511	AF2-242 C	8.1833	80/20	8.1833
961671	AG1-007 C	0.6091	80/20	0.6091
961681	AG1-008 C	7.1390	80/20	7.1390
961931	AG1-036 C	0.6827	80/20	0.6827
961941	AG1-037 C	0.2870	80/20	0.2870
962331	AG1-082 C	1.1478	80/20	1.1478
962341	AG1-083 C	1.1478	80/20	1.1478
962351	AG1-084 C	1.1075	80/20	1.1075
962361	AG1-085 C	1.1075	80/20	1.1075
962571	AG1-106 C	2.1342	80/20	2.1342
964491	AG1-312 C O1	16.1325	80/20	16.1325
964501	AG1-313 C O1	2.0741	80/20	2.0741
964801	AG1-343 C	1.7836	80/20	1.7836
965631	AG1-431	111.6044	80/20	111.6044
965691	AG1-437 C O1	13.8024	80/20	13.8024
965701	AG1-438 C O1	13.8024	80/20	13.8024
965711	AG1-439 C O1	12.8340	80/20	12.8340
965741	AG1-442 O1	8.0514	80/20	8.0514
965751	AG1-443 O1	8.0514	80/20	8.0514
965761	AG1-444 O1	6.8448	80/20	6.8448
966801	AG1-551 C	2.0773	80/20	2.0773
966811	AG1-552 C	0.7108	80/20	0.7108
966931	AG1-431A	83.8500	80/20	83.8500
WEC	WEC	0.1266	Confirmed LTF	0.1266
LGEE	LGEE	0.2582	Confirmed LTF	0.2582
CPL	CPL	1.4960	Confirmed LTF	1.4960
CBM-W2	CBM-W2	5.4746	Confirmed LTF	5.4746
NY	NY	0.1316	Confirmed LTF	0.1316
TVA	TVA	1.0262	Confirmed LTF	1.0262
SIGE	SIGE	0.0757	Confirmed LTF	0.0757
CBM-S2	CBM-S2	16.0776	Confirmed LTF	16.0776
CBM-S1	CBM-S1	0.2565	Confirmed LTF	0.2565
MEC	MEC	0.7532	Confirmed LTF	0.7532
LAGN	LAGN	1.2810	Confirmed LTF	1.2810
CBM-W1	CBM-W1	5.3276	Confirmed LTF	5.3276

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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
169248626	314662	6S HERTFORD	DVP	314651	6WINFALL	DVP	1	DVP_P1-2: LN 2034-C	single	733.2	175.81	177.48	DC	12.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	4.3243	80/20	4.3243
315293	1DOMTR9	22.3657	80/20	22.3657
315294	1DOMTR10	27.4090	80/20	27.4090
315601	1CONETOE2SOL	0.6823	80/20	0.6823
315611	6Z1-036WIND	5.1616	80/20	5.1616
315614	AA2-178 C	6.4997	80/20	6.4997
925121	AB2-169 C	2.4637	80/20	2.4637
927024	AC1-189 C	4.9326	80/20	4.9326
933991	AD1-023 C	52.4094	80/20	52.4094
934521	AD1-076 C	216.3154	80/20	216.3154
940491	AE2-034 C	30.8981	80/20	30.8981
945711	AF1-236 C O1	338.2611	80/20	338.2611
957531	AF2-047 C	73.4199	80/20	73.4199
957861	AF2-080 C	4.4799	80/20	4.4799
959511	AF2-242 C	13.5706	80/20	13.5706
961671	AG1-007 C	0.5635	80/20	0.5635
965631	AG1-431	195.8354	80/20	195.8354
965711	AG1-439 C O1	12.2400	80/20	12.2400
965761	AG1-444 O1	6.5280	80/20	6.5280
966801	AG1-551 C	2.9879	80/20	2.9879
966931	AG1-431A	147.1340	80/20	147.1340
WEC	WEC	0.1065	Confirmed LTF	0.1065
LGEE	LGEE	0.2174	Confirmed LTF	0.2174
CPL	CPL	1.3254	Confirmed LTF	1.3254
CBM-W2	CBM-W2	4.6861	Confirmed LTF	4.6861
NY	NY	0.1200	Confirmed LTF	0.1200
TVA	TVA	0.8820	Confirmed LTF	0.8820
SIGE	SIGE	0.0657	Confirmed LTF	0.0657
CBM-S2	CBM-S2	14.0731	Confirmed LTF	14.0731
CBM-S1	CBM-S1	0.2200	Confirmed LTF	0.2200
MEC	MEC	0.6388	Confirmed LTF	0.6388
LAGN	LAGN	1.1025	Confirmed LTF	1.1025
CBM-W1	CBM-W1	4.4724	Confirmed LTF	4.4724

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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
163838181	314914	8MDLTHAN	DVP	314918	8NO ANNA	DVP	1	DVP_P1-2: LN 567	single	2442.12	148.09	148.5	DC	30.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	7.4758	Adder	8.8
313526	AB2-022 C	0.5126	80/20	0.5126
314295	6BIRDNECK	0.0602	80/20	0.0602
314491	3PENDLTN	0.4491	80/20	0.4491
314507	3THOMPSN	0.4506	80/20	0.4506
314572	3EMPORIA	0.4655	Adder	0.55
314638	6ELIZ CT	0.2997	80/20	0.2997
314639	6TANGLEW	0.5493	80/20	0.5493
314643	3O INLET	0.5971	80/20	0.5971
315098	1CHESPKA	0.5957	80/20	0.5957
315099	1CHESPKB (Deactivation : 31/05/2019)	4.1298	80/20	4.1298
315102	1BRUNSWICKG1	12.1755	80/20	12.1755
315103	1BRUNSWICKG2	12.1755	80/20	12.1755
315104	1BRUNSWICKG3	12.1755	80/20	12.1755
315105	1BRUNSWICKS1	25.2944	80/20	25.2944
315108	1ELIZAR1	4.3877	80/20	4.3877
315109	1ELIZAR2	4.3115	80/20	4.3115
315110	1ELIZAR3	4.4438	80/20	4.4438
315131	1EDGE CMA (Deactivation : 22/04/2019)	9.8245	Adder	11.56
315132	1EDGE CMB (Deactivation : 22/04/2019)	9.8245	Adder	11.56
315153	1CLOVER1	16.6100	80/20	16.6100
315233	1SURRY 2	34.1572	80/20	34.1572
315241	1Z1-086 GT1	15.6696	80/20	15.6696
315242	1Z1-086 GT2	15.6696	80/20	15.6696
315243	1Z1-086 GT3	15.6696	80/20	15.6696
315244	1Z1-086 ST	27.2396	80/20	27.2396
315260	1GOSPORTA	0.4756	80/20	0.4756
315261	1GOSPORTB	0.6075	80/20	0.6075
315262	1GOSPORTC	0.5156	80/20	0.5156
315293	1DOMTR9	7.8353	Adder	9.22
315294	1DOMTR10	9.6020	Adder	11.3
315603	6AA1-139SOLA	3.1436	80/20	3.1436
315605	6W1-029WIND	1.5187	80/20	1.5187
315611	6Z1-036WIND	1.4942	80/20	1.4942
316083	AB2-161 C	3.5385	Adder	4.16
316103	AB2-015 C	9.9157	Adder	11.67
316108	AB2-160 C	5.0442	Adder	5.93
316129	AC1-054 C	7.7106	Adder	9.07
316132	AB2-190 C	18.9258	Adder	22.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316140	AB2-099 C (Suspended)	0.6648	Adder	0.78
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.3756	80/20	0.3756
923991	AB2-040 C O1	8.1420	Adder	9.58
925591	AC1-034 C	7.2421	Adder	8.52
926070	AC1-086 C	22.9458	Adder	27.0
926201	AC1-098 C	6.7691	Adder	7.96
926211	AC1-099 C	2.2684	Adder	2.67
926661	AC1-147 C	0.5038	80/20	0.5038
926754	AC1-161 C	44.8993	80/20	44.8993
927024	AC1-189 C	9.3381	Adder	10.99
927145	AC1-208 C	9.8701	Adder	11.61
932044	AC2-012 C	14.4444	80/20	14.4444
932581	AC2-078 C O1	4.2307	Adder	4.98
932591	AC2-079 C O1	6.3352	Adder	7.45
932631	AC2-084 C	9.6496	Adder	11.35
933294	AC2-141 C	44.8993	80/20	44.8993
933501	AC2-165 C	9.9473	Adder	11.7
933731	AC2-196 C	0.4027	80/20	0.4027
933991	AD1-023 C	15.1481	Adder	17.82
934014	AD1-025 C	16.2854	Adder	19.16
934061	AD1-033 C	10.7150	80/20	10.7150
934331	AD1-057 C O1	10.8123	Adder	12.72
934521	AD1-076 C	62.9286	Adder	74.03
934575	AD1-082 C	8.0640	Adder	9.49
934615	AD1-087 C	8.8453	Adder	10.41
934625	AD1-088 C	12.9864	Adder	15.28
935111	AD1-144 C	0.3718	80/20	0.3718
935164	AD1-151 C	15.2082	Adder	17.89
935171	AD1-152 C O1	9.7157	Adder	11.43
936041	AD2-007 C	0.7780	Adder	0.92
936051	AD2-008 C	2.8353	Adder	3.34
936361	AD2-046 C O1	2.2336	Adder	2.63
936401	AD2-051 C O1	10.0188	Adder	11.79
936661	AD2-085 C	3.8954	Adder	4.58
937221	AD2-160 C O1	8.3237	80/20	8.3237
937481	AD2-202 C O1	2.5909	Adder	3.05
938494	AE1-068_C1	46.9524	80/20	46.9524
938497	AE1-068_C2	46.9524	80/20	46.9524
938504	AE1-069_C1	35.7830	80/20	35.7830
938507	AE1-069_C2	38.5826	80/20	38.5826
938535	AE1-072 C	25.0034	80/20	25.0034
938634	AE1-085 C	9.2484	Adder	10.88
938771	AE1-103 C	4.2192	Adder	4.96
939195	AE1-149 C	10.9227	Adder	12.85
939414	AE1-173_C1	48.7082	80/20	48.7082
939415	AE1-173_C2	41.7499	80/20	41.7499
939416	AE1-173_C3	48.7082	80/20	48.7082
940061	AE2-000BC O1	11.2430	Adder	13.23
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	245.8768	80/20	245.8768
940471	AE2-031 C	51.2447	80/20	51.2447
940481	AE2-033 C	17.7240	Adder	20.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940491	AE2-034 C	8.4006	Adder	9.88
940541	AE2-040	3.1437	Adder	3.7
940571	AE2-044 C	4.7433	Adder	5.58
940641	AE2-051 C O1	27.1143	80/20	27.1143
940651	AE2-052	3.6409	Adder	4.28
940891	AE2-078 C	2.4793	Adder	2.92
940901	AE2-079 C	2.4793	Adder	2.92
941031	AE2-094 C	61.5529	80/20	61.5529
941101	AE2-104 C O1	4.6206	80/20	4.6206
941281	AE2-122 C O1	40.4210	80/20	40.4210
941291	AE2-123 C O1	41.5403	80/20	41.5403
941301	AE2-124 C O1	37.7888	80/20	37.7888
941501	AE2-147 C	22.2147	80/20	22.2147
941591	AE2-156 O1	25.3720	80/20	25.3720
941791	AE2-182 C	2.1098	Adder	2.48
942001	AE2-212 C	2.0043	Adder	2.36
942131	AE2-225 C	3.0007	80/20	3.0007
942171	AE2-229 C	2.2505	80/20	2.2505
942341	AE2-247 C	1.6876	Adder	1.99
942371	AE2-250 C O1	8.9601	Adder	10.54
942401	AE2-253 C	8.7551	80/20	8.7551
942471	AE2-260 C O1	15.9499	Adder	18.76
942551	AE2-270	25.6709	Adder	30.2
942931	AE2-313 C	55.4009	80/20	55.4009
943171	AE2-346 C	1.5955	Adder	1.88
943461	AF1-017 C	1.5269	Adder	1.8
943611	AF1-032 C	2.4506	80/20	2.4506
943621	AF1-033 C	2.4793	Adder	2.92
943911	AF1-059	17.2789	Adder	20.33
944011	AF1-069 C	20.1116	80/20	20.1116
944141	AF1-082	3.0493	Adder	3.59
944581	AF1-123 C O1	69.3012	80/20	69.3012
944591	AF1-124 C O1	69.3012	80/20	69.3012
944601	AF1-125 C O1	69.3012	80/20	69.3012
944871	AF1-152 C	7.4049	80/20	7.4049
945711	AF1-236 C O1	91.9662	Adder	108.2
945811	AF1-246 C O1	10.6932	80/20	10.6932
946011	AF1-266	14.8364	Adder	17.45
946281	AF1-292 C	1.6612	Adder	1.95
957481	AF2-042 C	76.3800	80/20	76.3800
957491	AF2-043 C	3.0007	80/20	3.0007
957521	AF2-046 C	19.0723	Adder	22.44
957531	AF2-047 C	19.9613	Adder	23.48
957631	AF2-057	5.0682	80/20	5.0682
957711	AF2-065 C	13.0921	Adder	15.4
957821	AF2-076 C	7.4343	80/20	7.4343
957861	AF2-080 C	8.4812	Adder	9.98
957871	AF2-081 C	14.1781	80/20	14.1781
957911	AF2-085	5.6138	80/20	5.6138
958141	AF2-108	1.7807	Adder	2.09
958161	AF2-110 C	1.9049	80/20	1.9049
958501	AF2-144 C	1.9156	Adder	2.25

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959511	AF2-242 C	8.2742	Adder	9.73
959531	AF2-244 C (Withdrawn : 01/06/2021)	1.7654	Adder	2.08
959671	AF2-258 C	0.5011	Adder	0.59
959681	AF2-259 C	2.6710	Adder	3.14
959751	AF2-266	10.1346	Adder	11.92
960081	AF2-299 C	2.7998	Adder	3.29
961091	AF2-400 C	0.5354	Adder	0.63
961611	AG1-000B C	8.7242	Adder	19.37
961671	AG1-007 C	0.7038	Adder	1.56
961681	AG1-008 C	10.1286	Adder	22.48
961711	AG1-011	14.6604	Adder	32.54
961851	AG1-027 C	23.2941	80/20	23.2941
961931	AG1-036 C	0.8178	Adder	1.82
961941	AG1-037 C	0.3020	Adder	0.67
962271	AG1-075 C O1	8.1962	Adder	18.19
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.1946	Adder	2.65
962331	AG1-082 C	1.2080	Adder	2.68
962341	AG1-083 C	1.2080	Adder	2.68
962351	AG1-084 C	1.0544	Adder	2.34
962361	AG1-085 C	1.0544	Adder	2.34
962491	AG1-098 C O1	7.6167	Adder	16.91
962561	AG1-105 C O1	6.2474	Adder	13.87
962571	AG1-106 C	3.3820	Adder	7.51
963041	AG1-153 C	8.5431	80/20	8.5431
963111	AG1-160 C	8.6616	80/20	8.6616
963221	AG1-171 C	1.0747	Adder	2.39
963231	AG1-172 C	1.0747	Adder	2.39
963241	AG1-173 C	1.0747	Adder	2.39
963251	AG1-174 C	1.0747	Adder	2.39
963261	AG1-175 C	1.0747	Adder	2.39
963271	AG1-176 C O1	8.5059	Adder	18.88
963291	AG1-178 C O1	96.9329	80/20	96.9329
963301	AG1-179 C	3.1774	Adder	7.05
963311	AG1-180	1.5481	Adder	3.44
963351	AG1-184 O1	52.2221	80/20	52.2221
963821	AG1-235 C O1	34.3643	80/20	34.3643
964491	AG1-312 C O1	11.3879	Adder	25.28
964501	AG1-313 C O1	2.7131	Adder	6.02
964801	AG1-343 C	3.5633	Adder	7.91
964841	AG1-347 C	5.3047	Adder	11.78
964931	AG1-357 C	31.9632	80/20	31.9632
964951	AG1-359 O1	38.2875	80/20	38.2875
965001	AG1-364 C O1	10.1468	80/20	10.1468
965181	AG1-383 C	3.9303	80/20	3.9303
965291	AG1-394 C	1.2226	Adder	2.71
965451	AG1-413 C O1	3.8496	Adder	8.55
965601	AG1-428 C O1	2.6526	Adder	5.89
965631	AG1-431	28.2191	Adder	62.64
965691	AG1-437 C O1	6.1674	Adder	13.69
965701	AG1-438 C O1	6.1674	Adder	13.69
965711	AG1-439 C O1	13.7941	Adder	30.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	4.0154	Adder	8.91
965731	AG1-441 C	4.0154	Adder	8.91
965741	AG1-442 O1	3.5977	Adder	7.99
965751	AG1-443 O1	3.5977	Adder	7.99
965761	AG1-444 O1	7.3568	Adder	16.33
965771	AG1-445	2.3200	Adder	5.15
965781	AG1-446	2.3200	Adder	5.15
965811	AG1-449	35.9302	80/20	35.9302
966361	AG1-505 C	25.1577	80/20	25.1577
966371	AG1-506 C	25.1577	80/20	25.1577
966491	AG1-518 O1	12.5030	80/20	12.5030
966611	AG1-531 C	3.5573	Adder	7.9
966621	AG1-532 C	0.8013	Adder	1.78
966731	AG1-544 C	3.8282	Adder	8.5
966741	AG1-545 C	1.2783	Adder	2.84
966751	AG1-546 C	9.0181	Adder	20.02
966801	AG1-551 C	1.3427	Adder	2.98
966811	AG1-552 C	1.2221	Adder	2.71
966931	AG1-431A	21.2014	Adder	47.06
WEC	WEC	1.0335	Confirmed LTF	1.0335
LGEE	LGEE	2.1620	Confirmed LTF	2.1620
CPL	CPL	11.0019	Confirmed LTF	11.0019
CBM-W2	CBM-W2	46.6547	Confirmed LTF	46.6547
NY	NY	2.3525	Confirmed LTF	2.3525
TVA	TVA	8.8984	Confirmed LTF	8.8984
SIGE	SIGE	0.8933	Confirmed LTF	0.8933
CBM-S2	CBM-S2	132.4418	Confirmed LTF	132.4418
CBM-S1	CBM-S1	2.2139	Confirmed LTF	2.2139
MEC	MEC	6.2750	Confirmed LTF	6.2750
LAGN	LAGN	11.0092	Confirmed LTF	11.0092
AA2-074	AA2-074	7.2666	LTF	7.2666
CBM-W1	CBM-W1	42.6769	Confirmed LTF	42.6769

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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
163838244	314924	8SURRY	DVP	314903	8CHCKAHM	DVP	1	DVP_P1-2: LN 563	single	2442.12	124.37	124.8	DC	27.14

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

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

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

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

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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
163347460	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	160.12	165.75	DC	46.53

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168830333	957820	AF2-076 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2092	single	571.52	224.97	230.37	DC	30.85

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	0.5087	80/20	0.5087
316140	AB2-099 C (Suspended)	1.0074	80/20	1.0074
920591	AA2-165 C	0.1633	80/20	0.1633
922922	AB1-081 C OP	1.3557	80/20	1.3557
923991	AB2-040 C O1	5.8555	80/20	5.8555
924301	AB2-077 C O1 (Suspended)	0.7260	80/20	0.7260
924311	AB2-078 C O1 (Suspended)	0.7260	80/20	0.7260
924321	AB2-079 C O1 (Suspended)	0.7260	80/20	0.7260
925121	AB2-169 C	1.8885	80/20	1.8885
925591	AC1-034 C	6.5600	80/20	6.5600
926070	AC1-086 C	22.3600	80/20	22.3600
926201	AC1-098 C	8.0404	80/20	8.0404
926211	AC1-099 C	2.6944	80/20	2.6944
927024	AC1-189 C	11.8698	80/20	11.8698
927145	AC1-208 C	10.1498	80/20	10.1498
932631	AC2-084 C	11.4618	80/20	11.4618
933991	AD1-023 C	28.1849	80/20	28.1849
934331	AD1-057 C O1	10.1494	80/20	10.1494
934521	AD1-076 C	113.8581	80/20	113.8581
936361	AD2-046 C O1	4.3133	80/20	4.3133
936401	AD2-051 C O1	19.8559	80/20	19.8559
936485	AD2-063 C	4.9392	80/20	4.9392
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2104	80/20	4.2104
940481	AE2-033 C	4.4571	80/20	4.4571
940491	AE2-034 C	14.9108	80/20	14.9108
940571	AE2-044 C	4.2966	80/20	4.2966
940661	AE2-053 O1	1.5594	80/20	1.5594
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.3297	80/20	0.3297
942131	AE2-225 C	-1.0743	Adder	-1.26
942171	AE2-229 C	-0.8057	Adder	-0.95
942451	AE2-258	0.8499	80/20	0.8499
942471	AE2-260 C O1	8.2667	80/20	8.2667
943171	AE2-346 C	2.4178	80/20	2.4178
943611	AF1-032 C	-0.8773	Adder	-1.03
943911	AF1-059	8.1959	80/20	8.1959
944141	AF1-082	2.7621	80/20	2.7621
945711	AF1-236 C O1	163.2382	80/20	163.2382
946281	AF1-292 C	0.9810	80/20	0.9810
957491	AF2-043 C	-1.0743	Adder	-1.26
957521	AF2-046 C	20.4271	80/20	20.4271
957531	AF2-047 C	35.4310	80/20	35.4310
957821	AF2-076 C	25.4541	80/20	25.4541
957861	AF2-080 C	10.7806	80/20	10.7806
959511	AF2-242 C	13.0307	80/20	13.0307
960081	AF2-299 C	1.6533	80/20	1.6533
961671	AG1-007 C	1.4833	80/20	1.4833
961681	AG1-008 C	20.4680	80/20	20.4680
961931	AG1-036 C	2.0158	80/20	2.0158

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961941	AG1-037 C	0.8635	80/20	0.8635
962331	AG1-082 C	3.4540	80/20	3.4540
962341	AG1-083 C	3.4540	80/20	3.4540
962351	AG1-084 C	3.3758	80/20	3.3758
962361	AG1-085 C	3.3758	80/20	3.3758
962571	AG1-106 C	6.2181	80/20	6.2181
963301	AG1-179 C	3.0738	80/20	3.0738
963311	AG1-180	1.4976	80/20	1.4976
964241	AG1-285 C O1	4.2330	80/20	4.2330
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O1	6.1567	80/20	6.1567
964801	AG1-343 C	4.7135	80/20	4.7135
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O1	3.4453	80/20	3.4453
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O1	2.5661	80/20	2.5661
965631	AG1-431	94.5063	80/20	94.5063
965691	AG1-437 C O1	22.1316	80/20	22.1316
965701	AG1-438 C O1	22.1316	80/20	22.1316
965711	AG1-439 C O1	30.8475	80/20	30.8475
965721	AG1-440 C	4.2890	80/20	4.2890
965731	AG1-441 C	4.2890	80/20	4.2890
965741	AG1-442 O1	12.9101	80/20	12.9101
965751	AG1-443 O1	12.9101	80/20	12.9101
965761	AG1-444 O1	16.4520	80/20	16.4520
965771	AG1-445	2.4781	80/20	2.4781
965781	AG1-446	2.4781	80/20	2.4781
966621	AG1-532 C	0.8928	80/20	0.8928
966751	AG1-546 C	11.9536	80/20	11.9536
966801	AG1-551 C	3.8374	80/20	3.8374
966811	AG1-552 C	2.0442	80/20	2.0442
966931	AG1-431A	71.0040	80/20	71.0040
WEC	WEC	0.3330	Confirmed LTF	0.3330
LGEE	LGEE	0.6786	Confirmed LTF	0.6786
CPL	CPL	3.7381	Confirmed LTF	3.7381
CBM-W2	CBM-W2	14.1299	Confirmed LTF	14.1299
NY	NY	0.3019	Confirmed LTF	0.3019
TVA	TVA	2.6320	Confirmed LTF	2.6320
SIGE	SIGE	0.1896	Confirmed LTF	0.1896
CBM-S2	CBM-S2	40.4863	Confirmed LTF	40.4863
CBM-S1	CBM-S1	0.6593	Confirmed LTF	0.6593
MEC	MEC	1.9656	Confirmed LTF	1.9656
LAGN	LAGN	3.2847	Confirmed LTF	3.2847
AA2-074	AA2-074	2.4687	LTF	2.4687
CBM-W1	CBM-W1	14.0621	Confirmed LTF	14.0621

11.7 Queue Dependencies

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

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA1-063A	Carolina–Seaboard 115kV	In Service
AA1-065	Earleys 230kV	In Service
AA1-067	Everetts 34.5kV	In Service
AA1-139	Hickory-Shawboro 230kV	In Service
AA2-053	Carolina-Jackson 115kV	In Service
AA2-057	Hornertown-Whitakers 115kV	In Service
AA2-074	CPLP-PJM	Confirmed
AA2-088	Boykins-Handsome 115kV	In Service
AA2-165	Hornertown-Whitakers 115kV	In Service
AA2-178	Mackeys 230kV	Partially in Service - Under Construction
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
AB1-132	Thelma 230kV	Suspended
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-015	Franklin 115kV	Engineering and Procurement
AB2-022	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	Partially in Service - Under Construction
AB2-160	Reams 115kV	Engineering and Procurement
AB2-161	Waverly #2 DP 115kV	Engineering and Procurement
AB2-169	Pantago-Five Points 115kV	Partially in Service - Under Construction
AB2-174	Emporia-Trego 115kV	In Service
AB2-190	Hopewell-Surry 230kV	Engineering and Procurement
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-054	Kerr Dam–Eatons Ferry 115 kV	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

Queue Number	Project Name	Status
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-131	PJM-CPLE	Confirmed
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
AC2-078	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
AD1-055	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
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
AD2-205	Byllesby 69 kV	In Service
AD2-215	Kings Fork 34.5 kV	Withdrawn
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-068	Carson-Rogers Rd 500 kV	Active
AE1-069	Carson-Rogers Road 500 kV	Active
AE1-072	Shawboro-Sligo 230 kV	Active
AE1-085	Bakers Pond-Bell Ave 115 kV	Active
AE1-103	Holland-Union Camp 115 kV	Active
AE1-148	Kerr Dam-Ridge Rd 115 kV	Active

Queue Number	Project Name	Status
AE1-149	Disputanta-Poe 115 kV	Active
AE1-162	Smithfield 34.5 kV	Engineering and Procurement
AE1-173	Carson-Suffolk 500 kV	Active
AE1-250	Smith Mountain-E. Danville 138 kV	Active
AE2-000B	N/A	N/A
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	Sappony 34.5 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-051	Carson-Septa 500 kV	Active
AE2-052	Disputanta-Poe 115 kV	Active
AE2-053	Kerr Dam-Ridge Road 115 kV	Active
AE2-078	Poolesville 34.5 kV	Engineering and Procurement
AE2-079	Poolesville 34.5 kV	Engineering and Procurement
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
AE2-212	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
AE2-260	Clubhouse 230 kV	Active
AE2-270	Hopewell-Surry 230 kV	Active
AE2-313	Carson-Rawlings 500 kV	Active
AE2-326	Jacksons Ferry 138 kV	Active
AE2-346	Ahoskie 34.5 kV	Active
AF1-017	Myrtle-Windsor 115 kV	Active
AF1-032	Suffolk 34.5 kV	Engineering and Procurement
AF1-033	Poolesville 34 kV	Engineering and Procurement
AF1-058	Welco 34.5 kV	Engineering and Procurement
AF1-059	Brodnax-South Hill 115 kV	Active
AF1-069	Carson-Rogers Rd 500 kV	Active
AF1-082	Heartsease-Mayo Dunbar DP	Active
AF1-123	Fentress 500 kV	Active
AF1-124	Fentress 500 kV	Active
AF1-125	Fentress 500 kV	Active
AF1-152	Swamp 230 kV	Active
AF1-201	Hayes-White Marsh 115 kV	Active

Queue Number	Project Name	Status
AF1-236	Mackeys 230 kV	Active
AF1-246	Clover-Rawlings 500 kV	Active
AF1-266	Clubhouse-Sapony 230 kV	Active
AF1-291	Tyler 34.5 kV	Engineering and Procurement
AF1-292	Fields 34.5kV	Active
AF1-294	Jetersville-Ponton 115 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
AF2-258	Harrowgate 34.5 kV	Active
AF2-259	Locks 34.5 kV	Active
AF2-266	Clover 230 kV	Active
AF2-297	Sedge Hill 115 kV	Active
AF2-299	Fields 34.5 kV	Active
AF2-400	Franklin 13.2 kV	Engineering and Procurement
AG1-000B	N/A	N/A
AG1-007	Tar River 12.5 kV	Active
AG1-008	Tunis-Mapleton 115 kV	Active
AG1-011	Colonial Trial 230 kV	Active
AG1-021	Jetersville-Ponton 115 kV	Active
AG1-027	Suffolk-Holland 115 kV	Active
AG1-030	Victoria DP-Martin DP 115 kV	Active
AG1-036	Tunis 34.5 kV	Active
AG1-037	Ahoskie 34.5 kV	Active
AG1-048	Jetersville-Ponton 115 kV	Active
AG1-075	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

Queue Number	Project Name	Status
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
AG1-215	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
AG1-285	Chase City-Central 115 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-Oconeechee 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
AG1-427	Chase City-Drakes Branch 115 kV	Active
AG1-428	Danieltown 69 kV	Active
AG1-431	Mackeys 230 kV	Active
AG1-431A	Mackeys 230 kV	Active
AG1-437	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

Queue Number	Project Name	Status
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
AG1-505	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
AG1-544	Bakers Pond DP 115 kV	Active
AG1-545	W. Quaker Rd-Disputanta 34.5 kV	Active
AG1-546	Ebony-Elams Road 115 kV	Active
AG1-551	Parmelee 12.5 kV	Active
AG1-552	Carolina 13.2 kV	Active
V4-068	Murphy's 34.5kV	In Service
W1-029	Winfall 230kV	In Service
Y1-086	Morgans Corner	In Service
Z1-036	WinFall-Chowan 230kV	Suspended
Z1-086	Heritage-Carson	In Service
Z2-027	Pasquotank 34.5kV	In Service
Z2-043	Kelford 34.5kV	In Service
Z2-044	Whitakers 34.5kV	In Service
Z2-088	Tarboro-Everetts 230kV	In Service
J888	MISO	MISO

11.8 Contingency Descriptions - Primary POI

Contingency Name	Contingency Definition
EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1	CONTINGENCY 'EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1' OPEN BRANCH FROM BUS 304222 TO BUS 304226 CKT 1 END
DVP_P1-2: LN 567	CONTINGENCY 'DVP_P1-2: LN 567' OPEN BRANCH FROM BUS 314903 TO BUS 314924 CKT 1 /* 8CHCKAHM 500.00 - 8SURREY 500.00 END
PL:48:P71:102649	CONTINGENCY 'PL:48:P71:102649' /* SUSQ-GEN1 230KV & BETA-SUSQ 230KV DISCONNECT BRANCH FROM BUS 207915 TO BUS 208113 CKT 1 /* BETA-SUSQ DISCONNECT BUS 208114 /* SUSQ G1 END
DVP_P1-2: LN 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 249	CONTINGENCY 'DVP_P1-2: LN 249' OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 /* 6CARSON 230.00 - 6CHRL249 230.00 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 /* 6CHRL249 230.00 - 6LOCKS 230.00 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 /* 3LOCKS 115.00 - 6LOCKS 230.00 OPEN BUS 314285 /* ISLAND: 6CHRL249 230.00 END
DVP_P1-2: LN 247	CONTINGENCY 'DVP_P1-2: LN 247' OPEN BRANCH FROM BUS 313713 TO BUS 314648 CKT 1 /* 6SWAMP 230.00 - 6SUNBURY 230.00 OPEN BRANCH FROM BUS 314537 TO BUS 314648 CKT 1 /* 6SUFFOLK 230.00 - 6SUNBURY 230.00 OPEN BUS 314648 /* ISLAND: 6SUNBURY 230.00 END

Contingency Name	Contingency Definition
DVP_P2-2: BREMO B1	CONTINGENCY 'DVP_P2-2: BREMO B1' /* BREMO 230 KV OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END
DVP_P1-2: LN 2131	CONTINGENCY 'DVP_P1-2: LN 2131' OPEN BRANCH FROM BUS 313714 TO BUS 313885 CKT 1 /* 6PERQUIMANS 230.00 - 6WALBMRL 230.00 OPEN BRANCH FROM BUS 313885 TO BUS 314637 CKT 1 /* 6WALBMRL 230.00 - 6EDENTON 230.00 OPEN BRANCH FROM BUS 314203 TO BUS 314637 CKT 1 /* 6MACKEYS 230.00 - 6EDENTON 230.00 OPEN BUS 313885 /* ISLAND: 6WALBMRL 230.00 OPEN BUS 314637 /* ISLAND: 6EDENTON 230.00 END
DVP_P1-2: LN 2002	CONTINGENCY 'DVP_P1-2: LN 2002' OPEN BRANCH FROM BUS 314282 TO BUS 314331 CKT 1 /* 6CARSON 230.00 - 6POE 230.00 OPEN BRANCH FROM BUS 314329 TO BUS 314331 CKT 1 /* 3POE 115.00 - 6POE 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 2058-2181	CONTINGENCY 'DVP_P7-1: LN 2058-2181' /* . OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P1-2: LN 246-B	CONTINGENCY 'DVP_P1-2: LN 246-B' OPEN BRANCH FROM BUS 957820 TO BUS 314575 CKT 1 /* AF2-076 230.00 - 6NUCO TP 230.00 OPEN BRANCH FROM BUS 314569 TO BUS 314575 CKT 1 /* 6EARLEYS 230.00 - 6NUCO TP 230.00 OPEN BRANCH FROM BUS 314575 TO BUS 314590 CKT 1 /* 6NUCO TP 230.00 - 6NUCOR 230.00 OPEN BUS 314575 /* ISLAND: 6NUCO TP 230.00 OPEN BUS 314590 /* ISLAND: 6NUCOR 230.00 END
DVP_P1-2: LN 2167	CONTINGENCY 'DVP_P1-2: LN 2167' OPEN BRANCH FROM BUS 313845 TO BUS 314564 CKT 1 /* 6HATHAWAY 230.00 - 6EDGECOM 230.00 END
DVP_P1-2: LN 2181	CONTINGENCY 'DVP_P1-2: LN 2181' OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 /* 6DRY BREAD 230.00 - 6CLUBHSE 230.00 END
314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1	CONTINGENCY '314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1' OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 END

Contingency Name	Contingency Definition
DVP_P1-3: 8MDLTHAN-TX#6	CONTINGENCY 'DVP_P1-3: 8MDLTHAN-TX#6' OPEN BRANCH FROM BUS 314322 TO BUS 314914 CKT 1 /* 6MDLTHAN 230.00 - 8MDLTHAN 500.00 END
314574 6EVERETS 230 927020 AC1-189 TAP 230 1	CONTINGENCY '314574 6EVERETS 230 927020 AC1-189 TAP 230 1' OPEN BRANCH FROM BUS 314574 TO BUS 927020 CKT 1 END
DVP_P1-2: LN 238-B	CONTINGENCY 'DVP_P1-2: LN 238-B' OPEN BRANCH FROM BUS 940480 TO BUS 314563 CKT 1 /* AE2-033 TAP 230.00 - 6CLUBHSE 230.00 OPEN BRANCH FROM BUS 314562 TO BUS 314563 CKT 1 /* 3CLUBHSE 115.00 - 6CLUBHSE 230.00 END
DVP_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END
DVP_P7-1: LN 54-2012-B	CONTINGENCY 'DVP_P7-1: LN 54-2012-B' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* AD2-051 TAP - 6EARLEYS 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 54-2012-A	CONTINGENCY 'DVP_P7-1: LN 54-2012-A' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 OPEN BUS 314266 /* ISLAND: 6NORTHAMPTON230.00 END
DVP_P1-3: 8SUFFOLK-TX#8	CONTINGENCY 'DVP_P1-3: 8SUFFOLK-TX#8' OPEN BRANCH FROM BUS 314537 TO BUS 314928 CKT 2 /* 6SUFFOLK 230.00 - 8SUFFOLK 500.00 END
DVP_P1-2: LN 579	CONTINGENCY 'DVP_P1-2: LN 579' OPEN BRANCH FROM BUS 314923 TO BUS 314927 CKT 1 /* 8SEPTA 500.00 - 8YADKIN 500.00 END
DVP_P1-2: LN 2056-A	CONTINGENCY 'DVP_P1-2: LN 2056-A' OPEN BRANCH FROM BUS 313845 TO BUS 934330 CKT 1 /* 6HATHAWAY 230.00 - AD1-057 TAP 230.00 END
AEP_P2-2_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P2-2_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1' OPEN BRANCH FROM BUS 242520 TO BUS 242514 CKT 1 END
DVP_P1-2: LN 218	CONTINGENCY 'DVP_P1-2: LN 218' OPEN BRANCH FROM BUS 304451 TO BUS 314574 CKT 1 /* 6GREENVILE T230.00 - 6EVERETS 230.00 END

Contingency Name	Contingency Definition
DVP_P4-2: 2020T2144	CONTINGENCY 'DVP_P4-2: 2020T2144' /* WINFALL 230 KV OPEN BRANCH FROM BUS 313851 TO BUS 314638 CKT 1 /* 6ECITYDP2 230.00 - 6ELIZ CT 230.00 OPEN BRANCH FROM BUS 313851 TO BUS 314639 CKT 1 /* 6ECITYDP2 230.00 - 6TANGLEW 230.00 OPEN BRANCH FROM BUS 314639 TO BUS 314651 CKT 1 /* 6TANGLEW 230.00 - 6WINFALL 230.00 OPEN BUS 313851 /* ISLAND: 6ECITYDP2 230.00 OPEN BUS 314639 /* ISLAND: 6TANGLEW 230.00 OPEN BUS 917122 /* ISLAND: Z2-027 E 230.00 OPEN BRANCH FROM BUS 313713 TO BUS 314651 CKT 1 /* 6SWAMP 230.00 - 6WINFALL 230.00 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_P1-2: LN 2020	CONTINGENCY 'DVP_P1-2: LN 2020' OPEN BRANCH FROM BUS 313851 TO BUS 314638 CKT 1 /* 6ECITYDP2 230.00 - 6ELIZ CT 230.00 OPEN BRANCH FROM BUS 313851 TO BUS 314639 CKT 1 /* 6ECITYDP2 230.00 - 6TANGLEW 230.00 OPEN BRANCH FROM BUS 314639 TO BUS 314651 CKT 1 /* 6TANGLEW 230.00 - 6WINFALL 230.00 OPEN BUS 313851 /* ISLAND: 6ECITYDP2 230.00 OPEN BUS 314639 /* ISLAND: 6TANGLEW 230.00 OPEN BUS 917122 /* ISLAND: Z2-027 E 230.00 END
AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1' OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 END
Base Case	
DVP_P1-2: LN 2144	CONTINGENCY 'DVP_P1-2: LN 2144' OPEN BRANCH FROM BUS 313713 TO BUS 314651 CKT 1 /* 6SWAMP 230.00 - 6WINFALL 230.00 END

Contingency Name	Contingency Definition
AEP_P7-1_#10781-A	CONTINGENCY 'AEP_P7-1_#10781-A' /* OPEN BRANCH FROM BUS 242530 TO BUS 936160 CKT 1 / 242530 05EDANV1 230 936160 AD2-022 TAP 230 1 OPEN BRANCH FROM BUS 242531 TO BUS 304094 CKT 1 / 242531 05EDANV2 230 304094 6YANCY TAP 230 1 OPEN BRANCH FROM BUS 304094 TO BUS 304097 CKT 1 / 304094 6YANCY TAP 230 304097 6CONCD2230TT 230 1 OPEN BRANCH FROM BUS 304094 TO BUS 304095 CKT 1 / 304094 6YANCY TAP 230 304095 6YANCYVILLE 230 1 END
DVP_P1-2: LN 2003	CONTINGENCY 'DVP_P1-2: LN 2003' OPEN BRANCH FROM BUS 314263 TO BUS 314287 CKT 1 /* 6TYLER1 230.00 - 6CHESTF B 230.00 OPEN BRANCH FROM BUS 314263 TO BUS 314299 CKT 1 /* 6TYLER1 230.00 - 6HARROWG 230.00 OPEN BRANCH FROM BUS 314299 TO BUS 314331 CKT 1 /* 6HARROWG 230.00 - 6POE 230.00 OPEN BRANCH FROM BUS 314329 TO BUS 314331 CKT 2 /* 3POE 115.00 - 6POE 230.00 OPEN BUS 314263 /* ISLAND: 6TYLER1 230.00 OPEN BUS 314299 /* ISLAND: 6HARROWG 230.00 END
AEP_P1-3_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P1-3_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
DVP_P1-2: LN 2058	CONTINGENCY 'DVP_P1-2: LN 2058' OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 END
DVP_P1-2: LN 2092	CONTINGENCY 'DVP_P1-2: LN 2092' OPEN BRANCH FROM BUS 313714 TO BUS 314662 CKT 1 /* 6PERQUIMANS 230.00 - 6S HERTFORD 230.00 OPEN BRANCH FROM BUS 314651 TO BUS 314662 CKT 1 /* 6WINFALL 230.00 - 6S HERTFORD 230.00 OPEN BUS 314662 /* ISLAND: 6S HERTFORD 230.00 END
DVP_P1-2: LN 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2034-C	CONTINGENCY 'DVP_P1-2: LN 2034-C' OPEN BRANCH FROM BUS 965690 TO BUS 314620 CKT 1 /* AG1-437 TAP 230.00 - 6CASHIE 230.00 OPEN BUS 314620 /* ISLAND: 6CASHIE 230.00 END
DVP_P1-2: LN 2034-E	CONTINGENCY 'DVP_P1-2: LN 2034-E' OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 933990 TO BUS 314616 CKT 1 /* AD1-023 TAP 230.00 - 6TRWBRDG 230.00 END
DVP_P1-3: 8SUFFOLK-TX#7	CONTINGENCY 'DVP_P1-3: 8SUFFOLK-TX#7' OPEN BRANCH FROM BUS 314537 TO BUS 314928 CKT 1 /* 6SUFFOLK 230.00 - 8SUFFOLK 500.00 END

12 Short Circuit Analysis - Primary POI

The following Breakers are overdutied

Bus Number	Bus Name	BREAKER	Type	Capacity (Amps)	Duty Percentage Post Queue	Duty Percentage Pre Queue

12.1 System Reinforcements - Short Circuit

13 Summer Peak - Load Flow Analysis - Secondary POI

The Queue Project AG1-439 was evaluated as a 250.0 MW (Capacity 150.0 MW) injection at the Bethel-Carolina 115 kV substation in the Dominion area. Project AG1-439 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-439 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

13.1 Generation Deliverability

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

None

13.2 Multiple Facility Contingency

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
166983657	313844	3HATHAWAY	115.0	DVP	314554	3BTLEBRO	115.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	301.0	94.83	109.27	DC	43.47

13.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
161837641	242520	05J.FERR	500.0	AEP	242514	05J.FERR	765.0	AEP	1	AEP_P7-1_#10781-A	tower	1845.0	104.92	107.12	DC	40.38
174555954	242520	05J.FERR	500.0	AEP	242514	05J.FERR	765.0	AEP	1	AEP_P4_#10162_0 SEDAN 1138_P	breaker	1845.0	105.12	107.32	DC	40.41
174555955	242520	05J.FERR	500.0	AEP	242514	05J.FERR	765.0	AEP	1	DVP_P4-2: 562T563	breaker	1845.0	101.01	103.02	DC	36.86
168239767	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	133.03	135.98	DC	11.96
168239769	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	single	275.0	124.04	127.44	DC	9.48
174095881	313701	6CHINQUAPIN	230.0	DVP	314609	6TARBORO	230.0	DVP	1	DVP_P4-2: H2T218	breaker	541.0	109.48	137.39	DC	150.97
168525345	313713	6SWAMP	230.0	DVP	314648	6SUNBURY	230.0	DVP	1	DVP_P1-2: LN 2020	single	984.179992676	102.91	104.19	DC	12.61
168525227	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012207	171.49	172.96	DC	10.72
168525228	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	single	733.200012207	149.13	151.18	DC	15.04
163347135	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	459.0	185.45	192.85	DC	33.91
163347136	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	180.05	187.27	DC	33.06
163347137	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:08:P22:102799	bus	459.0	178.87	186.08	DC	33.05
163347138	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:11:P22:000176	bus	459.0	178.85	186.06	DC	33.05
163347405	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	202.55	212.7	DC	46.51
163347407	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 81-2056-A	tower	459.0	180.72	182.54	DC	18.51
168525240	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	375.059997559	155.88	161.17	DC	19.83
171595502	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:08:P22:102801	bus	459.0	178.82	186.04	DC	33.05

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
163838 168	3138 45	6HATHAW AY	230 .0	DVP	3042 22	6ROCKYMT 230T	230 .0	CPL E	1	DVP_P1-2: LN 2181	single	478.0	124.16	133.06	DC	42.54
163838 169	3138 45	6HATHAW AY	230 .0	DVP	3042 22	6ROCKYMT 230T	230 .0	CPL E	1	EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1	single	478.0	115.04	123.94	DC	42.54
174304 478	3138 51	6ECITYDP2	230 .0	DVP	3146 38	6ELIZ CT	230 .0	DVP	1	DVP_P4-2: 246T247	breaker	1204.0	164.36	166.98	DC	31.6
175552 501	3138 51	6ECITYDP2	230 .0	DVP	3146 38	6ELIZ CT	230 .0	DVP	1	DVP_P1-2: LN 247-B	single	984.179992 676	106.1	107.4	DC	12.82
168525 252	3138 85	6WALBMR L	230 .0	DVP	3137 14	6PERQUIMA NS	230 .0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012 207	166.46	167.93	DC	10.75
168525 253	3138 85	6WALBMR L	230 .0	DVP	3137 14	6PERQUIMA NS	230 .0	DVP	1	Base Case	single	733.200012 207	144.26	146.32	DC	15.07
168830 387	3142 03	6MACKEYS	230 .0	DVP	3146 37	6EDENTON	230 .0	DVP	1	DVP_P1-2: LN 2034-E	single	731.320007 324	166.87	168.34	DC	10.75
168830 388	3142 03	6MACKEYS	230 .0	DVP	3146 37	6EDENTON	230 .0	DVP	1	Base Case	single	731.320007 324	144.6	146.67	DC	15.07
174479 047	3142 25	6CHARCTY	230 .0	DVP	3142 27	6LAKESIDE	230 .0	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	113.67	114.23	DC	14.73
174479 034	3142 60	6VARINA	230 .0	DVP	3142 25	6CHARCTY	230 .0	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	116.45	117.01	DC	14.73
168830 457	3142 82	6CARSON	230 .0	DVP	3142 85	6CHRL249	230 .0	DVP	1	DVP_P1-2: LN 563	single	559.299987 793	171.04	172.83	DC	10.21
168830 715	3142 82	6CARSON	230 .0	DVP	3143 31	6POE	230 .0	DVP	1	DVP_P1-2: LN 249	single	678.679992 676	122.74	123.87	DC	9.06
173906 458	3142 82	6CARSON	230 .0	DVP	3142 85	6CHRL249	230 .0	DVP	1	DVP_P4-2: 562T563	breaker	684.0	198.52	199.74	DC	18.36
174304 557	3142 82	6CARSON	230 .0	DVP	3143 31	6POE	230 .0	DVP	1	DVP_P4-2: 24972-4	breaker	830.0	132.62	134.09	DC	27.04
168830 467	3142 85	6CHRL249	230 .0	DVP	3143 16	6LOCKS	230 .0	DVP	1	DVP_P1-2: LN 563	single	559.299987 793	167.23	169.02	DC	10.21
173906 459	3142 85	6CHRL249	230 .0	DVP	3143 16	6LOCKS	230 .0	DVP	1	DVP_P4-2: 562T563	breaker	684.0	195.39	196.61	DC	18.36
174479 032	3142 87	6CHESTF B	230 .0	DVP	3142 60	6VARINA	230 .0	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	116.75	117.31	DC	14.73
168830 492	3142 99	6HARROW G	230 .0	DVP	3142 63	6TYLER1	230 .0	DVP	1	DVP_P1-2: LN 249	single	441.799987 793	119.21	121.12	DC	8.46
174304 444	3142 99	6HARROW G	230 .0	DVP	3142 63	6TYLER1	230 .0	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	179.87	181.76	DC	22.7
174478 871	3142 99	6HARROW G	230 .0	DVP	3142 63	6TYLER1	230 .0	DVP	1	DVP_P4-2: 562T563	breaker	541.0	175.57	176.77	DC	14.45
168830 610	3143 01	6HARR205	230 .0	DVP	3143 46	6TYLER	230 .0	DVP	1	DVP_P1-2: LN 563	single	441.799987 793	136.63	137.86	DC	8.2
175552 754	3143 01	6HARR205	230 .0	DVP	3143 46	6TYLER	230 .0	DVP	1	DVP_P1-2: LN 2002	single	441.799987 793	105.04	106.86	DC	8.03
168830 537	3143 16	6LOCKS	230 .0	DVP	3143 01	6HARR205	230 .0	DVP	1	DVP_P1-2: LN 563	single	441.799987 793	141.8	143.02	DC	8.2
168830 539	3143 16	6LOCKS	230 .0	DVP	3143 01	6HARR205	230 .0	DVP	1	DVP_P1-2: LN 2002	single	441.799987 793	110.29	112.11	DC	8.03
174095 826	3143 16	6LOCKS	230 .0	DVP	3143 01	6HARR205	230 .0	DVP	1	DVP_P4-2: 562T563	breaker	541.0	166.2	167.42	DC	14.67
168830 488	3143 31	6POE	230 .0	DVP	3142 99	6HARROWG	230 .0	DVP	1	DVP_P1-2: LN 249	single	441.799987 793	119.23	121.14	DC	8.46
174304 443	3143 31	6POE	230 .0	DVP	3142 99	6HARROWG	230 .0	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	179.89	181.78	DC	22.7
174478 869	3143 31	6POE	230 .0	DVP	3142 99	6HARROWG	230 .0	DVP	1	DVP_P4-2: 562T563	breaker	541.0	175.61	176.81	DC	14.45
168830 412	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992 676	158.77	161.65	DC	19.56
168830 414	3144 35	6SAPONY	230 .0	DVP	3142 82	6CARSON	230 .0	DVP	1	Base Case	single	678.679992 676	140.99	144.01	DC	20.47
174479 059	3145 25	6KINGFOR K	230 .0	DVP	3145 22	6CHCKTUK	230 .0	DVP	1	DVP_P4-2: 531T582	breaker	830.0	110.94	111.75	DC	14.88
174478 954	3145 37	6SUFFOLK	230 .0	DVP	3149 28	8SUFFOLK	500 .0	DVP	2	DVP_P4-2: 211042	breaker	1004.29998 779	129.91	132.96	DC	30.6

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
174479 007	3145 37	6SUFFOLK	230 .0	DVP	3149 28	8SUFFOLK	500 .0	DVP	1	DVP_P4-2: 28942	break er	1053.5	118.67	120.05	DC	32.16
163838 792	3145 54	3BTLEBRO	115 .0	DVP	3042 23	3ROCKYMT 115T	115 .0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	164.0	303.99	325.75	DC	35.57
163347 221	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	147.07	148.96	DC	34.63
163347 222	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	AEP_P2- 2_#1377_05J.FERR 765_1	bus	830.0	142.29	144.21	DC	35.14
163347 480	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	153.0	158.62	DC	46.53
163347 481	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P7-1: LN 25- 2034-A	tower	830.0	143.31	147.75	DC	36.84
169037 773	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992 676	130.64	133.42	DC	19.57
169037 774	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	Base Case	single	678.679992 676	118.56	121.4	DC	20.48
174095 868	3145 63	6CLUBHSE	230 .0	DVP	9404 80	AE2-033 TAP	230 .0	DVP	1	DVP_P4-2: 201262	break er	830.0	143.79	145.56	DC	32.46
169037 637	3145 69	6EARLEYS	230 .0	DVP	3145 75	6NUCO TP	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	231.31	236.71	DC	30.85
169037 640	3145 69	6EARLEYS	230 .0	DVP	3145 75	6NUCO TP	230 .0	DVP	1	Base Case	single	571.520019 531	138.95	143.18	DC	24.18
163837 930	3145 74	6EVERETS	230 .0	DVP	3044 51	6GREENVILE T	230 .0	CPL E	1	DVP_P4-2: 2020T2144	break er	478.0	213.05	223.18	DC	48.41
163838 105	3145 74	6EVERETS	230 .0	DVP	3044 51	6GREENVILE T	230 .0	CPL E	1	DVP_P1-2: LN 2167	single	478.0	136.6	149.75	DC	62.89
163838 106	3145 74	6EVERETS	230 .0	DVP	3044 51	6GREENVILE T	230 .0	CPL E	1	DVP_P1-2: LN 2092	single	478.0	148.35	154.42	DC	29.02
163838 110	3145 74	6EVERETS	230 .0	DVP	3044 51	6GREENVILE T	230 .0	CPL E	1	Base Case	single	478.0	111.44	116.95	DC	26.38
163838 795	3145 74	6EVERETS	230 .0	DVP	3044 51	6GREENVILE T	230 .0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	478.0	213.77	227.35	DC	64.89
169037 655	3145 75	6NUCO TP	230 .0	DVP	9578 20	AF2-076 TAP	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	222.63	228.03	DC	30.85
169037 658	3145 75	6NUCO TP	230 .0	DVP	9578 20	AF2-076 TAP	230 .0	DVP	1	Base Case	single	571.520019 531	130.25	134.48	DC	24.18
175940 978	3145 75	6NUCO TP	230 .0	DVP	9578 20	AF2-076 TAP	230 .0	DVP	1	DVP_P1-2: LN 238- B	single	571.520019 531	171.15	176.18	DC	29.48
163347 155	3145 83	6LAKEVEW	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	AEP_P2- 2_#1377_05J.FERR 765_1	bus	459.0	169.22	176.64	DC	34.0
163347 156	3145 83	6LAKEVEW	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	163.69	170.93	DC	33.14
163347 430	3145 83	6LAKEVEW	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	186.75	196.92	DC	46.59
168525 257	3145 83	6LAKEVEW	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	Base Case	single	375.059997 559	139.97	145.27	DC	19.89
169037 744	3145 83	6LAKEVEW	230 .0	DVP	3145 61	6CAROLNA	230 .0	DVP	1	DVP_P1-2: LN 238- B	single	375.059997 559	138.73	142.41	DC	13.82
171595 789	3145 83	6LAKEVEW	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	DVP_P7-1: LN 22- 90	tower	459.0	170.88	178.43	DC	34.61
163838 156	3145 91	6NASH	230 .0	DVP	3042 26	6PA- RMOUNT#4	230 .0	CPL E	1	DVP_P1-2: LN 2058	single	478.0	124.56	133.88	DC	44.56
163838 161	3145 91	6NASH	230 .0	DVP	3042 26	6PA- RMOUNT#4	230 .0	CPL E	1	DVP_P1-2: LN 218	single	478.0	101.14	107.55	DC	30.62
168525 246	3146 37	6EDENTON	230 .0	DVP	3138 85	6WALBMRL	230 .0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012 207	166.47	167.94	DC	10.75
168525 247	3146 37	6EDENTON	230 .0	DVP	3138 85	6WALBMRL	230 .0	DVP	1	Base Case	single	733.200012 207	144.27	146.33	DC	15.07
169248 618	3146 38	6ELIZ CT	230 .0	DVP	3146 47	6SHAWBRO	230 .0	DVP	1	Base Case	single	568.700012 207	117.55	119.03	DC	8.39
174095 786	3146 38	6ELIZ CT	230 .0	DVP	3146 47	6SHAWBRO	230 .0	DVP	1	DVP_P4-2: 246T247	break er	699.0	273.19	277.71	DC	31.57
175124 454	3146 38	6ELIZ CT	230 .0	DVP	3146 47	6SHAWBRO	230 .0	DVP	1	DVP_P1-2: LN 247- B	single	571.520019 531	174.54	176.78	DC	12.81

ID	FROM BUS#	FROM BUS	kV	FROM BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
174304 477	3146 39	6TANGLEW	230 .0	DVP	3138 51	6ECITYDP2	230 .0	DVP	1	DVP_P4-2: 246T247	break er	1204.0	164.37	166.99	DC	31.6
175552 498	3146 39	6TANGLEW	230 .0	DVP	3138 51	6ECITYDP2	230 .0	DVP	1	DVP_P1-2: LN 247-B	single	984.179992 676	106.11	107.41	DC	12.82
174304 610	3146 45	6SLIGO L269	230 .0	DVP	9638 20	AG1-235 TAP	230 .0	DVP	1	DVP_P4-2: 246T247	break er	699.0	123.22	124.21	DC	15.39
174304 674	3146 47	6SHAWBR O	230 .0	DVP	9385 30	AE1-072_TAP	230 .0	DVP	1	DVP_P4-2: 246T247	break er	699.0	113.17	114.16	DC	15.39
175552 523	3146 48	6SUNBURY	230 .0	DVP	9664 90	AG1-518 TAP	230 .0	DVP	1	DVP_P1-2: LN 2020	single	984.179992 676	101.98	103.26	DC	12.61
174304 463	3146 51	6WINFALL	230 .0	DVP	3146 39	6TANGLEW	230 .0	DVP	1	DVP_P4-2: 246T247	break er	1163.0	174.0	176.72	DC	31.62
175307 297	3146 51	6WINFALL	230 .0	DVP	3146 39	6TANGLEW	230 .0	DVP	1	DVP_P1-2: LN 247-B	single	898.640014 648	120.6	122.03	DC	12.83
169248 627	3146 62	6S HERTFORD	230 .0	DVP	3146 51	6WINFALL	230 .0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012 207	172.37	173.83	DC	10.72
169248 628	3146 62	6S HERTFORD	230 .0	DVP	3146 51	6WINFALL	230 .0	DVP	1	Base Case	single	733.200012 207	149.99	152.04	DC	15.04
163838 181	3149 14	8MDLTHAN	500 .0	DVP	3149 18	8NO ANNA	500 .0	DVP	1	DVP_P1-2: LN 567	single	2442.12011 719	147.76	148.19	DC	30.62
163838 184	3149 14	8MDLTHAN	500 .0	DVP	3149 18	8NO ANNA	500 .0	DVP	1	DVP_P1-3: 8MDLTHAN-TX#6	single	2442.12011 719	133.85	134.31	DC	26.57
163838 187	3149 14	8MDLTHAN	500 .0	DVP	3149 18	8NO ANNA	500 .0	DVP	1	Base Case	single	2442.12011 719	129.98	130.17	DC	26.48
163838 244	3149 24	8SURREY	500 .0	DVP	3149 03	8CHCKAHM	500 .0	DVP	1	DVP_P1-2: LN 563	single	2442.12011 719	123.99	124.42	DC	27.14
163838 248	3149 24	8SURREY	500 .0	DVP	3149 03	8CHCKAHM	500 .0	DVP	1	DVP_P1-2: LN 576	single	2442.12011 719	110.67	111.02	DC	25.3
174304 600	9385 30	AE1-072_TAP	230 .0	DVP	3146 45	6SLIGO L269	230 .0	DVP	1	DVP_P4-2: 246T247	break er	699.0	124.09	125.08	DC	15.39
163347 460	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	173.93	179.55	DC	46.53
169753 102	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992 676	156.02	158.79	DC	19.57
169753 104	9404 80	AE2-033 TAP	230 .0	DVP	3144 35	6SAPONY	230 .0	DVP	1	Base Case	single	678.679992 676	137.81	140.83	DC	20.48
168830 333	9578 20	AF2-076 TAP	230 .0	DVP	3145 37	6SUFFOLK	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	226.96	232.36	DC	30.85
168830 336	9578 20	AF2-076 TAP	230 .0	DVP	3145 37	6SUFFOLK	230 .0	DVP	1	Base Case	single	571.520019 531	134.64	138.87	DC	24.18
175940 972	9578 20	AF2-076 TAP	230 .0	DVP	3145 37	6SUFFOLK	230 .0	DVP	1	DVP_P1-2: LN 238-B	single	571.520019 531	175.55	180.57	DC	29.48
175552 495	9664 90	AG1-518 TAP	230 .0	DVP	3145 37	6SUFFOLK	230 .0	DVP	1	DVP_P1-2: LN 2020	single	984.179992 676	101.98	103.26	DC	12.61

13.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
168239766	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	operation	275.0	138.97	141.56	DC	15.79
175307329	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOC H 500 1	operation	402.0	158.66	160.89	DC	19.93
168525311	313701	6CHINQUAPIN	230.0	DVP	314609	6TARBORO	230.0	DVP	1	314574 6EVERET S 230 927020 AC1-189 TAP 230 1	operation	441.799987793	57.13	113.7	DC	249.93
168525343	313713	6SWAMP	230.0	DVP	314648	6SUNBURY	230.0	DVP	1	DVP_P1-2: LN 2020	operation	984.179992676	167.01	167.97	DC	21.01
168525225	313714	6PERQUIMANS	230.0	DVP	314662	6S HERTFORD	230.0	DVP	1	Base Case	operation	733.200012207	214.7	218.12	DC	25.07
168525238	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operation	375.059997559	218.13	226.97	DC	33.06
163838166	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT2 30T	230.0	CPL E	1	DVP_P1-2: LN 2181	operation	478.0	167.87	182.73	DC	70.9
168525350	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	Base Case	operation	984.179992676	109.04	109.68	DC	14.01
175552500	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	DVP_P1-2: LN 247-B	operation	984.179992676	166.28	167.26	DC	21.37
168525250	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	operation	733.200012207	190.78	194.21	DC	25.12
168830385	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	operation	731.320007324	191.25	194.68	DC	25.12
168830456	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	operation	559.299987793	190.57	191.94	DC	17.02
168830716	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P1-2: LN 249	operation	678.679992676	118.12	119.12	DC	15.09
168830466	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	operation	559.299987793	186.76	188.14	DC	17.02
168830491	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 249	operation	441.799987793	144.98	146.42	DC	14.1
168830536	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P1-2: LN 563	operation	441.799987793	150.66	152.05	DC	13.66
168830487	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 249	operation	441.799987793	145.0	146.44	DC	14.1
168830409	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	207.97	210.14	DC	32.6
168830411	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operation	678.679992676	185.76	188.03	DC	34.12
168830782	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	1	DVP_P1-3: 8SUFFOL K-TX#8	operation	893.187988281	108.58	111.41	DC	25.22
169037908	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	2	DVP_P1-3: 8SUFFOL K-TX#7	operation	906.253967285	107.23	110.02	DC	25.27

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
169037926	314561	6CAROLNA	230.0	DVP	314559	3CAROLNA	115.0	DVP	1	DVP_P1-2: LN 2201	operation	239.888000488	98.48	101.89	DC	18.07
169037770	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	172.29	174.47	DC	32.61
169037771	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	operation	678.679992676	168.67	170.95	DC	34.14
169037776	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	3145746EVERETS 230 927020 AC1-189 TAP 230 1	operation	441.799987793	74.17	130.74	DC	249.93
169037635	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	316.48	325.48	DC	51.41
169037639	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	operation	571.520019531	185.86	192.92	DC	40.29
163838099	314574	6EVERETS	230.0	DVP	304451	6GREENVILE T	230.0	CPL E	1	DVP_P1-2: LN 2092	operation	478.0	210.88	221.0	DC	48.37
163838104	314574	6EVERETS	230.0	DVP	304451	6GREENVILE T	230.0	CPL E	1	Base Case	operation	478.0	153.23	162.43	DC	43.96
169037653	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	307.8	316.8	DC	51.41
169037657	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	operation	571.520019531	177.17	184.22	DC	40.29
169037934	314579	6HORNRTN	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	3145746EVERETS 230 927020 AC1-189 TAP 230 1	operation	441.799987793	84.85	100.84	DC	70.71
168525255	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	operation	375.059997559	198.23	207.09	DC	33.14
169037742	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 238-B	operation	375.059997559	206.33	209.1	DC	23.04
163838155	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	operation	478.0	167.63	183.2	DC	74.27
168830664	314594	6PLYMOTH	230.0	DVP	314203	6MACKEYS	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	789.599975586	128.13	132.86	DC	37.28
169037809	314609	6TARBORO	230.0	DVP	314610	6TOTDP4	230.0	DVP	1	DVP_P1-2: LN 218	operation	441.799987793	123.01	157.01	DC	150.22
169037813	314610	6TOTDP4	230.0	DVP	314564	6EDGECOM	230.0	DVP	1	DVP_P1-2: LN 218	operation	441.799987793	120.54	154.55	DC	150.22
169037896	314613	3TRWBRDG	115.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 2034-E	operation	194.861999512	115.23	119.39	DC	17.98
169037859	314616	6TRWBRDG	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	789.599975586	130.87	135.6	DC	37.28
169037928	314620	6CASHIE	230.0	DVP	933990	AD1-023 TAP	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	100.91	102.42	DC	19.1
168525244	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	operation	733.200012207	190.8	194.22	DC	25.12
169248732	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	Base Case	operation	984.179992676	109.05	109.69	DC	14.01

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
175552497	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	DVP_P1-2: LN 247-B	operation	984.179992676	166.29	167.27	DC	21.37
175552522	314648	6SUNBURY	230.0	DVP	966490	AG1-518 TAP	230.0	DVP	1	DVP_P1-2: LN 2020	operation	984.179992676	166.08	167.04	DC	21.01
169248709	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	Base Case	operation	823.440002441	134.82	135.58	DC	14.03
169248821	314651	6WINFALL	230.0	DVP	313713	6SWAMP	230.0	DVP	1	DVP_P1-2: LN 2020	operation	984.179992676	131.95	132.92	DC	21.07
175307295	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P1-2: LN 247-B	operation	898.640014648	186.08	187.15	DC	21.39
169248625	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	operation	733.200012207	215.56	218.98	DC	25.07
163838362	314928	8SUFFOLK	500.0	DVP	314924	8SURREY	500.0	DVP	1	DVP_P1-2: LN 579	operation	2442.12011719	114.07	114.53	DC	30.12
169037852	927020	AC1-189 TAP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 2167	operation	441.799987793	74.17	130.74	DC	249.93
169037900	933990	AD1-023 TAP	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	111.21	112.72	DC	19.1
169753099	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	209.09	211.26	DC	32.61
169753101	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operation	678.679992676	190.19	192.47	DC	34.14
168830331	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	314.39	323.38	DC	51.41
168830335	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	operation	571.520019531	183.17	190.22	DC	40.29
169037924	965690	AG1-437 TAP	230.0	DVP	314620	6CASHIE	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	103.03	104.54	DC	19.1
175552494	966490	AG1-518 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2020	operation	984.179992676	165.99	166.95	DC	21.01

13.5 Flow Gate Details - Secondary POI

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

13.5.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166983657	313844	3HATHAWAY	DVP	314554	3BTLEBRO	DVP	1	DVP_P7-1: LN 2058-2181	tower	301.0	94.83	109.27	DC	43.47

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315131	1EDGE CMA (Deactivation : 22/04/2019)	15.7928	50/50	15.7928
315132	1EDGE CMB (Deactivation : 22/04/2019)	15.7928	50/50	15.7928
315136	1ROSEMG1	1.3941	50/50	1.3941
315137	1ROSEMS1	0.8645	50/50	0.8645
315138	1ROSEMG2	0.6534	50/50	0.6534
315601	1CONETOE2SOL	1.4539	50/50	1.4539
316020	AB2-059 C OP	6.0925	50/50	6.0925
316097	AB2-100 E1	0.8181	Adder	0.96
316099	AB2-100 E2	0.8181	Adder	0.96
917512	Z2-088 E OP1	8.6240	50/50	8.6240
918532	AA1-067 E	0.2831	Adder	0.33
922922	AB1-081 C OP	5.1694	50/50	5.1694
922923	AB1-081 E OP	14.0424	50/50	14.0424
923262	AB1-132 C OP (Suspended)	6.6473	Adder	7.82
923263	AB1-132 E OP (Suspended)	2.8489	Adder	3.35
924152	AB2-059 E OP	19.8934	50/50	19.8934
925591	AC1-034 C	25.0130	50/50	25.0130
925592	AC1-034 E	18.8695	50/50	18.8695
926070	AC1-086 C	9.7890	Adder	11.52
926071	AC1-086 E	4.4553	Adder	5.24
926201	AC1-098 C	-4.2203	Adder	-4.97
926211	AC1-099 C	-1.4143	Adder	-1.66
927024	AC1-189 C	7.5497	50/50	7.5497
927025	AC1-189 E	3.7607	50/50	3.7607
927145	AC1-208 C	-7.1294	Adder	-8.39
934331	AD1-057 C O1	11.9750	50/50	11.9750
934332	AD1-057 E O1	6.3879	50/50	6.3879
940571	AE2-044 C	16.3828	50/50	16.3828
940572	AE2-044 E	7.0212	50/50	7.0212
944141	AF1-082	10.5318	50/50	10.5318
957861	AF2-080 C	6.8569	50/50	6.8569
957862	AF2-080 E	3.0397	50/50	3.0397
959511	AF2-242 C	2.4243	Adder	2.85
959512	AF2-242 E	1.8856	Adder	2.22
961671	AG1-007 C	1.5344	50/50	1.5344
961672	AG1-007 E	0.8569	50/50	0.8569
962571	AG1-106 C	1.4428	Adder	3.2

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962572	AG1-106 E	0.6543	Adder	1.45
965711	AG1-439 C O1	26.0805	50/50	26.0805
965712	AG1-439 E O1	17.3870	50/50	17.3870
965761	AG1-444 O1	13.9096	50/50	13.9096
966801	AG1-551 C	0.4314	Adder	0.96
966802	AG1-551 E	0.1849	Adder	0.41
G-007A	G-007A	0.3141	Confirmed LTF	0.3141
VFT	VFT	0.8321	Confirmed LTF	0.8321
CALDERWOOD	CALDERWOOD	0.4518	Confirmed LTF	0.4518
PRAIRIE	PRAIRIE	1.5860	Confirmed LTF	1.5860
CHEOAH	CHEOAH	0.4625	Confirmed LTF	0.4625
CBM-N	CBM-N	0.1512	Confirmed LTF	0.1512
COTTONWOOD	COTTONWOOD	1.6758	Confirmed LTF	1.6758
HAMLET	HAMLET	0.9523	Confirmed LTF	0.9523
GIBSON	GIBSON	0.2834	Confirmed LTF	0.2834
BLUEG	BLUEG	0.8767	Confirmed LTF	0.8767
TRIMBLE	TRIMBLE	0.2783	Confirmed LTF	0.2783
CATAWBA	CATAWBA	0.4812	Confirmed LTF	0.4812

13.5.2 Index 2

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174555954	242520	05J.FERR	AEP	242514	05J.FERR	AEP	1	AEP_P4_#10162_05EDAN 1 138_P	breaker	1845.0	105.12	107.32	DC	40.41

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

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

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

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

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

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

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

13.5.3 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
168239767	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	133.03	135.98	DC	11.96

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

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

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

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

13.5.4 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
174095881	313701	6CHINQUAPIN	DVP	314609	6TARBORO	DVP	1	DVP_P4-2: H2T218	breaker	541.0	109.48	137.39	DC	150.97

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.0721	50/50	0.0721
315292	1DOMTR78	1.4216	50/50	1.4216
315293	1DOMTR9	7.3526	50/50	7.3526
315294	1DOMTR10	9.0105	50/50	9.0105
315601	1CONETOE2SOL	5.0494	50/50	5.0494
315602	1HOLLOMANSOL	1.1716	50/50	1.1716
315614	AA2-178 C	1.0353	50/50	1.0353
316140	AB2-099 C (Suspended)	0.2738	Adder	0.32
316141	AB2-099 E (Suspended)	0.1174	Adder	0.14
901082	W1-029 E	13.9167	Adder	16.37
916042	Z1-036 E (Suspended)	18.2615	Adder	21.48
917332	Z2-043 E	0.3422	Adder	0.4
917512	Z2-088 E OP1	29.9519	50/50	29.9519
918512	AA1-065 E OP	3.3252	50/50	3.3252
918532	AA1-067 E	1.6061	50/50	1.6061
920692	AA2-178 E	2.8123	50/50	2.8123
925121	AB2-169 C	1.4133	50/50	1.4133
925122	AB2-169 E	8.0395	50/50	8.0395
925591	AC1-034 C	-4.4383	Adder	-5.22
927024	AC1-189 C	27.9554	50/50	27.9554
927025	AC1-189 E	13.9254	50/50	13.9254
933991	AD1-023 C	10.7280	50/50	10.7280
933992	AD1-023 E	5.8404	50/50	5.8404
934521	AD1-076 C	44.2245	50/50	44.2245
934522	AD1-076 E	22.5191	50/50	22.5191
936401	AD2-051 C O1	7.0635	50/50	7.0635
936402	AD2-051 E O1	3.0330	50/50	3.0330
938221	AE1-035 C	0.2929	50/50	0.2929
938222	AE1-035 E	0.9144	50/50	0.9144
940491	AE2-034 C	4.9216	50/50	4.9216
940492	AE2-034 E	2.1092	50/50	2.1092
941501	AE2-147 C	4.7988	Adder	5.65
941502	AE2-147 E	3.1992	Adder	3.76
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1051	50/50	0.1051
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.3585	50/50	0.3585
943171	AE2-346 C	0.6572	Adder	0.77
943172	AE2-346 E	0.2817	Adder	0.33
944142	AF1-082 BAT	2.1985	50/50	2.1985
944871	AF1-152 C	1.5996	Adder	1.88
944872	AF1-152 E	1.0664	Adder	1.25

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
945711	AF1-236 C O1	53.8794	50/50	53.8794
945712	AF1-236 E O1	33.2791	50/50	33.2791
957521	AF2-046 C	5.6361	Adder	6.63
957522	AF2-046 E	2.8350	Adder	3.34
957531	AF2-047 C	11.6946	50/50	11.6946
957532	AF2-047 E	5.8824	50/50	5.8824
957861	AF2-080 C	25.3902	50/50	25.3902
957862	AF2-080 E	11.2555	50/50	11.2555
959511	AF2-242 C	11.8260	50/50	11.8260
959512	AF2-242 E	9.1980	50/50	9.1980
961601	AG1-000A BAT	12.2168	50/50	12.2168
961681	AG1-008 C	2.9931	Adder	6.64
961682	AG1-008 E	1.4966	Adder	3.32
961931	AG1-036 C	0.2921	Adder	0.65
961932	AG1-036 E	0.1947	Adder	0.43
961941	AG1-037 C	0.1244	Adder	0.28
961942	AG1-037 E	0.0829	Adder	0.18
962331	AG1-082 C	0.4976	Adder	1.1
962332	AG1-082 E	0.3317	Adder	0.74
962341	AG1-083 C	0.4976	Adder	1.1
962342	AG1-083 E	0.3317	Adder	0.74
962351	AG1-084 C	1.0755	50/50	1.0755
962352	AG1-084 E	0.7170	50/50	0.7170
962361	AG1-085 C	1.0755	50/50	1.0755
962362	AG1-085 E	0.7170	50/50	0.7170
964491	AG1-312 C O1	15.5109	50/50	15.5109
964492	AG1-312 E O1	3.8777	50/50	3.8777
965631	AG1-431	31.1933	50/50	31.1933
965691	AG1-437 C O1	8.2926	50/50	8.2926
965692	AG1-437 E O1	5.5284	50/50	5.5284
965701	AG1-438 C O1	8.2926	50/50	8.2926
965702	AG1-438 E O1	5.5284	50/50	5.5284
965711	AG1-439 C O1	90.5805	50/50	90.5805
965712	AG1-439 E O1	60.3870	50/50	60.3870
965741	AG1-442 O1	4.8373	50/50	4.8373
965751	AG1-443 O1	4.8373	50/50	4.8373
965761	AG1-444 O1	48.3096	50/50	48.3096
966801	AG1-551 C	4.0925	50/50	4.0925
966802	AG1-551 E	1.7539	50/50	1.7539
966931	AG1-431A	23.4360	50/50	23.4360
G-007A	G-007A	0.6329	Confirmed LTF	0.6329
VFT	VFT	1.6899	Confirmed LTF	1.6899
CALDERWOOD	CALDERWOOD	0.6685	Confirmed LTF	0.6685
PRAIRIE	PRAIRIE	2.2885	Confirmed LTF	2.2885
CHEOAH	CHEOAH	0.6852	Confirmed LTF	0.6852
CBM-N	CBM-N	0.3072	Confirmed LTF	0.3072
COTTONWOOD	COTTONWOOD	2.4759	Confirmed LTF	2.4759
HAMLET	HAMLET	1.4767	Confirmed LTF	1.4767
GIBSON	GIBSON	0.4008	Confirmed LTF	0.4008
BLUEG	BLUEG	1.2343	Confirmed LTF	1.2343
TRIMBLE	TRIMBLE	0.3918	Confirmed LTF	0.3918
CATAWBA	CATAWBA	0.7203	Confirmed LTF	0.7203

13.5.5 Index 5

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168525345	313713	6SWAMP	DVP	314648	6SUNBURY	DVP	1	DVP_P1-2: LN 2020	single	984.18	102.91	104.19	DC	12.61

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	0.4266	80/20	0.4266
314582	3KELFORD	0.1925	80/20	0.1925
314589	3MURPHYS	0.0291	80/20	0.0291
314623	3WITAKRS	0.0778	80/20	0.0778
315126	1ROARAP2	0.4164	80/20	0.4164
315128	1ROARAP4	0.3974	80/20	0.3974
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.4174	80/20	3.4174
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.4174	80/20	3.4174
315136	1ROSEMG1	0.7135	80/20	0.7135
315137	1ROSEMS1	0.4424	80/20	0.4424
315138	1ROSEMG2	0.3344	80/20	0.3344
315139	1GASTONA	1.0269	80/20	1.0269
315141	1GASTONB	1.0269	80/20	1.0269
315292	1DOMTR78	2.2301	80/20	2.2301
315293	1DOMTR9	11.5346	80/20	11.5346
315294	1DOMTR10	14.1355	80/20	14.1355
315601	1CONETOE2SOL	0.7028	80/20	0.7028
315602	1HOLLOMANSOL	1.0116	80/20	1.0116
315605	6W1-029WIND	4.4399	80/20	4.4399
315606	3AA2-053SOLA	0.5280	80/20	0.5280
315611	6Z1-036WIND	3.7399	80/20	3.7399
315614	AA2-178 C	3.8465	80/20	3.8465
316020	AB2-059 C OP	0.5947	80/20	0.5947
316140	AB2-099 C (Suspended)	0.3143	80/20	0.3143
920591	AA2-165 C	0.0573	80/20	0.0573
922922	AB1-081 C OP	0.5046	80/20	0.5046
925121	AB2-169 C	1.3763	80/20	1.3763
925591	AC1-034 C	2.4415	80/20	2.4415
926070	AC1-086 C	7.3193	80/20	7.3193
926201	AC1-098 C	2.6606	80/20	2.6606
926211	AC1-099 C	0.8916	80/20	0.8916
927024	AC1-189 C	4.9315	80/20	4.9315
927145	AC1-208 C	3.4265	80/20	3.4265
932631	AC2-084 C	3.7927	80/20	3.7927
933991	AD1-023 C	21.5509	80/20	21.5509
934331	AD1-057 C O1	3.5916	80/20	3.5916
934521	AD1-076 C	106.8508	80/20	106.8508
936401	AD2-051 C O1	6.1811	80/20	6.1811
938221	AE1-035 C	0.2529	80/20	0.2529
940491	AE2-034 C	18.2855	80/20	18.2855

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940571	AE2-044 C	1.5991	80/20	1.5991
941501	AE2-147 C	64.9431	80/20	64.9431
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1031	80/20	0.1031
943171	AE2-346 C	0.7543	80/20	0.7543
944141	AF1-082	1.0280	80/20	1.0280
944871	AF1-152 C	21.6477	80/20	21.6477
945711	AF1-236 C O1	200.1831	80/20	200.1831
957521	AF2-046 C	6.3114	80/20	6.3114
957531	AF2-047 C	43.4499	80/20	43.4499
957861	AF2-080 C	4.4790	80/20	4.4790
959511	AF2-242 C	8.2886	80/20	8.2886
961671	AG1-007 C	0.5973	80/20	0.5973
961681	AG1-008 C	6.3240	80/20	6.3240
961931	AG1-036 C	0.6265	80/20	0.6265
961941	AG1-037 C	0.2694	80/20	0.2694
962331	AG1-082 C	1.0776	80/20	1.0776
962341	AG1-083 C	1.0776	80/20	1.0776
962351	AG1-084 C	1.0558	80/20	1.0558
962361	AG1-085 C	1.0558	80/20	1.0558
962571	AG1-106 C	2.0354	80/20	2.0354
964491	AG1-312 C O1	15.7819	80/20	15.7819
964501	AG1-313 C O2	1.9905	80/20	1.9905
965631	AG1-431	115.8955	80/20	115.8955
965691	AG1-437 C O1	13.9836	80/20	13.9836
965701	AG1-438 C O1	13.9836	80/20	13.9836
965711	AG1-439 C O1	12.6075	80/20	12.6075
965741	AG1-442 O1	8.1571	80/20	8.1571
965751	AG1-443 O1	8.1571	80/20	8.1571
965761	AG1-444 O1	6.7240	80/20	6.7240
966801	AG1-551 C	2.0857	80/20	2.0857
966811	AG1-552 C	0.6611	80/20	0.6611
966931	AG1-431A	87.0740	80/20	87.0740
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2444	Confirmed LTF	0.2444
CPL	CPL	1.4599	Confirmed LTF	1.4599
CBM-W2	CBM-W2	5.2506	Confirmed LTF	5.2506
NY	NY	0.1371	Confirmed LTF	0.1371
TVA	TVA	0.9884	Confirmed LTF	0.9884
SIGE	SIGE	0.0743	Confirmed LTF	0.0743
CBM-S2	CBM-S2	15.6391	Confirmed LTF	15.6391
CBM-S1	CBM-S1	0.2462	Confirmed LTF	0.2462
MEC	MEC	0.7166	Confirmed LTF	0.7166
LAGN	LAGN	1.2338	Confirmed LTF	1.2338
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

13.5.6 Index 6

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168525227	313714	6PERQUIMANS	DVP	314662	6S HERTFORD	DVP	1	DVP_P1-2: LN 2034-E	single	733.2	171.49	172.96	DC	10.72

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	3.8256	80/20	3.8256
315293	1DOMTR9	19.7864	80/20	19.7864
315294	1DOMTR10	24.2480	80/20	24.2480
315601	1CONETOE2SOL	0.5974	80/20	0.5974
315611	6Z1-036WIND	5.2838	80/20	5.2838
315614	AA2-178 C	6.7881	80/20	6.7881
925121	AB2-169 C	2.1975	80/20	2.1975
927024	AC1-189 C	4.3190	80/20	4.3190
934521	AD1-076 C	229.2075	80/20	229.2075
940491	AE2-034 C	32.2690	80/20	32.2690
945711	AF1-236 C O1	353.2690	80/20	353.2690
957531	AF2-047 C	76.6773	80/20	76.6773
957861	AF2-080 C	3.9227	80/20	3.9227
959511	AF2-242 C	12.0236	80/20	12.0236
961671	AG1-007 C	0.4933	80/20	0.4933
965631	AG1-431	204.5241	80/20	204.5241
965711	AG1-439 C O1	10.7160	80/20	10.7160
965761	AG1-444 O1	5.7152	80/20	5.7152
966801	AG1-551 C	2.6173	80/20	2.6173
966931	AG1-431A	153.6620	80/20	153.6620
WEC	WEC	0.0913	Confirmed LTF	0.0913
LGEE	LGEE	0.1860	Confirmed LTF	0.1860
CPL	CPL	1.1568	Confirmed LTF	1.1568
CBM-W2	CBM-W2	4.0499	Confirmed LTF	4.0499
NY	NY	0.1089	Confirmed LTF	0.1089
TVA	TVA	0.7644	Confirmed LTF	0.7644
SIGE	SIGE	0.0575	Confirmed LTF	0.0575
CBM-S2	CBM-S2	12.2670	Confirmed LTF	12.2670
CBM-S1	CBM-S1	0.1904	Confirmed LTF	0.1904
MEC	MEC	0.5498	Confirmed LTF	0.5498
LAGN	LAGN	0.9538	Confirmed LTF	0.9538
CBM-W1	CBM-W1	3.8275	Confirmed LTF	3.8275

13.5.7 Index 7

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163347405	313725	6DRY BREAD	DVP	314563	6CLUBHSE	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	202.55	212.7	DC	46.51

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	1.1200	50/50	1.1200
314541	3WATKINS	0.2783	Adder	0.33
314582	3KELFORD	0.3259	50/50	0.3259
314589	3MURPHYS	0.0637	50/50	0.0637
314594	6PLYMOTH	0.0477	Adder	0.06
314623	3WITAKRS	0.2110	50/50	0.2110
315126	1ROARAP2	1.2790	50/50	1.2790
315128	1ROARAP4	1.2205	50/50	1.2205
315131	1EDGE CMA (Deactivation : 22/04/2019)	13.4543	50/50	13.4543
315132	1EDGE CMB (Deactivation : 22/04/2019)	13.4543	50/50	13.4543
315136	1ROSEMG1	4.2810	50/50	4.2810
315137	1ROSEMS1	2.6547	50/50	2.6547
315138	1ROSEMG2	2.0064	50/50	2.0064
315139	1GASTONA	6.4396	50/50	6.4396
315141	1GASTONB	6.4396	50/50	6.4396
315293	1DOMTR9	3.9847	Adder	4.69
315294	1DOMTR10	4.8833	Adder	5.75
315601	1CONETOE2SOL	1.5555	50/50	1.5555
315602	1HOLLOMANSOL	1.2800	50/50	1.2800
315606	3AA2-053SOLA	1.3751	50/50	1.3751
315607	3AA1-063SOLA	1.1446	50/50	1.1446
316020	AB2-059 C OP	1.7408	50/50	1.7408
316096	AB2-100 C1	3.3890	50/50	3.3890
316097	AB2-100 E1	10.5801	50/50	10.5801
316098	AB2-100 C2	3.3890	50/50	3.3890
316099	AB2-100 E2	10.5801	50/50	10.5801
316103	AB2-015 C	3.2495	Adder	3.82
316104	AB2-015 E	2.6646	Adder	3.13
316129	AC1-054 C	3.7171	Adder	4.37
316140	AB2-099 C (Suspended)	0.5015	50/50	0.5015
316141	AB2-099 E (Suspended)	0.2149	50/50	0.2149
900672	V4-068 E	0.2211	50/50	0.2211
917332	Z2-043 E	0.9722	50/50	0.9722
917342	Z2-044 E	0.5730	50/50	0.5730
917512	Z2-088 E OP1	9.2266	50/50	9.2266
918492	AA1-063AE OP	3.4207	50/50	3.4207
918512	AA1-065 E OP	3.6326	50/50	3.6326
918532	AA1-067 E	0.6273	50/50	0.6273
919692	AA2-053 E OP	3.5786	50/50	3.5786

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
919702	AA2-057 E OP	3.3511	50/50	3.3511
920042	AA2-088 E OP	5.7712	Adder	6.79
920591	AA2-165 C	0.1504	50/50	0.1504
920592	AA2-165 E	0.4606	50/50	0.4606
920692	AA2-178 E	1.8040	Adder	2.12
922922	AB1-081 C OP	1.4770	50/50	1.4770
922923	AB1-081 E OP	4.0123	50/50	4.0123
923262	AB1-132 C OP (Suspended)	31.1690	50/50	31.1690
923263	AB1-132 E OP (Suspended)	13.3582	50/50	13.3582
924152	AB2-059 E OP	5.6841	50/50	5.6841
925121	AB2-169 C	0.7584	50/50	0.7584
925122	AB2-169 E	4.3138	50/50	4.3138
925591	AC1-034 C	7.1469	50/50	7.1469
925592	AC1-034 E	5.3916	50/50	5.3916
925785	AC1-054 E	1.7124	Adder	2.01
926070	AC1-086 C	45.9001	50/50	45.9001
926071	AC1-086 E	20.8907	50/50	20.8907
926201	AC1-098 C	5.8825	50/50	5.8825
926202	AC1-098 E	3.5045	50/50	3.5045
926211	AC1-099 C	1.9713	50/50	1.9713
926212	AC1-099 E	1.1577	50/50	1.1577
927024	AC1-189 C	9.1234	50/50	9.1234
927025	AC1-189 E	4.5446	50/50	4.5446
927145	AC1-208 C	8.7881	50/50	8.7881
927146	AC1-208 E	3.8864	50/50	3.8864
932631	AC2-084 C	8.3857	50/50	8.3857
932632	AC2-084 E	4.1303	50/50	4.1303
933991	AD1-023 C	9.2587	50/50	9.2587
933992	AD1-023 E	5.0405	50/50	5.0405
934331	AD1-057 C O1	18.0112	50/50	18.0112
934332	AD1-057 E O1	9.6079	50/50	9.6079
934521	AD1-076 C	29.3748	Adder	34.56
934522	AD1-076 E	14.9576	Adder	17.6
936401	AD2-051 C O1	8.2336	50/50	8.2336
936402	AD2-051 E O1	3.5354	50/50	3.5354
938221	AE1-035 C	0.3200	50/50	0.3200
938222	AE1-035 E	0.9990	50/50	0.9990
940491	AE2-034 C	3.1570	Adder	3.71
940492	AE2-034 E	1.3530	Adder	1.59
940542	AE2-040 BAT	2.8696	50/50	2.8696
940571	AE2-044 C	4.6810	50/50	4.6810
940572	AE2-044 E	2.0062	50/50	2.0062
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1531	50/50	0.1531
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5226	50/50	0.5226
943171	AE2-346 C	1.2036	50/50	1.2036
943172	AE2-346 E	0.5158	50/50	0.5158
944141	AF1-082	3.0092	50/50	3.0092
945711	AF1-236 C O1	34.5611	Adder	40.66
945712	AF1-236 E O1	21.3470	Adder	25.11

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946012	AF1-266 BAT	15.1801	50/50	15.1801
957521	AF2-046 C	12.8113	50/50	12.8113
957522	AF2-046 E	6.4442	50/50	6.4442
957531	AF2-047 C	7.5015	Adder	8.83
957532	AF2-047 E	3.7733	Adder	4.44
957861	AF2-080 C	8.2862	50/50	8.2862
957862	AF2-080 E	3.6733	50/50	3.6733
959511	AF2-242 C	5.7978	50/50	5.7978
959512	AF2-242 E	4.5094	50/50	4.5094
961091	AF2-400 C	0.1755	Adder	0.21
961092	AF2-400 E	0.2879	Adder	0.34
961671	AG1-007 C	1.5237	50/50	1.5237
961672	AG1-007 E	0.8509	50/50	0.8509
961681	AG1-008 C	12.8370	50/50	12.8370
961682	AG1-008 E	6.4185	50/50	6.4185
961931	AG1-036 C	1.1039	50/50	1.1039
961932	AG1-036 E	0.7360	50/50	0.7360
961941	AG1-037 C	0.4298	50/50	0.4298
961942	AG1-037 E	0.2866	50/50	0.2866
962331	AG1-082 C	1.7194	50/50	1.7194
962332	AG1-082 E	1.1462	50/50	1.1462
962341	AG1-083 C	1.7194	50/50	1.7194
962342	AG1-083 E	1.1462	50/50	1.1462
962351	AG1-084 C	1.5679	50/50	1.5679
962352	AG1-084 E	1.0452	50/50	1.0452
962361	AG1-085 C	1.5679	50/50	1.5679
962362	AG1-085 E	1.0452	50/50	1.0452
962571	AG1-106 C	12.7645	50/50	12.7645
962572	AG1-106 E	5.7885	50/50	5.7885
963312	AG1-180 BAT	1.5599	Merchant Transmission	1.5599
964491	AG1-312 C O1	16.4662	50/50	16.4662
964492	AG1-312 E O1	4.1166	50/50	4.1166
964501	AG1-313 C O2	4.3144	50/50	4.3144
964502	AG1-313 E O2	2.8763	50/50	2.8763
964801	AG1-343 C	4.0533	50/50	4.0533
964802	AG1-343 E	3.1848	50/50	3.1848
965291	AG1-394 C	0.6159	Adder	1.37
965292	AG1-394 E	0.4106	Adder	0.91
965631	AG1-431	10.6048	Adder	23.54
965691	AG1-437 C O1	7.6920	50/50	7.6920
965692	AG1-437 E O1	5.1280	50/50	5.1280
965701	AG1-438 C O1	7.6920	50/50	7.6920
965702	AG1-438 E O1	5.1280	50/50	5.1280
965711	AG1-439 C O1	27.9030	50/50	27.9030
965712	AG1-439 E O1	18.6020	50/50	18.6020
965741	AG1-442 O1	4.4870	50/50	4.4870
965751	AG1-443 O1	4.4870	50/50	4.4870
965761	AG1-444 O1	14.8816	50/50	14.8816
966751	AG1-546 C	4.6133	Adder	10.24
966752	AG1-546 E	2.4753	Adder	5.49
966801	AG1-551 C	1.8735	50/50	1.8735
966802	AG1-551 E	0.8029	50/50	0.8029

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966811	AG1-552 C	2.0307	50/50	2.0307
966812	AG1-552 E	0.8703	50/50	0.8703
966931	AG1-431A	7.9675	Adder	17.69
WEC	WEC	0.1386	Confirmed LTF	0.1386
LGEE	LGEE	0.2840	Confirmed LTF	0.2840
CPL	CPL	1.9410	Confirmed LTF	1.9410
CBM-W2	CBM-W2	6.4512	Confirmed LTF	6.4512
NY	NY	0.2278	Confirmed LTF	0.2278
TVA	TVA	1.2362	Confirmed LTF	1.2362
O-066	O-066	3.1631	Confirmed LTF	3.1631
SIGE	SIGE	0.1008	Confirmed LTF	0.1008
CBM-S2	CBM-S2	20.5459	Confirmed LTF	20.5459
CBM-S1	CBM-S1	0.3059	Confirmed LTF	0.3059
G-007	G-007	0.4967	Confirmed LTF	0.4967
MEC	MEC	0.8533	Confirmed LTF	0.8533
LAGN	LAGN	1.5435	Confirmed LTF	1.5435
CBM-W1	CBM-W1	5.7622	Confirmed LTF	5.7622

13.5.8 Index 8

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
163838168	313845	6HATHAWAY	DVP	304222	6ROCKYMT230T	CPL	1	DVP_P1-2: LN 2181	single	478.0	124.16	133.06	DC	42.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.9769	80/20	4.9769
313719	3CHESTNUT	1.3428	80/20	1.3428
314435	6SAPONY	0.1633	80/20	0.1633
314572	3EMPORIA	0.2896	80/20	0.2896
314582	3KELFORD	0.2906	80/20	0.2906
314589	3MURPHYS	0.0557	80/20	0.0557
314623	3WITAKRS	0.2693	80/20	0.2693
314704	3LAWRENC	0.1555	80/20	0.1555
315115	1S HAMPT1	0.7175	80/20	0.7175
315126	1ROARAP2	1.0817	80/20	1.0817
315128	1ROARAP4	1.0323	80/20	1.0323
315131	1EDGECEMA (Deactivation : 22/04/2019)	25.4510	80/20	25.4510
315132	1EDGECEMB (Deactivation : 22/04/2019)	25.4510	80/20	25.4510
315136	1ROSEMG1	2.6866	80/20	2.6866
315137	1ROSEMS1	1.6660	80/20	1.6660
315138	1ROSEMG2	1.2591	80/20	1.2591
315139	1GASTONA	3.3238	80/20	3.3238
315141	1GASTONB	3.3238	80/20	3.3238
315292	1DOMTR78	0.7947	80/20	0.7947
315293	1DOMTR9	4.1102	80/20	4.1102
315294	1DOMTR10	5.0370	80/20	5.0370
315601	1CONETOE2SOL	2.3712	80/20	2.3712
315602	1HOLLOMANSOL	0.9675	80/20	0.9675
315605	6W1-029WIND	0.3244	80/20	0.3244
315606	3AA2-053SOLA	1.1540	80/20	1.1540
315607	3AA1-063SOLA	0.9931	80/20	0.9931
315608	3AA2-088SOLA	0.6088	80/20	0.6088
315611	6Z1-036WIND	0.3884	80/20	0.3884
315614	AA2-178 C	0.7254	80/20	0.7254
316020	AB2-059 C OP	2.7008	80/20	2.7008
316087	AB2-174 C	0.7985	80/20	0.7985
316096	AB2-100 C1	0.6775	80/20	0.6775
316098	AB2-100 C2	0.6775	80/20	0.6775
316103	AB2-015 C	4.0585	80/20	4.0585
316129	AC1-054 C	3.7242	80/20	3.7242
316140	AB2-099 C (Suspended)	0.4120	80/20	0.4120
920591	AA2-165 C	0.1803	80/20	0.1803
922922	AB1-081 C OP	2.2916	80/20	2.2916
923991	AB2-040 C O1	5.4204	80/20	5.4204
925121	AB2-169 C	0.6730	80/20	0.6730

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925591	AC1-034 C	11.0881	80/20	11.0881
926070	AC1-086 C	23.6910	80/20	23.6910
926201	AC1-098 C	6.0769	80/20	6.0769
926211	AC1-099 C	2.0364	80/20	2.0364
927024	AC1-189 C	12.4064	80/20	12.4064
927145	AC1-208 C	9.3283	80/20	9.3283
932631	AC2-084 C	8.6628	80/20	8.6628
933991	AD1-023 C	7.6814	80/20	7.6814
934331	AD1-057 C O1	20.4104	80/20	20.4104
934521	AD1-076 C	29.9373	80/20	29.9373
936401	AD2-051 C O1	6.1020	80/20	6.1020
938221	AE1-035 C	0.2419	80/20	0.2419
938771	AE1-103 C	1.4969	80/20	1.4969
940481	AE2-033 C	7.2695	80/20	7.2695
940491	AE2-034 C	3.4486	80/20	3.4486
940541	AE2-040	1.1775	80/20	1.1775
940571	AE2-044 C	7.2624	80/20	7.2624
941501	AE2-147 C	4.7457	80/20	4.7457
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1236	80/20	0.1236
942471	AE2-260 C O1	9.9463	80/20	9.9463
943171	AE2-346 C	0.9888	80/20	0.9888
943911	AF1-059	6.8508	80/20	6.8508
944141	AF1-082	4.6687	80/20	4.6687
944871	AF1-152 C	1.5819	80/20	1.5819
945711	AF1-236 C O1	37.7542	80/20	37.7542
946011	AF1-266	6.0852	80/20	6.0852
946281	AF1-292 C	1.0047	80/20	1.0047
957521	AF2-046 C	11.0658	80/20	11.0658
957531	AF2-047 C	8.1946	80/20	8.1946
957861	AF2-080 C	11.2680	80/20	11.2680
959511	AF2-242 C	5.1822	80/20	5.1822
960081	AF2-299 C	1.6934	80/20	1.6934
961091	AF2-400 C	0.2192	80/20	0.2192
961671	AG1-007 C	2.4920	80/20	2.4920
961681	AG1-008 C	11.0880	80/20	11.0880
961851	AG1-027 C	5.3990	80/20	5.3990
961931	AG1-036 C	0.9275	80/20	0.9275
961941	AG1-037 C	0.3532	80/20	0.3532
962271	AG1-075 C O2	7.6126	80/20	7.6126
962331	AG1-082 C	1.4126	80/20	1.4126
962341	AG1-083 C	1.4126	80/20	1.4126
962351	AG1-084 C	1.2651	80/20	1.2651
962361	AG1-085 C	1.2651	80/20	1.2651
962571	AG1-106 C	6.5883	80/20	6.5883
963301	AG1-179 C	2.7897	80/20	2.7897
963311	AG1-180	1.3592	80/20	1.3592
964491	AG1-312 C O1	12.5787	80/20	12.5787
964501	AG1-313 C O2	3.5836	80/20	3.5836
964801	AG1-343 C	3.6792	80/20	3.6792
965291	AG1-394 C	1.2510	80/20	1.2510
965451	AG1-413 C O2	2.7535	80/20	2.7535

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965601	AG1-428 C O2	2.3289	80/20	2.3289
965631	AG1-431	21.8577	80/20	21.8577
965691	AG1-437 C O1	6.1932	80/20	6.1932
965701	AG1-438 C O1	6.1932	80/20	6.1932
965711	AG1-439 C O1	42.5370	80/20	42.5370
965721	AG1-440 C	2.5713	80/20	2.5713
965731	AG1-441 C	2.5713	80/20	2.5713
965741	AG1-442 O1	3.6127	80/20	3.6127
965751	AG1-443 O1	3.6127	80/20	3.6127
965761	AG1-444 O1	22.6864	80/20	22.6864
965771	AG1-445	1.4856	80/20	1.4856
965781	AG1-446	1.4856	80/20	1.4856
966621	AG1-532 C	0.9144	80/20	0.9144
966751	AG1-546 C	8.7116	80/20	8.7116
966801	AG1-551 C	1.6845	80/20	1.6845
966811	AG1-552 C	1.7175	80/20	1.7175
966931	AG1-431A	16.4220	80/20	16.4220
G-007A	G-007A	0.8583	Confirmed LTF	0.8583
VFT	VFT	2.2898	Confirmed LTF	2.2898
CALDERWOOD	CALDERWOOD	1.0815	Confirmed LTF	1.0815
PRAIRIE	PRAIRIE	3.7557	Confirmed LTF	3.7557
CHEOAH	CHEOAH	1.1081	Confirmed LTF	1.1081
CBM-N	CBM-N	0.4152	Confirmed LTF	0.4152
COTTONWOOD	COTTONWOOD	4.0047	Confirmed LTF	4.0047
HAMLET	HAMLET	2.3123	Confirmed LTF	2.3123
GIBSON	GIBSON	0.6656	Confirmed LTF	0.6656
BLUEG	BLUEG	2.0572	Confirmed LTF	2.0572
TRIMBLE	TRIMBLE	0.6533	Confirmed LTF	0.6533
CATAWBA	CATAWBA	1.1602	Confirmed LTF	1.1602

13.5.9 Index 9

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174304478	313851	6ECITYDP2	DVP	314638	6ELIZ CT	DVP	1	DVP_P4-2: 246T247	breaker	1204.0	164.36	166.98	DC	31.6

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314582	3KELFORD	0.3274	50/50	0.3274
314589	3MURPHYS	0.0528	50/50	0.0528
314594	6PLYMOTH	0.2090	50/50	0.2090
314639	6TANGLEW	1.6344	50/50	1.6344
315292	1DOMTR78	2.5848	50/50	2.5848
315293	1DOMTR9	13.3689	50/50	13.3689
315294	1DOMTR10	16.3835	50/50	16.3835
315601	1CONETOE2SOL	1.0568	50/50	1.0568
315602	1HOLLOMANSOL	1.7275	50/50	1.7275
315605	6W1-029WIND	4.1557	50/50	4.1557
315606	3AA2-053SOLA	0.9032	50/50	0.9032
315611	6Z1-036WIND	3.7364	50/50	3.7364
315614	AA2-178 C	4.0828	50/50	4.0828
316140	AB2-099 C (Suspended)	0.5434	50/50	0.5434
316141	AB2-099 E (Suspended)	0.2329	50/50	0.2329
900672	V4-068 E	0.1835	50/50	0.1835
901082	W1-029 E	176.2794	50/50	176.2794
916042	Z1-036 E (Suspended)	158.6744	50/50	158.6744
917122	Z2-027 E	4.4397	50/50	4.4397
917332	Z2-043 E	0.9765	50/50	0.9765
917342	Z2-044 E	0.2876	Adder	0.34
917512	Z2-088 E OP1	6.2689	50/50	6.2689
918512	AA1-065 E OP	4.9027	50/50	4.9027
918532	AA1-067 E	0.7268	50/50	0.7268
919692	AA2-053 E OP	2.3506	50/50	2.3506
919702	AA2-057 E OP	1.7609	Adder	2.07
920592	AA2-165 E	0.2420	Adder	0.28
920692	AA2-178 E	11.0906	50/50	11.0906
923262	AB1-132 C OP (Suspended)	7.0872	Adder	8.34
923263	AB1-132 E OP (Suspended)	3.0374	Adder	3.57
925121	AB2-169 C	1.6676	50/50	1.6676
925122	AB2-169 E	9.4857	50/50	9.4857
926070	AC1-086 C	10.4367	Adder	12.28
926071	AC1-086 E	4.7501	Adder	5.59
926201	AC1-098 C	4.4439	50/50	4.4439
926202	AC1-098 E	2.6475	50/50	2.6475
926211	AC1-099 C	1.4892	50/50	1.4892
926212	AC1-099 E	0.8746	50/50	0.8746
927024	AC1-189 C	7.3591	50/50	7.3591
927025	AC1-189 E	3.6657	50/50	3.6657

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
927145	AC1-208 C	5.6796	50/50	5.6796
927146	AC1-208 E	2.5117	50/50	2.5117
932631	AC2-084 C	6.3350	50/50	6.3350
932632	AC2-084 E	3.1202	50/50	3.1202
933991	AD1-023 C	25.7335	50/50	25.7335
933992	AD1-023 E	14.0093	50/50	14.0093
934331	AD1-057 C O1	4.9218	Adder	5.79
934332	AD1-057 E O1	2.6255	Adder	3.09
934521	AD1-076 C	120.6153	50/50	120.6153
934522	AD1-076 E	61.4171	50/50	61.4171
936401	AD2-051 C O1	10.5528	50/50	10.5528
936402	AD2-051 E O1	4.5313	50/50	4.5313
938221	AE1-035 C	0.4319	50/50	0.4319
938222	AE1-035 E	1.3482	50/50	1.3482
940491	AE2-034 C	19.4086	50/50	19.4086
940492	AE2-034 E	8.3180	50/50	8.3180
941501	AE2-147 C	60.7860	50/50	60.7860
941502	AE2-147 E	40.5240	50/50	40.5240
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1767	50/50	0.1767
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.6028	50/50	0.6028
943171	AE2-346 C	1.3043	50/50	1.3043
943172	AE2-346 E	0.5590	50/50	0.5590
944871	AF1-152 C	20.2620	50/50	20.2620
944872	AF1-152 E	13.5080	50/50	13.5080
945711	AF1-236 C O1	212.4782	50/50	212.4782
945712	AF1-236 E O1	131.2392	50/50	131.2392
957521	AF2-046 C	11.3123	50/50	11.3123
957522	AF2-046 E	5.6902	50/50	5.6902
957531	AF2-047 C	46.1186	50/50	46.1186
957532	AF2-047 E	23.1979	50/50	23.1979
957821	AF2-076 C	6.1275	50/50	6.1275
957822	AF2-076 E	4.0850	50/50	4.0850
957861	AF2-080 C	6.6838	50/50	6.6838
957862	AF2-080 E	2.9629	50/50	2.9629
959511	AF2-242 C	10.4908	50/50	10.4908
959512	AF2-242 E	8.1595	50/50	8.1595
961671	AG1-007 C	0.9044	50/50	0.9044
961672	AG1-007 E	0.5051	50/50	0.5051
961681	AG1-008 C	11.3350	50/50	11.3350
961682	AG1-008 E	5.6675	50/50	5.6675
961931	AG1-036 C	1.0986	50/50	1.0986
961932	AG1-036 E	0.7324	50/50	0.7324
961941	AG1-037 C	0.4658	50/50	0.4658
961942	AG1-037 E	0.3105	50/50	0.3105
962331	AG1-082 C	1.8632	50/50	1.8632
962332	AG1-082 E	1.2422	50/50	1.2422
962341	AG1-083 C	1.8632	50/50	1.8632
962342	AG1-083 E	1.2422	50/50	1.2422
962351	AG1-084 C	1.8085	50/50	1.8085
962352	AG1-084 E	1.2057	50/50	1.2057
962361	AG1-085 C	1.8085	50/50	1.8085

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962362	AG1-085 E	1.2057	50/50	1.2057
962571	AG1-106 C	1.5383	Adder	3.41
962572	AG1-106 E	0.6976	Adder	1.55
964491	AG1-312 C O1	24.7968	50/50	24.7968
964492	AG1-312 E O1	6.1992	50/50	6.1992
964501	AG1-313 C O2	3.4069	50/50	3.4069
964502	AG1-313 E O2	2.2713	50/50	2.2713
965631	AG1-431	123.0137	50/50	123.0137
965691	AG1-437 C O1	17.7330	50/50	17.7330
965692	AG1-437 E O1	11.8220	50/50	11.8220
965701	AG1-438 C O1	17.7330	50/50	17.7330
965702	AG1-438 E O1	11.8220	50/50	11.8220
965711	AG1-439 C O1	18.9585	50/50	18.9585
965712	AG1-439 E O1	12.6390	50/50	12.6390
965741	AG1-442 O1	10.3442	50/50	10.3442
965751	AG1-443 O1	10.3442	50/50	10.3442
965761	AG1-444 O1	10.1112	50/50	10.1112
966491	AG1-518 O2	33.7695	50/50	33.7695
966801	AG1-551 C	2.7908	50/50	2.7908
966802	AG1-551 E	1.1960	50/50	1.1960
966931	AG1-431A	92.4220	50/50	92.4220
WEC	WEC	0.1909	Confirmed LTF	0.1909
LGEE	LGEE	0.3895	Confirmed LTF	0.3895
CPL	CPL	2.2393	Confirmed LTF	2.2393
CBM-W2	CBM-W2	8.2432	Confirmed LTF	8.2432
NY	NY	0.1969	Confirmed LTF	0.1969
TVA	TVA	1.5428	Confirmed LTF	1.5428
O-066	O-066	2.8401	Confirmed LTF	2.8401
SIGE	SIGE	0.1138	Confirmed LTF	0.1138
CBM-S2	CBM-S2	24.1060	Confirmed LTF	24.1060
CBM-S1	CBM-S1	0.3857	Confirmed LTF	0.3857
G-007	G-007	0.4463	Confirmed LTF	0.4463
MEC	MEC	1.1361	Confirmed LTF	1.1361
LAGN	LAGN	1.9250	Confirmed LTF	1.9250
AA2-074	AA2-074	1.4791	LTF	1.4791
CBM-W1	CBM-W1	8.0475	Confirmed LTF	8.0475

13.5.10 Index 10

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168525252	313885	6WALBMRL	DVP	313714	6PERQUIMANS	DVP	1	DVP_P1-2: LN 2034-E	single	733.2	166.46	167.93	DC	10.75

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	3.8272	80/20	3.8272
315293	1DOMTR9	19.7949	80/20	19.7949
315294	1DOMTR10	24.2585	80/20	24.2585
315601	1CONETOE2SOL	0.5991	80/20	0.5991
315614	AA2-178 C	6.7899	80/20	6.7899
925121	AB2-169 C	2.1988	80/20	2.1988
927024	AC1-189 C	4.3302	80/20	4.3302
934521	AD1-076 C	229.2748	80/20	229.2748
940491	AE2-034 C	32.2774	80/20	32.2774
945711	AF1-236 C O1	353.3609	80/20	353.3609
957531	AF2-047 C	76.6973	80/20	76.6973
957861	AF2-080 C	3.9329	80/20	3.9329
959511	AF2-242 C	12.0326	80/20	12.0326
961671	AG1-007 C	0.4949	80/20	0.4949
965631	AG1-431	204.5774	80/20	204.5774
965711	AG1-439 C O1	10.7475	80/20	10.7475
965761	AG1-444 O1	5.7320	80/20	5.7320
966801	AG1-551 C	2.6202	80/20	2.6202
966931	AG1-431A	153.7020	80/20	153.7020
WEC	WEC	0.0980	Confirmed LTF	0.0980
LGEE	LGEE	0.1992	Confirmed LTF	0.1992
CPL	CPL	1.1712	Confirmed LTF	1.1712
CBM-W2	CBM-W2	4.2381	Confirmed LTF	4.2381
NY	NY	0.0973	Confirmed LTF	0.0973
TVA	TVA	0.7938	Confirmed LTF	0.7938
SIGE	SIGE	0.0575	Confirmed LTF	0.0575
CBM-S2	CBM-S2	12.4862	Confirmed LTF	12.4862
CBM-S1	CBM-S1	0.1984	Confirmed LTF	0.1984
MEC	MEC	0.5832	Confirmed LTF	0.5832
LAGN	LAGN	0.9905	Confirmed LTF	0.9905
CBM-W1	CBM-W1	4.1219	Confirmed LTF	4.1219

13.5.11 Index 11

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168830387	314203	6MACKEYS	DVP	314637	6EDENTON	DVP	1	DVP_P1-2: LN 2034-E	single	731.32	166.87	168.34	DC	10.75

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	3.8272	80/20	3.8272
315293	1DOMTR9	19.7949	80/20	19.7949
315294	1DOMTR10	24.2585	80/20	24.2585
315601	1CONETOE2SOL	0.5991	80/20	0.5991
315614	AA2-178 C	6.7899	80/20	6.7899
925121	AB2-169 C	2.1988	80/20	2.1988
927024	AC1-189 C	4.3302	80/20	4.3302
934521	AD1-076 C	229.2748	80/20	229.2748
940491	AE2-034 C	32.2774	80/20	32.2774
945711	AF1-236 C O1	353.3609	80/20	353.3609
957531	AF2-047 C	76.6973	80/20	76.6973
957861	AF2-080 C	3.9329	80/20	3.9329
959511	AF2-242 C	12.0326	80/20	12.0326
961671	AG1-007 C	0.4949	80/20	0.4949
965631	AG1-431	204.5774	80/20	204.5774
965711	AG1-439 C O1	10.7475	80/20	10.7475
965761	AG1-444 O1	5.7320	80/20	5.7320
966801	AG1-551 C	2.6202	80/20	2.6202
966931	AG1-431A	153.7020	80/20	153.7020
WEC	WEC	0.0980	Confirmed LTF	0.0980
LGEE	LGEE	0.1992	Confirmed LTF	0.1992
CPL	CPL	1.1712	Confirmed LTF	1.1712
CBM-W2	CBM-W2	4.2381	Confirmed LTF	4.2381
NY	NY	0.0973	Confirmed LTF	0.0973
TVA	TVA	0.7938	Confirmed LTF	0.7938
SIGE	SIGE	0.0575	Confirmed LTF	0.0575
CBM-S2	CBM-S2	12.4862	Confirmed LTF	12.4862
CBM-S1	CBM-S1	0.1984	Confirmed LTF	0.1984
MEC	MEC	0.5832	Confirmed LTF	0.5832
LAGN	LAGN	0.9905	Confirmed LTF	0.9905
CBM-W1	CBM-W1	4.1219	Confirmed LTF	4.1219

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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
174479047	314225	6CHARCTY	DVP	314227	6LAKESIDE	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	113.67	114.23	DC	14.73

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.7263	Adder	3.21
314314	3LOCKS	0.2012	50/50	0.2012
314331	6POE	2.0012	50/50	2.0012
314435	6SAPONY	0.2568	50/50	0.2568
314525	6KINGFORK	1.2149	Adder	1.43
314539	3UNCAMP	2.0212	Adder	2.38
314541	3WATKINS	0.2315	Adder	0.27
314572	3EMPORIA	0.1785	Adder	0.21
314594	6PLYMOTH	0.0275	Adder	0.03
315065	1CHESTF6 (Deactivation : 31/05/2023)	156.9123	50/50	156.9123
315073	1STONECA	4.7681	50/50	4.7681
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0124	50/50	0.0124
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0124	50/50	0.0124
315076	1HOPPOLC	1.0402	50/50	1.0402
315077	1HOPHCF1	1.6260	50/50	1.6260
315078	1HOPHCF2	1.6260	50/50	1.6260
315079	1HOPHCF3	1.6260	50/50	1.6260
315080	1HOPHCF4	2.4684	50/50	2.4684
315131	1EDGECEMA (Deactivation : 22/04/2019)	2.9235	Adder	3.44
315132	1EDGECEMB (Deactivation : 22/04/2019)	2.9235	Adder	3.44
315293	1DOMTR9	2.0801	Adder	2.45
315294	1DOMTR10	2.5492	Adder	3.0
316083	AB2-161 C	2.3385	50/50	2.3385
316084	AB2-161 E	3.8155	50/50	3.8155
316088	AB2-174 E	2.6186	Adder	3.08
316097	AB2-100 E1	1.3520	Adder	1.59
316099	AB2-100 E2	1.3520	Adder	1.59
316103	AB2-015 C	2.8909	Adder	3.4
316104	AB2-015 E	2.3705	Adder	2.79
316108	AB2-160 C	3.8766	50/50	3.8766
316109	AB2-160 E	6.3250	50/50	6.3250
316129	AC1-054 C	2.3561	Adder	2.77
316132	AB2-190 C	11.5002	50/50	11.5002
316140	AB2-099 C (Suspended)	0.1944	Adder	0.23
316141	AB2-099 E (Suspended)	0.0833	Adder	0.1
316151	AD2-215 E (Withdrawn : 01/14/2021)	0.2600	Adder	0.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
900672	V4-068 E	0.1012	Adder	0.12
916042	Z1-036 E (Suspended)	12.8821	Adder	15.16
917332	Z2-043 E	0.3513	Adder	0.41
917342	Z2-044 E	0.1858	Adder	0.22
917512	Z2-088 E OP1	2.4845	Adder	2.92
918492	AA1-063AE OP	1.4304	Adder	1.68
918512	AA1-065 E OP	1.2938	Adder	1.52
918532	AA1-067 E	0.2240	Adder	0.26
919692	AA2-053 E OP	1.3395	Adder	1.58
919702	AA2-057 E OP	1.1150	Adder	1.31
920042	AA2-088 E OP	3.6052	Adder	4.24
920592	AA2-165 E	0.1532	Adder	0.18
920692	AA2-178 E	1.2140	Adder	1.43
922923	AB1-081 E OP	1.2079	Adder	1.42
923262	AB1-132 C OP (Suspended)	5.5435	Adder	6.52
923263	AB1-132 E OP (Suspended)	2.3758	Adder	2.8
923573	AB1-173 E OP	0.4251	Adder	0.5
923852	AB2-025 E	0.7314	50/50	0.7314
923991	AB2-040 C O1	2.9692	Adder	3.49
923992	AB2-040 E O1	2.4293	Adder	2.86
924152	AB2-059 E OP	1.7112	Adder	2.01
924814	AB2-134 E	5.8276	Adder	6.86
925122	AB2-169 E	1.7698	Adder	2.08
925332	AB2-190 E	4.9286	50/50	4.9286
925591	AC1-034 C	2.1515	Adder	2.53
925592	AC1-034 E	1.6231	Adder	1.91
925785	AC1-054 E	1.0854	Adder	1.28
926070	AC1-086 C	8.1635	Adder	9.6
926071	AC1-086 E	3.7155	Adder	4.37
926201	AC1-098 C	2.0563	Adder	2.42
926202	AC1-098 E	1.2250	Adder	1.44
926211	AC1-099 C	0.6891	Adder	0.81
926212	AC1-099 E	0.4047	Adder	0.48
927024	AC1-189 C	2.6689	Adder	3.14
927025	AC1-189 E	1.3295	Adder	1.56
927145	AC1-208 C	3.0613	Adder	3.6
927146	AC1-208 E	1.3538	Adder	1.59
927226	AC1-216 E	3.5576	Adder	4.19
932581	AC2-078 C O1	2.8468	50/50	2.8468
932582	AC2-078 E O1	4.6448	50/50	4.6448
932591	AC2-079 C O1	2.6697	Adder	3.14
932592	AC2-079 E O1	4.3559	Adder	5.12
932631	AC2-084 C	2.9313	Adder	3.45
932632	AC2-084 E	1.4438	Adder	1.7
933991	AD1-023 C	4.0413	Adder	4.75
933992	AD1-023 E	2.2001	Adder	2.59
934014	AD1-025 C	7.7756	Adder	9.15
934015	AD1-025 E	4.6059	Adder	5.42
934331	AD1-057 C O1	3.5098	Adder	4.13
934332	AD1-057 E O1	1.8723	Adder	2.2
934521	AD1-076 C	16.4647	Adder	19.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934522	AD1-076 E	8.3838	Adder	9.86
934575	AD1-082 C	5.3294	50/50	5.3294
934576	AD1-082 E	3.0401	50/50	3.0401
935112	AD1-144 E	0.2650	Adder	0.31
935164	AD1-151 C	9.2412	50/50	9.2412
935165	AD1-151 E	6.1608	50/50	6.1608
936041	AD2-007 C	0.3714	Adder	0.44
936042	AD2-007 E	0.2559	Adder	0.3
936051	AD2-008 C	1.3537	Adder	1.59
936052	AD2-008 E	2.9468	Adder	3.47
936401	AD2-051 C O1	2.8417	Adder	3.34
936402	AD2-051 E O1	1.2202	Adder	1.44
936661	AD2-085 C	1.3930	Adder	1.64
936662	AD2-085 E	2.2727	Adder	2.67
938222	AE1-035 E	0.3558	Adder	0.42
938494	AE1-068_C1	9.7738	Adder	11.5
938497	AE1-068_C2	9.7738	Adder	11.5
938498	AE1-068_E1	5.4029	Adder	6.36
938499	AE1-068_E2	5.4029	Adder	6.36
938504	AE1-069_C1	7.4487	Adder	8.76
938507	AE1-069_C2	8.0315	Adder	9.45
938508	AE1-069_E1	4.2373	Adder	4.99
938509	AE1-069_E2	4.5652	Adder	5.37
938634	AE1-085 C	6.3190	50/50	6.3190
938635	AE1-085 E	3.1595	50/50	3.1595
938771	AE1-103 C	1.2109	Adder	1.42
938772	AE1-103 E	1.6723	Adder	1.97
939195	AE1-149 C	8.0406	50/50	8.0406
939196	AE1-149 E	5.3604	50/50	5.3604
939312	AE1-162 E	0.4587	Adder	0.54
939414	AE1-173_C1	9.4219	Adder	11.08
939415	AE1-173_C2	8.0760	Adder	9.5
939416	AE1-173_C3	9.4219	Adder	11.08
939423	AE1-173_E1	6.2813	Adder	7.39
939424	AE1-173_E2	5.3840	Adder	6.33
939425	AE1-173_E3	6.2813	Adder	7.39
940061	AE2-000BC O1	7.2048	50/50	7.2048
940062	AE2-000BE O1	4.8032	50/50	4.8032
940431	AE2-027 C O1	5.5588	Adder	6.54
940432	AE2-027 E O1	3.7059	Adder	4.36
940471	AE2-031 C	10.6444	Adder	12.52
940472	AE2-031 E	7.0962	Adder	8.35
940481	AE2-033 C	10.2466	50/50	10.2466
940482	AE2-033 E	6.9078	50/50	6.9078
940491	AE2-034 C	2.1245	Adder	2.5
940492	AE2-034 E	0.9105	Adder	1.07
940541	AE2-040	1.8521	50/50	1.8521
940571	AE2-044 C	1.4092	Adder	1.66
940572	AE2-044 E	0.6039	Adder	0.71
940651	AE2-052	2.6802	50/50	2.6802
940891	AE2-078 C	0.7878	Adder	0.93
940892	AE2-078 E	0.4058	Adder	0.48

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940901	AE2-079 C	0.7878	Adder	0.93
940902	AE2-079 E	0.4058	Adder	0.48
941031	AE2-094 C	12.8127	Adder	15.07
941032	AE2-094 E	5.7385	Adder	6.75
941101	AE2-104 C O1	1.0833	Adder	1.27
941102	AE2-104 E O1	1.7223	Adder	2.03
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.1925	Adder	0.23
942001	AE2-212 C	2.3618	50/50	2.3618
942002	AE2-212 E	1.5746	50/50	1.5746
942161	AE2-228 C	2.6699	50/50	2.6699
942162	AE2-228 E	1.7799	50/50	1.7799
942341	AE2-247 C	0.6055	Adder	0.71
942342	AE2-247 E	0.8361	Adder	0.98
942371	AE2-250 C O1	6.8861	50/50	6.8861
942372	AE2-250 E O1	3.6343	50/50	3.6343
942471	AE2-260 C O1	6.9416	Adder	8.17
942472	AE2-260 E O1	9.8459	Adder	11.58
942551	AE2-270	12.7015	Adder	14.94
942931	AE2-313 C	11.5061	Adder	13.54
942932	AE2-313 E	7.6707	Adder	9.02
943171	AE2-346 C	0.4666	Adder	0.55
943172	AE2-346 E	0.2000	Adder	0.24
943461	AF1-017 C	0.5478	Adder	0.64
943462	AF1-017 E	0.8938	Adder	1.05
943621	AF1-033 C	0.7878	Adder	0.93
943622	AF1-033 E	0.4058	Adder	0.48
943911	AF1-059	5.6722	Adder	6.67
944011	AF1-069 C	4.1864	Adder	4.93
944012	AF1-069 E	1.6263	Adder	1.91
944141	AF1-082	0.9059	Adder	1.07
944641	AF1-129	131.6666	50/50	131.6666
945711	AF1-236 C O1	23.2583	Adder	27.36
945712	AF1-236 E O1	14.3657	Adder	16.9
945811	AF1-246 C O1	2.1691	Adder	2.55
945812	AF1-246 E O1	2.9955	Adder	3.52
946002	AF1-265 BAT	10.1595	Merchant Transmission	10.1595
946011	AF1-266	8.5772	50/50	8.5772
946261	AF1-291 C	2.6872	50/50	2.6872
946262	AF1-291 E	1.7914	50/50	1.7914
946281	AF1-292 C	0.6492	Adder	0.76
946282	AF1-292 E	0.4377	Adder	0.51
957481	AF2-042 C	15.4938	Adder	18.23
957482	AF2-042 E	10.3292	Adder	12.15
957521	AF2-046 C	5.6777	Adder	6.68
957522	AF2-046 E	2.8559	Adder	3.36
957531	AF2-047 C	5.0482	Adder	5.94
957532	AF2-047 E	2.5393	Adder	2.99
957711	AF2-065 C	6.4778	Adder	7.62
957712	AF2-065 E	6.2238	Adder	7.32
957821	AF2-076 C	1.4895	Adder	1.75
957822	AF2-076 E	0.9930	Adder	1.17

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957861	AF2-080 C	2.4240	Adder	2.85
957862	AF2-080 E	1.0746	Adder	1.26
958141	AF2-108	1.6774	50/50	1.6774
958161	AF2-110 C	0.4466	Adder	0.53
958162	AF2-110 E	0.6985	Adder	0.82
959511	AF2-242 C	2.2633	Adder	2.66
959512	AF2-242 E	1.7603	Adder	2.07
959651	AF2-256 C	0.6675	50/50	0.6675
959652	AF2-256 E	0.4450	50/50	0.4450
959661	AF2-257 C	0.6718	50/50	0.6718
959662	AF2-257 E	0.4479	50/50	0.4479
959671	AF2-258 C	0.5905	50/50	0.5905
959672	AF2-258 E	0.3936	50/50	0.3936
959681	AF2-259 C	2.5161	50/50	2.5161
959682	AF2-259 E	1.6774	50/50	1.6774
960081	AF2-299 C	1.0942	Adder	1.29
960082	AF2-299 E	0.7295	Adder	0.86
961091	AF2-400 C	0.1561	Adder	0.18
961092	AF2-400 E	0.2561	Adder	0.3
961671	AG1-007 C	0.2047	Adder	0.45
961672	AG1-007 E	0.1143	Adder	0.25
961681	AG1-008 C	3.0152	Adder	6.69
961682	AG1-008 E	1.5076	Adder	3.35
961711	AG1-011	6.9997	Adder	15.54
961851	AG1-027 C	2.9397	Adder	6.53
961852	AG1-027 E	1.6250	Adder	3.61
961931	AG1-036 C	0.2412	Adder	0.54
961932	AG1-036 E	0.1608	Adder	0.36
961941	AG1-037 C	0.0883	Adder	0.2
961942	AG1-037 E	0.0589	Adder	0.13
962271	AG1-075 C O2	10.7301	50/50	10.7301
962272	AG1-075 E O2	6.5394	50/50	6.5394
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.3796	Adder	0.84
962322	AG1-081 E (Withdrawn : 01/15/2021)	0.2530	Adder	0.56
962331	AG1-082 C	0.3533	Adder	0.78
962332	AG1-082 E	0.2355	Adder	0.52
962341	AG1-083 C	0.3533	Adder	0.78
962342	AG1-083 E	0.2355	Adder	0.52
962351	AG1-084 C	0.3061	Adder	0.68
962352	AG1-084 E	0.2041	Adder	0.45
962361	AG1-085 C	0.3061	Adder	0.68
962362	AG1-085 E	0.2041	Adder	0.45
962571	AG1-106 C	1.2032	Adder	2.67
962572	AG1-106 E	0.5456	Adder	1.21
963041	AG1-153 C	0.9424	Adder	2.09
963042	AG1-153 E	1.4136	Adder	3.14
963111	AG1-160 C	0.9555	Adder	2.12
963112	AG1-160 E	1.4333	Adder	3.18
963221	AG1-171 C	1.2322	50/50	1.2322
963222	AG1-171 E	0.8214	50/50	0.8214
963231	AG1-172 C	1.2322	50/50	1.2322

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963232	AG1-172 E	0.8214	50/50	0.8214
963241	AG1-173 C	1.2322	50/50	1.2322
963242	AG1-173 E	0.8214	50/50	0.8214
963251	AG1-174 C	1.2322	50/50	1.2322
963252	AG1-174 E	0.8214	50/50	0.8214
963261	AG1-175 C	1.2322	50/50	1.2322
963262	AG1-175 E	0.8214	50/50	0.8214
963291	AG1-178 C O2	10.5398	Adder	23.4
963301	AG1-179 C	1.1088	Adder	2.46
963311	AG1-180	0.5402	Adder	1.2
963351	AG1-184 O2	5.6782	Adder	12.6
964241	AG1-285 C O2	2.0867	Adder	4.63
964242	AG1-285 E O2	1.3911	Adder	3.09
964491	AG1-312 C O1	3.1848	Adder	7.07
964492	AG1-312 E O1	0.7962	Adder	1.77
964501	AG1-313 C O2	0.8523	Adder	1.89
964502	AG1-313 E O2	0.5682	Adder	1.26
964801	AG1-343 C	1.0763	Adder	2.39
964802	AG1-343 E	0.8457	Adder	1.88
965291	AG1-394 C	0.3701	Adder	0.82
965292	AG1-394 E	0.2467	Adder	0.55
965451	AG1-413 C O2	1.2397	Adder	2.75
965452	AG1-413 E O2	0.8265	Adder	1.83
965601	AG1-428 C O2	0.9256	Adder	2.05
965602	AG1-428 E O2	0.6160	Adder	1.37
965631	AG1-431	7.1366	Adder	15.84
965691	AG1-437 C O1	1.6710	Adder	3.71
965692	AG1-437 E O1	1.1140	Adder	2.47
965701	AG1-438 C O1	1.6710	Adder	3.71
965702	AG1-438 E O1	1.1140	Adder	2.47
965711	AG1-439 C O1	3.9822	Adder	8.84
965712	AG1-439 E O1	2.6548	Adder	5.89
965741	AG1-442 O1	0.9747	Adder	2.16
965751	AG1-443 O1	0.9747	Adder	2.16
965761	AG1-444 O1	2.1238	Adder	4.71
965811	AG1-449	3.9555	Adder	8.78
966361	AG1-505 C	2.7518	Adder	6.11
966362	AG1-505 E	1.8345	Adder	4.07
966371	AG1-506 C	2.7518	Adder	6.11
966372	AG1-506 E	1.8345	Adder	4.07
966611	AG1-531 C	0.9442	Adder	2.1
966612	AG1-531 E	0.6295	Adder	1.4
966621	AG1-532 C	0.3132	Adder	0.7
966622	AG1-532 E	0.2088	Adder	0.46
966731	AG1-544 C	4.9351	50/50	4.9351
966732	AG1-544 E	2.6477	50/50	2.6477
966741	AG1-545 C	1.6362	50/50	1.6362
966742	AG1-545 E	0.8772	50/50	0.8772
966751	AG1-546 C	2.7807	Adder	6.17
966752	AG1-546 E	1.4921	Adder	3.31
966801	AG1-551 C	0.3713	Adder	0.82
966802	AG1-551 E	0.1591	Adder	0.35

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966811	AG1-552 C	0.4042	Adder	0.9
966812	AG1-552 E	0.1732	Adder	0.38
966931	AG1-431A	5.3619	Adder	11.9
WEC	WEC	0.2233	Confirmed LTF	0.2233
LGEE	LGEE	0.4624	Confirmed LTF	0.4624
CPL	CPL	2.8058	Confirmed LTF	2.8058
CBM-W2	CBM-W2	10.6714	Confirmed LTF	10.6714
NY	NY	0.4883	Confirmed LTF	0.4883
TVA	TVA	2.0664	Confirmed LTF	2.0664
O-066	O-066	6.6963	Confirmed LTF	6.6963
SIGE	SIGE	0.1884	Confirmed LTF	0.1884
CBM-S2	CBM-S2	32.9069	Confirmed LTF	32.9069
CBM-S1	CBM-S1	0.5096	Confirmed LTF	0.5096
G-007	G-007	1.0521	Confirmed LTF	1.0521
MEC	MEC	1.3920	Confirmed LTF	1.3920
LAGN	LAGN	2.5673	Confirmed LTF	2.5673
AA2-074	AA2-074	1.8522	LTF	1.8522
CBM-W1	CBM-W1	9.1971	Confirmed LTF	9.1971

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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
174479034	314260	6VARINA	DVP	314225	6CHARCTY	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	116.45	117.01	DC	14.73

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.7263	Adder	3.21
314314	3LOCKS	0.2012	50/50	0.2012
314331	6POE	2.0012	50/50	2.0012
314435	6SAPONY	0.2568	50/50	0.2568
314525	6KINGFORK	1.2149	Adder	1.43
314539	3UNCAMP	2.0212	Adder	2.38
314541	3WATKINS	0.2315	Adder	0.27
314572	3EMPORIA	0.1785	Adder	0.21
314594	6PLYMOTH	0.0275	Adder	0.03
315065	1CHESTF6 (Deactivation : 31/05/2023)	156.9123	50/50	156.9123
315073	1STONECA	4.7681	50/50	4.7681
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0124	50/50	0.0124
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0124	50/50	0.0124
315076	1HOPPOLC	1.0402	50/50	1.0402
315077	1HOPHCF1	1.6260	50/50	1.6260
315078	1HOPHCF2	1.6260	50/50	1.6260
315079	1HOPHCF3	1.6260	50/50	1.6260
315080	1HOPHCF4	2.4684	50/50	2.4684
315131	1EDGECEMA (Deactivation : 22/04/2019)	2.9235	Adder	3.44
315132	1EDGECEMB (Deactivation : 22/04/2019)	2.9235	Adder	3.44
315293	1DOMTR9	2.0801	Adder	2.45
315294	1DOMTR10	2.5492	Adder	3.0
316083	AB2-161 C	2.3385	50/50	2.3385
316084	AB2-161 E	3.8155	50/50	3.8155
316088	AB2-174 E	2.6186	Adder	3.08
316097	AB2-100 E1	1.3520	Adder	1.59
316099	AB2-100 E2	1.3520	Adder	1.59
316103	AB2-015 C	2.8909	Adder	3.4
316104	AB2-015 E	2.3705	Adder	2.79
316108	AB2-160 C	3.8766	50/50	3.8766
316109	AB2-160 E	6.3250	50/50	6.3250
316129	AC1-054 C	2.3561	Adder	2.77
316132	AB2-190 C	11.5002	50/50	11.5002
316140	AB2-099 C (Suspended)	0.1944	Adder	0.23
316141	AB2-099 E (Suspended)	0.0833	Adder	0.1
316151	AD2-215 E (Withdrawn : 01/14/2021)	0.2600	Adder	0.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
900672	V4-068 E	0.1012	Adder	0.12
916042	Z1-036 E (Suspended)	12.8821	Adder	15.16
917332	Z2-043 E	0.3513	Adder	0.41
917342	Z2-044 E	0.1858	Adder	0.22
917512	Z2-088 E OP1	2.4845	Adder	2.92
918492	AA1-063AE OP	1.4304	Adder	1.68
918512	AA1-065 E OP	1.2938	Adder	1.52
918532	AA1-067 E	0.2240	Adder	0.26
919692	AA2-053 E OP	1.3395	Adder	1.58
919702	AA2-057 E OP	1.1150	Adder	1.31
920042	AA2-088 E OP	3.6052	Adder	4.24
920592	AA2-165 E	0.1532	Adder	0.18
920692	AA2-178 E	1.2140	Adder	1.43
922923	AB1-081 E OP	1.2079	Adder	1.42
923262	AB1-132 C OP (Suspended)	5.5435	Adder	6.52
923263	AB1-132 E OP (Suspended)	2.3758	Adder	2.8
923573	AB1-173 E OP	0.4251	Adder	0.5
923852	AB2-025 E	0.7314	50/50	0.7314
923991	AB2-040 C O1	2.9692	Adder	3.49
923992	AB2-040 E O1	2.4293	Adder	2.86
924152	AB2-059 E OP	1.7112	Adder	2.01
924814	AB2-134 E	5.8276	Adder	6.86
925122	AB2-169 E	1.7698	Adder	2.08
925332	AB2-190 E	4.9286	50/50	4.9286
925591	AC1-034 C	2.1515	Adder	2.53
925592	AC1-034 E	1.6231	Adder	1.91
925785	AC1-054 E	1.0854	Adder	1.28
926070	AC1-086 C	8.1635	Adder	9.6
926071	AC1-086 E	3.7155	Adder	4.37
926201	AC1-098 C	2.0563	Adder	2.42
926202	AC1-098 E	1.2250	Adder	1.44
926211	AC1-099 C	0.6891	Adder	0.81
926212	AC1-099 E	0.4047	Adder	0.48
927024	AC1-189 C	2.6689	Adder	3.14
927025	AC1-189 E	1.3295	Adder	1.56
927145	AC1-208 C	3.0613	Adder	3.6
927146	AC1-208 E	1.3538	Adder	1.59
927226	AC1-216 E	3.5576	Adder	4.19
932581	AC2-078 C O1	2.8468	50/50	2.8468
932582	AC2-078 E O1	4.6448	50/50	4.6448
932591	AC2-079 C O1	2.6697	Adder	3.14
932592	AC2-079 E O1	4.3559	Adder	5.12
932631	AC2-084 C	2.9313	Adder	3.45
932632	AC2-084 E	1.4438	Adder	1.7
933991	AD1-023 C	4.0413	Adder	4.75
933992	AD1-023 E	2.2001	Adder	2.59
934014	AD1-025 C	7.7756	Adder	9.15
934015	AD1-025 E	4.6059	Adder	5.42
934331	AD1-057 C O1	3.5098	Adder	4.13
934332	AD1-057 E O1	1.8723	Adder	2.2
934521	AD1-076 C	16.4647	Adder	19.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934522	AD1-076 E	8.3838	Adder	9.86
934575	AD1-082 C	5.3294	50/50	5.3294
934576	AD1-082 E	3.0401	50/50	3.0401
935112	AD1-144 E	0.2650	Adder	0.31
935164	AD1-151 C	9.2412	50/50	9.2412
935165	AD1-151 E	6.1608	50/50	6.1608
936041	AD2-007 C	0.3714	Adder	0.44
936042	AD2-007 E	0.2559	Adder	0.3
936051	AD2-008 C	1.3537	Adder	1.59
936052	AD2-008 E	2.9468	Adder	3.47
936401	AD2-051 C O1	2.8417	Adder	3.34
936402	AD2-051 E O1	1.2202	Adder	1.44
936661	AD2-085 C	1.3930	Adder	1.64
936662	AD2-085 E	2.2727	Adder	2.67
938222	AE1-035 E	0.3558	Adder	0.42
938494	AE1-068_C1	9.7738	Adder	11.5
938497	AE1-068_C2	9.7738	Adder	11.5
938498	AE1-068_E1	5.4029	Adder	6.36
938499	AE1-068_E2	5.4029	Adder	6.36
938504	AE1-069_C1	7.4487	Adder	8.76
938507	AE1-069_C2	8.0315	Adder	9.45
938508	AE1-069_E1	4.2373	Adder	4.99
938509	AE1-069_E2	4.5652	Adder	5.37
938634	AE1-085 C	6.3190	50/50	6.3190
938635	AE1-085 E	3.1595	50/50	3.1595
938771	AE1-103 C	1.2109	Adder	1.42
938772	AE1-103 E	1.6723	Adder	1.97
939195	AE1-149 C	8.0406	50/50	8.0406
939196	AE1-149 E	5.3604	50/50	5.3604
939312	AE1-162 E	0.4587	Adder	0.54
939414	AE1-173_C1	9.4219	Adder	11.08
939415	AE1-173_C2	8.0760	Adder	9.5
939416	AE1-173_C3	9.4219	Adder	11.08
939423	AE1-173_E1	6.2813	Adder	7.39
939424	AE1-173_E2	5.3840	Adder	6.33
939425	AE1-173_E3	6.2813	Adder	7.39
940061	AE2-000BC O1	7.2048	50/50	7.2048
940062	AE2-000BE O1	4.8032	50/50	4.8032
940431	AE2-027 C O1	5.5588	Adder	6.54
940432	AE2-027 E O1	3.7059	Adder	4.36
940471	AE2-031 C	10.6444	Adder	12.52
940472	AE2-031 E	7.0962	Adder	8.35
940481	AE2-033 C	10.2466	50/50	10.2466
940482	AE2-033 E	6.9078	50/50	6.9078
940491	AE2-034 C	2.1245	Adder	2.5
940492	AE2-034 E	0.9105	Adder	1.07
940541	AE2-040	1.8521	50/50	1.8521
940571	AE2-044 C	1.4092	Adder	1.66
940572	AE2-044 E	0.6039	Adder	0.71
940651	AE2-052	2.6802	50/50	2.6802
940891	AE2-078 C	0.7878	Adder	0.93
940892	AE2-078 E	0.4058	Adder	0.48

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940901	AE2-079 C	0.7878	Adder	0.93
940902	AE2-079 E	0.4058	Adder	0.48
941031	AE2-094 C	12.8127	Adder	15.07
941032	AE2-094 E	5.7385	Adder	6.75
941101	AE2-104 C O1	1.0833	Adder	1.27
941102	AE2-104 E O1	1.7223	Adder	2.03
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.1925	Adder	0.23
942001	AE2-212 C	2.3618	50/50	2.3618
942002	AE2-212 E	1.5746	50/50	1.5746
942161	AE2-228 C	2.6699	50/50	2.6699
942162	AE2-228 E	1.7799	50/50	1.7799
942341	AE2-247 C	0.6055	Adder	0.71
942342	AE2-247 E	0.8361	Adder	0.98
942371	AE2-250 C O1	6.8861	50/50	6.8861
942372	AE2-250 E O1	3.6343	50/50	3.6343
942471	AE2-260 C O1	6.9416	Adder	8.17
942472	AE2-260 E O1	9.8459	Adder	11.58
942551	AE2-270	12.7015	Adder	14.94
942931	AE2-313 C	11.5061	Adder	13.54
942932	AE2-313 E	7.6707	Adder	9.02
943171	AE2-346 C	0.4666	Adder	0.55
943172	AE2-346 E	0.2000	Adder	0.24
943461	AF1-017 C	0.5478	Adder	0.64
943462	AF1-017 E	0.8938	Adder	1.05
943621	AF1-033 C	0.7878	Adder	0.93
943622	AF1-033 E	0.4058	Adder	0.48
943911	AF1-059	5.6722	Adder	6.67
944011	AF1-069 C	4.1864	Adder	4.93
944012	AF1-069 E	1.6263	Adder	1.91
944141	AF1-082	0.9059	Adder	1.07
944641	AF1-129	131.6666	50/50	131.6666
945711	AF1-236 C O1	23.2583	Adder	27.36
945712	AF1-236 E O1	14.3657	Adder	16.9
945811	AF1-246 C O1	2.1691	Adder	2.55
945812	AF1-246 E O1	2.9955	Adder	3.52
946002	AF1-265 BAT	10.1595	Merchant Transmission	10.1595
946011	AF1-266	8.5772	50/50	8.5772
946261	AF1-291 C	2.6872	50/50	2.6872
946262	AF1-291 E	1.7914	50/50	1.7914
946281	AF1-292 C	0.6492	Adder	0.76
946282	AF1-292 E	0.4377	Adder	0.51
957481	AF2-042 C	15.4938	Adder	18.23
957482	AF2-042 E	10.3292	Adder	12.15
957521	AF2-046 C	5.6777	Adder	6.68
957522	AF2-046 E	2.8559	Adder	3.36
957531	AF2-047 C	5.0482	Adder	5.94
957532	AF2-047 E	2.5393	Adder	2.99
957711	AF2-065 C	6.4778	Adder	7.62
957712	AF2-065 E	6.2238	Adder	7.32
957821	AF2-076 C	1.4895	Adder	1.75
957822	AF2-076 E	0.9930	Adder	1.17

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957861	AF2-080 C	2.4240	Adder	2.85
957862	AF2-080 E	1.0746	Adder	1.26
958141	AF2-108	1.6774	50/50	1.6774
958161	AF2-110 C	0.4466	Adder	0.53
958162	AF2-110 E	0.6985	Adder	0.82
959511	AF2-242 C	2.2633	Adder	2.66
959512	AF2-242 E	1.7603	Adder	2.07
959651	AF2-256 C	0.6675	50/50	0.6675
959652	AF2-256 E	0.4450	50/50	0.4450
959661	AF2-257 C	0.6718	50/50	0.6718
959662	AF2-257 E	0.4479	50/50	0.4479
959671	AF2-258 C	0.5905	50/50	0.5905
959672	AF2-258 E	0.3936	50/50	0.3936
959681	AF2-259 C	2.5161	50/50	2.5161
959682	AF2-259 E	1.6774	50/50	1.6774
960081	AF2-299 C	1.0942	Adder	1.29
960082	AF2-299 E	0.7295	Adder	0.86
961091	AF2-400 C	0.1561	Adder	0.18
961092	AF2-400 E	0.2561	Adder	0.3
961671	AG1-007 C	0.2047	Adder	0.45
961672	AG1-007 E	0.1143	Adder	0.25
961681	AG1-008 C	3.0152	Adder	6.69
961682	AG1-008 E	1.5076	Adder	3.35
961711	AG1-011	6.9997	Adder	15.54
961851	AG1-027 C	2.9397	Adder	6.53
961852	AG1-027 E	1.6250	Adder	3.61
961931	AG1-036 C	0.2412	Adder	0.54
961932	AG1-036 E	0.1608	Adder	0.36
961941	AG1-037 C	0.0883	Adder	0.2
961942	AG1-037 E	0.0589	Adder	0.13
962271	AG1-075 C O2	10.7301	50/50	10.7301
962272	AG1-075 E O2	6.5394	50/50	6.5394
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.3796	Adder	0.84
962322	AG1-081 E (Withdrawn : 01/15/2021)	0.2530	Adder	0.56
962331	AG1-082 C	0.3533	Adder	0.78
962332	AG1-082 E	0.2355	Adder	0.52
962341	AG1-083 C	0.3533	Adder	0.78
962342	AG1-083 E	0.2355	Adder	0.52
962351	AG1-084 C	0.3061	Adder	0.68
962352	AG1-084 E	0.2041	Adder	0.45
962361	AG1-085 C	0.3061	Adder	0.68
962362	AG1-085 E	0.2041	Adder	0.45
962571	AG1-106 C	1.2032	Adder	2.67
962572	AG1-106 E	0.5456	Adder	1.21
963041	AG1-153 C	0.9424	Adder	2.09
963042	AG1-153 E	1.4136	Adder	3.14
963111	AG1-160 C	0.9555	Adder	2.12
963112	AG1-160 E	1.4333	Adder	3.18
963221	AG1-171 C	1.2322	50/50	1.2322
963222	AG1-171 E	0.8214	50/50	0.8214
963231	AG1-172 C	1.2322	50/50	1.2322

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963232	AG1-172 E	0.8214	50/50	0.8214
963241	AG1-173 C	1.2322	50/50	1.2322
963242	AG1-173 E	0.8214	50/50	0.8214
963251	AG1-174 C	1.2322	50/50	1.2322
963252	AG1-174 E	0.8214	50/50	0.8214
963261	AG1-175 C	1.2322	50/50	1.2322
963262	AG1-175 E	0.8214	50/50	0.8214
963291	AG1-178 C O2	10.5398	Adder	23.4
963301	AG1-179 C	1.1088	Adder	2.46
963311	AG1-180	0.5402	Adder	1.2
963351	AG1-184 O2	5.6782	Adder	12.6
964241	AG1-285 C O2	2.0867	Adder	4.63
964242	AG1-285 E O2	1.3911	Adder	3.09
964491	AG1-312 C O1	3.1848	Adder	7.07
964492	AG1-312 E O1	0.7962	Adder	1.77
964501	AG1-313 C O2	0.8523	Adder	1.89
964502	AG1-313 E O2	0.5682	Adder	1.26
964801	AG1-343 C	1.0763	Adder	2.39
964802	AG1-343 E	0.8457	Adder	1.88
965291	AG1-394 C	0.3701	Adder	0.82
965292	AG1-394 E	0.2467	Adder	0.55
965451	AG1-413 C O2	1.2397	Adder	2.75
965452	AG1-413 E O2	0.8265	Adder	1.83
965601	AG1-428 C O2	0.9256	Adder	2.05
965602	AG1-428 E O2	0.6160	Adder	1.37
965631	AG1-431	7.1366	Adder	15.84
965691	AG1-437 C O1	1.6710	Adder	3.71
965692	AG1-437 E O1	1.1140	Adder	2.47
965701	AG1-438 C O1	1.6710	Adder	3.71
965702	AG1-438 E O1	1.1140	Adder	2.47
965711	AG1-439 C O1	3.9822	Adder	8.84
965712	AG1-439 E O1	2.6548	Adder	5.89
965741	AG1-442 O1	0.9747	Adder	2.16
965751	AG1-443 O1	0.9747	Adder	2.16
965761	AG1-444 O1	2.1238	Adder	4.71
965811	AG1-449	3.9555	Adder	8.78
966361	AG1-505 C	2.7518	Adder	6.11
966362	AG1-505 E	1.8345	Adder	4.07
966371	AG1-506 C	2.7518	Adder	6.11
966372	AG1-506 E	1.8345	Adder	4.07
966611	AG1-531 C	0.9442	Adder	2.1
966612	AG1-531 E	0.6295	Adder	1.4
966621	AG1-532 C	0.3132	Adder	0.7
966622	AG1-532 E	0.2088	Adder	0.46
966731	AG1-544 C	4.9351	50/50	4.9351
966732	AG1-544 E	2.6477	50/50	2.6477
966741	AG1-545 C	1.6362	50/50	1.6362
966742	AG1-545 E	0.8772	50/50	0.8772
966751	AG1-546 C	2.7807	Adder	6.17
966752	AG1-546 E	1.4921	Adder	3.31
966801	AG1-551 C	0.3713	Adder	0.82
966802	AG1-551 E	0.1591	Adder	0.35

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966811	AG1-552 C	0.4042	Adder	0.9
966812	AG1-552 E	0.1732	Adder	0.38
966931	AG1-431A	5.3619	Adder	11.9
WEC	WEC	0.2233	Confirmed LTF	0.2233
LGEE	LGEE	0.4624	Confirmed LTF	0.4624
CPL	CPL	2.8058	Confirmed LTF	2.8058
CBM-W2	CBM-W2	10.6714	Confirmed LTF	10.6714
NY	NY	0.4883	Confirmed LTF	0.4883
TVA	TVA	2.0664	Confirmed LTF	2.0664
O-066	O-066	6.6963	Confirmed LTF	6.6963
SIGE	SIGE	0.1884	Confirmed LTF	0.1884
CBM-S2	CBM-S2	32.9069	Confirmed LTF	32.9069
CBM-S1	CBM-S1	0.5096	Confirmed LTF	0.5096
G-007	G-007	1.0521	Confirmed LTF	1.0521
MEC	MEC	1.3920	Confirmed LTF	1.3920
LAGN	LAGN	2.5673	Confirmed LTF	2.5673
AA2-074	AA2-074	1.8522	LTF	1.8522
CBM-W1	CBM-W1	9.1971	Confirmed LTF	9.1971

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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
173906458	314282	6CARSON	DVP	314285	6CHRL249	DVP	1	DVP_P4-2: 562T563	breaker	684.0	198.52	199.74	DC	18.36

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

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

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

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

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

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

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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
174304557	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P4-2: 24972-4	breaker	830.0	132.62	134.09	DC	27.04

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

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

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

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

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

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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
173906459	314285	6CHRL249	DVP	314316	6LOCKS	DVP	1	DVP_P4-2: 562T563	breaker	684.0	195.39	196.61	DC	18.36

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

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

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

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

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

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

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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
174479032	314287	6CHESTF B	DVP	314260	6VARINA	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	116.75	117.31	DC	14.73

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.7263	Adder	3.21
314314	3LOCKS	0.2012	50/50	0.2012
314331	6POE	2.0012	50/50	2.0012
314435	6SAPONY	0.2568	50/50	0.2568
314525	6KINGFORK	1.2149	Adder	1.43
314539	3UNCAMP	2.0212	Adder	2.38
314541	3WATKINS	0.2315	Adder	0.27
314572	3EMPORIA	0.1785	Adder	0.21
314594	6PLYMOTH	0.0275	Adder	0.03
315065	1CHESTF6 (Deactivation : 31/05/2023)	156.9123	50/50	156.9123
315073	1STONECA	4.7681	50/50	4.7681
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0124	50/50	0.0124
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0124	50/50	0.0124
315076	1HOPPOLC	1.0402	50/50	1.0402
315077	1HOPHCF1	1.6260	50/50	1.6260
315078	1HOPHCF2	1.6260	50/50	1.6260
315079	1HOPHCF3	1.6260	50/50	1.6260
315080	1HOPHCF4	2.4684	50/50	2.4684
315131	1EDGECEMA (Deactivation : 22/04/2019)	2.9235	Adder	3.44
315132	1EDGECEMB (Deactivation : 22/04/2019)	2.9235	Adder	3.44
315293	1DOMTR9	2.0801	Adder	2.45
315294	1DOMTR10	2.5492	Adder	3.0
316083	AB2-161 C	2.3385	50/50	2.3385
316084	AB2-161 E	3.8155	50/50	3.8155
316088	AB2-174 E	2.6186	Adder	3.08
316097	AB2-100 E1	1.3520	Adder	1.59
316099	AB2-100 E2	1.3520	Adder	1.59
316103	AB2-015 C	2.8909	Adder	3.4
316104	AB2-015 E	2.3705	Adder	2.79
316108	AB2-160 C	3.8766	50/50	3.8766
316109	AB2-160 E	6.3250	50/50	6.3250
316129	AC1-054 C	2.3561	Adder	2.77
316132	AB2-190 C	11.5002	50/50	11.5002
316140	AB2-099 C (Suspended)	0.1944	Adder	0.23
316141	AB2-099 E (Suspended)	0.0833	Adder	0.1
316151	AD2-215 E (Withdrawn : 01/14/2021)	0.2600	Adder	0.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
900672	V4-068 E	0.1012	Adder	0.12
916042	Z1-036 E (Suspended)	12.8821	Adder	15.16
917332	Z2-043 E	0.3513	Adder	0.41
917342	Z2-044 E	0.1858	Adder	0.22
917512	Z2-088 E OP1	2.4845	Adder	2.92
918492	AA1-063AE OP	1.4304	Adder	1.68
918512	AA1-065 E OP	1.2938	Adder	1.52
918532	AA1-067 E	0.2240	Adder	0.26
919692	AA2-053 E OP	1.3395	Adder	1.58
919702	AA2-057 E OP	1.1150	Adder	1.31
920042	AA2-088 E OP	3.6052	Adder	4.24
920592	AA2-165 E	0.1532	Adder	0.18
920692	AA2-178 E	1.2140	Adder	1.43
922923	AB1-081 E OP	1.2079	Adder	1.42
923262	AB1-132 C OP (Suspended)	5.5435	Adder	6.52
923263	AB1-132 E OP (Suspended)	2.3758	Adder	2.8
923573	AB1-173 E OP	0.4251	Adder	0.5
923852	AB2-025 E	0.7314	50/50	0.7314
923991	AB2-040 C O1	2.9692	Adder	3.49
923992	AB2-040 E O1	2.4293	Adder	2.86
924152	AB2-059 E OP	1.7112	Adder	2.01
924814	AB2-134 E	5.8276	Adder	6.86
925122	AB2-169 E	1.7698	Adder	2.08
925332	AB2-190 E	4.9286	50/50	4.9286
925591	AC1-034 C	2.1515	Adder	2.53
925592	AC1-034 E	1.6231	Adder	1.91
925785	AC1-054 E	1.0854	Adder	1.28
926070	AC1-086 C	8.1635	Adder	9.6
926071	AC1-086 E	3.7155	Adder	4.37
926201	AC1-098 C	2.0563	Adder	2.42
926202	AC1-098 E	1.2250	Adder	1.44
926211	AC1-099 C	0.6891	Adder	0.81
926212	AC1-099 E	0.4047	Adder	0.48
927024	AC1-189 C	2.6689	Adder	3.14
927025	AC1-189 E	1.3295	Adder	1.56
927145	AC1-208 C	3.0613	Adder	3.6
927146	AC1-208 E	1.3538	Adder	1.59
927226	AC1-216 E	3.5576	Adder	4.19
932581	AC2-078 C O1	2.8468	50/50	2.8468
932582	AC2-078 E O1	4.6448	50/50	4.6448
932591	AC2-079 C O1	2.6697	Adder	3.14
932592	AC2-079 E O1	4.3559	Adder	5.12
932631	AC2-084 C	2.9313	Adder	3.45
932632	AC2-084 E	1.4438	Adder	1.7
933991	AD1-023 C	4.0413	Adder	4.75
933992	AD1-023 E	2.2001	Adder	2.59
934014	AD1-025 C	7.7756	Adder	9.15
934015	AD1-025 E	4.6059	Adder	5.42
934331	AD1-057 C O1	3.5098	Adder	4.13
934332	AD1-057 E O1	1.8723	Adder	2.2
934521	AD1-076 C	16.4647	Adder	19.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934522	AD1-076 E	8.3838	Adder	9.86
934575	AD1-082 C	5.3294	50/50	5.3294
934576	AD1-082 E	3.0401	50/50	3.0401
935112	AD1-144 E	0.2650	Adder	0.31
935164	AD1-151 C	9.2412	50/50	9.2412
935165	AD1-151 E	6.1608	50/50	6.1608
936041	AD2-007 C	0.3714	Adder	0.44
936042	AD2-007 E	0.2559	Adder	0.3
936051	AD2-008 C	1.3537	Adder	1.59
936052	AD2-008 E	2.9468	Adder	3.47
936401	AD2-051 C O1	2.8417	Adder	3.34
936402	AD2-051 E O1	1.2202	Adder	1.44
936661	AD2-085 C	1.3930	Adder	1.64
936662	AD2-085 E	2.2727	Adder	2.67
938222	AE1-035 E	0.3558	Adder	0.42
938494	AE1-068_C1	9.7738	Adder	11.5
938497	AE1-068_C2	9.7738	Adder	11.5
938498	AE1-068_E1	5.4029	Adder	6.36
938499	AE1-068_E2	5.4029	Adder	6.36
938504	AE1-069_C1	7.4487	Adder	8.76
938507	AE1-069_C2	8.0315	Adder	9.45
938508	AE1-069_E1	4.2373	Adder	4.99
938509	AE1-069_E2	4.5652	Adder	5.37
938634	AE1-085 C	6.3190	50/50	6.3190
938635	AE1-085 E	3.1595	50/50	3.1595
938771	AE1-103 C	1.2109	Adder	1.42
938772	AE1-103 E	1.6723	Adder	1.97
939195	AE1-149 C	8.0406	50/50	8.0406
939196	AE1-149 E	5.3604	50/50	5.3604
939312	AE1-162 E	0.4587	Adder	0.54
939414	AE1-173_C1	9.4219	Adder	11.08
939415	AE1-173_C2	8.0760	Adder	9.5
939416	AE1-173_C3	9.4219	Adder	11.08
939423	AE1-173_E1	6.2813	Adder	7.39
939424	AE1-173_E2	5.3840	Adder	6.33
939425	AE1-173_E3	6.2813	Adder	7.39
940061	AE2-000BC O1	7.2048	50/50	7.2048
940062	AE2-000BE O1	4.8032	50/50	4.8032
940431	AE2-027 C O1	5.5588	Adder	6.54
940432	AE2-027 E O1	3.7059	Adder	4.36
940471	AE2-031 C	10.6444	Adder	12.52
940472	AE2-031 E	7.0962	Adder	8.35
940481	AE2-033 C	10.2466	50/50	10.2466
940482	AE2-033 E	6.9078	50/50	6.9078
940491	AE2-034 C	2.1245	Adder	2.5
940492	AE2-034 E	0.9105	Adder	1.07
940541	AE2-040	1.8521	50/50	1.8521
940571	AE2-044 C	1.4092	Adder	1.66
940572	AE2-044 E	0.6039	Adder	0.71
940651	AE2-052	2.6802	50/50	2.6802
940891	AE2-078 C	0.7878	Adder	0.93
940892	AE2-078 E	0.4058	Adder	0.48

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940901	AE2-079 C	0.7878	Adder	0.93
940902	AE2-079 E	0.4058	Adder	0.48
941031	AE2-094 C	12.8127	Adder	15.07
941032	AE2-094 E	5.7385	Adder	6.75
941101	AE2-104 C O1	1.0833	Adder	1.27
941102	AE2-104 E O1	1.7223	Adder	2.03
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.1925	Adder	0.23
942001	AE2-212 C	2.3618	50/50	2.3618
942002	AE2-212 E	1.5746	50/50	1.5746
942161	AE2-228 C	2.6699	50/50	2.6699
942162	AE2-228 E	1.7799	50/50	1.7799
942341	AE2-247 C	0.6055	Adder	0.71
942342	AE2-247 E	0.8361	Adder	0.98
942371	AE2-250 C O1	6.8861	50/50	6.8861
942372	AE2-250 E O1	3.6343	50/50	3.6343
942471	AE2-260 C O1	6.9416	Adder	8.17
942472	AE2-260 E O1	9.8459	Adder	11.58
942551	AE2-270	12.7015	Adder	14.94
942931	AE2-313 C	11.5061	Adder	13.54
942932	AE2-313 E	7.6707	Adder	9.02
943171	AE2-346 C	0.4666	Adder	0.55
943172	AE2-346 E	0.2000	Adder	0.24
943461	AF1-017 C	0.5478	Adder	0.64
943462	AF1-017 E	0.8938	Adder	1.05
943621	AF1-033 C	0.7878	Adder	0.93
943622	AF1-033 E	0.4058	Adder	0.48
943911	AF1-059	5.6722	Adder	6.67
944011	AF1-069 C	4.1864	Adder	4.93
944012	AF1-069 E	1.6263	Adder	1.91
944141	AF1-082	0.9059	Adder	1.07
944641	AF1-129	131.6666	50/50	131.6666
945711	AF1-236 C O1	23.2583	Adder	27.36
945712	AF1-236 E O1	14.3657	Adder	16.9
945811	AF1-246 C O1	2.1691	Adder	2.55
945812	AF1-246 E O1	2.9955	Adder	3.52
946002	AF1-265 BAT	10.1595	Merchant Transmission	10.1595
946011	AF1-266	8.5772	50/50	8.5772
946261	AF1-291 C	2.6872	50/50	2.6872
946262	AF1-291 E	1.7914	50/50	1.7914
946281	AF1-292 C	0.6492	Adder	0.76
946282	AF1-292 E	0.4377	Adder	0.51
957481	AF2-042 C	15.4938	Adder	18.23
957482	AF2-042 E	10.3292	Adder	12.15
957521	AF2-046 C	5.6777	Adder	6.68
957522	AF2-046 E	2.8559	Adder	3.36
957531	AF2-047 C	5.0482	Adder	5.94
957532	AF2-047 E	2.5393	Adder	2.99
957711	AF2-065 C	6.4778	Adder	7.62
957712	AF2-065 E	6.2238	Adder	7.32
957821	AF2-076 C	1.4895	Adder	1.75
957822	AF2-076 E	0.9930	Adder	1.17

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957861	AF2-080 C	2.4240	Adder	2.85
957862	AF2-080 E	1.0746	Adder	1.26
958141	AF2-108	1.6774	50/50	1.6774
958161	AF2-110 C	0.4466	Adder	0.53
958162	AF2-110 E	0.6985	Adder	0.82
959511	AF2-242 C	2.2633	Adder	2.66
959512	AF2-242 E	1.7603	Adder	2.07
959651	AF2-256 C	0.6675	50/50	0.6675
959652	AF2-256 E	0.4450	50/50	0.4450
959661	AF2-257 C	0.6718	50/50	0.6718
959662	AF2-257 E	0.4479	50/50	0.4479
959671	AF2-258 C	0.5905	50/50	0.5905
959672	AF2-258 E	0.3936	50/50	0.3936
959681	AF2-259 C	2.5161	50/50	2.5161
959682	AF2-259 E	1.6774	50/50	1.6774
960081	AF2-299 C	1.0942	Adder	1.29
960082	AF2-299 E	0.7295	Adder	0.86
961091	AF2-400 C	0.1561	Adder	0.18
961092	AF2-400 E	0.2561	Adder	0.3
961671	AG1-007 C	0.2047	Adder	0.45
961672	AG1-007 E	0.1143	Adder	0.25
961681	AG1-008 C	3.0152	Adder	6.69
961682	AG1-008 E	1.5076	Adder	3.35
961711	AG1-011	6.9997	Adder	15.54
961851	AG1-027 C	2.9397	Adder	6.53
961852	AG1-027 E	1.6250	Adder	3.61
961931	AG1-036 C	0.2412	Adder	0.54
961932	AG1-036 E	0.1608	Adder	0.36
961941	AG1-037 C	0.0883	Adder	0.2
961942	AG1-037 E	0.0589	Adder	0.13
962271	AG1-075 C O2	10.7301	50/50	10.7301
962272	AG1-075 E O2	6.5394	50/50	6.5394
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.3796	Adder	0.84
962322	AG1-081 E (Withdrawn : 01/15/2021)	0.2530	Adder	0.56
962331	AG1-082 C	0.3533	Adder	0.78
962332	AG1-082 E	0.2355	Adder	0.52
962341	AG1-083 C	0.3533	Adder	0.78
962342	AG1-083 E	0.2355	Adder	0.52
962351	AG1-084 C	0.3061	Adder	0.68
962352	AG1-084 E	0.2041	Adder	0.45
962361	AG1-085 C	0.3061	Adder	0.68
962362	AG1-085 E	0.2041	Adder	0.45
962571	AG1-106 C	1.2032	Adder	2.67
962572	AG1-106 E	0.5456	Adder	1.21
963041	AG1-153 C	0.9424	Adder	2.09
963042	AG1-153 E	1.4136	Adder	3.14
963111	AG1-160 C	0.9555	Adder	2.12
963112	AG1-160 E	1.4333	Adder	3.18
963221	AG1-171 C	1.2322	50/50	1.2322
963222	AG1-171 E	0.8214	50/50	0.8214
963231	AG1-172 C	1.2322	50/50	1.2322

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963232	AG1-172 E	0.8214	50/50	0.8214
963241	AG1-173 C	1.2322	50/50	1.2322
963242	AG1-173 E	0.8214	50/50	0.8214
963251	AG1-174 C	1.2322	50/50	1.2322
963252	AG1-174 E	0.8214	50/50	0.8214
963261	AG1-175 C	1.2322	50/50	1.2322
963262	AG1-175 E	0.8214	50/50	0.8214
963291	AG1-178 C O2	10.5398	Adder	23.4
963301	AG1-179 C	1.1088	Adder	2.46
963311	AG1-180	0.5402	Adder	1.2
963351	AG1-184 O2	5.6782	Adder	12.6
964241	AG1-285 C O2	2.0867	Adder	4.63
964242	AG1-285 E O2	1.3911	Adder	3.09
964491	AG1-312 C O1	3.1848	Adder	7.07
964492	AG1-312 E O1	0.7962	Adder	1.77
964501	AG1-313 C O2	0.8523	Adder	1.89
964502	AG1-313 E O2	0.5682	Adder	1.26
964801	AG1-343 C	1.0763	Adder	2.39
964802	AG1-343 E	0.8457	Adder	1.88
965291	AG1-394 C	0.3701	Adder	0.82
965292	AG1-394 E	0.2467	Adder	0.55
965451	AG1-413 C O2	1.2397	Adder	2.75
965452	AG1-413 E O2	0.8265	Adder	1.83
965601	AG1-428 C O2	0.9256	Adder	2.05
965602	AG1-428 E O2	0.6160	Adder	1.37
965631	AG1-431	7.1366	Adder	15.84
965691	AG1-437 C O1	1.6710	Adder	3.71
965692	AG1-437 E O1	1.1140	Adder	2.47
965701	AG1-438 C O1	1.6710	Adder	3.71
965702	AG1-438 E O1	1.1140	Adder	2.47
965711	AG1-439 C O1	3.9822	Adder	8.84
965712	AG1-439 E O1	2.6548	Adder	5.89
965741	AG1-442 O1	0.9747	Adder	2.16
965751	AG1-443 O1	0.9747	Adder	2.16
965761	AG1-444 O1	2.1238	Adder	4.71
965811	AG1-449	3.9555	Adder	8.78
966361	AG1-505 C	2.7518	Adder	6.11
966362	AG1-505 E	1.8345	Adder	4.07
966371	AG1-506 C	2.7518	Adder	6.11
966372	AG1-506 E	1.8345	Adder	4.07
966611	AG1-531 C	0.9442	Adder	2.1
966612	AG1-531 E	0.6295	Adder	1.4
966621	AG1-532 C	0.3132	Adder	0.7
966622	AG1-532 E	0.2088	Adder	0.46
966731	AG1-544 C	4.9351	50/50	4.9351
966732	AG1-544 E	2.6477	50/50	2.6477
966741	AG1-545 C	1.6362	50/50	1.6362
966742	AG1-545 E	0.8772	50/50	0.8772
966751	AG1-546 C	2.7807	Adder	6.17
966752	AG1-546 E	1.4921	Adder	3.31
966801	AG1-551 C	0.3713	Adder	0.82
966802	AG1-551 E	0.1591	Adder	0.35

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966811	AG1-552 C	0.4042	Adder	0.9
966812	AG1-552 E	0.1732	Adder	0.38
966931	AG1-431A	5.3619	Adder	11.9
WEC	WEC	0.2233	Confirmed LTF	0.2233
LGEE	LGEE	0.4624	Confirmed LTF	0.4624
CPL	CPL	2.8058	Confirmed LTF	2.8058
CBM-W2	CBM-W2	10.6714	Confirmed LTF	10.6714
NY	NY	0.4883	Confirmed LTF	0.4883
TVA	TVA	2.0664	Confirmed LTF	2.0664
O-066	O-066	6.6963	Confirmed LTF	6.6963
SIGE	SIGE	0.1884	Confirmed LTF	0.1884
CBM-S2	CBM-S2	32.9069	Confirmed LTF	32.9069
CBM-S1	CBM-S1	0.5096	Confirmed LTF	0.5096
G-007	G-007	1.0521	Confirmed LTF	1.0521
MEC	MEC	1.3920	Confirmed LTF	1.3920
LAGN	LAGN	2.5673	Confirmed LTF	2.5673
AA2-074	AA2-074	1.8522	LTF	1.8522
CBM-W1	CBM-W1	9.1971	Confirmed LTF	9.1971

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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
174304444	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	179.87	181.76	DC	22.7

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

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

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

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

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

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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
168830610	314301	6HARR205	DVP	314346	6TYLER	DVP	1	DVP_P1-2: LN 563	single	441.8	136.63	137.86	DC	8.2

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	1.4562	80/20	1.4562
315141	1GASTONB	1.4562	80/20	1.4562
315158	1KERR 1	0.1272	80/20	0.1272
315159	1KERR 2	0.3562	80/20	0.3562
315160	1KERR 3	0.3562	80/20	0.3562
315161	1KERR 4	0.3562	80/20	0.3562
315162	1KERR 5	0.3562	80/20	0.3562
315163	1KERR 6	0.3562	80/20	0.3562
315164	1KERR 7	0.3562	80/20	0.3562
315241	1Z1-086 GT1	3.2949	80/20	3.2949
315242	1Z1-086 GT2	3.2949	80/20	3.2949
315243	1Z1-086 GT3	3.2949	80/20	3.2949
315244	1Z1-086 ST	5.7278	80/20	5.7278
315601	1CONETOE2SOL	0.4569	80/20	0.4569
315602	1HOLLOMANSOL	0.4561	80/20	0.4561
315606	3AA2-053SOLA	0.6027	80/20	0.6027
315607	3AA1-063SOLA	0.5356	80/20	0.5356
315608	3AA2-088SOLA	0.3403	80/20	0.3403
316020	AB2-059 C OP	0.5962	80/20	0.5962
316083	AB2-161 C	1.0556	80/20	1.0556

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316087	AB2-174 C	0.6005	80/20	0.6005
316096	AB2-100 C1	0.6146	80/20	0.6146
316098	AB2-100 C2	0.6146	80/20	0.6146
316108	AB2-160 C	7.8316	80/20	7.8316
316129	AC1-054 C	2.7621	80/20	2.7621
316140	AB2-099 C (Suspended)	0.1993	80/20	0.1993
920591	AA2-165 C	0.0570	80/20	0.0570
922922	AB1-081 C OP	0.5059	80/20	0.5059
923991	AB2-040 C O1	3.8522	80/20	3.8522
925591	AC1-034 C	2.4479	80/20	2.4479
926070	AC1-086 C	10.3797	80/20	10.3797
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	11.7000	80/20	11.7000
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	-1.2663	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 O2	13.8104	80/20	13.8104
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	2.8865	80/20	2.8865
963041	AG1-153 C	1.7976	80/20	1.7976
963111	AG1-160 C	1.8213	80/20	1.8213
963291	AG1-178 C O2	19.4639	80/20	19.4639
963301	AG1-179 C	2.7238	80/20	2.7238
963311	AG1-180	1.3271	80/20	1.3271
963351	AG1-184 O2	10.4861	80/20	10.4861
964491	AG1-312 C O1	5.9595	80/20	5.9595
964501	AG1-313 C O2	1.8241	80/20	1.8241
964801	AG1-343 C	2.0188	80/20	2.0188
965291	AG1-394 C	0.6928	80/20	0.6928
965451	AG1-413 C O2	2.9432	80/20	2.9432
965601	AG1-428 C O2	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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

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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
174095826	314316	6LOCKS	DVP	314301	6HARR205	DVP	1	DVP_P4-2: 562T563	breaker	541.0	166.2	167.42	DC	14.67

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.1792	Adder	3.74
314314	3LOCKS	0.4088	50/50	0.4088
314331	6POE	0.6059	Adder	0.71
314435	6SAPONY	0.3502	50/50	0.3502
314572	3EMPORIA	0.2540	50/50	0.2540
315073	1STONECA	-2.0671	Adder	-2.43
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.0946	Adder	3.64
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.0946	Adder	3.64
316088	AB2-174 E	3.0969	Adder	3.64
316096	AB2-100 C1	0.6471	50/50	0.6471
316097	AB2-100 E1	2.0201	50/50	2.0201
316098	AB2-100 C2	0.6471	50/50	0.6471
316099	AB2-100 E2	2.0201	50/50	2.0201
316108	AB2-160 C	7.8779	50/50	7.8779
316109	AB2-160 E	12.8533	50/50	12.8533
316129	AC1-054 C	2.5521	Adder	3.0
316140	AB2-099 C (Suspended)	0.1717	Adder	0.2
316141	AB2-099 E (Suspended)	0.0736	Adder	0.09
900672	V4-068 E	0.0873	Adder	0.1
917332	Z2-043 E	0.3274	Adder	0.39
917342	Z2-044 E	0.1948	Adder	0.23
917512	Z2-088 E OP1	2.4739	Adder	2.91
918492	AA1-063AE OP	1.4131	Adder	1.66
919692	AA2-053 E OP	1.3986	Adder	1.65
919702	AA2-057 E OP	1.1622	Adder	1.37
920592	AA2-165 E	0.1597	Adder	0.19
922923	AB1-081 E OP	1.2762	Adder	1.5
923262	AB1-132 C OP (Suspended)	6.3060	Adder	7.42
923263	AB1-132 E OP (Suspended)	2.7026	Adder	3.18
923573	AB1-173 E OP	0.4958	Adder	0.58
923852	AB2-025 E	0.9974	50/50	0.9974
923991	AB2-040 C O1	3.4625	Adder	4.07
923992	AB2-040 E O1	2.8329	Adder	3.33
924022	AB2-043 E O1	0.8279	Adder	0.97
924152	AB2-059 E OP	1.8080	Adder	2.13
924301	AB2-077 C O1 (Suspended)	0.5875	Adder	0.69

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924302	AB2-077 E O1 (Suspended)	0.3917	Adder	0.46
924311	AB2-078 C O1 (Suspended)	0.5875	Adder	0.69
924312	AB2-078 E O1 (Suspended)	0.3917	Adder	0.46
924321	AB2-079 C O1 (Suspended)	0.5875	Adder	0.69
924322	AB2-079 E O1 (Suspended)	0.3917	Adder	0.46
925591	AC1-034 C	2.2733	Adder	2.67
925592	AC1-034 E	1.7149	Adder	2.02
925785	AC1-054 E	1.1757	Adder	1.38
926070	AC1-086 C	9.2864	Adder	10.93
926071	AC1-086 E	4.2266	Adder	4.97
926201	AC1-098 C	2.0646	Adder	2.43
926202	AC1-098 E	1.2300	Adder	1.45
926211	AC1-099 C	0.6919	Adder	0.81
926212	AC1-099 E	0.4063	Adder	0.48
927024	AC1-189 C	2.6022	Adder	3.06
927025	AC1-189 E	1.2962	Adder	1.52
927145	AC1-208 C	3.1800	Adder	3.74
927146	AC1-208 E	1.4063	Adder	1.65
932631	AC2-084 C	2.9432	Adder	3.46
932632	AC2-084 E	1.4496	Adder	1.71
934331	AD1-057 C O1	3.8589	Adder	4.54
934332	AD1-057 E O1	2.0585	Adder	2.42
934615	AD1-087 C	2.2833	Adder	2.69
934616	AD1-087 E	0.9771	Adder	1.15
935171	AD1-152 C O1	2.5080	Adder	2.95
935172	AD1-152 E O1	1.6720	Adder	1.97
936361	AD2-046 C O1	2.7873	Adder	3.28
936362	AD2-046 E O1	1.2818	Adder	1.51
936761	AD2-097 C	-0.6246	Adder	-0.73
936762	AD2-097 E	-3.1229	Adder	-3.67
937481	AD2-202 C O1	0.6688	Adder	0.79
937482	AD2-202 E O1	0.3762	Adder	0.44
938494	AE1-068_C1	10.9275	Adder	12.86
938497	AE1-068_C2	10.9275	Adder	12.86
938498	AE1-068_E1	6.0407	Adder	7.11
938499	AE1-068_E2	6.0407	Adder	7.11
938504	AE1-069_C1	8.3280	Adder	9.8
938507	AE1-069_C2	8.9795	Adder	10.56
938508	AE1-069_E1	4.7375	Adder	5.57
938509	AE1-069_E2	5.1040	Adder	6.0
939181	AE1-148 C	2.7425	Adder	3.23
939182	AE1-148 E	1.8283	Adder	2.15
939195	AE1-149 C	3.0748	Adder	3.62
939196	AE1-149 E	2.0499	Adder	2.41
939414	AE1-173_C1	8.6908	Adder	10.22
939415	AE1-173_C2	7.4493	Adder	8.76
939416	AE1-173_C3	8.6908	Adder	10.22
939423	AE1-173_E1	5.7939	Adder	6.82

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
939424	AE1-173_E2	4.9662	Adder	5.84
939425	AE1-173_E3	5.7939	Adder	6.82
940431	AE2-027 C O1	11.6849	50/50	11.6849
940432	AE2-027 E O1	7.7899	50/50	7.7899
940471	AE2-031 C	11.9030	Adder	14.0
940472	AE2-031 E	7.9353	Adder	9.34
940481	AE2-033 C	13.8689	50/50	13.8689
940482	AE2-033 E	9.3498	50/50	9.3498
940541	AE2-040	2.5257	50/50	2.5257
940571	AE2-044 C	1.4889	Adder	1.75
940572	AE2-044 E	0.6381	Adder	0.75
940651	AE2-052	1.0249	Adder	1.21
940661	AE2-053 O1	1.0157	Adder	1.19
941031	AE2-094 C	14.3397	Adder	16.87
941032	AE2-094 E	6.4224	Adder	7.56
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.1715	Adder	0.2
942161	AE2-228 C	-2.0705	Adder	-2.44
942371	AE2-250 C O1	13.9936	50/50	13.9936
942372	AE2-250 E O1	7.3855	50/50	7.3855
942451	AE2-258	0.6907	Adder	0.81
942471	AE2-260 C O1	10.4773	50/50	10.4773
942472	AE2-260 E O1	14.8607	50/50	14.8607
942931	AE2-313 C	12.8656	Adder	15.14
942932	AE2-313 E	8.5771	Adder	10.09
943171	AE2-346 C	0.4122	Adder	0.48
943172	AE2-346 E	0.1767	Adder	0.21
943911	AF1-059	6.6545	Adder	7.83
944011	AF1-069 C	4.6853	Adder	5.51
944012	AF1-069 E	1.8201	Adder	2.14
944141	AF1-082	0.9572	Adder	1.13
945811	AF1-246 C O1	2.3940	Adder	2.82
945812	AF1-246 E O1	3.3061	Adder	3.89
946011	AF1-266	11.6093	50/50	11.6093
946261	AF1-291 C	-1.2641	Adder	-1.49
946281	AF1-292 C	0.9362	50/50	0.9362
946282	AF1-292 E	0.6311	50/50	0.6311
957481	AF2-042 C	17.1003	Adder	20.12
957482	AF2-042 E	11.4002	Adder	13.41
957521	AF2-046 C	4.9159	Adder	5.78
957522	AF2-046 E	2.4727	Adder	2.91
957861	AF2-080 C	2.3634	Adder	2.78
957862	AF2-080 E	1.0477	Adder	1.23
958141	AF2-108	4.4863	50/50	4.4863
959651	AF2-256 C	-0.5176	Adder	-0.61
959681	AF2-259 C	6.7295	50/50	6.7295
959682	AF2-259 E	4.4863	50/50	4.4863
959751	AF2-266	2.6155	Adder	3.08
960081	AF2-299 C	1.5779	50/50	1.5779
960082	AF2-299 E	1.0519	50/50	1.0519
961671	AG1-007 C	0.2072	Adder	0.46
961672	AG1-007 E	0.1157	Adder	0.26

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961681	AG1-008 C	2.6106	Adder	5.79
961682	AG1-008 E	1.3053	Adder	2.9
961931	AG1-036 C	0.2110	Adder	0.47
961932	AG1-036 E	0.1407	Adder	0.31
961941	AG1-037 C	0.0780	Adder	0.17
961942	AG1-037 E	0.0520	Adder	0.12
962271	AG1-075 C O2	14.5234	50/50	14.5234
962272	AG1-075 E O2	8.8511	50/50	8.8511
962331	AG1-082 C	0.3121	Adder	0.69
962332	AG1-082 E	0.2081	Adder	0.46
962341	AG1-083 C	0.3121	Adder	0.69
962342	AG1-083 E	0.2081	Adder	0.46
962351	AG1-084 C	0.2727	Adder	0.61
962352	AG1-084 E	0.1818	Adder	0.4
962361	AG1-085 C	0.2727	Adder	0.61
962362	AG1-085 E	0.1818	Adder	0.4
962441	AG1-093 C O2	2.3989	Adder	5.32
962442	AG1-093 E O2	0.7301	Adder	1.62
962571	AG1-106 C	1.3687	Adder	3.04
962572	AG1-106 E	0.6207	Adder	1.38
963041	AG1-153 C	1.0525	Adder	2.34
963042	AG1-153 E	1.5788	Adder	3.5
963111	AG1-160 C	1.0680	Adder	2.37
963112	AG1-160 E	1.6019	Adder	3.56
963291	AG1-178 C O2	11.0887	Adder	24.61
963301	AG1-179 C	1.3223	Adder	2.94
963311	AG1-180	0.6443	Adder	1.43
963351	AG1-184 O2	5.9740	Adder	13.26
964241	AG1-285 C O2	2.3067	Adder	5.12
964242	AG1-285 E O2	1.5378	Adder	3.41
964501	AG1-313 C O2	0.8554	Adder	1.9
964502	AG1-313 E O2	0.5703	Adder	1.27
964801	AG1-343 C	0.9166	Adder	2.03
964802	AG1-343 E	0.7202	Adder	1.6
965291	AG1-394 C	0.3144	Adder	0.7
965292	AG1-394 E	0.2096	Adder	0.47
965451	AG1-413 C O2	1.4484	Adder	3.22
965452	AG1-413 E O2	0.9656	Adder	2.14
965601	AG1-428 C O2	1.1039	Adder	2.45
965602	AG1-428 E O2	0.7346	Adder	1.63
965711	AG1-439 C O1	3.9653	Adder	8.8
965712	AG1-439 E O1	2.6435	Adder	5.87
965721	AG1-440 C	1.2753	Adder	2.83
965722	AG1-440 E	0.8502	Adder	1.89
965731	AG1-441 C	1.2753	Adder	2.83
965732	AG1-441 E	0.8502	Adder	1.89
965761	AG1-444 O1	2.1148	Adder	4.69
965771	AG1-445	0.7369	Adder	1.64
965781	AG1-446	0.7369	Adder	1.64
965811	AG1-449	4.4233	Adder	9.82
966361	AG1-505 C	3.0648	Adder	6.8
966362	AG1-505 E	2.0432	Adder	4.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966371	AG1-506 C	3.0648	Adder	6.8
966372	AG1-506 E	2.0432	Adder	4.54
966621	AG1-532 C	0.8520	50/50	0.8520
966622	AG1-532 E	0.5680	50/50	0.5680
966751	AG1-546 C	3.0090	Adder	6.68
966752	AG1-546 E	1.6145	Adder	3.58
966811	AG1-552 C	0.4343	Adder	0.96
966812	AG1-552 E	0.1861	Adder	0.41
WEC	WEC	0.2876	Confirmed LTF	0.2876
LGEE	LGEE	0.5912	Confirmed LTF	0.5912
CPL	CPL	3.0467	Confirmed LTF	3.0467
CBM-W2	CBM-W2	12.7142	Confirmed LTF	12.7142
NY	NY	0.4186	Confirmed LTF	0.4186
TVA	TVA	2.4052	Confirmed LTF	2.4052
O-066	O-066	5.8888	Confirmed LTF	5.8888
SIGE	SIGE	0.1976	Confirmed LTF	0.1976
CBM-S2	CBM-S2	36.2790	Confirmed LTF	36.2790
CBM-S1	CBM-S1	0.5993	Confirmed LTF	0.5993
G-007	G-007	0.9261	Confirmed LTF	0.9261
MEC	MEC	1.7288	Confirmed LTF	1.7288
LAGN	LAGN	2.9908	Confirmed LTF	2.9908
AA2-074	AA2-074	2.0124	LTF	2.0124
CBM-W1	CBM-W1	12.0151	Confirmed LTF	12.0151

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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
174304443	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	179.89	181.78	DC	22.7

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

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

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

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

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

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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
168830412	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P1-2: LN 2012-B	single	678.68	158.77	161.65	DC	19.56

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

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

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

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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
174479059	314525	6KINGFORK	DVP	314522	6CHCKTUK	DVP	1	DVP_P4-2: 531T582	breaker	830.0	110.94	111.75	DC	14.88

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313717	6SLIGO L2192	0.8311	Adder	0.98
314189	6PAPERMILL	-2.8044	Adder	-3.3
314466	6FENTRES	0.6963	Adder	0.82
314525	6KINGFORK	7.7448	50/50	7.7448
314539	3UNCAMP	4.0905	50/50	4.0905
314541	3WATKINS	0.4390	50/50	0.4390
314550	6HICKORY	1.3421	Adder	1.58
314594	6PLYMOTH	0.0446	Adder	0.05
314632	6AYDLETOLD	0.8586	Adder	1.01
314639	6TANGLEW	0.2223	50/50	0.2223
315073	1STONECA	-2.3119	Adder	-2.72
315115	1S HAMPT1	0.9106	50/50	0.9106
315293	1DOMTR9	3.1538	Adder	3.71
315294	1DOMTR10	3.8649	Adder	4.55
315605	6W1-029WIND	0.7347	50/50	0.7347
315611	6Z1-036WIND	0.6720	50/50	0.6720
315614	AA2-178 C	0.8979	50/50	0.8979
316103	AB2-015 C	5.6355	50/50	5.6355
316104	AB2-015 E	4.6211	50/50	4.6211
316132	AB2-190 C	-11.2222	Adder	-13.2
316140	AB2-099 C (Suspended)	0.2608	Adder	0.31
316141	AB2-099 E (Suspended)	0.1118	Adder	0.13
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.4928	50/50	0.4928
316151	AD2-215 E (Withdrawn : 01/14/2021)	1.6574	50/50	1.6574
900672	V4-068 E	0.1360	Adder	0.16
901082	W1-029 E	31.1660	50/50	31.1660
913392	Y1-086 E	0.9927	Adder	1.17
916042	Z1-036 E (Suspended)	28.5366	50/50	28.5366
917122	Z2-027 E	0.6038	50/50	0.6038
917332	Z2-043 E	0.4288	Adder	0.5
917512	Z2-088 E OP1	2.5102	Adder	2.95
918492	AA1-063AE OP	1.4637	Adder	1.72
918512	AA1-065 E OP	1.8982	Adder	2.23
918532	AA1-067 E	0.2664	Adder	0.31
919152	AA1-139 E	2.3556	Adder	2.77
919692	AA2-053 E OP	1.2158	Adder	1.43
920042	AA2-088 E OP	4.9796	Adder	5.86
920692	AA2-178 E	2.4391	50/50	2.4391
923832	AB2-022 E	0.5604	Adder	0.66
925122	AB2-169 E	2.4895	Adder	2.93

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925863	AC1-065 C	-3.4546	Adder	-4.06
926201	AC1-098 C	2.0755	Adder	2.44
926202	AC1-098 E	1.2365	Adder	1.45
926211	AC1-099 C	0.6955	Adder	0.82
926212	AC1-099 E	0.4085	Adder	0.48
926784	AC1-164 C	-11.7319	Adder	-13.8
927024	AC1-189 C	2.8519	Adder	3.36
927025	AC1-189 E	1.4206	Adder	1.67
927145	AC1-208 C	2.7863	Adder	3.28
927146	AC1-208 E	1.2322	Adder	1.45
932591	AC2-079 C O1	2.3271	Adder	2.74
932592	AC2-079 E O1	3.7968	Adder	4.47
932631	AC2-084 C	2.9587	Adder	3.48
932632	AC2-084 E	1.4573	Adder	1.71
933732	AC2-196 E	0.3740	Adder	0.44
933991	AD1-023 C	6.3449	Adder	7.46
933992	AD1-023 E	3.4542	Adder	4.06
934061	AD1-033 C	2.3259	Adder	2.74
934062	AD1-033 E	1.5506	Adder	1.82
934141	AD1-041 C	-2.5974	Adder	-3.06
934521	AD1-076 C	26.4799	Adder	31.15
934522	AD1-076 E	13.4835	Adder	15.86
935111	AD1-144 C	0.4878	50/50	0.4878
935112	AD1-144 E	1.6893	50/50	1.6893
936401	AD2-051 C O1	4.0968	Adder	4.82
936402	AD2-051 E O1	1.7591	Adder	2.07
936661	AD2-085 C	2.1318	50/50	2.1318
936662	AD2-085 E	3.4782	50/50	3.4782
937221	AD2-160 C O1	2.0587	Adder	2.42
937222	AD2-160 E O1	1.0795	Adder	1.27
938222	AE1-035 E	0.5220	Adder	0.61
938535	AE1-072 C	6.7539	Adder	7.95
938536	AE1-072 E	3.4793	Adder	4.09
938771	AE1-103 C	2.5526	50/50	2.5526
938772	AE1-103 E	3.5250	50/50	3.5250
939431	AE1-175 C	-1.6036	Adder	-1.89
940231	AE2-005 C	-0.6281	Adder	-0.74
940491	AE2-034 C	4.2685	50/50	4.2685
940492	AE2-034 E	1.8293	50/50	1.8293
940552	AE2-041 BAT	3.8100	Merchant Transmission	3.8100
940891	AE2-078 C	-2.0407	Adder	-2.4
940901	AE2-079 C	-2.0407	Adder	-2.4
941101	AE2-104 C O1	2.7283	50/50	2.7283
941102	AE2-104 E O1	4.3375	50/50	4.3375
941281	AE2-122 C O1	7.9634	Adder	9.37
941282	AE2-122 E O1	32.1344	Adder	37.81
941291	AE2-123 C O1	8.1839	Adder	9.63
941292	AE2-123 E O1	31.9139	Adder	37.55
941301	AE2-124 C O1	7.6631	Adder	9.02
941302	AE2-124 E O1	33.6248	Adder	39.56
941501	AE2-147 C	10.7469	50/50	10.7469
941502	AE2-147 E	7.1646	50/50	7.1646

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2581	Adder	0.3
942131	AE2-225 C	2.0101	50/50	2.0101
942132	AE2-225 E	1.3401	50/50	1.3401
942171	AE2-229 C	1.5076	50/50	1.5076
942172	AE2-229 E	1.0051	50/50	1.0051
942341	AE2-247 C	0.9199	50/50	0.9199
942342	AE2-247 E	1.2703	50/50	1.2703
942401	AE2-253 C	2.1654	Adder	2.55
942402	AE2-253 E	0.9728	Adder	1.14
942552	AE2-270 BAT	18.6900	50/50	18.6900
943171	AE2-346 C	0.6260	Adder	0.74
943172	AE2-346 E	0.2683	Adder	0.32
943461	AF1-017 C	0.8323	50/50	0.8323
943462	AF1-017 E	1.3579	50/50	1.3579
943472	AF1-018 BAT	3.8100	Merchant Transmission	3.8100
943611	AF1-032 C	1.6416	50/50	1.6416
943612	AF1-032 E	0.8711	50/50	0.8711
943621	AF1-033 C	-2.0407	Adder	-2.4
944581	AF1-123 C O1	14.1473	Adder	16.64
944582	AF1-123 E O1	32.3933	Adder	38.11
944591	AF1-124 C O1	14.1473	Adder	16.64
944592	AF1-124 E O1	32.3933	Adder	38.11
944601	AF1-125 C O1	14.1473	Adder	16.64
944602	AF1-125 E O1	32.3933	Adder	38.11
944871	AF1-152 C	3.5823	50/50	3.5823
944872	AF1-152 E	2.3882	50/50	2.3882
945363	AF1-201 BAT	3.5272	50/50	3.5272
945711	AF1-236 C O1	46.7295	50/50	46.7295
945712	AF1-236 E O1	28.8629	50/50	28.8629
957491	AF2-043 C	2.0101	50/50	2.0101
957492	AF2-043 E	1.3401	50/50	1.3401
957521	AF2-046 C	7.6262	Adder	8.97
957522	AF2-046 E	3.8360	Adder	4.51
957531	AF2-047 C	10.1427	50/50	10.1427
957532	AF2-047 E	5.1018	50/50	5.1018
957821	AF2-076 C	4.8231	50/50	4.8231
957822	AF2-076 E	3.2154	50/50	3.2154
957861	AF2-080 C	2.5902	Adder	3.05
957862	AF2-080 E	1.1482	Adder	1.35
957871	AF2-081 C	3.6642	Adder	4.31
957872	AF2-081 E	1.5704	Adder	1.85
958161	AF2-110 C	1.1248	50/50	1.1248
958162	AF2-110 E	1.7592	50/50	1.7592
959511	AF2-242 C	3.0152	Adder	3.55
959512	AF2-242 E	2.3452	Adder	2.76
961091	AF2-400 C	0.3043	50/50	0.3043
961092	AF2-400 E	0.4993	50/50	0.4993
961612	AG1-000B BAT	9.7567	50/50	9.7567
961681	AG1-008 C	4.0500	Adder	8.99
961682	AG1-008 E	2.0250	Adder	4.5
961691	AG1-009 BAT	7.8054	50/50	7.8054

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961712	AG1-011 BAT	20.8144	50/50	20.8144
961851	AG1-027 C	13.0729	50/50	13.0729
961852	AG1-027 E	7.2266	50/50	7.2266
961931	AG1-036 C	0.3237	Adder	0.72
961932	AG1-036 E	0.2158	Adder	0.48
961941	AG1-037 C	0.1185	Adder	0.26
961942	AG1-037 E	0.0790	Adder	0.18
962132	AG1-057 BAT	1.0096	Merchant Transmission	1.0096
962331	AG1-082 C	0.4739	Adder	1.05
962332	AG1-082 E	0.3160	Adder	0.7
962341	AG1-083 C	0.4739	Adder	1.05
962342	AG1-083 E	0.3160	Adder	0.7
962351	AG1-084 C	0.4104	Adder	0.91
962352	AG1-084 E	0.2736	Adder	0.61
962361	AG1-085 C	0.4104	Adder	0.91
962362	AG1-085 E	0.2736	Adder	0.61
963613	AG1-210 BAT	0.3898	Merchant Transmission	0.3898
963821	AG1-235 C O2	4.0565	Adder	9.0
963822	AG1-235 E O2	2.7044	Adder	6.0
964023	AG1-256 BAT	0.7207	Merchant Transmission	0.7207
964491	AG1-312 C O1	4.7151	Adder	10.47
964492	AG1-312 E O1	1.1788	Adder	2.62
964501	AG1-313 C O2	0.8712	Adder	1.93
964502	AG1-313 E O2	0.5808	Adder	1.29
964801	AG1-343 C	1.4471	Adder	3.21
964802	AG1-343 E	1.1370	Adder	2.52
964951	AG1-359 O1	4.4647	Adder	9.91
965181	AG1-383 C	0.4787	Adder	1.06
965182	AG1-383 E	0.1418	Adder	0.31
965291	AG1-394 C	0.4977	Adder	1.1
965292	AG1-394 E	0.3318	Adder	0.74
965631	AG1-431	27.0539	50/50	27.0539
965691	AG1-437 C O1	2.5738	Adder	5.71
965692	AG1-437 E O1	1.7159	Adder	3.81
965701	AG1-438 C O1	2.5738	Adder	5.71
965702	AG1-438 E O1	1.7159	Adder	3.81
965711	AG1-439 C O1	4.0234	Adder	8.93
965712	AG1-439 E O1	2.6823	Adder	5.95
965741	AG1-442 O1	1.5014	Adder	3.33
965751	AG1-443 O1	1.5014	Adder	3.33
965761	AG1-444 O1	2.1458	Adder	4.76
966491	AG1-518 O2	8.1975	50/50	8.1975
966663	AG1-536 BAT	3.3231	Merchant Transmission	3.3231
966801	AG1-551 C	0.4699	Adder	1.04
966802	AG1-551 E	0.2014	Adder	0.45
966931	AG1-431A	20.3260	50/50	20.3260
WEC	WEC	0.2205	Confirmed LTF	0.2205
LGEE	LGEE	0.4480	Confirmed LTF	0.4480
CPL	CPL	1.8878	Confirmed LTF	1.8878
CBM-W2	CBM-W2	8.7270	Confirmed LTF	8.7270
NY	NY	0.0935	Confirmed LTF	0.0935
TVA	TVA	1.5876	Confirmed LTF	1.5876

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
O-066	O-066	1.5412	Confirmed LTF	1.5412
SIGE	SIGE	0.1028	Confirmed LTF	0.1028
CBM-S2	CBM-S2	22.1746	Confirmed LTF	22.1746
CBM-S1	CBM-S1	0.4020	Confirmed LTF	0.4020
G-007	G-007	0.2447	Confirmed LTF	0.2447
MEC	MEC	1.2617	Confirmed LTF	1.2617
LAGN	LAGN	1.9792	Confirmed LTF	1.9792
CBM-W1	CBM-W1	9.3934	Confirmed LTF	9.3934

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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
174478954	314537	6SUFFOLK	DVP	314928	8SUFFOLK	DVP	2	DVP_P4-2: 211042	breaker	1004.3	129.91	132.96	DC	30.6

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.5556	Adder	4.18
313526	AB2-022 C	0.2588	50/50	0.2588
314525	6KINGFORK	8.9644	50/50	8.9644
314539	3UNCAMP	10.5357	50/50	10.5357
314541	3WATKINS	1.1193	50/50	1.1193
314582	3KELFORD	0.3945	50/50	0.3945
314589	3MURPHYS	0.1126	50/50	0.1126
314594	6PLYMOTH	0.1151	50/50	0.1151
314638	6ELIZ CT	0.1513	50/50	0.1513
314639	6TANGLEW	0.3550	50/50	0.3550
315115	1S HAMPT1	2.3182	50/50	2.3182
315126	1ROARAP2	1.0291	50/50	1.0291
315128	1ROARAP4	0.9821	50/50	0.9821
315131	1EDGE CMA (Deactivation : 22/04/2019)	4.6559	Adder	5.48
315132	1EDGE CMB (Deactivation : 22/04/2019)	4.6559	Adder	5.48
315141	1GASTONB	2.0688	50/50	2.0688
315292	1DOMTR78	1.5772	50/50	1.5772
315293	1DOMTR9	8.1576	50/50	8.1576
315294	1DOMTR10	9.9970	50/50	9.9970
315601	1CONETO E2SOL	1.0236	50/50	1.0236
315602	1HOLLOMAN SOL	1.8957	50/50	1.8957
315605	6W1-029 WIND	1.5677	50/50	1.5677
315606	3AA2-053 SOLA	1.2409	50/50	1.2409
315607	3AA1-063 SOLA	1.3502	50/50	1.3502
315608	3AA2-088 SOLA	1.4055	50/50	1.4055
315611	6Z1-036 WIND	1.3735	50/50	1.3735
315614	AA2-178 C	1.9225	50/50	1.9225
316083	AB2-161 C	2.7537	50/50	2.7537
316084	AB2-161 E	4.4928	50/50	4.4928
316088	AB2-174 E	3.1712	Adder	3.73
316103	AB2-015 C	14.4330	50/50	14.4330
316104	AB2-015 E	11.8351	50/50	11.8351
316140	AB2-099 C (Suspended)	0.7369	50/50	0.7369
316141	AB2-099 E (Suspended)	0.3158	50/50	0.3158
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.5704	50/50	0.5704
316151	AD2-215 E (Withdrawn : 01/14/2021)	1.9184	50/50	1.9184
900672	V4-068 E	0.3911	50/50	0.3911
901082	W1-029 E	66.4976	50/50	66.4976

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
913392	Y1-086 E	1.5645	50/50	1.5645
916042	Z1-036 E (Suspended)	58.3274	50/50	58.3274
917122	Z2-027 E	0.9644	50/50	0.9644
917332	Z2-043 E	1.1767	50/50	1.1767
917342	Z2-044 E	0.3203	Adder	0.38
917512	Z2-088 E OP1	6.0715	50/50	6.0715
918492	AA1-063AE OP	4.0354	50/50	4.0354
918512	AA1-065 E OP	5.3801	50/50	5.3801
918532	AA1-067 E	0.6786	50/50	0.6786
919692	AA2-053 E OP	3.2294	50/50	3.2294
919702	AA2-057 E OP	2.0397	Adder	2.4
920042	AA2-088 E OP	14.5347	50/50	14.5347
920592	AA2-165 E	0.2803	Adder	0.33
920692	AA2-178 E	5.2224	50/50	5.2224
922923	AB1-081 E OP	1.9368	Adder	2.28
923262	AB1-132 C OP (Suspended)	8.5116	Adder	10.01
923263	AB1-132 E OP (Suspended)	3.6478	Adder	4.29
923573	AB1-173 E OP	0.5545	Adder	0.65
923832	AB2-022 E	0.8832	50/50	0.8832
923991	AB2-040 C O1	3.8724	Adder	4.56
923992	AB2-040 E O1	3.1683	Adder	3.73
924152	AB2-059 E OP	2.7438	Adder	3.23
925121	AB2-169 C	1.1271	50/50	1.1271
925122	AB2-169 E	6.4113	50/50	6.4113
925591	AC1-034 C	3.4499	Adder	4.06
925592	AC1-034 E	2.6025	Adder	3.06
926070	AC1-086 C	12.5343	Adder	14.75
926071	AC1-086 E	5.7048	Adder	6.71
926201	AC1-098 C	5.3843	50/50	5.3843
926202	AC1-098 E	3.2077	50/50	3.2077
926211	AC1-099 C	1.8043	50/50	1.8043
926212	AC1-099 E	1.0597	50/50	1.0597
927024	AC1-189 C	7.0296	50/50	7.0296
927025	AC1-189 E	3.5016	50/50	3.5016
927145	AC1-208 C	7.0297	50/50	7.0297
927146	AC1-208 E	3.1088	50/50	3.1088
932581	AC2-078 C O1	3.1314	50/50	3.1314
932582	AC2-078 E O1	5.1090	50/50	5.1090
932591	AC2-079 C O1	8.2378	50/50	8.2378
932592	AC2-079 E O1	13.4406	50/50	13.4406
932631	AC2-084 C	7.6755	50/50	7.6755
932632	AC2-084 E	3.7805	50/50	3.7805
933991	AD1-023 C	16.8500	50/50	16.8500
933992	AD1-023 E	9.1732	50/50	9.1732
934331	AD1-057 C O1	5.4622	Adder	6.43
934332	AD1-057 E O1	2.9137	Adder	3.43
934521	AD1-076 C	68.7164	50/50	68.7164
934522	AD1-076 E	34.9903	50/50	34.9903
934575	AD1-082 C	6.2755	50/50	6.2755
934576	AD1-082 E	3.5798	50/50	3.5798
935111	AD1-144 C	0.5646	50/50	0.5646

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935112	AD1-144 E	1.9553	50/50	1.9553
936401	AD2-051 C O1	11.5961	50/50	11.5961
936402	AD2-051 E O1	4.9793	50/50	4.9793
936661	AD2-085 C	5.9904	50/50	5.9904
936662	AD2-085 E	9.7737	50/50	9.7737
938221	AE1-035 C	0.4740	50/50	0.4740
938222	AE1-035 E	1.4795	50/50	1.4795
938634	AE1-085 C	6.5435	50/50	6.5435
938635	AE1-085 E	3.2717	50/50	3.2717
938771	AE1-103 C	6.6144	50/50	6.6144
938772	AE1-103 E	9.1341	50/50	9.1341
939195	AE1-149 C	5.0174	Adder	5.9
939196	AE1-149 E	3.3449	Adder	3.94
940061	AE2-000BC O1	9.4632	50/50	9.4632
940062	AE2-000BE O1	6.3088	50/50	6.3088
940491	AE2-034 C	9.1392	50/50	9.1392
940492	AE2-034 E	3.9168	50/50	3.9168
940571	AE2-044 C	2.2596	Adder	2.66
940572	AE2-044 E	0.9684	Adder	1.14
940651	AE2-052	1.6725	Adder	1.97
941101	AE2-104 C O1	7.2344	50/50	7.2344
941102	AE2-104 E O1	11.5017	50/50	11.5017
941501	AE2-147 C	22.9302	50/50	22.9302
941502	AE2-147 E	15.2868	50/50	15.2868
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.2124	50/50	0.2124
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.7249	50/50	0.7249
942131	AE2-225 C	5.5739	50/50	5.5739
942132	AE2-225 E	3.7159	50/50	3.7159
942171	AE2-229 C	4.1804	50/50	4.1804
942172	AE2-229 E	2.7869	50/50	2.7869
942341	AE2-247 C	2.5876	50/50	2.5876
942342	AE2-247 E	3.5734	50/50	3.5734
943171	AE2-346 C	1.7685	50/50	1.7685
943172	AE2-346 E	0.7579	50/50	0.7579
943461	AF1-017 C	2.3412	50/50	2.3412
943462	AF1-017 E	3.8198	50/50	3.8198
943611	AF1-032 C	4.5520	50/50	4.5520
943612	AF1-032 E	2.4153	50/50	2.4153
944141	AF1-082	1.4526	Adder	1.71
944871	AF1-152 C	7.6434	50/50	7.6434
944872	AF1-152 E	5.0956	50/50	5.0956
945711	AF1-236 C O1	100.0525	50/50	100.0525
945712	AF1-236 E O1	61.7984	50/50	61.7984
957491	AF2-043 C	5.5739	50/50	5.5739
957492	AF2-043 E	3.7159	50/50	3.7159
957521	AF2-046 C	21.8562	50/50	21.8562
957522	AF2-046 E	10.9938	50/50	10.9938
957531	AF2-047 C	21.7165	50/50	21.7165
957532	AF2-047 E	10.9235	50/50	10.9235
957821	AF2-076 C	13.2816	50/50	13.2816
957822	AF2-076 E	8.8544	50/50	8.8544

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957861	AF2-080 C	6.3845	50/50	6.3845
957862	AF2-080 E	2.8303	50/50	2.8303
958161	AF2-110 C	2.9825	50/50	2.9825
958162	AF2-110 E	4.6649	50/50	4.6649
959511	AF2-242 C	7.7391	50/50	7.7391
959512	AF2-242 E	6.0193	50/50	6.0193
961091	AF2-400 C	0.7794	50/50	0.7794
961092	AF2-400 E	1.2788	50/50	1.2788
961671	AG1-007 C	0.3996	Adder	0.89
961672	AG1-007 E	0.2231	Adder	0.5
961681	AG1-008 C	21.9000	50/50	21.9000
961682	AG1-008 E	10.9500	50/50	10.9500
961851	AG1-027 C	34.3857	50/50	34.3857
961852	AG1-027 E	19.0083	50/50	19.0083
961931	AG1-036 C	1.7375	50/50	1.7375
961932	AG1-036 E	1.1583	50/50	1.1583
961941	AG1-037 C	0.6316	50/50	0.6316
961942	AG1-037 E	0.4211	50/50	0.4211
962331	AG1-082 C	2.5264	50/50	2.5264
962332	AG1-082 E	1.6842	50/50	1.6842
962341	AG1-083 C	2.5264	50/50	2.5264
962342	AG1-083 E	1.6842	50/50	1.6842
962351	AG1-084 C	2.1746	50/50	2.1746
962352	AG1-084 E	1.4497	50/50	1.4497
962361	AG1-085 C	2.1746	50/50	2.1746
962362	AG1-085 E	1.4497	50/50	1.4497
962571	AG1-106 C	1.8474	Adder	4.1
962572	AG1-106 E	0.8378	Adder	1.86
964491	AG1-312 C O1	24.9962	50/50	24.9962
964492	AG1-312 E O1	6.2490	50/50	6.2490
964501	AG1-313 C O2	4.4527	50/50	4.4527
964502	AG1-313 E O2	2.9685	50/50	2.9685
964801	AG1-343 C	7.9145	50/50	7.9145
964802	AG1-343 E	6.2186	50/50	6.2186
965291	AG1-394 C	2.7265	50/50	2.7265
965292	AG1-394 E	1.8177	50/50	1.8177
965631	AG1-431	57.9251	50/50	57.9251
965691	AG1-437 C O1	13.1346	50/50	13.1346
965692	AG1-437 E O1	8.7564	50/50	8.7564
965701	AG1-438 C O1	13.1346	50/50	13.1346
965702	AG1-438 E O1	8.7564	50/50	8.7564
965711	AG1-439 C O1	18.3615	50/50	18.3615
965712	AG1-439 E O1	12.2410	50/50	12.2410
965741	AG1-442 O1	7.6618	50/50	7.6618
965751	AG1-443 O1	7.6618	50/50	7.6618
965761	AG1-444 O1	9.7928	50/50	9.7928
966491	AG1-518 O2	22.4465	50/50	22.4465
966731	AG1-544 C	5.1105	50/50	5.1105
966732	AG1-544 E	2.7417	50/50	2.7417
966741	AG1-545 C	1.7435	50/50	1.7435
966742	AG1-545 E	0.9347	50/50	0.9347
966751	AG1-546 C	4.1410	Adder	9.19

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966752	AG1-546 E	2.2219	Adder	4.93
966801	AG1-551 C	2.2677	50/50	2.2677
966802	AG1-551 E	0.9719	50/50	0.9719
966811	AG1-552 C	1.6340	50/50	1.6340
966812	AG1-552 E	0.7003	50/50	0.7003
966931	AG1-431A	43.5200	50/50	43.5200
WEC	WEC	0.1244	Confirmed LTF	0.1244
LGEE	LGEE	0.2557	Confirmed LTF	0.2557
CPL	CPL	1.8441	Confirmed LTF	1.8441
CBM-W2	CBM-W2	5.8419	Confirmed LTF	5.8419
NY	NY	0.2218	Confirmed LTF	0.2218
TVA	TVA	1.1214	Confirmed LTF	1.1214
O-066	O-066	3.0622	Confirmed LTF	3.0622
SIGE	SIGE	0.0941	Confirmed LTF	0.0941
CBM-S2	CBM-S2	18.9695	Confirmed LTF	18.9695
CBM-S1	CBM-S1	0.2770	Confirmed LTF	0.2770
G-007	G-007	0.4809	Confirmed LTF	0.4809
MEC	MEC	0.7691	Confirmed LTF	0.7691
LAGN	LAGN	1.4000	Confirmed LTF	1.4000
CBM-W1	CBM-W1	5.1594	Confirmed LTF	5.1594

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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
174479007	314537	6SUFFOLK	DVP	314928	8SUFFOLK	DVP	1	DVP_P4-2: 28942	breaker	1053.5	118.67	120.05	DC	32.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.6661	Adder	4.31
313526	AB2-022 C	0.3764	50/50	0.3764
313717	6SLIGO L2192	1.2774	Adder	1.5
314539	3UNCAMP	10.5221	50/50	10.5221
314541	3WATKINS	1.1206	50/50	1.1206
314582	3KELFORD	0.4058	50/50	0.4058
314589	3MURPHYS	0.1142	50/50	0.1142
314594	6PLYMOTH	0.1247	50/50	0.1247
314632	6AYDLETOLD	1.3800	Adder	1.62
314638	6ELIZ CT	0.2200	50/50	0.2200
314639	6TANGLEW	0.4642	50/50	0.4642
315115	1S HAMPT1	2.3217	50/50	2.3217
315126	1ROARAP2	1.0594	50/50	1.0594
315128	1ROARAP4	1.0110	50/50	1.0110
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.9216	Adder	5.79
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.9216	Adder	5.79
315292	1DOMTR78	1.6937	50/50	1.6937
315293	1DOMTR9	8.7602	50/50	8.7602
315294	1DOMTR10	10.7355	50/50	10.7355
315602	1HOLLOMANSOL	1.9482	50/50	1.9482
315605	6W1-029WIND	1.7506	50/50	1.7506
315606	3AA2-053SOLA	1.2765	50/50	1.2765
315607	3AA1-063SOLA	1.3753	50/50	1.3753
315608	3AA2-088SOLA	1.4164	50/50	1.4164
315611	6Z1-036WIND	1.5612	50/50	1.5612
315614	AA2-178 C	2.1172	50/50	2.1172
316083	AB2-161 C	2.6049	50/50	2.6049
316084	AB2-161 E	4.2501	50/50	4.2501
316088	AB2-174 E	3.2713	Adder	3.85
316103	AB2-015 C	14.4340	50/50	14.4340
316104	AB2-015 E	11.8359	50/50	11.8359
316129	AC1-054 C	3.5586	Adder	4.19
316140	AB2-099 C (Suspended)	0.7540	50/50	0.7540
316141	AB2-099 E (Suspended)	0.3231	50/50	0.3231
900672	V4-068 E	0.3966	50/50	0.3966
901082	W1-029 E	74.2571	50/50	74.2571
913392	Y1-086 E	2.2756	50/50	2.2756
916042	Z1-036 E (Suspended)	66.2996	50/50	66.2996
917122	Z2-027 E	1.2610	50/50	1.2610
917332	Z2-043 E	1.2105	50/50	1.2105

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
917342	Z2-044 E	0.3360	Adder	0.4
917512	Z2-088 E OP1	5.4230	Adder	6.38
918492	AA1-063AE OP	4.1102	50/50	4.1102
918512	AA1-065 E OP	5.5291	50/50	5.5291
918532	AA1-067 E	0.7104	50/50	0.7104
919152	AA1-139 E	3.4388	Adder	4.05
919692	AA2-053 E OP	3.3219	50/50	3.3219
919702	AA2-057 E OP	2.1294	Adder	2.51
920042	AA2-088 E OP	14.6475	50/50	14.6475
920592	AA2-165 E	0.2927	Adder	0.34
920692	AA2-178 E	5.7514	50/50	5.7514
922923	AB1-081 E OP	2.0449	Adder	2.41
923262	AB1-132 C OP (Suspended)	8.7929	Adder	10.34
923263	AB1-132 E OP (Suspended)	3.7684	Adder	4.43
923573	AB1-173 E OP	0.5717	Adder	0.67
923832	AB2-022 E	1.2846	50/50	1.2846
923991	AB2-040 C O1	3.9928	Adder	4.7
923992	AB2-040 E O1	3.2669	Adder	3.84
924152	AB2-059 E OP	2.8969	Adder	3.41
925121	AB2-169 C	1.2019	50/50	1.2019
925122	AB2-169 E	6.8365	50/50	6.8365
925591	AC1-034 C	3.6425	Adder	4.29
925592	AC1-034 E	2.7478	Adder	3.23
925785	AC1-054 E	1.6393	Adder	1.93
926070	AC1-086 C	12.9486	Adder	15.23
926071	AC1-086 E	5.8933	Adder	6.93
926201	AC1-098 C	5.5704	50/50	5.5704
926202	AC1-098 E	3.3186	50/50	3.3186
926211	AC1-099 C	1.8667	50/50	1.8667
926212	AC1-099 E	1.0963	50/50	1.0963
927024	AC1-189 C	7.3767	50/50	7.3767
927025	AC1-189 E	3.6745	50/50	3.6745
927145	AC1-208 C	7.2906	50/50	7.2906
927146	AC1-208 E	3.2242	50/50	3.2242
932581	AC2-078 C O1	2.5068	Adder	2.95
932582	AC2-078 E O1	4.0900	Adder	4.81
932591	AC2-079 C O1	8.0563	50/50	8.0563
932592	AC2-079 E O1	13.1444	50/50	13.1444
932631	AC2-084 C	7.9408	50/50	7.9408
932632	AC2-084 E	3.9112	50/50	3.9112
933991	AD1-023 C	17.9526	50/50	17.9526
933992	AD1-023 E	9.7734	50/50	9.7734
934331	AD1-057 C O1	5.7086	Adder	6.72
934332	AD1-057 E O1	3.0452	Adder	3.58
934521	AD1-076 C	74.1715	50/50	74.1715
934522	AD1-076 E	37.7680	50/50	37.7680
934575	AD1-082 C	5.9364	50/50	5.9364
934576	AD1-082 E	3.3864	50/50	3.3864
936401	AD2-051 C O1	11.9184	50/50	11.9184
936402	AD2-051 E O1	5.1176	50/50	5.1176
936661	AD2-085 C	5.9024	50/50	5.9024

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936662	AD2-085 E	9.6302	50/50	9.6302
937221	AD2-160 C O1	2.7718	Adder	3.26
937222	AD2-160 E O1	1.4535	Adder	1.71
938221	AE1-035 C	0.4871	50/50	0.4871
938222	AE1-035 E	1.5205	50/50	1.5205
938535	AE1-072 C	10.5979	Adder	12.47
938536	AE1-072 E	5.4595	Adder	6.42
938634	AE1-085 C	5.2169	Adder	6.14
938635	AE1-085 E	2.6084	Adder	3.07
938771	AE1-103 C	6.5965	50/50	6.5965
938772	AE1-103 E	9.1095	50/50	9.1095
940061	AE2-000BC O1	9.0090	50/50	9.0090
940062	AE2-000BE O1	6.0060	50/50	6.0060
940491	AE2-034 C	10.0649	50/50	10.0649
940492	AE2-034 E	4.3135	50/50	4.3135
940571	AE2-044 C	2.3857	Adder	2.81
940572	AE2-044 E	1.0224	Adder	1.2
941101	AE2-104 C O1	7.1764	50/50	7.1764
941102	AE2-104 E O1	11.4093	50/50	11.4093
941501	AE2-147 C	25.6059	50/50	25.6059
941502	AE2-147 E	17.0706	50/50	17.0706
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.2180	50/50	0.2180
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.7440	50/50	0.7440
942131	AE2-225 C	5.5153	50/50	5.5153
942132	AE2-225 E	3.6769	50/50	3.6769
942171	AE2-229 C	4.1365	50/50	4.1365
942172	AE2-229 E	2.7577	50/50	2.7577
942341	AE2-247 C	2.5493	50/50	2.5493
942342	AE2-247 E	3.5205	50/50	3.5205
942401	AE2-253 C	2.9155	Adder	3.43
942402	AE2-253 E	1.3099	Adder	1.54
943171	AE2-346 C	1.8095	50/50	1.8095
943172	AE2-346 E	0.7755	50/50	0.7755
943461	AF1-017 C	2.3065	50/50	2.3065
943462	AF1-017 E	3.7633	50/50	3.7633
943611	AF1-032 C	4.5042	50/50	4.5042
943612	AF1-032 E	2.3900	50/50	2.3900
944141	AF1-082	1.5337	Adder	1.8
944871	AF1-152 C	8.5353	50/50	8.5353
944872	AF1-152 E	5.6902	50/50	5.6902
945711	AF1-236 C O1	110.1865	50/50	110.1865
945712	AF1-236 E O1	68.0578	50/50	68.0578
957491	AF2-043 C	5.5153	50/50	5.5153
957492	AF2-043 E	3.6769	50/50	3.6769
957521	AF2-046 C	22.2005	50/50	22.2005
957522	AF2-046 E	11.1670	50/50	11.1670
957531	AF2-047 C	23.9161	50/50	23.9161
957532	AF2-047 E	12.0299	50/50	12.0299
957821	AF2-076 C	13.1652	50/50	13.1652
957822	AF2-076 E	8.7768	50/50	8.7768
957861	AF2-080 C	6.6998	50/50	6.6998

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957862	AF2-080 E	2.9700	50/50	2.9700
957871	AF2-081 C	5.3493	Adder	6.29
957872	AF2-081 E	2.2926	Adder	2.7
958161	AF2-110 C	2.9585	50/50	2.9585
958162	AF2-110 E	4.6275	50/50	4.6275
959511	AF2-242 C	8.2062	50/50	8.2062
959512	AF2-242 E	6.3826	50/50	6.3826
961091	AF2-400 C	0.7794	50/50	0.7794
961092	AF2-400 E	1.2789	50/50	1.2789
961671	AG1-007 C	0.4204	Adder	0.93
961672	AG1-007 E	0.2348	Adder	0.52
961681	AG1-008 C	22.2450	50/50	22.2450
961682	AG1-008 E	11.1225	50/50	11.1225
961851	AG1-027 C	34.1732	50/50	34.1732
961852	AG1-027 E	18.8908	50/50	18.8908
961931	AG1-036 C	1.7716	50/50	1.7716
961932	AG1-036 E	1.1810	50/50	1.1810
961941	AG1-037 C	0.6463	50/50	0.6463
961942	AG1-037 E	0.4308	50/50	0.4308
962331	AG1-082 C	2.5850	50/50	2.5850
962332	AG1-082 E	1.7234	50/50	1.7234
962341	AG1-083 C	2.5850	50/50	2.5850
962342	AG1-083 E	1.7234	50/50	1.7234
962351	AG1-084 C	2.2320	50/50	2.2320
962352	AG1-084 E	1.4880	50/50	1.4880
962361	AG1-085 C	2.2320	50/50	2.2320
962362	AG1-085 E	1.4880	50/50	1.4880
962571	AG1-106 C	1.9085	Adder	4.24
962572	AG1-106 E	0.8655	Adder	1.92
964491	AG1-312 C O1	25.8126	50/50	25.8126
964492	AG1-312 E O1	6.4532	50/50	6.4532
964501	AG1-313 C O2	4.5766	50/50	4.5766
964502	AG1-313 E O2	3.0511	50/50	3.0511
964801	AG1-343 C	7.9929	50/50	7.9929
964802	AG1-343 E	6.2802	50/50	6.2802
965291	AG1-394 C	2.7511	50/50	2.7511
965292	AG1-394 E	1.8341	50/50	1.8341
965631	AG1-431	63.7922	50/50	63.7922
965691	AG1-437 C O1	13.8516	50/50	13.8516
965692	AG1-437 E O1	9.2344	50/50	9.2344
965701	AG1-438 C O1	13.8516	50/50	13.8516
965702	AG1-438 E O1	9.2344	50/50	9.2344
965711	AG1-439 C O1	8.6922	Adder	19.29
965712	AG1-439 E O1	5.7948	Adder	12.86
965741	AG1-442 O1	8.0801	50/50	8.0801
965751	AG1-443 O1	8.0801	50/50	8.0801
965761	AG1-444 O1	4.6358	Adder	10.29
966491	AG1-518 O2	22.3310	50/50	22.3310
966731	AG1-544 C	2.1594	Adder	4.79
966732	AG1-544 E	1.1585	Adder	2.57
966741	AG1-545 C	0.7382	Adder	1.64
966742	AG1-545 E	0.3958	Adder	0.88

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966751	AG1-546 C	4.3199	Adder	9.59
966752	AG1-546 E	2.3180	Adder	5.15
966801	AG1-551 C	2.3912	50/50	2.3912
966802	AG1-551 E	1.0248	50/50	1.0248
966811	AG1-552 C	1.6821	50/50	1.6821
966812	AG1-552 E	0.7209	50/50	0.7209
966931	AG1-431A	47.9280	50/50	47.9280
WEC	WEC	0.1704	Confirmed LTF	0.1704
LGEE	LGEE	0.3493	Confirmed LTF	0.3493
CPL	CPL	2.1860	Confirmed LTF	2.1860
CBM-W2	CBM-W2	7.6070	Confirmed LTF	7.6070
NY	NY	0.2284	Confirmed LTF	0.2284
TVA	TVA	1.4392	Confirmed LTF	1.4392
O-066	O-066	3.2237	Confirmed LTF	3.2237
SIGE	SIGE	0.1130	Confirmed LTF	0.1130
CBM-S2	CBM-S2	23.1768	Confirmed LTF	23.1768
CBM-S1	CBM-S1	0.3580	Confirmed LTF	0.3580
G-007	G-007	0.5071	Confirmed LTF	0.5071
MEC	MEC	1.0281	Confirmed LTF	1.0281
LAGN	LAGN	1.7955	Confirmed LTF	1.7955
AA2-074	AA2-074	1.4436	LTF	1.4436
CBM-W1	CBM-W1	7.1362	Confirmed LTF	7.1362

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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
163838792	314554	3BTLEBRO	DVP	304223	3ROCKYMT115T	CPL	1	DVP_P7-1: LN 2058-2181	tower	164.0	303.99	325.75	DC	35.57

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.1181	Adder	3.67
313719	3CHESTNUT	2.4261	50/50	2.4261
314541	3WATKINS	0.2172	Adder	0.26
314572	3EMPORIA	0.1704	Adder	0.2
314582	3KELFORD	0.3112	50/50	0.3112
314623	3WITAKRS	0.5240	50/50	0.5240
315126	1ROARAP2	0.8712	50/50	0.8712
315128	1ROARAP4	0.8314	50/50	0.8314
315131	1EDGE CMA (Deactivation : 22/04/2019)	12.5808	50/50	12.5808
315132	1EDGE CMB (Deactivation : 22/04/2019)	12.5808	50/50	12.5808
315136	1ROSEMG1	1.5086	50/50	1.5086
315137	1ROSEMS1	0.9355	50/50	0.9355
315138	1ROSEMG2	0.7070	50/50	0.7070
315139	1GASTONA	1.9383	50/50	1.9383
315141	1GASTONB	1.9383	50/50	1.9383
315293	1DOMTR9	2.0513	Adder	2.41
315294	1DOMTR10	2.5139	Adder	2.96
315601	1CONETOE2SOL	1.1895	50/50	1.1895
315606	3AA2-053SOLA	0.9246	50/50	0.9246
316020	AB2-059 C OP	4.4268	50/50	4.4268
316088	AB2-174 E	2.8075	Adder	3.3
316097	AB2-100 E1	1.0834	Adder	1.27
316099	AB2-100 E2	1.0834	Adder	1.27
316103	AB2-015 C	2.5912	Adder	3.05
316104	AB2-015 E	2.1248	Adder	2.5
316129	AC1-054 C	2.5555	Adder	3.01
316140	AB2-099 C (Suspended)	0.2729	Adder	0.32
316141	AB2-099 E (Suspended)	0.1170	Adder	0.14
900672	V4-068 E	0.1280	Adder	0.15
917332	Z2-043 E	0.9284	50/50	0.9284
917342	Z2-044 E	1.4235	50/50	1.4235
917512	Z2-088 E OP1	7.0561	50/50	7.0561
918492	AA1-063AE OP	2.0088	Adder	2.36
918512	AA1-065 E OP	1.4796	Adder	1.74
918532	AA1-067 E	0.2544	Adder	0.3
919692	AA2-053 E OP	2.4062	50/50	2.4062
919702	AA2-057 E OP	7.2586	50/50	7.2586
920042	AA2-088 E OP	4.1496	Adder	4.88
920591	AA2-165 C	0.3257	50/50	0.3257

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
920592	AA2-165 E	0.9976	50/50	0.9976
922922	AB1-081 C OP	3.7561	50/50	3.7561
922923	AB1-081 E OP	10.2031	50/50	10.2031
923262	AB1-132 C OP (Suspended)	9.3820	50/50	9.3820
923263	AB1-132 E OP (Suspended)	4.0208	50/50	4.0208
923573	AB1-173 E OP	0.4862	Adder	0.57
923991	AB2-040 C O1	3.3959	Adder	4.0
923992	AB2-040 E O1	2.7785	Adder	3.27
924152	AB2-059 E OP	14.4544	50/50	14.4544
925122	AB2-169 E	1.8344	Adder	2.16
925591	AC1-034 C	18.1743	50/50	18.1743
925592	AC1-034 E	13.7104	50/50	13.7104
925785	AC1-054 E	1.1772	Adder	1.38
926070	AC1-086 C	13.8161	50/50	13.8161
926071	AC1-086 E	6.2881	50/50	6.2881
926201	AC1-098 C	8.8191	50/50	8.8191
926202	AC1-098 E	5.2539	50/50	5.2539
926211	AC1-099 C	2.9553	50/50	2.9553
926212	AC1-099 E	1.7357	50/50	1.7357
927024	AC1-189 C	6.2804	50/50	6.2804
927025	AC1-189 E	3.1284	50/50	3.1284
927145	AC1-208 C	14.0422	50/50	14.0422
927146	AC1-208 E	6.2100	50/50	6.2100
932631	AC2-084 C	12.5719	50/50	12.5719
932632	AC2-084 E	6.1921	50/50	6.1921
933991	AD1-023 C	4.0327	Adder	4.74
933992	AD1-023 E	2.1954	Adder	2.58
934331	AD1-057 C O1	10.5448	50/50	10.5448
934332	AD1-057 E O1	5.6251	50/50	5.6251
936401	AD2-051 C O1	3.2781	Adder	3.86
936402	AD2-051 E O1	1.4076	Adder	1.66
938222	AE1-035 E	0.4069	Adder	0.48
940571	AE2-044 C	11.9036	50/50	11.9036
940572	AE2-044 E	5.1016	50/50	5.1016
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2794	Adder	0.33
942471	AE2-260 C O1	5.1280	Adder	6.03
942472	AE2-260 E O1	7.2735	Adder	8.56
943171	AE2-346 C	0.6550	Adder	0.77
943172	AE2-346 E	0.2807	Adder	0.33
944141	AF1-082	7.6523	50/50	7.6523
946281	AF1-292 C	0.5743	Adder	0.68
946282	AF1-292 E	0.3872	Adder	0.46
957521	AF2-046 C	7.3234	Adder	8.62
957522	AF2-046 E	3.6837	Adder	4.33
957861	AF2-080 C	5.7041	50/50	5.7041
957862	AF2-080 E	2.5286	50/50	2.5286
959511	AF2-242 C	2.4228	Adder	2.85
959512	AF2-242 E	1.8844	Adder	2.22
960081	AF2-299 C	0.9680	Adder	1.14
960082	AF2-299 E	0.6453	Adder	0.76

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961091	AF2-400 C	0.1399	Adder	0.16
961092	AF2-400 E	0.2296	Adder	0.27
961671	AG1-007 C	1.2437	50/50	1.2437
961672	AG1-007 E	0.6945	50/50	0.6945
961681	AG1-008 C	3.8892	Adder	8.63
961682	AG1-008 E	1.9446	Adder	4.32
961931	AG1-036 C	0.3255	Adder	0.72
961932	AG1-036 E	0.2170	Adder	0.48
961941	AG1-037 C	0.1240	Adder	0.28
961942	AG1-037 E	0.0826	Adder	0.18
962331	AG1-082 C	0.4959	Adder	1.1
962332	AG1-082 E	0.3306	Adder	0.73
962341	AG1-083 C	0.4959	Adder	1.1
962342	AG1-083 E	0.3306	Adder	0.73
962351	AG1-084 C	0.4442	Adder	0.99
962352	AG1-084 E	0.2961	Adder	0.66
962361	AG1-085 C	0.4442	Adder	0.99
962362	AG1-085 E	0.2961	Adder	0.66
962571	AG1-106 C	3.8421	50/50	3.8421
962572	AG1-106 E	1.7424	50/50	1.7424
964491	AG1-312 C O1	3.5814	Adder	7.95
964492	AG1-312 E O1	0.8953	Adder	1.99
964501	AG1-313 C O2	2.8508	50/50	2.8508
964502	AG1-313 E O2	1.9005	50/50	1.9005
964801	AG1-343 C	1.2896	Adder	2.86
964802	AG1-343 E	1.0133	Adder	2.25
965291	AG1-394 C	0.4384	Adder	0.97
965292	AG1-394 E	0.2923	Adder	0.65
965691	AG1-437 C O1	1.7375	Adder	3.86
965692	AG1-437 E O1	1.1583	Adder	2.57
965701	AG1-438 C O1	1.7375	Adder	3.86
965702	AG1-438 E O1	1.1583	Adder	2.57
965711	AG1-439 C O1	21.3390	50/50	21.3390
965712	AG1-439 E O1	14.2260	50/50	14.2260
965741	AG1-442 O1	1.0135	Adder	2.25
965751	AG1-443 O1	1.0135	Adder	2.25
965761	AG1-444 O1	11.3808	50/50	11.3808
966621	AG1-532 C	0.2770	Adder	0.61
966622	AG1-532 E	0.1847	Adder	0.41
966751	AG1-546 C	3.1668	Adder	7.03
966752	AG1-546 E	1.6992	Adder	3.77
966801	AG1-551 C	0.4089	Adder	0.91
966802	AG1-551 E	0.1753	Adder	0.39
966811	AG1-552 C	1.3832	50/50	1.3832
966812	AG1-552 E	0.5928	50/50	0.5928
G-007A	G-007A	0.4867	Confirmed LTF	0.4867
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	0.7087	Confirmed LTF	0.7087
PRAIRIE	PRAIRIE	2.4719	Confirmed LTF	2.4719
CHEOAH	CHEOAH	0.7262	Confirmed LTF	0.7262
CBM-N	CBM-N	0.2340	Confirmed LTF	0.2340
COTTONWOOD	COTTONWOOD	2.6313	Confirmed LTF	2.6313

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
HAMLET	HAMLET	1.5263	Confirmed LTF	1.5263
GIBSON	GIBSON	0.4390	Confirmed LTF	0.4390
BLUEG	BLUEG	1.3558	Confirmed LTF	1.3558
TRIMBLE	TRIMBLE	0.4307	Confirmed LTF	0.4307
CATAWBA	CATAWBA	0.7581	Confirmed LTF	0.7581

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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
163347480	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	153.0	158.62	DC	46.53

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

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

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

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

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

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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
169037637	314569	GEARLEYS	DVP	314575	6NUCO TP	DVP	1	DVP_P1-2: LN 2092	single	571.52	231.31	236.71	DC	30.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	5.3764	80/20	5.3764
313527	AB2-043 C	0.1797	80/20	0.1797
313719	3CHESTNUT	1.2166	80/20	1.2166
314572	3EMPORIA	0.2919	80/20	0.2919
314582	3KELFORD	0.6058	80/20	0.6058
314589	3MURPHYS	0.0945	80/20	0.0945
314623	3WITAKRS	0.2162	80/20	0.2162
314704	3LAWRENC	0.1658	80/20	0.1658
315115	1S HAMPT1	0.4948	80/20	0.4948
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGECEMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315132	1EDGECEMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6257	80/20	2.6257
315293	1DOMTR9	13.5803	80/20	13.5803
315294	1DOMTR10	16.6425	80/20	16.6425
315601	1CONETOE2SOL	1.7196	80/20	1.7196
315602	1HOLLOMANSOL	3.2518	80/20	3.2518
315606	3AA2-053SOLA	1.6490	80/20	1.6490
315607	3AA1-063SOLA	1.1822	80/20	1.1822
315608	3AA2-088SOLA	0.6872	80/20	0.6872
315611	6Z1-036WIND	2.1843	80/20	2.1843
315614	AA2-178 C	3.1366	80/20	3.1366
316020	AB2-059 C OP	1.5978	80/20	1.5978
316087	AB2-174 C	0.8423	80/20	0.8423
316096	AB2-100 C1	0.5758	80/20	0.5758
316098	AB2-100 C2	0.5758	80/20	0.5758
316129	AC1-054 C	5.2403	80/20	5.2403

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	0.5087	80/20	0.5087
316140	AB2-099 C (Suspended)	1.0074	80/20	1.0074
920591	AA2-165 C	0.1633	80/20	0.1633
922922	AB1-081 C OP	1.3557	80/20	1.3557
923991	AB2-040 C O1	5.8555	80/20	5.8555
924301	AB2-077 C O1 (Suspended)	0.7260	80/20	0.7260
924311	AB2-078 C O1 (Suspended)	0.7260	80/20	0.7260
924321	AB2-079 C O1 (Suspended)	0.7260	80/20	0.7260
925121	AB2-169 C	1.8885	80/20	1.8885
925591	AC1-034 C	6.5600	80/20	6.5600
926070	AC1-086 C	22.3600	80/20	22.3600
926201	AC1-098 C	8.0404	80/20	8.0404
926211	AC1-099 C	2.6944	80/20	2.6944
927024	AC1-189 C	11.8698	80/20	11.8698
927145	AC1-208 C	10.1498	80/20	10.1498
932631	AC2-084 C	11.4618	80/20	11.4618
933991	AD1-023 C	28.1849	80/20	28.1849
934331	AD1-057 C O1	10.1494	80/20	10.1494
934521	AD1-076 C	113.8581	80/20	113.8581
936361	AD2-046 C O1	4.3133	80/20	4.3133
936401	AD2-051 C O1	19.8559	80/20	19.8559
936485	AD2-063 C	4.9383	80/20	4.9383
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2098	80/20	4.2098
940481	AE2-033 C	4.4571	80/20	4.4571
940491	AE2-034 C	14.9108	80/20	14.9108
940571	AE2-044 C	4.2966	80/20	4.2966
940661	AE2-053 O1	1.5592	80/20	1.5592
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.3297	80/20	0.3297
942131	AE2-225 C	-1.0743	Adder	-1.26
942171	AE2-229 C	-0.8057	Adder	-0.95
942451	AE2-258	0.8499	80/20	0.8499
942471	AE2-260 C O1	8.2667	80/20	8.2667
943171	AE2-346 C	2.4178	80/20	2.4178
943611	AF1-032 C	-0.8773	Adder	-1.03
943911	AF1-059	8.1959	80/20	8.1959
944141	AF1-082	2.7621	80/20	2.7621
945711	AF1-236 C O1	163.2382	80/20	163.2382
946281	AF1-292 C	0.9810	80/20	0.9810
957491	AF2-043 C	-1.0743	Adder	-1.26
957521	AF2-046 C	20.4271	80/20	20.4271
957531	AF2-047 C	35.4310	80/20	35.4310
957861	AF2-080 C	10.7806	80/20	10.7806
959511	AF2-242 C	13.0307	80/20	13.0307
960081	AF2-299 C	1.6533	80/20	1.6533
961671	AG1-007 C	1.4833	80/20	1.4833
961681	AG1-008 C	20.4680	80/20	20.4680
961931	AG1-036 C	2.0158	80/20	2.0158
961941	AG1-037 C	0.8635	80/20	0.8635

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962271	AG1-075 C O2	4.6675	80/20	4.6675
962331	AG1-082 C	3.4540	80/20	3.4540
962341	AG1-083 C	3.4540	80/20	3.4540
962351	AG1-084 C	3.3758	80/20	3.3758
962361	AG1-085 C	3.3758	80/20	3.3758
962491	AG1-098 C O2	4.3132	80/20	4.3132
962571	AG1-106 C	6.2181	80/20	6.2181
963301	AG1-179 C	3.0738	80/20	3.0738
963311	AG1-180	1.4976	80/20	1.4976
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O2	6.2746	80/20	6.2746
964801	AG1-343 C	4.7135	80/20	4.7135
964931	AG1-357 C O2	6.6084	80/20	6.6084
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O2	3.3660	80/20	3.3660
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O2	2.5661	80/20	2.5661
965631	AG1-431	94.5063	80/20	94.5063
965691	AG1-437 C O1	22.1316	80/20	22.1316
965701	AG1-438 C O1	22.1316	80/20	22.1316
965711	AG1-439 C O1	30.8475	80/20	30.8475
965721	AG1-440 C	4.2890	80/20	4.2890
965731	AG1-441 C	4.2890	80/20	4.2890
965741	AG1-442 O1	12.9101	80/20	12.9101
965751	AG1-443 O1	12.9101	80/20	12.9101
965761	AG1-444 O1	16.4520	80/20	16.4520
965771	AG1-445	2.4781	80/20	2.4781
965781	AG1-446	2.4781	80/20	2.4781
966621	AG1-532 C	0.8928	80/20	0.8928
966751	AG1-546 C	11.9536	80/20	11.9536
966801	AG1-551 C	3.8374	80/20	3.8374
966811	AG1-552 C	2.0442	80/20	2.0442
966931	AG1-431A	71.0040	80/20	71.0040
WEC	WEC	0.3330	Confirmed LTF	0.3330
LGEE	LGEE	0.6786	Confirmed LTF	0.6786
CPL	CPL	3.7381	Confirmed LTF	3.7381
CBM-W2	CBM-W2	14.1299	Confirmed LTF	14.1299
NY	NY	0.3019	Confirmed LTF	0.3019
TVA	TVA	2.6320	Confirmed LTF	2.6320
SIGE	SIGE	0.1896	Confirmed LTF	0.1896
CBM-S2	CBM-S2	40.4863	Confirmed LTF	40.4863
CBM-S1	CBM-S1	0.6593	Confirmed LTF	0.6593
MEC	MEC	1.9656	Confirmed LTF	1.9656
LAGN	LAGN	3.2847	Confirmed LTF	3.2847
AA2-074	AA2-074	2.4687	LTF	2.4687
CBM-W1	CBM-W1	14.0621	Confirmed LTF	14.0621

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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
163838795	314574	6EVERETS	DVP	304451	6GREENVILLE	CPL	1	DVP_P7-1: LN 2058-2181	tower	478.0	213.77	227.35	DC	64.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.9855	Adder	3.51
314539	3UNCAMP	2.4187	Adder	2.85
314541	3WATKINS	0.2950	Adder	0.35
314572	3EMPORIA	0.1716	Adder	0.2
314582	3KELFORD	0.2963	50/50	0.2963
314589	3MURPHYS	0.0602	50/50	0.0602
314594	6PLYMOTH	0.0896	50/50	0.0896
314632	6AYDLETOLD	0.6586	Adder	0.77
315131	1EDGE CMA (Deactivation : 22/04/2019)	9.5990	50/50	9.5990
315132	1EDGE CMB (Deactivation : 22/04/2019)	9.5990	50/50	9.5990
315136	1ROSEMG1	1.5370	50/50	1.5370
315137	1ROSEMS1	0.9531	50/50	0.9531
315138	1ROSEMG2	0.7203	50/50	0.7203
315139	1GASTONA	2.1216	50/50	2.1216
315141	1GASTONB	2.1216	50/50	2.1216
315292	1DOMTR78	1.6763	50/50	1.6763
315293	1DOMTR9	8.6700	50/50	8.6700
315294	1DOMTR10	10.6250	50/50	10.6250
315601	1CONETOE2SOL	2.1704	50/50	2.1704
315602	1HOLLOMAN SOL	1.5332	50/50	1.5332
315606	3AA2-053SOLA	0.9398	50/50	0.9398
315611	6Z1-036WIND	0.6573	50/50	0.6573
315614	AA2-178 C	1.2997	50/50	1.2997
316088	AB2-174 E	2.7352	Adder	3.22
316097	AB2-100 E1	1.2133	Adder	1.43
316099	AB2-100 E2	1.2133	Adder	1.43
316103	AB2-015 C	3.5908	Adder	4.22
316104	AB2-015 E	2.9445	Adder	3.46
316140	AB2-099 C (Suspended)	0.5180	50/50	0.5180
316141	AB2-099 E (Suspended)	0.2220	50/50	0.2220
900672	V4-068 E	0.2092	50/50	0.2092
901082	W1-029 E	18.7397	Adder	22.05
913392	Y1-086 E	0.7676	Adder	0.9
916042	Z1-036 E (Suspended)	27.9147	50/50	27.9147
917122	Z2-027 E	0.3981	Adder	0.47
917332	Z2-043 E	0.8838	50/50	0.8838
917342	Z2-044 E	0.2085	Adder	0.25
917512	Z2-088 E OP1	12.8742	50/50	12.8742
918492	AA1-063AE OP	2.0182	Adder	2.37

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1618	50/50	0.1618
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5523	50/50	0.5523
942471	AE2-260 C O1	5.7670	Adder	6.78
942472	AE2-260 E O1	8.1798	Adder	9.62
943171	AE2-346 C	1.2432	50/50	1.2432
943172	AE2-346 E	0.5328	50/50	0.5328
944141	AF1-082	1.0658	Adder	1.25
944871	AF1-152 C	2.1540	Adder	2.53
944872	AF1-152 E	1.4360	Adder	1.69
945711	AF1-236 C O1	67.6412	50/50	67.6412
945712	AF1-236 E O1	41.7792	50/50	41.7792
946281	AF1-292 C	0.5921	Adder	0.7
946282	AF1-292 E	0.3992	Adder	0.47
957521	AF2-046 C	12.3552	50/50	12.3552
957522	AF2-046 E	6.2148	50/50	6.2148
957531	AF2-047 C	14.6816	50/50	14.6816
957532	AF2-047 E	7.3849	50/50	7.3849
957821	AF2-076 C	1.7985	Adder	2.12
957822	AF2-076 E	1.1990	Adder	1.41
957861	AF2-080 C	14.0946	50/50	14.0946
957862	AF2-080 E	6.2481	50/50	6.2481
959511	AF2-242 C	13.2102	50/50	13.2102
959512	AF2-242 E	10.2746	50/50	10.2746
960081	AF2-299 C	0.9979	Adder	1.17
960082	AF2-299 E	0.6653	Adder	0.78
961091	AF2-400 C	0.1939	Adder	0.23
961092	AF2-400 E	0.3181	Adder	0.37
961671	AG1-007 C	1.8117	50/50	1.8117
961672	AG1-007 E	1.0117	50/50	1.0117
961681	AG1-008 C	12.3800	50/50	12.3800
961682	AG1-008 E	6.1900	50/50	6.1900
961851	AG1-027 C	2.9209	Adder	6.48
961852	AG1-027 E	1.6147	Adder	3.58
961931	AG1-036 C	1.1069	50/50	1.1069
961932	AG1-036 E	0.7380	50/50	0.7380
961941	AG1-037 C	0.4440	50/50	0.4440
961942	AG1-037 E	0.2960	50/50	0.2960
962331	AG1-082 C	1.7760	50/50	1.7760
962332	AG1-082 E	1.1840	50/50	1.1840
962341	AG1-083 C	1.7760	50/50	1.7760
962342	AG1-083 E	1.1840	50/50	1.1840
962351	AG1-084 C	1.6569	50/50	1.6569
962352	AG1-084 E	1.1046	50/50	1.1046
962361	AG1-085 C	1.6569	50/50	1.6569
962362	AG1-085 E	1.1046	50/50	1.1046
962571	AG1-106 C	4.2054	50/50	4.2054
962572	AG1-106 E	1.9071	50/50	1.9071
964491	AG1-312 C O1	20.1914	50/50	20.1914
964492	AG1-312 E O1	5.0478	50/50	5.0478
964501	AG1-313 C O2	3.3796	50/50	3.3796
964502	AG1-313 E O2	2.2531	50/50	2.2531

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964801	AG1-343 C	3.6197	50/50	3.6197
964802	AG1-343 E	2.8440	50/50	2.8440
965291	AG1-394 C	1.2042	50/50	1.2042
965292	AG1-394 E	0.8028	50/50	0.8028
965631	AG1-431	39.1607	50/50	39.1607
965691	AG1-437 C O1	10.5492	50/50	10.5492
965692	AG1-437 E O1	7.0328	50/50	7.0328
965701	AG1-438 C O1	10.5492	50/50	10.5492
965702	AG1-438 E O1	7.0328	50/50	7.0328
965711	AG1-439 C O1	38.9340	50/50	38.9340
965712	AG1-439 E O1	25.9560	50/50	25.9560
965741	AG1-442 O1	6.1537	50/50	6.1537
965751	AG1-443 O1	6.1537	50/50	6.1537
965761	AG1-444 O1	20.7648	50/50	20.7648
966491	AG1-518 O2	1.3817	Adder	3.07
966621	AG1-532 C	0.2856	Adder	0.63
966622	AG1-532 E	0.1904	Adder	0.42
966751	AG1-546 C	2.7754	Adder	6.16
966752	AG1-546 E	1.4892	Adder	3.31
966801	AG1-551 C	4.5154	50/50	4.5154
966802	AG1-551 E	1.9352	50/50	1.9352
966811	AG1-552 C	0.5563	Adder	1.23
966812	AG1-552 E	0.2384	Adder	0.53
966931	AG1-431A	29.4220	50/50	29.4220
G-007A	G-007A	1.1364	Confirmed LTF	1.1364
VFT	VFT	3.0250	Confirmed LTF	3.0250
CALDERWOOD	CALDERWOOD	1.3349	Confirmed LTF	1.3349
PRAIRIE	PRAIRIE	4.5383	Confirmed LTF	4.5383
AC1-131	AC1-131	5.3107	LTF	5.3107
CHEOAH	CHEOAH	1.3689	Confirmed LTF	1.3689
CBM-N	CBM-N	0.5508	Confirmed LTF	0.5508
COTTONWOOD	COTTONWOOD	4.9854	Confirmed LTF	4.9854
HAMLET	HAMLET	3.1098	Confirmed LTF	3.1098
GIBSON	GIBSON	0.7851	Confirmed LTF	0.7851
BLUEG	BLUEG	2.4096	Confirmed LTF	2.4096
TRIMBLE	TRIMBLE	0.7641	Confirmed LTF	0.7641
CATAWBA	CATAWBA	1.4357	Confirmed LTF	1.4357

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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
169037655	314575	6NUCO TP	DVP	957820	AF2-076 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	222.63	228.03	DC	30.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	5.3764	80/20	5.3764
313527	AB2-043 C	0.1797	80/20	0.1797
313719	3CHESTNUT	1.2166	80/20	1.2166
314572	3EMPORIA	0.2919	80/20	0.2919
314582	3KELFORD	0.6058	80/20	0.6058
314589	3MURPHYS	0.0945	80/20	0.0945
314623	3WITAKRS	0.2162	80/20	0.2162
314704	3LAWRENC	0.1658	80/20	0.1658
315115	1S HAMPT1	0.4948	80/20	0.4948
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGECEMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315132	1EDGECEMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6257	80/20	2.6257
315293	1DOMTR9	13.5803	80/20	13.5803
315294	1DOMTR10	16.6425	80/20	16.6425
315601	1CONETOE2SOL	1.7196	80/20	1.7196
315602	1HOLLOMAN SOL	3.2518	80/20	3.2518
315606	3AA2-053SOLA	1.6490	80/20	1.6490
315607	3AA1-063SOLA	1.1822	80/20	1.1822
315608	3AA2-088SOLA	0.6872	80/20	0.6872
315611	6Z1-036WIND	2.1843	80/20	2.1843
315614	AA2-178 C	3.1366	80/20	3.1366
316020	AB2-059 C OP	1.5978	80/20	1.5978
316087	AB2-174 C	0.8423	80/20	0.8423
316096	AB2-100 C1	0.5758	80/20	0.5758
316098	AB2-100 C2	0.5758	80/20	0.5758
316129	AC1-054 C	5.2403	80/20	5.2403

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	0.5087	80/20	0.5087
316140	AB2-099 C (Suspended)	1.0074	80/20	1.0074
920591	AA2-165 C	0.1633	80/20	0.1633
922922	AB1-081 C OP	1.3557	80/20	1.3557
923991	AB2-040 C O1	5.8555	80/20	5.8555
924301	AB2-077 C O1 (Suspended)	0.7260	80/20	0.7260
924311	AB2-078 C O1 (Suspended)	0.7260	80/20	0.7260
924321	AB2-079 C O1 (Suspended)	0.7260	80/20	0.7260
925121	AB2-169 C	1.8885	80/20	1.8885
925591	AC1-034 C	6.5600	80/20	6.5600
926070	AC1-086 C	22.3600	80/20	22.3600
926201	AC1-098 C	8.0404	80/20	8.0404
926211	AC1-099 C	2.6944	80/20	2.6944
927024	AC1-189 C	11.8698	80/20	11.8698
927145	AC1-208 C	10.1498	80/20	10.1498
932631	AC2-084 C	11.4618	80/20	11.4618
933991	AD1-023 C	28.1849	80/20	28.1849
934331	AD1-057 C O1	10.1494	80/20	10.1494
934521	AD1-076 C	113.8581	80/20	113.8581
936361	AD2-046 C O1	4.3133	80/20	4.3133
936401	AD2-051 C O1	19.8559	80/20	19.8559
936485	AD2-063 C	4.9383	80/20	4.9383
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2098	80/20	4.2098
940481	AE2-033 C	4.4571	80/20	4.4571
940491	AE2-034 C	14.9108	80/20	14.9108
940571	AE2-044 C	4.2966	80/20	4.2966
940661	AE2-053 O1	1.5592	80/20	1.5592
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.3297	80/20	0.3297
942131	AE2-225 C	-1.0743	Adder	-1.26
942171	AE2-229 C	-0.8057	Adder	-0.95
942451	AE2-258	0.8499	80/20	0.8499
942471	AE2-260 C O1	8.2667	80/20	8.2667
943171	AE2-346 C	2.4178	80/20	2.4178
943611	AF1-032 C	-0.8773	Adder	-1.03
943911	AF1-059	8.1959	80/20	8.1959
944141	AF1-082	2.7621	80/20	2.7621
945711	AF1-236 C O1	163.2382	80/20	163.2382
946281	AF1-292 C	0.9810	80/20	0.9810
957491	AF2-043 C	-1.0743	Adder	-1.26
957521	AF2-046 C	20.4271	80/20	20.4271
957531	AF2-047 C	35.4310	80/20	35.4310
957861	AF2-080 C	10.7806	80/20	10.7806
959511	AF2-242 C	13.0307	80/20	13.0307
960081	AF2-299 C	1.6533	80/20	1.6533
961671	AG1-007 C	1.4833	80/20	1.4833
961681	AG1-008 C	20.4680	80/20	20.4680
961931	AG1-036 C	2.0158	80/20	2.0158
961941	AG1-037 C	0.8635	80/20	0.8635

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962271	AG1-075 C O2	4.6675	80/20	4.6675
962331	AG1-082 C	3.4540	80/20	3.4540
962341	AG1-083 C	3.4540	80/20	3.4540
962351	AG1-084 C	3.3758	80/20	3.3758
962361	AG1-085 C	3.3758	80/20	3.3758
962491	AG1-098 C O2	4.3132	80/20	4.3132
962571	AG1-106 C	6.2181	80/20	6.2181
963301	AG1-179 C	3.0738	80/20	3.0738
963311	AG1-180	1.4976	80/20	1.4976
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O2	6.2746	80/20	6.2746
964801	AG1-343 C	4.7135	80/20	4.7135
964931	AG1-357 C O2	6.6084	80/20	6.6084
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O2	3.3660	80/20	3.3660
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O2	2.5661	80/20	2.5661
965631	AG1-431	94.5063	80/20	94.5063
965691	AG1-437 C O1	22.1316	80/20	22.1316
965701	AG1-438 C O1	22.1316	80/20	22.1316
965711	AG1-439 C O1	30.8475	80/20	30.8475
965721	AG1-440 C	4.2890	80/20	4.2890
965731	AG1-441 C	4.2890	80/20	4.2890
965741	AG1-442 O1	12.9101	80/20	12.9101
965751	AG1-443 O1	12.9101	80/20	12.9101
965761	AG1-444 O1	16.4520	80/20	16.4520
965771	AG1-445	2.4781	80/20	2.4781
965781	AG1-446	2.4781	80/20	2.4781
966621	AG1-532 C	0.8928	80/20	0.8928
966751	AG1-546 C	11.9536	80/20	11.9536
966801	AG1-551 C	3.8374	80/20	3.8374
966811	AG1-552 C	2.0442	80/20	2.0442
966931	AG1-431A	71.0040	80/20	71.0040
WEC	WEC	0.3330	Confirmed LTF	0.3330
LGEE	LGEE	0.6786	Confirmed LTF	0.6786
CPL	CPL	3.7381	Confirmed LTF	3.7381
CBM-W2	CBM-W2	14.1299	Confirmed LTF	14.1299
NY	NY	0.3019	Confirmed LTF	0.3019
TVA	TVA	2.6320	Confirmed LTF	2.6320
SIGE	SIGE	0.1896	Confirmed LTF	0.1896
CBM-S2	CBM-S2	40.4863	Confirmed LTF	40.4863
CBM-S1	CBM-S1	0.6593	Confirmed LTF	0.6593
MEC	MEC	1.9656	Confirmed LTF	1.9656
LAGN	LAGN	3.2847	Confirmed LTF	3.2847
AA2-074	AA2-074	2.4687	LTF	2.4687
CBM-W1	CBM-W1	14.0621	Confirmed LTF	14.0621

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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
163347430	314583	6LAKEVEW	DVP	313725	6DRY BREAD	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	186.75	196.92	DC	46.59

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957522	AF2-046 E	6.4617	50/50	6.4617
957531	AF2-047 C	7.5312	Adder	8.86
957532	AF2-047 E	3.7882	Adder	4.46
957861	AF2-080 C	8.3032	50/50	8.3032
957862	AF2-080 E	3.6808	50/50	3.6808
959511	AF2-242 C	5.8135	50/50	5.8135
959512	AF2-242 E	4.5216	50/50	4.5216
961091	AF2-400 C	0.1763	Adder	0.21
961092	AF2-400 E	0.2893	Adder	0.34
961671	AG1-007 C	1.5264	50/50	1.5264
961672	AG1-007 E	0.8524	50/50	0.8524
961681	AG1-008 C	12.8720	50/50	12.8720
961682	AG1-008 E	6.4360	50/50	6.4360
961931	AG1-036 C	1.1068	50/50	1.1068
961932	AG1-036 E	0.7379	50/50	0.7379
961941	AG1-037 C	0.4309	50/50	0.4309
961942	AG1-037 E	0.2873	50/50	0.2873
962331	AG1-082 C	1.7236	50/50	1.7236
962332	AG1-082 E	1.1490	50/50	1.1490
962341	AG1-083 C	1.7236	50/50	1.7236
962342	AG1-083 E	1.1490	50/50	1.1490
962351	AG1-084 C	1.5715	50/50	1.5715
962352	AG1-084 E	1.0477	50/50	1.0477
962361	AG1-085 C	1.5715	50/50	1.5715
962362	AG1-085 E	1.0477	50/50	1.0477
962571	AG1-106 C	12.7765	50/50	12.7765
962572	AG1-106 E	5.7940	50/50	5.7940
963312	AG1-180 BAT	1.5544	Merchant Transmission	1.5544
964491	AG1-312 C O1	16.5054	50/50	16.5054
964492	AG1-312 E O1	4.1264	50/50	4.1264
964501	AG1-313 C O2	4.3244	50/50	4.3244
964502	AG1-313 E O2	2.8829	50/50	2.8829
964801	AG1-343 C	4.0656	50/50	4.0656
964802	AG1-343 E	3.1944	50/50	3.1944
965291	AG1-394 C	0.6177	Adder	1.37
965292	AG1-394 E	0.4118	Adder	0.91
965631	AG1-431	10.6468	Adder	23.63
965691	AG1-437 C O1	7.7136	50/50	7.7136
965692	AG1-437 E O1	5.1424	50/50	5.1424
965701	AG1-438 C O1	7.7136	50/50	7.7136
965702	AG1-438 E O1	5.1424	50/50	5.1424
965711	AG1-439 C O1	27.9555	50/50	27.9555
965712	AG1-439 E O1	18.6370	50/50	18.6370
965721	AG1-440 C	1.3558	Adder	3.01
965722	AG1-440 E	0.9039	Adder	2.01
965731	AG1-441 C	1.3558	Adder	3.01
965732	AG1-441 E	0.9039	Adder	2.01
965741	AG1-442 O1	4.4996	50/50	4.4996
965751	AG1-443 O1	4.4996	50/50	4.4996
965761	AG1-444 O1	14.9096	50/50	14.9096
965771	AG1-445	0.7834	Adder	1.74
965781	AG1-446	0.7834	Adder	1.74

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

13.5.32 Index 32

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169037744	314583	6LAKEVEW	DVP	314561	6CAROLNA	DVP	1	DVP_P1-2: LN 238-B	single	375.06	138.73	142.41	DC	13.82

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-5.6750	Adder	-6.68
314623	3WITAKRS	0.1132	80/20	0.1132
315131	1EDGECSMA (Deactivation : 22/04/2019)	10.2144	80/20	10.2144
315132	1EDGECSMB (Deactivation : 22/04/2019)	10.2144	80/20	10.2144
315136	1ROSEMG1	6.8305	80/20	6.8305
315137	1ROSEMS1	4.2356	80/20	4.2356
315138	1ROSEMG2	3.2012	80/20	3.2012
315139	1GASTONA	10.7423	80/20	10.7423
315141	1GASTONB	10.7423	80/20	10.7423
315601	1CONETOESOL	0.7705	80/20	0.7705
316020	AB2-059 C OP	1.4578	80/20	1.4578
316096	AB2-100 C1	3.2715	80/20	3.2715
316098	AB2-100 C2	3.2715	80/20	3.2715
316129	AC1-054 C	-4.7440	Adder	-5.58
922922	AB1-081 C OP	1.2369	80/20	1.2369
923991	AB2-040 C O1	-6.1807	Adder	-7.27
925591	AC1-034 C	5.9850	80/20	5.9850
926070	AC1-086 C	76.5691	80/20	76.5691
927024	AC1-189 C	3.4406	80/20	3.4406
934331	AD1-057 C O1	22.8011	80/20	22.8011
940571	AE2-044 C	3.9200	80/20	3.9200
942471	AE2-260 C O1	51.1896	80/20	51.1896
944141	AF1-082	2.5200	80/20	2.5200
957861	AF2-080 C	3.1249	80/20	3.1249
961091	AF2-400 C	-0.2040	Adder	-0.24
961671	AG1-007 C	0.8764	80/20	0.8764
962571	AG1-106 C	21.2933	80/20	21.2933
965711	AG1-439 C O1	13.8225	80/20	13.8225
965761	AG1-444 O1	7.3720	80/20	7.3720
WEC	WEC	0.1528	Confirmed LTF	0.1528
LGEE	LGEE	0.3110	Confirmed LTF	0.3110
CPL	CPL	1.8243	Confirmed LTF	1.8243
CBM-W2	CBM-W2	6.7558	Confirmed LTF	6.7558
NY	NY	0.1665	Confirmed LTF	0.1665
TVA	TVA	1.2754	Confirmed LTF	1.2754
SIGE	SIGE	0.0930	Confirmed LTF	0.0930
CBM-S2	CBM-S2	20.1910	Confirmed LTF	20.1910
CBM-S1	CBM-S1	0.3173	Confirmed LTF	0.3173
MEC	MEC	0.9184	Confirmed LTF	0.9184
LAGN	LAGN	1.5925	Confirmed LTF	1.5925

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W1	CBM-W1	6.4212	Confirmed LTF	6.4212

13.5.33 Index 33

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163838156	314591	6NASH	DVP	304226	6PA-RMOUNT#4	CPLE	1	DVP_P1-2: LN 2058	single	478.0	124.56	133.88	DC	44.56

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925121	AB2-169 C	0.6954	80/20	0.6954
925591	AC1-034 C	7.2859	80/20	7.2859
926070	AC1-086 C	24.2910	80/20	24.2910
926201	AC1-098 C	4.8342	80/20	4.8342
926211	AC1-099 C	1.6200	80/20	1.6200
927024	AC1-189 C	12.9879	80/20	12.9879
927145	AC1-208 C	7.2851	80/20	7.2851
932631	AC2-084 C	6.8914	80/20	6.8914
933991	AD1-023 C	7.8190	80/20	7.8190
934331	AD1-057 C O1	21.2858	80/20	21.2858
934521	AD1-076 C	30.5338	80/20	30.5338
936401	AD2-051 C O1	6.1863	80/20	6.1863
938221	AE1-035 C	0.2451	80/20	0.2451
938771	AE1-103 C	1.4755	80/20	1.4755
940481	AE2-033 C	7.4057	80/20	7.4057
940491	AE2-034 C	3.5150	80/20	3.5150
940541	AE2-040	1.1995	80/20	1.1995
940571	AE2-044 C	4.7720	80/20	4.7720
941501	AE2-147 C	4.8222	80/20	4.8222
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1204	80/20	0.1204
942471	AE2-260 C O1	10.1365	80/20	10.1365
943171	AE2-346 C	0.9633	80/20	0.9633
943911	AF1-059	6.8021	80/20	6.8021
944141	AF1-082	3.0677	80/20	3.0677
944871	AF1-152 C	1.6074	80/20	1.6074
945711	AF1-236 C O1	38.4807	80/20	38.4807
946011	AF1-266	6.1991	80/20	6.1991
946281	AF1-292 C	1.0061	80/20	1.0061
957521	AF2-046 C	10.7784	80/20	10.7784
957531	AF2-047 C	8.3523	80/20	8.3523
957861	AF2-080 C	11.7962	80/20	11.7962
959511	AF2-242 C	5.3743	80/20	5.3743
960081	AF2-299 C	1.6956	80/20	1.6956
961091	AF2-400 C	0.2150	80/20	0.2150
961671	AG1-007 C	2.6116	80/20	2.6116
961681	AG1-008 C	10.8000	80/20	10.8000
961851	AG1-027 C	5.3768	80/20	5.3768
961931	AG1-036 C	0.9036	80/20	0.9036
961941	AG1-037 C	0.3440	80/20	0.3440
962271	AG1-075 C O2	7.7552	80/20	7.7552
962331	AG1-082 C	1.3762	80/20	1.3762
962341	AG1-083 C	1.3762	80/20	1.3762
962351	AG1-084 C	1.2326	80/20	1.2326
962361	AG1-085 C	1.2326	80/20	1.2326
962571	AG1-106 C	6.7551	80/20	6.7551
963301	AG1-179 C	2.7800	80/20	2.7800
963311	AG1-180	1.3545	80/20	1.3545
964491	AG1-312 C O1	12.7534	80/20	12.7534
964501	AG1-313 C O2	3.4732	80/20	3.4732
964801	AG1-343 C	3.5833	80/20	3.5833
965291	AG1-394 C	1.2184	80/20	1.2184

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965451	AG1-413 C O2	2.7309	80/20	2.7309
965601	AG1-428 C O2	2.3208	80/20	2.3208
965631	AG1-431	22.2783	80/20	22.2783
965691	AG1-437 C O1	6.2958	80/20	6.2958
965701	AG1-438 C O1	6.2958	80/20	6.2958
965711	AG1-439 C O1	44.5620	80/20	44.5620
965721	AG1-440 C	2.4651	80/20	2.4651
965731	AG1-441 C	2.4651	80/20	2.4651
965741	AG1-442 O1	3.6725	80/20	3.6725
965751	AG1-443 O1	3.6725	80/20	3.6725
965761	AG1-444 O1	23.7664	80/20	23.7664
965771	AG1-445	1.4243	80/20	1.4243
965781	AG1-446	1.4243	80/20	1.4243
966621	AG1-532 C	0.9156	80/20	0.9156
966751	AG1-546 C	8.3914	80/20	8.3914
966801	AG1-551 C	1.7522	80/20	1.7522
966811	AG1-552 C	1.6593	80/20	1.6593
966931	AG1-431A	16.7380	80/20	16.7380
G-007A	G-007A	0.8895	Confirmed LTF	0.8895
VFT	VFT	2.3672	Confirmed LTF	2.3672
CALDERWOOD	CALDERWOOD	1.0899	Confirmed LTF	1.0899
PRAIRIE	PRAIRIE	3.7763	Confirmed LTF	3.7763
CHEOAH	CHEOAH	1.1166	Confirmed LTF	1.1166
CBM-N	CBM-N	0.4308	Confirmed LTF	0.4308
COTTONWOOD	COTTONWOOD	4.0320	Confirmed LTF	4.0320
HAMLET	HAMLET	2.3325	Confirmed LTF	2.3325
GIBSON	GIBSON	0.6688	Confirmed LTF	0.6688
BLUEG	BLUEG	2.0658	Confirmed LTF	2.0658
TRIMBLE	TRIMBLE	0.6561	Confirmed LTF	0.6561
CATAWBA	CATAWBA	1.1704	Confirmed LTF	1.1704

13.5.34 Index 34

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168525246	314637	6EDENTON	DVP	313885	6WALBMRL	DVP	1	DVP_P1-2: LN 2034-E	single	733.2	166.47	167.94	DC	10.75

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	3.8272	80/20	3.8272
315293	1DOMTR9	19.7949	80/20	19.7949
315294	1DOMTR10	24.2585	80/20	24.2585
315601	1CONETOE2SOL	0.5991	80/20	0.5991
315614	AA2-178 C	6.7899	80/20	6.7899
925121	AB2-169 C	2.1988	80/20	2.1988
927024	AC1-189 C	4.3302	80/20	4.3302
934521	AD1-076 C	229.2748	80/20	229.2748
940491	AE2-034 C	32.2774	80/20	32.2774
945711	AF1-236 C O1	353.3609	80/20	353.3609
957531	AF2-047 C	76.6973	80/20	76.6973
957861	AF2-080 C	3.9329	80/20	3.9329
959511	AF2-242 C	12.0326	80/20	12.0326
961671	AG1-007 C	0.4949	80/20	0.4949
965631	AG1-431	204.5774	80/20	204.5774
965711	AG1-439 C O1	10.7475	80/20	10.7475
965761	AG1-444 O1	5.7320	80/20	5.7320
966801	AG1-551 C	2.6202	80/20	2.6202
966931	AG1-431A	153.7020	80/20	153.7020
WEC	WEC	0.0980	Confirmed LTF	0.0980
LGEE	LGEE	0.1992	Confirmed LTF	0.1992
CPL	CPL	1.1712	Confirmed LTF	1.1712
CBM-W2	CBM-W2	4.2381	Confirmed LTF	4.2381
NY	NY	0.0973	Confirmed LTF	0.0973
TVA	TVA	0.7938	Confirmed LTF	0.7938
SIGE	SIGE	0.0575	Confirmed LTF	0.0575
CBM-S2	CBM-S2	12.4862	Confirmed LTF	12.4862
CBM-S1	CBM-S1	0.1984	Confirmed LTF	0.1984
MEC	MEC	0.5832	Confirmed LTF	0.5832
LAGN	LAGN	0.9905	Confirmed LTF	0.9905
CBM-W1	CBM-W1	4.1219	Confirmed LTF	4.1219

13.5.35 Index 35

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174095786	314638	6ELIZ CT	DVP	314647	6SHAWBRO	DVP	1	DVP_P4-2: 246T247	breaker	699.0	273.19	277.71	DC	31.57

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	1.5877	50/50	1.5877
314582	3KELFORD	0.3271	50/50	0.3271
314589	3MURPHYS	0.0528	50/50	0.0528
314594	6PLYMOTH	0.2089	50/50	0.2089
314638	6ELIZ CT	0.9282	50/50	0.9282
314639	6TANGLEW	1.6342	50/50	1.6342
315292	1DOMTR78	2.5839	50/50	2.5839
315293	1DOMTR9	13.3644	50/50	13.3644
315294	1DOMTR10	16.3780	50/50	16.3780
315601	1CONETOE2SOL	1.0559	50/50	1.0559
315602	1HOLLOMANSOL	1.7266	50/50	1.7266
315605	6W1-029WIND	4.1551	50/50	4.1551
315606	3AA2-053SOLA	0.9023	50/50	0.9023
315611	6Z1-036WIND	3.7357	50/50	3.7357
315614	AA2-178 C	4.0818	50/50	4.0818
316140	AB2-099 C (Suspended)	0.5431	50/50	0.5431
316141	AB2-099 E (Suspended)	0.2327	50/50	0.2327
900672	V4-068 E	0.1833	50/50	0.1833
901082	W1-029 E	176.2507	50/50	176.2507
913392	Y1-086 E	9.5988	50/50	9.5988
916042	Z1-036 E (Suspended)	158.6457	50/50	158.6457
917122	Z2-027 E	4.4391	50/50	4.4391
917332	Z2-043 E	0.9758	50/50	0.9758
917512	Z2-088 E OP1	6.2635	50/50	6.2635
918512	AA1-065 E OP	4.9001	50/50	4.9001
918532	AA1-067 E	0.7263	50/50	0.7263
919692	AA2-053 E OP	2.3481	50/50	2.3481
920692	AA2-178 E	11.0880	50/50	11.0880
923832	AB2-022 E	5.4187	50/50	5.4187
925121	AB2-169 C	1.6669	50/50	1.6669
925122	AB2-169 E	9.4818	50/50	9.4818
926201	AC1-098 C	4.4398	50/50	4.4398
926202	AC1-098 E	2.6450	50/50	2.6450
926211	AC1-099 C	1.4878	50/50	1.4878
926212	AC1-099 E	0.8738	50/50	0.8738
927024	AC1-189 C	7.3537	50/50	7.3537
927025	AC1-189 E	3.6631	50/50	3.6631
927145	AC1-208 C	5.6741	50/50	5.6741
927146	AC1-208 E	2.5093	50/50	2.5093
932631	AC2-084 C	6.3291	50/50	6.3291
932632	AC2-084 E	3.1173	50/50	3.1173

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933991	AD1-023 C	25.7249	50/50	25.7249
933992	AD1-023 E	14.0047	50/50	14.0047
934521	AD1-076 C	120.5800	50/50	120.5800
934522	AD1-076 E	61.3992	50/50	61.3992
936401	AD2-051 C O1	10.5471	50/50	10.5471
936402	AD2-051 E O1	4.5288	50/50	4.5288
938221	AE1-035 C	0.4317	50/50	0.4317
938222	AE1-035 E	1.3475	50/50	1.3475
940491	AE2-034 C	19.4040	50/50	19.4040
940492	AE2-034 E	8.3160	50/50	8.3160
941501	AE2-147 C	60.7761	50/50	60.7761
941502	AE2-147 E	40.5174	50/50	40.5174
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1765	50/50	0.1765
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.6025	50/50	0.6025
943171	AE2-346 C	1.3033	50/50	1.3033
943172	AE2-346 E	0.5586	50/50	0.5586
944871	AF1-152 C	20.2587	50/50	20.2587
944872	AF1-152 E	13.5058	50/50	13.5058
945711	AF1-236 C O1	212.4276	50/50	212.4276
945712	AF1-236 E O1	131.2080	50/50	131.2080
957521	AF2-046 C	11.3014	50/50	11.3014
957522	AF2-046 E	5.6846	50/50	5.6846
957531	AF2-047 C	46.1076	50/50	46.1076
957532	AF2-047 E	23.1924	50/50	23.1924
957821	AF2-076 C	6.1242	50/50	6.1242
957822	AF2-076 E	4.0828	50/50	4.0828
957861	AF2-080 C	6.6789	50/50	6.6789
957862	AF2-080 E	2.9608	50/50	2.9608
959511	AF2-242 C	10.4859	50/50	10.4859
959512	AF2-242 E	8.1557	50/50	8.1557
961671	AG1-007 C	0.9036	50/50	0.9036
961672	AG1-007 E	0.5046	50/50	0.5046
961681	AG1-008 C	11.3240	50/50	11.3240
961682	AG1-008 E	5.6620	50/50	5.6620
961931	AG1-036 C	1.0977	50/50	1.0977
961932	AG1-036 E	0.7318	50/50	0.7318
961941	AG1-037 C	0.4655	50/50	0.4655
961942	AG1-037 E	0.3103	50/50	0.3103
962331	AG1-082 C	1.8619	50/50	1.8619
962332	AG1-082 E	1.2413	50/50	1.2413
962341	AG1-083 C	1.8619	50/50	1.8619
962342	AG1-083 E	1.2413	50/50	1.2413
962351	AG1-084 C	1.8074	50/50	1.8074
962352	AG1-084 E	1.2049	50/50	1.2049
962361	AG1-085 C	1.8074	50/50	1.8074
962362	AG1-085 E	1.2049	50/50	1.2049
964491	AG1-312 C O1	24.7845	50/50	24.7845
964492	AG1-312 E O1	6.1961	50/50	6.1961
964501	AG1-313 C O2	3.4042	50/50	3.4042
964502	AG1-313 E O2	2.2695	50/50	2.2695
965631	AG1-431	122.9844	50/50	122.9844

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965691	AG1-437 C O1	17.7264	50/50	17.7264
965692	AG1-437 E O1	11.8176	50/50	11.8176
965701	AG1-438 C O1	17.7264	50/50	17.7264
965702	AG1-438 E O1	11.8176	50/50	11.8176
965711	AG1-439 C O1	18.9420	50/50	18.9420
965712	AG1-439 E O1	12.6280	50/50	12.6280
965741	AG1-442 O1	10.3404	50/50	10.3404
965751	AG1-443 O1	10.3404	50/50	10.3404
965761	AG1-444 O1	10.1024	50/50	10.1024
966491	AG1-518 O2	33.7640	50/50	33.7640
966801	AG1-551 C	2.7892	50/50	2.7892
966802	AG1-551 E	1.1954	50/50	1.1954
966931	AG1-431A	92.4000	50/50	92.4000
WEC	WEC	0.1877	Confirmed LTF	0.1877
LGEE	LGEE	0.3833	Confirmed LTF	0.3833
CPL	CPL	2.2325	Confirmed LTF	2.2325
CBM-W2	CBM-W2	8.1536	Confirmed LTF	8.1536
NY	NY	0.2024	Confirmed LTF	0.2024
TVA	TVA	1.5288	Confirmed LTF	1.5288
O-066	O-066	2.9074	Confirmed LTF	2.9074
SIGE	SIGE	0.1138	Confirmed LTF	0.1138
CBM-S2	CBM-S2	24.0016	Confirmed LTF	24.0016
CBM-S1	CBM-S1	0.3819	Confirmed LTF	0.3819
G-007	G-007	0.4568	Confirmed LTF	0.4568
MEC	MEC	1.1202	Confirmed LTF	1.1202
LAGN	LAGN	1.9075	Confirmed LTF	1.9075
AA2-074	AA2-074	1.4742	LTF	1.4742
CBM-W1	CBM-W1	7.9073	Confirmed LTF	7.9073

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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
174304477	314639	6TANGLEW	DVP	313851	6ECITYDP2	DVP	1	DVP_P4-2: 246T247	breaker	1204.0	164.37	166.99	DC	31.6

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314582	3KELFORD	0.3274	50/50	0.3274
314589	3MURPHYS	0.0528	50/50	0.0528
314594	6PLYMOTH	0.2090	50/50	0.2090
314639	6TANGLEW	1.6344	50/50	1.6344
315292	1DOMTR78	2.5848	50/50	2.5848
315293	1DOMTR9	13.3689	50/50	13.3689
315294	1DOMTR10	16.3835	50/50	16.3835
315601	1CONETOE2SOL	1.0568	50/50	1.0568
315602	1HOLLOMANSOL	1.7275	50/50	1.7275
315605	6W1-029WIND	4.1557	50/50	4.1557
315606	3AA2-053SOLA	0.9032	50/50	0.9032
315611	6Z1-036WIND	3.7364	50/50	3.7364
315614	AA2-178 C	4.0828	50/50	4.0828
316140	AB2-099 C (Suspended)	0.5434	50/50	0.5434
316141	AB2-099 E (Suspended)	0.2329	50/50	0.2329
900672	V4-068 E	0.1835	50/50	0.1835
901082	W1-029 E	176.2794	50/50	176.2794
916042	Z1-036 E (Suspended)	158.6744	50/50	158.6744
917122	Z2-027 E	4.4397	50/50	4.4397
917332	Z2-043 E	0.9765	50/50	0.9765
917342	Z2-044 E	0.2876	Adder	0.34
917512	Z2-088 E OP1	6.2689	50/50	6.2689
918512	AA1-065 E OP	4.9027	50/50	4.9027
918532	AA1-067 E	0.7268	50/50	0.7268
919692	AA2-053 E OP	2.3506	50/50	2.3506
919702	AA2-057 E OP	1.7609	Adder	2.07
920592	AA2-165 E	0.2420	Adder	0.28
920692	AA2-178 E	11.0906	50/50	11.0906
923262	AB1-132 C OP (Suspended)	7.0872	Adder	8.34
923263	AB1-132 E OP (Suspended)	3.0374	Adder	3.57
925121	AB2-169 C	1.6676	50/50	1.6676
925122	AB2-169 E	9.4857	50/50	9.4857
926070	AC1-086 C	10.4367	Adder	12.28
926071	AC1-086 E	4.7501	Adder	5.59
926201	AC1-098 C	4.4439	50/50	4.4439
926202	AC1-098 E	2.6475	50/50	2.6475
926211	AC1-099 C	1.4892	50/50	1.4892
926212	AC1-099 E	0.8746	50/50	0.8746
927024	AC1-189 C	7.3591	50/50	7.3591
927025	AC1-189 E	3.6657	50/50	3.6657

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
927145	AC1-208 C	5.6796	50/50	5.6796
927146	AC1-208 E	2.5117	50/50	2.5117
932631	AC2-084 C	6.3350	50/50	6.3350
932632	AC2-084 E	3.1202	50/50	3.1202
933991	AD1-023 C	25.7335	50/50	25.7335
933992	AD1-023 E	14.0093	50/50	14.0093
934331	AD1-057 C O1	4.9218	Adder	5.79
934332	AD1-057 E O1	2.6255	Adder	3.09
934521	AD1-076 C	120.6153	50/50	120.6153
934522	AD1-076 E	61.4171	50/50	61.4171
936401	AD2-051 C O1	10.5528	50/50	10.5528
936402	AD2-051 E O1	4.5313	50/50	4.5313
938221	AE1-035 C	0.4319	50/50	0.4319
938222	AE1-035 E	1.3482	50/50	1.3482
940491	AE2-034 C	19.4086	50/50	19.4086
940492	AE2-034 E	8.3180	50/50	8.3180
941501	AE2-147 C	60.7860	50/50	60.7860
941502	AE2-147 E	40.5240	50/50	40.5240
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1767	50/50	0.1767
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.6028	50/50	0.6028
943171	AE2-346 C	1.3043	50/50	1.3043
943172	AE2-346 E	0.5590	50/50	0.5590
944871	AF1-152 C	20.2620	50/50	20.2620
944872	AF1-152 E	13.5080	50/50	13.5080
945711	AF1-236 C O1	212.4782	50/50	212.4782
945712	AF1-236 E O1	131.2392	50/50	131.2392
957521	AF2-046 C	11.3123	50/50	11.3123
957522	AF2-046 E	5.6902	50/50	5.6902
957531	AF2-047 C	46.1186	50/50	46.1186
957532	AF2-047 E	23.1979	50/50	23.1979
957821	AF2-076 C	6.1275	50/50	6.1275
957822	AF2-076 E	4.0850	50/50	4.0850
957861	AF2-080 C	6.6838	50/50	6.6838
957862	AF2-080 E	2.9629	50/50	2.9629
959511	AF2-242 C	10.4908	50/50	10.4908
959512	AF2-242 E	8.1595	50/50	8.1595
961671	AG1-007 C	0.9044	50/50	0.9044
961672	AG1-007 E	0.5051	50/50	0.5051
961681	AG1-008 C	11.3350	50/50	11.3350
961682	AG1-008 E	5.6675	50/50	5.6675
961931	AG1-036 C	1.0986	50/50	1.0986
961932	AG1-036 E	0.7324	50/50	0.7324
961941	AG1-037 C	0.4658	50/50	0.4658
961942	AG1-037 E	0.3105	50/50	0.3105
962331	AG1-082 C	1.8632	50/50	1.8632
962332	AG1-082 E	1.2422	50/50	1.2422
962341	AG1-083 C	1.8632	50/50	1.8632
962342	AG1-083 E	1.2422	50/50	1.2422
962351	AG1-084 C	1.8085	50/50	1.8085
962352	AG1-084 E	1.2057	50/50	1.2057
962361	AG1-085 C	1.8085	50/50	1.8085

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962362	AG1-085 E	1.2057	50/50	1.2057
962571	AG1-106 C	1.5383	Adder	3.41
962572	AG1-106 E	0.6976	Adder	1.55
964491	AG1-312 C O1	24.7968	50/50	24.7968
964492	AG1-312 E O1	6.1992	50/50	6.1992
964501	AG1-313 C O2	3.4069	50/50	3.4069
964502	AG1-313 E O2	2.2713	50/50	2.2713
965631	AG1-431	123.0137	50/50	123.0137
965691	AG1-437 C O1	17.7330	50/50	17.7330
965692	AG1-437 E O1	11.8220	50/50	11.8220
965701	AG1-438 C O1	17.7330	50/50	17.7330
965702	AG1-438 E O1	11.8220	50/50	11.8220
965711	AG1-439 C O1	18.9585	50/50	18.9585
965712	AG1-439 E O1	12.6390	50/50	12.6390
965741	AG1-442 O1	10.3442	50/50	10.3442
965751	AG1-443 O1	10.3442	50/50	10.3442
965761	AG1-444 O1	10.1112	50/50	10.1112
966491	AG1-518 O2	33.7695	50/50	33.7695
966801	AG1-551 C	2.7908	50/50	2.7908
966802	AG1-551 E	1.1960	50/50	1.1960
966931	AG1-431A	92.4220	50/50	92.4220
WEC	WEC	0.1909	Confirmed LTF	0.1909
LGEE	LGEE	0.3895	Confirmed LTF	0.3895
CPL	CPL	2.2393	Confirmed LTF	2.2393
CBM-W2	CBM-W2	8.2432	Confirmed LTF	8.2432
NY	NY	0.1969	Confirmed LTF	0.1969
TVA	TVA	1.5428	Confirmed LTF	1.5428
O-066	O-066	2.8401	Confirmed LTF	2.8401
SIG	SIG	0.1138	Confirmed LTF	0.1138
CBM-S2	CBM-S2	24.1060	Confirmed LTF	24.1060
CBM-S1	CBM-S1	0.3857	Confirmed LTF	0.3857
G-007	G-007	0.4463	Confirmed LTF	0.4463
MEC	MEC	1.1361	Confirmed LTF	1.1361
LAGN	LAGN	1.9250	Confirmed LTF	1.9250
AA2-074	AA2-074	1.4791	LTF	1.4791
CBM-W1	CBM-W1	8.0475	Confirmed LTF	8.0475

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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
174304610	314645	6SLIGO L269	DVP	963820	AG1-235 TAP	DVP	1	DVP_P4-2: 246T247	breaker	699.0	123.22	124.21	DC	15.39

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.7762	50/50	0.7762
313717	6SLIGO L2192	4.2819	50/50	4.2819
314594	6PLYMOTH	0.1021	50/50	0.1021
314632	6AYDLETOLD	5.1019	50/50	5.1019
314638	6ELIZ CT	0.4538	50/50	0.4538
314639	6TANGLEW	0.7989	50/50	0.7989
314643	3O INLET	0.9739	50/50	0.9739
315292	1DOMTR78	1.2624	50/50	1.2624
315293	1DOMTR9	6.5292	50/50	6.5292
315294	1DOMTR10	8.0015	50/50	8.0015
315603	6AA1-139SOLA	3.4828	50/50	3.4828
315605	6W1-029WIND	2.0312	50/50	2.0312
315611	6Z1-036WIND	1.8261	50/50	1.8261
315614	AA2-178 C	1.9949	50/50	1.9949
316140	AB2-099 C (Suspended)	0.2252	Adder	0.26
316141	AB2-099 E (Suspended)	0.0965	Adder	0.11
901082	W1-029 E	86.1587	50/50	86.1587
913392	Y1-086 E	4.6928	50/50	4.6928
916042	Z1-036 E (Suspended)	77.5486	50/50	77.5486
917122	Z2-027 E	2.1701	50/50	2.1701
917332	Z2-043 E	0.4047	Adder	0.48
917512	Z2-088 E OP1	2.5962	Adder	3.05
918512	AA1-065 E OP	2.0335	Adder	2.39
918532	AA1-067 E	0.3013	Adder	0.35
919152	AA1-139 E	10.0980	50/50	10.0980
920692	AA2-178 E	5.4190	50/50	5.4190
923832	AB2-022 E	2.6492	50/50	2.6492
925121	AB2-169 C	0.8142	50/50	0.8142
925122	AB2-169 E	4.6312	50/50	4.6312
926201	AC1-098 C	1.8399	Adder	2.16
926202	AC1-098 E	1.0961	Adder	1.29
926211	AC1-099 C	0.6166	Adder	0.73
926212	AC1-099 E	0.3621	Adder	0.43
927024	AC1-189 C	3.0488	Adder	3.59
927025	AC1-189 E	1.5187	Adder	1.79
932631	AC2-084 C	2.6229	Adder	3.09
932632	AC2-084 E	1.2919	Adder	1.52
933991	AD1-023 C	12.5680	50/50	12.5680
933992	AD1-023 E	6.8420	50/50	6.8420
934521	AD1-076 C	58.9190	50/50	58.9190
934522	AD1-076 E	30.0015	50/50	30.0015

Bus #	Bus	Gendoliv MW Impact	Type	Full MW Impact
936401	AD2-051 C O1	4.3769	Adder	5.15
936402	AD2-051 E O1	1.8794	Adder	2.21
937221	AD2-160 C O1	6.2012	50/50	6.2012
937222	AD2-160 E O1	3.2518	50/50	3.2518
938222	AE1-035 E	0.5592	Adder	0.66
938535	AE1-072 C	45.0361	50/50	45.0361
938536	AE1-072 E	23.2004	50/50	23.2004
940491	AE2-034 C	9.4832	50/50	9.4832
940492	AE2-034 E	4.0642	50/50	4.0642
941501	AE2-147 C	29.7099	50/50	29.7099
941502	AE2-147 E	19.8066	50/50	19.8066
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2499	Adder	0.29
942401	AE2-253 C	6.5226	50/50	6.5226
942402	AE2-253 E	2.9304	50/50	2.9304
943171	AE2-346 C	0.5406	Adder	0.64
943172	AE2-346 E	0.2317	Adder	0.27
944871	AF1-152 C	9.9033	50/50	9.9033
944872	AF1-152 E	6.6022	50/50	6.6022
945711	AF1-236 C O1	103.8182	50/50	103.8182
945712	AF1-236 E O1	64.1244	50/50	64.1244
957531	AF2-047 C	22.5338	50/50	22.5338
957532	AF2-047 E	11.3347	50/50	11.3347
957821	AF2-076 C	2.5416	Adder	2.99
957822	AF2-076 E	1.6944	Adder	1.99
957861	AF2-080 C	2.7691	Adder	3.26
957862	AF2-080 E	1.2275	Adder	1.44
957871	AF2-081 C	15.7080	50/50	15.7080
957872	AF2-081 E	6.7320	50/50	6.7320
959511	AF2-242 C	5.1205	50/50	5.1205
959512	AF2-242 E	3.9826	50/50	3.9826
961671	AG1-007 C	0.1985	Adder	0.44
961672	AG1-007 E	0.1108	Adder	0.25
961931	AG1-036 C	0.2412	Adder	0.54
961932	AG1-036 E	0.1608	Adder	0.36
961941	AG1-037 C	0.1023	Adder	0.23
961942	AG1-037 E	0.0682	Adder	0.15
962331	AG1-082 C	0.4093	Adder	0.91
962332	AG1-082 E	0.2729	Adder	0.61
962341	AG1-083 C	0.4093	Adder	0.91
962342	AG1-083 E	0.2729	Adder	0.61
962351	AG1-084 C	0.3974	Adder	0.88
962352	AG1-084 E	0.2649	Adder	0.59
962361	AG1-085 C	0.3974	Adder	0.88
962362	AG1-085 E	0.2649	Adder	0.59
964491	AG1-312 C O1	12.1027	50/50	12.1027
964492	AG1-312 E O1	3.0257	50/50	3.0257
964501	AG1-313 C O2	0.7478	Adder	1.66
964502	AG1-313 E O2	0.4985	Adder	1.11
965631	AG1-431	60.1053	50/50	60.1053
965691	AG1-437 C O1	8.6592	50/50	8.6592
965692	AG1-437 E O1	5.7728	50/50	5.7728

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965701	AG1-438 C O1	8.6592	50/50	8.6592
965702	AG1-438 E O1	5.7728	50/50	5.7728
965711	AG1-439 C O1	4.1613	Adder	9.24
965712	AG1-439 E O1	2.7742	Adder	6.16
965741	AG1-442 O1	5.0512	50/50	5.0512
965751	AG1-443 O1	5.0512	50/50	5.0512
965761	AG1-444 O1	2.2193	Adder	4.93
966491	AG1-518 O2	16.5055	50/50	16.5055
966801	AG1-551 C	0.6134	Adder	1.36
966802	AG1-551 E	0.2629	Adder	0.58
966931	AG1-431A	45.1580	50/50	45.1580
WEC	WEC	0.0860	Confirmed LTF	0.0860
LGEE	LGEE	0.1759	Confirmed LTF	0.1759
CPL	CPL	1.0797	Confirmed LTF	1.0797
CBM-W2	CBM-W2	3.8259	Confirmed LTF	3.8259
NY	NY	0.1089	Confirmed LTF	0.1089
TVA	TVA	0.7224	Confirmed LTF	0.7224
O-066	O-066	1.5479	Confirmed LTF	1.5479
SIGE	SIGE	0.0558	Confirmed LTF	0.0558
CBM-S2	CBM-S2	11.5466	Confirmed LTF	11.5466
CBM-S1	CBM-S1	0.1797	Confirmed LTF	0.1797
G-007	G-007	0.2425	Confirmed LTF	0.2425
MEC	MEC	0.5180	Confirmed LTF	0.5180
LAGN	LAGN	0.9013	Confirmed LTF	0.9013
CBM-W1	CBM-W1	3.6031	Confirmed LTF	3.6031

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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
174304674	314647	6SHAWBRO	DVP	938530	AE1-072_TAP	DVP	1	DVP_P4-2: 246T247	breaker	699.0	113.17	114.16	DC	15.39

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.7762	50/50	0.7762
313717	6SLIGO L2192	4.2819	50/50	4.2819
314594	6PLYMOTH	0.1021	50/50	0.1021
314632	6AYDLETOLD	5.1019	50/50	5.1019
314638	6ELIZ CT	0.4538	50/50	0.4538
314639	6TANGLEW	0.7989	50/50	0.7989
314643	3O INLET	0.9739	50/50	0.9739
315292	1DOMTR78	1.2624	50/50	1.2624
315293	1DOMTR9	6.5292	50/50	6.5292
315294	1DOMTR10	8.0015	50/50	8.0015
315603	6AA1-139SOLA	3.4828	50/50	3.4828
315605	6W1-029WIND	2.0312	50/50	2.0312
315611	6Z1-036WIND	1.8261	50/50	1.8261
315614	AA2-178 C	1.9949	50/50	1.9949
316140	AB2-099 C (Suspended)	0.2252	Adder	0.26
316141	AB2-099 E (Suspended)	0.0965	Adder	0.11
901082	W1-029 E	86.1587	50/50	86.1587
913392	Y1-086 E	4.6928	50/50	4.6928
916042	Z1-036 E (Suspended)	77.5486	50/50	77.5486
917122	Z2-027 E	2.1701	50/50	2.1701
917332	Z2-043 E	0.4047	Adder	0.48
917512	Z2-088 E OP1	2.5962	Adder	3.05
918512	AA1-065 E OP	2.0335	Adder	2.39
918532	AA1-067 E	0.3013	Adder	0.35
919152	AA1-139 E	10.0980	50/50	10.0980
920692	AA2-178 E	5.4190	50/50	5.4190
923832	AB2-022 E	2.6492	50/50	2.6492
925121	AB2-169 C	0.8142	50/50	0.8142
925122	AB2-169 E	4.6312	50/50	4.6312
927024	AC1-189 C	3.0488	Adder	3.59
927025	AC1-189 E	1.5187	Adder	1.79
933991	AD1-023 C	12.5680	50/50	12.5680
933992	AD1-023 E	6.8420	50/50	6.8420
934521	AD1-076 C	58.9190	50/50	58.9190
934522	AD1-076 E	30.0015	50/50	30.0015
936401	AD2-051 C O1	4.3769	Adder	5.15
936402	AD2-051 E O1	1.8794	Adder	2.21
937221	AD2-160 C O1	6.2012	50/50	6.2012
937222	AD2-160 E O1	3.2518	50/50	3.2518
938222	AE1-035 E	0.5592	Adder	0.66
940491	AE2-034 C	9.4832	50/50	9.4832

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940492	AE2-034 E	4.0642	50/50	4.0642
941501	AE2-147 C	29.7099	50/50	29.7099
941502	AE2-147 E	19.8066	50/50	19.8066
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2499	Adder	0.29
942401	AE2-253 C	6.5226	50/50	6.5226
942402	AE2-253 E	2.9304	50/50	2.9304
943171	AE2-346 C	0.5406	Adder	0.64
943172	AE2-346 E	0.2317	Adder	0.27
944871	AF1-152 C	9.9033	50/50	9.9033
944872	AF1-152 E	6.6022	50/50	6.6022
945711	AF1-236 C O1	103.8182	50/50	103.8182
945712	AF1-236 E O1	64.1244	50/50	64.1244
957531	AF2-047 C	22.5338	50/50	22.5338
957532	AF2-047 E	11.3347	50/50	11.3347
957821	AF2-076 C	2.5416	Adder	2.99
957822	AF2-076 E	1.6944	Adder	1.99
957861	AF2-080 C	2.7691	Adder	3.26
957862	AF2-080 E	1.2275	Adder	1.44
957871	AF2-081 C	15.7080	50/50	15.7080
957872	AF2-081 E	6.7320	50/50	6.7320
959511	AF2-242 C	5.1205	50/50	5.1205
959512	AF2-242 E	3.9826	50/50	3.9826
961931	AG1-036 C	0.2412	Adder	0.54
961932	AG1-036 E	0.1608	Adder	0.36
961941	AG1-037 C	0.1023	Adder	0.23
961942	AG1-037 E	0.0682	Adder	0.15
962331	AG1-082 C	0.4093	Adder	0.91
962332	AG1-082 E	0.2729	Adder	0.61
962341	AG1-083 C	0.4093	Adder	0.91
962342	AG1-083 E	0.2729	Adder	0.61
962351	AG1-084 C	0.3974	Adder	0.88
962352	AG1-084 E	0.2649	Adder	0.59
962361	AG1-085 C	0.3974	Adder	0.88
962362	AG1-085 E	0.2649	Adder	0.59
964491	AG1-312 C O1	12.1027	50/50	12.1027
964492	AG1-312 E O1	3.0257	50/50	3.0257
964501	AG1-313 C O2	0.7478	Adder	1.66
964502	AG1-313 E O2	0.4985	Adder	1.11
965631	AG1-431	60.1053	50/50	60.1053
965691	AG1-437 C O1	8.6592	50/50	8.6592
965692	AG1-437 E O1	5.7728	50/50	5.7728
965701	AG1-438 C O1	8.6592	50/50	8.6592
965702	AG1-438 E O1	5.7728	50/50	5.7728
965711	AG1-439 C O1	4.1613	Adder	9.24
965712	AG1-439 E O1	2.7742	Adder	6.16
965741	AG1-442 O1	5.0512	50/50	5.0512
965751	AG1-443 O1	5.0512	50/50	5.0512
965761	AG1-444 O1	2.2193	Adder	4.93
966491	AG1-518 O2	16.5055	50/50	16.5055
966801	AG1-551 C	0.6134	Adder	1.36
966802	AG1-551 E	0.2629	Adder	0.58

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966931	AG1-431A	45.1580	50/50	45.1580
WEC	WEC	0.0860	Confirmed LTF	0.0860
LGEE	LGEE	0.1759	Confirmed LTF	0.1759
CPLE	CPLE	1.0797	Confirmed LTF	1.0797
CBM-W2	CBM-W2	3.8259	Confirmed LTF	3.8259
NY	NY	0.1089	Confirmed LTF	0.1089
TVA	TVA	0.7224	Confirmed LTF	0.7224
O-066	O-066	1.5479	Confirmed LTF	1.5479
SIGE	SIGE	0.0558	Confirmed LTF	0.0558
CBM-S2	CBM-S2	11.5466	Confirmed LTF	11.5466
CBM-S1	CBM-S1	0.1797	Confirmed LTF	0.1797
G-007	G-007	0.2425	Confirmed LTF	0.2425
MEC	MEC	0.5180	Confirmed LTF	0.5180
LAGN	LAGN	0.9013	Confirmed LTF	0.9013
CBM-W1	CBM-W1	3.6031	Confirmed LTF	3.6031

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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
175552523	314648	6SUNBURY	DVP	966490	AG1-518 TAP	DVP	1	DVP_P1-2: LN 2020	single	984.18	101.98	103.26	DC	12.61

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	0.4266	80/20	0.4266
314582	3KELFORD	0.1925	80/20	0.1925
314589	3MURPHYS	0.0291	80/20	0.0291
314623	3WITAKRS	0.0778	80/20	0.0778
315126	1ROARAP2	0.4164	80/20	0.4164
315128	1ROARAP4	0.3974	80/20	0.3974
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.4174	80/20	3.4174
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.4174	80/20	3.4174
315136	1ROSEMG1	0.7135	80/20	0.7135
315137	1ROSEMS1	0.4424	80/20	0.4424
315138	1ROSEMG2	0.3344	80/20	0.3344
315139	1GASTONA	1.0269	80/20	1.0269
315141	1GASTONB	1.0269	80/20	1.0269
315292	1DOMTR78	2.2301	80/20	2.2301
315293	1DOMTR9	11.5346	80/20	11.5346
315294	1DOMTR10	14.1355	80/20	14.1355
315601	1CONETOE2SOL	0.7028	80/20	0.7028
315602	1HOLLOMANSOL	1.0116	80/20	1.0116
315605	6W1-029WIND	4.4399	80/20	4.4399
315606	3AA2-053SOLA	0.5280	80/20	0.5280
315611	6Z1-036WIND	3.7399	80/20	3.7399
315614	AA2-178 C	3.8465	80/20	3.8465
316020	AB2-059 C OP	0.5947	80/20	0.5947
316140	AB2-099 C (Suspended)	0.3143	80/20	0.3143
920591	AA2-165 C	0.0573	80/20	0.0573
922922	AB1-081 C OP	0.5046	80/20	0.5046
925121	AB2-169 C	1.3763	80/20	1.3763
925591	AC1-034 C	2.4415	80/20	2.4415
926070	AC1-086 C	7.3193	80/20	7.3193
926201	AC1-098 C	2.6606	80/20	2.6606
926211	AC1-099 C	0.8916	80/20	0.8916
927024	AC1-189 C	4.9315	80/20	4.9315
927145	AC1-208 C	3.4265	80/20	3.4265
932631	AC2-084 C	3.7927	80/20	3.7927
933991	AD1-023 C	21.5509	80/20	21.5509
934331	AD1-057 C O1	3.5916	80/20	3.5916
934521	AD1-076 C	106.8508	80/20	106.8508
936401	AD2-051 C O1	6.1811	80/20	6.1811
938221	AE1-035 C	0.2529	80/20	0.2529
940491	AE2-034 C	18.2855	80/20	18.2855

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940571	AE2-044 C	1.5991	80/20	1.5991
941501	AE2-147 C	64.9431	80/20	64.9431
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1031	80/20	0.1031
943171	AE2-346 C	0.7543	80/20	0.7543
944141	AF1-082	1.0280	80/20	1.0280
944871	AF1-152 C	21.6477	80/20	21.6477
945711	AF1-236 C O1	200.1831	80/20	200.1831
957521	AF2-046 C	6.3114	80/20	6.3114
957531	AF2-047 C	43.4499	80/20	43.4499
957861	AF2-080 C	4.4790	80/20	4.4790
959511	AF2-242 C	8.2886	80/20	8.2886
961671	AG1-007 C	0.5973	80/20	0.5973
961681	AG1-008 C	6.3240	80/20	6.3240
961931	AG1-036 C	0.6265	80/20	0.6265
961941	AG1-037 C	0.2694	80/20	0.2694
962331	AG1-082 C	1.0776	80/20	1.0776
962341	AG1-083 C	1.0776	80/20	1.0776
962351	AG1-084 C	1.0558	80/20	1.0558
962361	AG1-085 C	1.0558	80/20	1.0558
962571	AG1-106 C	2.0354	80/20	2.0354
964491	AG1-312 C O1	15.7819	80/20	15.7819
964501	AG1-313 C O2	1.9905	80/20	1.9905
965631	AG1-431	115.8955	80/20	115.8955
965691	AG1-437 C O1	13.9836	80/20	13.9836
965701	AG1-438 C O1	13.9836	80/20	13.9836
965711	AG1-439 C O1	12.6075	80/20	12.6075
965741	AG1-442 O1	8.1571	80/20	8.1571
965751	AG1-443 O1	8.1571	80/20	8.1571
965761	AG1-444 O1	6.7240	80/20	6.7240
966801	AG1-551 C	2.0857	80/20	2.0857
966811	AG1-552 C	0.6611	80/20	0.6611
966931	AG1-431A	87.0740	80/20	87.0740
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2444	Confirmed LTF	0.2444
CPL	CPL	1.4599	Confirmed LTF	1.4599
CBM-W2	CBM-W2	5.2506	Confirmed LTF	5.2506
NY	NY	0.1371	Confirmed LTF	0.1371
TVA	TVA	0.9884	Confirmed LTF	0.9884
SIGE	SIGE	0.0743	Confirmed LTF	0.0743
CBM-S2	CBM-S2	15.6391	Confirmed LTF	15.6391
CBM-S1	CBM-S1	0.2462	Confirmed LTF	0.2462
MEC	MEC	0.7166	Confirmed LTF	0.7166
LAGN	LAGN	1.2338	Confirmed LTF	1.2338
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

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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
174304463	314651	6WINFALL	DVP	314639	6TANGLEW	DVP	1	DVP_P4-2: 246T247	breaker	1163.0	174.0	176.72	DC	31.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314582	3KELFORD	0.3276	50/50	0.3276
314589	3MURPHYS	0.0529	50/50	0.0529
314594	6PLYMOTH	0.2090	50/50	0.2090
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.5287	Adder	5.33
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.5287	Adder	5.33
315292	1DOMTR78	2.5854	50/50	2.5854
315293	1DOMTR9	13.3718	50/50	13.3718
315294	1DOMTR10	16.3870	50/50	16.3870
315601	1CONETOE2SOL	1.0574	50/50	1.0574
315602	1HOLLOMANSOL	1.7282	50/50	1.7282
315605	6W1-029WIND	4.1562	50/50	4.1562
315606	3AA2-053SOLA	0.9038	50/50	0.9038
315611	6Z1-036WIND	3.7368	50/50	3.7368
315614	AA2-178 C	4.0834	50/50	4.0834
316140	AB2-099 C (Suspended)	0.5437	50/50	0.5437
316141	AB2-099 E (Suspended)	0.2330	50/50	0.2330
900672	V4-068 E	0.1836	50/50	0.1836
901082	W1-029 E	176.2977	50/50	176.2977
916042	Z1-036 E (Suspended)	158.6927	50/50	158.6927
917332	Z2-043 E	0.9770	50/50	0.9770
917342	Z2-044 E	0.2879	Adder	0.34
917512	Z2-088 E OP1	6.2724	50/50	6.2724
918512	AA1-065 E OP	4.9046	50/50	4.9046
918532	AA1-067 E	0.7271	50/50	0.7271
919692	AA2-053 E OP	2.3521	50/50	2.3521
919702	AA2-057 E OP	1.7623	Adder	2.07
920592	AA2-165 E	0.2422	Adder	0.28
920692	AA2-178 E	11.0923	50/50	11.0923
923262	AB1-132 C OP (Suspended)	7.0922	Adder	8.34
923263	AB1-132 E OP (Suspended)	3.0395	Adder	3.58
925121	AB2-169 C	1.6680	50/50	1.6680
925122	AB2-169 E	9.4882	50/50	9.4882
926070	AC1-086 C	10.4441	Adder	12.29
926071	AC1-086 E	4.7534	Adder	5.59
926201	AC1-098 C	4.4466	50/50	4.4466
926202	AC1-098 E	2.6490	50/50	2.6490
926211	AC1-099 C	1.4901	50/50	1.4901
926212	AC1-099 E	0.8751	50/50	0.8751

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
927024	AC1-189 C	7.3633	50/50	7.3633
927025	AC1-189 E	3.6679	50/50	3.6679
927145	AC1-208 C	5.6840	50/50	5.6840
927146	AC1-208 E	2.5137	50/50	2.5137
932631	AC2-084 C	6.3387	50/50	6.3387
932632	AC2-084 E	3.1221	50/50	3.1221
933991	AD1-023 C	25.7389	50/50	25.7389
933992	AD1-023 E	14.0123	50/50	14.0123
934331	AD1-057 C O1	4.9260	Adder	5.8
934332	AD1-057 E O1	2.6277	Adder	3.09
934521	AD1-076 C	120.6377	50/50	120.6377
934522	AD1-076 E	61.4286	50/50	61.4286
936401	AD2-051 C O1	10.5565	50/50	10.5565
936402	AD2-051 E O1	4.5329	50/50	4.5329
938221	AE1-035 C	0.4321	50/50	0.4321
938222	AE1-035 E	1.3488	50/50	1.3488
940491	AE2-034 C	19.4116	50/50	19.4116
940492	AE2-034 E	8.3192	50/50	8.3192
941501	AE2-147 C	60.7923	50/50	60.7923
941502	AE2-147 E	40.5282	50/50	40.5282
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1767	50/50	0.1767
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.6031	50/50	0.6031
943171	AE2-346 C	1.3049	50/50	1.3049
943172	AE2-346 E	0.5592	50/50	0.5592
944871	AF1-152 C	20.2641	50/50	20.2641
944872	AF1-152 E	13.5094	50/50	13.5094
945711	AF1-236 C O1	212.5104	50/50	212.5104
945712	AF1-236 E O1	131.2591	50/50	131.2591
957521	AF2-046 C	11.3193	50/50	11.3193
957522	AF2-046 E	5.6937	50/50	5.6937
957531	AF2-047 C	46.1256	50/50	46.1256
957532	AF2-047 E	23.2014	50/50	23.2014
957821	AF2-076 C	6.1296	50/50	6.1296
957822	AF2-076 E	4.0864	50/50	4.0864
957861	AF2-080 C	6.6877	50/50	6.6877
957862	AF2-080 E	2.9646	50/50	2.9646
959511	AF2-242 C	10.4940	50/50	10.4940
959512	AF2-242 E	8.1620	50/50	8.1620
961671	AG1-007 C	0.9050	50/50	0.9050
961672	AG1-007 E	0.5054	50/50	0.5054
961681	AG1-008 C	11.3420	50/50	11.3420
961682	AG1-008 E	5.6710	50/50	5.6710
961931	AG1-036 C	1.0992	50/50	1.0992
961932	AG1-036 E	0.7328	50/50	0.7328
961941	AG1-037 C	0.4660	50/50	0.4660
961942	AG1-037 E	0.3107	50/50	0.3107
962331	AG1-082 C	1.8641	50/50	1.8641
962332	AG1-082 E	1.2427	50/50	1.2427
962341	AG1-083 C	1.8641	50/50	1.8641
962342	AG1-083 E	1.2427	50/50	1.2427
962351	AG1-084 C	1.8094	50/50	1.8094

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962352	AG1-084 E	1.2062	50/50	1.2062
962361	AG1-085 C	1.8094	50/50	1.8094
962362	AG1-085 E	1.2062	50/50	1.2062
962571	AG1-106 C	1.5393	Adder	3.42
962572	AG1-106 E	0.6981	Adder	1.55
964491	AG1-312 C O1	24.8046	50/50	24.8046
964492	AG1-312 E O1	6.2012	50/50	6.2012
964501	AG1-313 C O2	3.4092	50/50	3.4092
964502	AG1-313 E O2	2.2728	50/50	2.2728
965183	AG1-383 BAT	0.4136	Merchant Transmission	0.4136
965631	AG1-431	123.0323	50/50	123.0323
965691	AG1-437 C O1	17.7372	50/50	17.7372
965692	AG1-437 E O1	11.8248	50/50	11.8248
965701	AG1-438 C O1	17.7372	50/50	17.7372
965702	AG1-438 E O1	11.8248	50/50	11.8248
965711	AG1-439 C O1	18.9690	50/50	18.9690
965712	AG1-439 E O1	12.6460	50/50	12.6460
965741	AG1-442 O1	10.3467	50/50	10.3467
965751	AG1-443 O1	10.3467	50/50	10.3467
965761	AG1-444 O1	10.1168	50/50	10.1168
966491	AG1-518 O2	33.7735	50/50	33.7735
966801	AG1-551 C	2.7917	50/50	2.7917
966802	AG1-551 E	1.1965	50/50	1.1965
966931	AG1-431A	92.4360	50/50	92.4360
WEC	WEC	0.1934	Confirmed LTF	0.1934
LGEE	LGEE	0.3946	Confirmed LTF	0.3946
CPL	CPL	2.2447	Confirmed LTF	2.2447
CBM-W2	CBM-W2	8.3149	Confirmed LTF	8.3149
NY	NY	0.1924	Confirmed LTF	0.1924
TVA	TVA	1.5540	Confirmed LTF	1.5540
O-066	O-066	2.7862	Confirmed LTF	2.7862
SIGE	SIGE	0.1138	Confirmed LTF	0.1138
CBM-S2	CBM-S2	24.1895	Confirmed LTF	24.1895
CBM-S1	CBM-S1	0.3887	Confirmed LTF	0.3887
G-007	G-007	0.4379	Confirmed LTF	0.4379
MEC	MEC	1.1488	Confirmed LTF	1.1488
LAGN	LAGN	1.9390	Confirmed LTF	1.9390
AA2-074	AA2-074	1.4823	LTF	1.4823
CBM-W1	CBM-W1	8.1596	Confirmed LTF	8.1596

13.5.41 Index 41

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169248627	314662	6S HERTFORD	DVP	314651	6WINFALL	DVP	1	DVP_P1-2: LN 2034-E	single	733.2	172.37	173.83	DC	10.72

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	3.8256	80/20	3.8256
315293	1DOMTR9	19.7864	80/20	19.7864
315294	1DOMTR10	24.2480	80/20	24.2480
315601	1CONETOE2SOL	0.5974	80/20	0.5974
315611	6Z1-036WIND	5.2838	80/20	5.2838
315614	AA2-178 C	6.7881	80/20	6.7881
925121	AB2-169 C	2.1975	80/20	2.1975
927024	AC1-189 C	4.3190	80/20	4.3190
934521	AD1-076 C	229.2075	80/20	229.2075
940491	AE2-034 C	32.2690	80/20	32.2690
945711	AF1-236 C O1	353.2690	80/20	353.2690
957531	AF2-047 C	76.6773	80/20	76.6773
957861	AF2-080 C	3.9227	80/20	3.9227
959511	AF2-242 C	12.0236	80/20	12.0236
961671	AG1-007 C	0.4933	80/20	0.4933
965631	AG1-431	204.5241	80/20	204.5241
965711	AG1-439 C O1	10.7160	80/20	10.7160
965761	AG1-444 O1	5.7152	80/20	5.7152
966801	AG1-551 C	2.6173	80/20	2.6173
966931	AG1-431A	153.6620	80/20	153.6620
WEC	WEC	0.0913	Confirmed LTF	0.0913
LGEE	LGEE	0.1860	Confirmed LTF	0.1860
CPL	CPL	1.1568	Confirmed LTF	1.1568
CBM-W2	CBM-W2	4.0499	Confirmed LTF	4.0499
NY	NY	0.1089	Confirmed LTF	0.1089
TVA	TVA	0.7644	Confirmed LTF	0.7644
SIGE	SIGE	0.0575	Confirmed LTF	0.0575
CBM-S2	CBM-S2	12.2670	Confirmed LTF	12.2670
CBM-S1	CBM-S1	0.1904	Confirmed LTF	0.1904
MEC	MEC	0.5498	Confirmed LTF	0.5498
LAGN	LAGN	0.9538	Confirmed LTF	0.9538
CBM-W1	CBM-W1	3.8275	Confirmed LTF	3.8275

13.5.42 Index 42

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163838181	314914	8MDLTHAN	DVP	314918	8NO ANNA	DVP	1	DVP_P1-2: LN 567	single	2442.12	147.76	148.19	DC	30.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	7.4758	Adder	8.8
313526	AB2-022 C	0.5126	80/20	0.5126
314295	6BIRDNECK	0.0602	80/20	0.0602
314491	3PENDLTN	0.4491	80/20	0.4491
314507	3THOMPSN	0.4506	80/20	0.4506
314572	3EMPORIA	0.4655	Adder	0.55
314638	6ELIZ CT	0.2997	80/20	0.2997
314639	6TANGLEW	0.5493	80/20	0.5493
314643	3O INLET	0.5971	80/20	0.5971
315098	1CHESPKA	0.5957	80/20	0.5957
315099	1CHESPKB (Deactivation : 31/05/2019)	4.1300	80/20	4.1300
315102	1BRUNSWICKG1	12.1755	80/20	12.1755
315103	1BRUNSWICKG2	12.1755	80/20	12.1755
315104	1BRUNSWICKG3	12.1755	80/20	12.1755
315105	1BRUNSWICKS1	25.2944	80/20	25.2944
315108	1ELIZAR1	4.3878	80/20	4.3878
315109	1ELIZAR2	4.3116	80/20	4.3116
315110	1ELIZAR3	4.4440	80/20	4.4440
315131	1EDGE CMA (Deactivation : 22/04/2019)	9.8245	Adder	11.56
315132	1EDGE CMB (Deactivation : 22/04/2019)	9.8245	Adder	11.56
315153	1CLOVER1	16.6100	80/20	16.6100
315233	1SURRY 2	34.1572	80/20	34.1572
315241	1Z1-086 GT1	15.6696	80/20	15.6696
315242	1Z1-086 GT2	15.6696	80/20	15.6696
315243	1Z1-086 GT3	15.6696	80/20	15.6696
315244	1Z1-086 ST	27.2396	80/20	27.2396
315260	1GOSPORTA	0.4756	80/20	0.4756
315261	1GOSPORTB	0.6075	80/20	0.6075
315262	1GOSPORTC	0.5156	80/20	0.5156
315293	1DOMTR9	7.8353	Adder	9.22
315294	1DOMTR10	9.6020	Adder	11.3
315603	6AA1-139SOLA	3.1436	80/20	3.1436
315605	6W1-029WIND	1.5187	80/20	1.5187
315611	6Z1-036WIND	1.4943	80/20	1.4943
316083	AB2-161 C	3.5385	Adder	4.16
316103	AB2-015 C	9.9157	Adder	11.67
316108	AB2-160 C	5.0442	Adder	5.93
316129	AC1-054 C	7.7106	Adder	9.07
316132	AB2-190 C	18.9248	Adder	22.26

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316140	AB2-099 C (Suspended)	0.6648	Adder	0.78
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.3756	80/20	0.3756
923991	AB2-040 C O1	8.1420	Adder	9.58
925591	AC1-034 C	7.2421	Adder	8.52
926070	AC1-086 C	22.9458	Adder	27.0
926201	AC1-098 C	6.7691	Adder	7.96
926211	AC1-099 C	2.2684	Adder	2.67
926661	AC1-147 C	0.5038	80/20	0.5038
926754	AC1-161 C	44.8993	80/20	44.8993
927024	AC1-189 C	9.3381	Adder	10.99
927145	AC1-208 C	9.8701	Adder	11.61
932044	AC2-012 C	14.4449	80/20	14.4449
932581	AC2-078 C O1	4.2307	Adder	4.98
932591	AC2-079 C O1	6.3352	Adder	7.45
932631	AC2-084 C	9.6496	Adder	11.35
933294	AC2-141 C	44.8993	80/20	44.8993
933501	AC2-165 C	9.9473	Adder	11.7
933731	AC2-196 C	0.4027	80/20	0.4027
933991	AD1-023 C	15.1481	Adder	17.82
934014	AD1-025 C	16.2854	Adder	19.16
934061	AD1-033 C	10.7150	80/20	10.7150
934331	AD1-057 C O1	10.8123	Adder	12.72
934521	AD1-076 C	62.9286	Adder	74.03
934575	AD1-082 C	8.0640	Adder	9.49
934615	AD1-087 C	8.8453	Adder	10.41
934625	AD1-088 C	12.9864	Adder	15.28
935111	AD1-144 C	0.3718	80/20	0.3718
935164	AD1-151 C	15.2074	Adder	17.89
935171	AD1-152 C O1	9.7157	Adder	11.43
936041	AD2-007 C	0.7780	Adder	0.92
936051	AD2-008 C	2.8353	Adder	3.34
936361	AD2-046 C O1	9.0579	Adder	10.66
936401	AD2-051 C O1	10.0188	Adder	11.79
936661	AD2-085 C	3.8954	Adder	4.58
937221	AD2-160 C O1	8.3237	80/20	8.3237
937481	AD2-202 C O1	2.5909	Adder	3.05
938494	AE1-068_C1	46.9524	80/20	46.9524
938497	AE1-068_C2	46.9524	80/20	46.9524
938504	AE1-069_C1	35.7830	80/20	35.7830
938507	AE1-069_C2	38.5826	80/20	38.5826
938535	AE1-072 C	25.0034	80/20	25.0034
938634	AE1-085 C	9.2484	Adder	10.88
938771	AE1-103 C	4.2194	Adder	4.96
939181	AE1-148 C	8.9230	Adder	10.5
939195	AE1-149 C	10.9227	Adder	12.85
939414	AE1-173_C1	48.7082	80/20	48.7082
939415	AE1-173_C2	41.7499	80/20	41.7499
939416	AE1-173_C3	48.7082	80/20	48.7082
940061	AE2-000BC O1	11.2430	Adder	13.23
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	245.8865	80/20	245.8865
940471	AE2-031 C	51.2447	80/20	51.2447

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940481	AE2-033 C	17.7240	Adder	20.85
940491	AE2-034 C	8.4006	Adder	9.88
940541	AE2-040	3.1437	Adder	3.7
940571	AE2-044 C	4.7433	Adder	5.58
940641	AE2-051 C O1	27.1143	80/20	27.1143
940651	AE2-052	3.6409	Adder	4.28
940661	AE2-053 O1	3.3048	Adder	3.89
940891	AE2-078 C	2.4793	Adder	2.92
940901	AE2-079 C	2.4793	Adder	2.92
941031	AE2-094 C	61.5529	80/20	61.5529
941101	AE2-104 C O1	4.6206	80/20	4.6206
941281	AE2-122 C O1	40.4210	80/20	40.4210
941291	AE2-123 C O1	41.5403	80/20	41.5403
941301	AE2-124 C O1	37.7888	80/20	37.7888
941501	AE2-147 C	22.2147	80/20	22.2147
941591	AE2-156 O1	25.3720	80/20	25.3720
941791	AE2-182 C	2.1098	Adder	2.48
942001	AE2-212 C	2.0043	Adder	2.36
942131	AE2-225 C	3.0008	80/20	3.0008
942171	AE2-229 C	2.2506	80/20	2.2506
942341	AE2-247 C	1.6876	Adder	1.99
942371	AE2-250 C O1	8.9601	Adder	10.54
942401	AE2-253 C	8.7551	80/20	8.7551
942471	AE2-260 C O1	15.9499	Adder	18.76
942551	AE2-270	25.6683	Adder	30.2
942931	AE2-313 C	55.4009	80/20	55.4009
943171	AE2-346 C	1.5955	Adder	1.88
943461	AF1-017 C	1.5269	Adder	1.8
943611	AF1-032 C	2.4507	80/20	2.4507
943621	AF1-033 C	2.4793	Adder	2.92
943911	AF1-059	17.2789	Adder	20.33
944011	AF1-069 C	20.1116	80/20	20.1116
944141	AF1-082	3.0493	Adder	3.59
944581	AF1-123 C O1	69.3012	80/20	69.3012
944591	AF1-124 C O1	69.3012	80/20	69.3012
944601	AF1-125 C O1	69.3012	80/20	69.3012
944871	AF1-152 C	7.4049	80/20	7.4049
945361	AF1-201 C O1	9.1101	Adder	10.72
945711	AF1-236 C O1	91.9662	Adder	108.2
945811	AF1-246 C O1	10.6932	80/20	10.6932
946011	AF1-266	14.8364	Adder	17.45
946281	AF1-292 C	1.6612	Adder	1.95
957481	AF2-042 C	76.3800	80/20	76.3800
957491	AF2-043 C	3.0008	80/20	3.0008
957521	AF2-046 C	19.0723	Adder	22.44
957531	AF2-047 C	19.9613	Adder	23.48
957631	AF2-057	5.0684	80/20	5.0684
957711	AF2-065 C	13.0908	Adder	15.4
957821	AF2-076 C	7.4343	80/20	7.4343
957861	AF2-080 C	8.4812	Adder	9.98
957871	AF2-081 C	14.1781	80/20	14.1781
957911	AF2-085	5.6138	80/20	5.6138

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958141	AF2-108	1.7807	Adder	2.09
958161	AF2-110 C	1.9049	80/20	1.9049
958501	AF2-144 C	1.9156	Adder	2.25
959511	AF2-242 C	8.2742	Adder	9.73
959531	AF2-244 C (Withdrawn : 01/06/2021)	1.7654	Adder	2.08
959671	AF2-258 C	0.5011	Adder	0.59
959681	AF2-259 C	2.6710	Adder	3.14
959751	AF2-266	10.1346	Adder	11.92
960081	AF2-299 C	2.7998	Adder	3.29
961091	AF2-400 C	0.5354	Adder	0.63
961671	AG1-007 C	0.7038	Adder	1.56
961681	AG1-008 C	10.1286	Adder	22.48
961711	AG1-011	14.6604	Adder	32.54
961851	AG1-027 C	23.2951	80/20	23.2951
961931	AG1-036 C	0.8178	Adder	1.82
961941	AG1-037 C	0.3020	Adder	0.67
962271	AG1-075 C O2	9.8370	Adder	21.84
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.1946	Adder	2.65
962331	AG1-082 C	1.2080	Adder	2.68
962341	AG1-083 C	1.2080	Adder	2.68
962351	AG1-084 C	1.0544	Adder	2.34
962361	AG1-085 C	1.0544	Adder	2.34
962441	AG1-093 C O2	9.1666	Adder	20.35
962571	AG1-106 C	3.3820	Adder	7.51
963041	AG1-153 C	8.5431	80/20	8.5431
963111	AG1-160 C	8.6616	80/20	8.6616
963221	AG1-171 C	1.0747	Adder	2.39
963231	AG1-172 C	1.0747	Adder	2.39
963241	AG1-173 C	1.0747	Adder	2.39
963251	AG1-174 C	1.0747	Adder	2.39
963261	AG1-175 C	1.0747	Adder	2.39
963291	AG1-178 C O2	98.0571	80/20	98.0571
963301	AG1-179 C	3.1774	Adder	7.05
963311	AG1-180	1.5481	Adder	3.44
963351	AG1-184 O2	52.8279	80/20	52.8279
963821	AG1-235 C O2	34.4425	80/20	34.4425
964241	AG1-285 C O2	19.3590	80/20	19.3590
964491	AG1-312 C O1	11.3884	Adder	25.28
964501	AG1-313 C O2	2.7157	Adder	6.03
964801	AG1-343 C	3.5633	Adder	7.91
964841	AG1-347 C	5.3049	Adder	11.78
964951	AG1-359 O1	38.2875	80/20	38.2875
965001	AG1-364 C O2	10.1104	80/20	10.1104
965181	AG1-383 C	3.9303	80/20	3.9303
965291	AG1-394 C	1.2226	Adder	2.71
965451	AG1-413 C O2	3.8306	Adder	8.5
965601	AG1-428 C O2	2.6526	Adder	5.89
965631	AG1-431	28.2191	Adder	62.64
965691	AG1-437 C O1	6.1674	Adder	13.69
965701	AG1-438 C O1	6.1674	Adder	13.69
965711	AG1-439 C O1	13.7941	Adder	30.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965721	AG1-440 C	4.0154	Adder	8.91
965731	AG1-441 C	4.0154	Adder	8.91
965741	AG1-442 O1	3.5977	Adder	7.99
965751	AG1-443 O1	3.5977	Adder	7.99
965761	AG1-444 O1	7.3568	Adder	16.33
965771	AG1-445	2.3200	Adder	5.15
965781	AG1-446	2.3200	Adder	5.15
965811	AG1-449	35.9302	80/20	35.9302
966361	AG1-505 C	25.1577	80/20	25.1577
966371	AG1-506 C	25.1577	80/20	25.1577
966491	AG1-518 O2	12.4915	80/20	12.4915
966611	AG1-531 C	3.5573	Adder	7.9
966621	AG1-532 C	0.8013	Adder	1.78
966731	AG1-544 C	3.8282	Adder	8.5
966741	AG1-545 C	1.2783	Adder	2.84
966751	AG1-546 C	9.0181	Adder	20.02
966801	AG1-551 C	1.3427	Adder	2.98
966811	AG1-552 C	1.2221	Adder	2.71
966931	AG1-431A	21.2014	Adder	47.06
WEC	WEC	1.0335	Confirmed LTF	1.0335
LGEE	LGEE	2.1620	Confirmed LTF	2.1620
CPL	CPL	11.0019	Confirmed LTF	11.0019
CBM-W2	CBM-W2	46.6547	Confirmed LTF	46.6547
NY	NY	2.3525	Confirmed LTF	2.3525
TVA	TVA	8.8984	Confirmed LTF	8.8984
SIGE	SIGE	0.8933	Confirmed LTF	0.8933
CBM-S2	CBM-S2	132.4418	Confirmed LTF	132.4418
CBM-S1	CBM-S1	2.2139	Confirmed LTF	2.2139
MEC	MEC	6.2750	Confirmed LTF	6.2750
LAGN	LAGN	11.0092	Confirmed LTF	11.0092
AA2-074	AA2-074	7.2666	LTF	7.2666
CBM-W1	CBM-W1	42.6769	Confirmed LTF	42.6769

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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
163838244	314924	8SURRY	DVP	314903	8CHCKAHM	DVP	1	DVP_P1-2: LN 563	single	2442.12	123.99	124.42	DC	27.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	6.1053	Adder	7.18
313526	AB2-022 C	0.5720	80/20	0.5720
314295	6BIRDNECK	0.0687	80/20	0.0687
314421	6WINCHST	0.1697	80/20	0.1697
314491	3PENDLTN	0.5120	80/20	0.5120
314507	3THOMPSN	0.5117	80/20	0.5117
314572	3EMPORIA	0.3703	Adder	0.44
314638	6ELIZ CT	0.3344	80/20	0.3344
314639	6TANGLEW	0.6092	80/20	0.6092
314643	3O INLET	0.6745	80/20	0.6745
315092	1YORKTN3	30.0855	80/20	30.0855
315098	1CHESPKA	0.6771	80/20	0.6771
315099	1CHESPKB (Deactivation : 31/05/2019)	4.6942	80/20	4.6942
315102	1BRUNSWICKG1	9.9710	80/20	9.9710
315103	1BRUNSWICKG2	9.9710	80/20	9.9710
315104	1BRUNSWICKG3	9.9710	80/20	9.9710
315105	1BRUNSWICKS1	20.7147	80/20	20.7147
315108	1ELIZAR1	5.0064	80/20	5.0064
315109	1ELIZAR2	4.9195	80/20	4.9195
315110	1ELIZAR3	5.0705	80/20	5.0705
315115	1S HAMPT1	1.9040	80/20	1.9040
315131	1EDGECEMA (Deactivation : 22/04/2019)	8.3854	Adder	9.87
315132	1EDGECEMB (Deactivation : 22/04/2019)	8.3854	Adder	9.87
315233	1SURRY 2	49.9936	80/20	49.9936
315241	1Z1-086 GT1	12.8523	80/20	12.8523
315242	1Z1-086 GT2	12.8523	80/20	12.8523
315243	1Z1-086 GT3	12.8523	80/20	12.8523
315244	1Z1-086 ST	22.3421	80/20	22.3421
315260	1GOSPORTA	0.5404	80/20	0.5404
315261	1GOSPORTB	0.6902	80/20	0.6902
315262	1GOSPORTC	0.5858	80/20	0.5858
315293	1DOMTR9	7.7818	Adder	9.16
315294	1DOMTR10	9.5366	Adder	11.22
315603	6AA1-139SOLA	3.5655	80/20	3.5655
315605	6W1-029WIND	1.6663	80/20	1.6663
315611	6Z1-036WIND	1.6105	80/20	1.6105
315614	AA2-178 C	2.1579	80/20	2.1579
316103	AB2-015 C	11.5320	80/20	11.5320

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-60.2921	Adder	-70.93
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-60.2921	Adder	-70.93
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-104.4496	Adder	-122.88
316140	AB2-099 C (Suspended)	0.6295	Adder	0.74
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.4081	80/20	0.4081
316258	AE1-162 C	0.4550	80/20	0.4550
923991	AB2-040 C O1	6.6493	Adder	7.82
925591	AC1-034 C	6.1796	Adder	7.27
926070	AC1-086 C	19.3835	Adder	22.8
926201	AC1-098 C	6.0114	Adder	7.07
926211	AC1-099 C	2.0144	Adder	2.37
926661	AC1-147 C	0.5726	80/20	0.5726
926754	AC1-161 C	57.0703	80/20	57.0703
927024	AC1-189 C	8.3745	Adder	9.85
927145	AC1-208 C	8.5840	Adder	10.1
932044	AC2-012 C	16.4183	80/20	16.4183
932591	AC2-079 C O1	5.6568	Adder	6.66
932631	AC2-084 C	8.5694	Adder	10.08
933294	AC2-141 C	57.0703	80/20	57.0703
933731	AC2-196 C	0.4613	80/20	0.4613
933991	AD1-023 C	17.8477	80/20	17.8477
934061	AD1-033 C	12.2665	80/20	12.2665
934331	AD1-057 C O1	9.1788	Adder	10.8
934521	AD1-076 C	74.9989	80/20	74.9989
934615	AD1-087 C	6.7886	Adder	7.99
935111	AD1-144 C	0.4039	80/20	0.4039
935171	AD1-152 C O1	7.4566	Adder	8.77
936401	AD2-051 C O1	9.6661	Adder	11.37
936661	AD2-085 C	4.4122	80/20	4.4122
937221	AD2-160 C O1	9.4684	80/20	9.4684
937481	AD2-202 C O1	1.9884	Adder	2.34
938494	AE1-068_C1	38.5514	80/20	38.5514
938497	AE1-068_C2	38.5514	80/20	38.5514
938504	AE1-069_C1	29.3805	80/20	29.3805
938507	AE1-069_C2	31.6792	80/20	31.6792
938535	AE1-072 C	28.2734	80/20	28.2734
938771	AE1-103 C	4.9988	80/20	4.9988
939414	AE1-173_C1	46.4822	80/20	46.4822
939415	AE1-173_C2	39.8419	80/20	39.8419
939416	AE1-173_C3	46.4822	80/20	46.4822
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	280.4105	80/20	280.4105
940471	AE2-031 C	42.0210	80/20	42.0210
940481	AE2-033 C	12.9142	Adder	15.19
940491	AE2-034 C	10.2581	80/20	10.2581
940541	AE2-040	2.2677	Adder	2.67
940571	AE2-044 C	4.0474	Adder	4.76
940641	AE2-051 C O1	24.3693	80/20	24.3693
940891	AE2-078 C	2.4081	Adder	2.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940901	AE2-079 C	2.4081	Adder	2.83
941031	AE2-094 C	50.6376	80/20	50.6376
941101	AE2-104 C O1	4.8623	80/20	4.8623
941281	AE2-122 C O1	46.1175	80/20	46.1175
941291	AE2-123 C O1	47.3946	80/20	47.3946
941301	AE2-124 C O1	43.1303	80/20	43.1303
941501	AE2-147 C	24.3729	80/20	24.3729
941591	AE2-156 O1	28.8830	80/20	28.8830
942131	AE2-225 C	3.3224	80/20	3.3224
942171	AE2-229 C	2.4918	80/20	2.4918
942341	AE2-247 C	1.9089	80/20	1.9089
942401	AE2-253 C	9.9591	80/20	9.9591
942471	AE2-260 C O1	12.3157	Adder	14.49
942931	AE2-313 C	45.4176	80/20	45.4176
943171	AE2-346 C	1.5107	Adder	1.78
943461	AF1-017 C	1.7271	80/20	1.7271
943611	AF1-032 C	2.7133	80/20	2.7133
943621	AF1-033 C	2.4081	Adder	2.83
944011	AF1-069 C	16.5452	80/20	16.5452
944141	AF1-082	2.6019	Adder	3.06
944581	AF1-123 C O1	80.8385	80/20	80.8385
944591	AF1-124 C O1	80.8385	80/20	80.8385
944601	AF1-125 C O1	80.8385	80/20	80.8385
944871	AF1-152 C	8.1243	80/20	8.1243
945361	AF1-201 C O1	14.6689	Adder	17.26
945711	AF1-236 C O1	112.3016	80/20	112.3016
945811	AF1-246 C O1	7.1414	Adder	8.4
946011	AF1-266	10.8102	Adder	12.72
946281	AF1-292 C	1.3075	Adder	1.54
957481	AF2-042 C	51.0102	Adder	60.01
957491	AF2-043 C	3.3224	80/20	3.3224
957521	AF2-046 C	18.0247	Adder	21.21
957531	AF2-047 C	24.3752	80/20	24.3752
957631	AF2-057	5.7608	80/20	5.7608
957821	AF2-076 C	8.1462	80/20	8.1462
957861	AF2-080 C	7.6060	Adder	8.95
957871	AF2-081 C	16.0810	80/20	16.0810
958161	AF2-110 C	2.0045	80/20	2.0045
959511	AF2-242 C	7.8761	Adder	9.27
959751	AF2-266	7.7779	Adder	9.15
960081	AF2-299 C	2.2037	Adder	2.59
961091	AF2-400 C	0.6227	80/20	0.6227
961671	AG1-007 C	0.6179	Adder	1.37
961681	AG1-008 C	9.5722	Adder	21.25
961851	AG1-027 C	24.1075	80/20	24.1075
961931	AG1-036 C	0.7736	Adder	1.72
961941	AG1-037 C	0.2860	Adder	0.63
962271	AG1-075 C O2	7.1675	Adder	15.91
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.1603	Adder	2.58
962331	AG1-082 C	1.1438	Adder	2.54
962341	AG1-083 C	1.1438	Adder	2.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962351	AG1-084 C	0.9991	Adder	2.22
962361	AG1-085 C	0.9991	Adder	2.22
962441	AG1-093 C O2	7.0313	Adder	15.61
962571	AG1-106 C	2.8569	Adder	6.34
963041	AG1-153 C	6.9963	80/20	6.9963
963111	AG1-160 C	7.1043	80/20	7.1043
963291	AG1-178 C O2	85.5957	80/20	85.5957
963351	AG1-184 O2	46.1143	80/20	46.1143
963821	AG1-235 C O2	39.4335	80/20	39.4335
964241	AG1-285 C O2	6.8842	Adder	15.28
964491	AG1-312 C O1	11.0766	Adder	24.59
964501	AG1-313 C O2	2.4268	Adder	5.39
964801	AG1-343 C	3.3623	Adder	7.46
964951	AG1-359 O1	43.8600	80/20	43.8600
965001	AG1-364 C O2	11.4576	80/20	11.4576
965181	AG1-383 C	4.4911	80/20	4.4911
965291	AG1-394 C	1.1534	Adder	2.56
965631	AG1-431	65.0167	80/20	65.0167
965691	AG1-437 C O1	13.5840	80/20	13.5840
965701	AG1-438 C O1	13.5840	80/20	13.5840
965711	AG1-439 C O1	12.2257	Adder	27.14
965741	AG1-442 O1	7.9240	80/20	7.9240
965751	AG1-443 O1	7.9240	80/20	7.9240
965761	AG1-444 O1	6.5204	Adder	14.47
965811	AG1-449	29.4630	80/20	29.4630
966361	AG1-505 C	20.3715	80/20	20.3715
966371	AG1-506 C	20.3715	80/20	20.3715
966491	AG1-518 O2	13.8210	80/20	13.8210
966611	AG1-531 C	8.1137	80/20	8.1137
966621	AG1-532 C	0.6307	Adder	1.4
966751	AG1-546 C	1.3768	Adder	3.06
966801	AG1-551 C	1.2570	Adder	2.79
966811	AG1-552 C	1.0450	Adder	2.32
966931	AG1-431A	48.8480	80/20	48.8480
WEC	WEC	0.6114	Confirmed LTF	0.6114
LGEE	LGEE	1.2692	Confirmed LTF	1.2692
CPL	CPL	8.7551	Confirmed LTF	8.7551
CBM-W2	CBM-W2	31.1718	Confirmed LTF	31.1718
NY	NY	1.6081	Confirmed LTF	1.6081
TVA	TVA	6.1376	Confirmed LTF	6.1376
SIGE	SIGE	0.5734	Confirmed LTF	0.5734
CBM-S2	CBM-S2	101.9362	Confirmed LTF	101.9362
CBM-S1	CBM-S1	1.5025	Confirmed LTF	1.5025
MEC	MEC	3.9296	Confirmed LTF	3.9296
LAGN	LAGN	7.6317	Confirmed LTF	7.6317
AA2-074	AA2-074	5.7789	LTF	5.7789
CBM-W1	CBM-W1	24.8995	Confirmed LTF	24.8995

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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
174304600	938530	AE1-072_TAP	DVP	314645	6SLIGO L269	DVP	1	DVP_P4-2: 246T247	breaker	699.0	124.09	125.08	DC	15.39

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.7762	50/50	0.7762
313717	6SLIGO L2192	4.2819	50/50	4.2819
314594	6PLYMOTH	0.1021	50/50	0.1021
314632	6AYDLETOLD	5.1019	50/50	5.1019
314638	6ELIZ CT	0.4538	50/50	0.4538
314639	6TANGLEW	0.7989	50/50	0.7989
314643	3O INLET	0.9739	50/50	0.9739
315292	1DOMTR78	1.2624	50/50	1.2624
315293	1DOMTR9	6.5292	50/50	6.5292
315294	1DOMTR10	8.0015	50/50	8.0015
315603	6AA1-139SOLA	3.4828	50/50	3.4828
315605	6W1-029WIND	2.0312	50/50	2.0312
315611	6Z1-036WIND	1.8261	50/50	1.8261
315614	AA2-178 C	1.9949	50/50	1.9949
316140	AB2-099 C (Suspended)	0.2252	Adder	0.26
316141	AB2-099 E (Suspended)	0.0965	Adder	0.11
901082	W1-029 E	86.1587	50/50	86.1587
913392	Y1-086 E	4.6928	50/50	4.6928
916042	Z1-036 E (Suspended)	77.5486	50/50	77.5486
917122	Z2-027 E	2.1701	50/50	2.1701
917332	Z2-043 E	0.4047	Adder	0.48
917512	Z2-088 E OP1	2.5962	Adder	3.05
918512	AA1-065 E OP	2.0335	Adder	2.39
918532	AA1-067 E	0.3013	Adder	0.35
919152	AA1-139 E	10.0980	50/50	10.0980
920692	AA2-178 E	5.4190	50/50	5.4190
923832	AB2-022 E	2.6492	50/50	2.6492
925121	AB2-169 C	0.8142	50/50	0.8142
925122	AB2-169 E	4.6312	50/50	4.6312
926201	AC1-098 C	1.8399	Adder	2.16
926202	AC1-098 E	1.0961	Adder	1.29
926211	AC1-099 C	0.6166	Adder	0.73
926212	AC1-099 E	0.3621	Adder	0.43
927024	AC1-189 C	3.0488	Adder	3.59
927025	AC1-189 E	1.5187	Adder	1.79
932631	AC2-084 C	2.6229	Adder	3.09
932632	AC2-084 E	1.2919	Adder	1.52
933991	AD1-023 C	12.5680	50/50	12.5680
933992	AD1-023 E	6.8420	50/50	6.8420
934521	AD1-076 C	58.9190	50/50	58.9190
934522	AD1-076 E	30.0015	50/50	30.0015

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936401	AD2-051 C O1	4.3769	Adder	5.15
936402	AD2-051 E O1	1.8794	Adder	2.21
937221	AD2-160 C O1	6.2012	50/50	6.2012
937222	AD2-160 E O1	3.2518	50/50	3.2518
938222	AE1-035 E	0.5592	Adder	0.66
938535	AE1-072 C	45.0361	50/50	45.0361
938536	AE1-072 E	23.2004	50/50	23.2004
940491	AE2-034 C	9.4832	50/50	9.4832
940492	AE2-034 E	4.0642	50/50	4.0642
941501	AE2-147 C	29.7099	50/50	29.7099
941502	AE2-147 E	19.8066	50/50	19.8066
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2499	Adder	0.29
942401	AE2-253 C	6.5226	50/50	6.5226
942402	AE2-253 E	2.9304	50/50	2.9304
943171	AE2-346 C	0.5406	Adder	0.64
943172	AE2-346 E	0.2317	Adder	0.27
944871	AF1-152 C	9.9033	50/50	9.9033
944872	AF1-152 E	6.6022	50/50	6.6022
945711	AF1-236 C O1	103.8182	50/50	103.8182
945712	AF1-236 E O1	64.1244	50/50	64.1244
957531	AF2-047 C	22.5338	50/50	22.5338
957532	AF2-047 E	11.3347	50/50	11.3347
957821	AF2-076 C	2.5416	Adder	2.99
957822	AF2-076 E	1.6944	Adder	1.99
957861	AF2-080 C	2.7691	Adder	3.26
957862	AF2-080 E	1.2275	Adder	1.44
957871	AF2-081 C	15.7080	50/50	15.7080
957872	AF2-081 E	6.7320	50/50	6.7320
959511	AF2-242 C	5.1205	50/50	5.1205
959512	AF2-242 E	3.9826	50/50	3.9826
961671	AG1-007 C	0.1985	Adder	0.44
961672	AG1-007 E	0.1108	Adder	0.25
961931	AG1-036 C	0.2412	Adder	0.54
961932	AG1-036 E	0.1608	Adder	0.36
961941	AG1-037 C	0.1023	Adder	0.23
961942	AG1-037 E	0.0682	Adder	0.15
962331	AG1-082 C	0.4093	Adder	0.91
962332	AG1-082 E	0.2729	Adder	0.61
962341	AG1-083 C	0.4093	Adder	0.91
962342	AG1-083 E	0.2729	Adder	0.61
962351	AG1-084 C	0.3974	Adder	0.88
962352	AG1-084 E	0.2649	Adder	0.59
962361	AG1-085 C	0.3974	Adder	0.88
962362	AG1-085 E	0.2649	Adder	0.59
964491	AG1-312 C O1	12.1027	50/50	12.1027
964492	AG1-312 E O1	3.0257	50/50	3.0257
964501	AG1-313 C O2	0.7478	Adder	1.66
964502	AG1-313 E O2	0.4985	Adder	1.11
965631	AG1-431	60.1053	50/50	60.1053
965691	AG1-437 C O1	8.6592	50/50	8.6592
965692	AG1-437 E O1	5.7728	50/50	5.7728

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965701	AG1-438 C O1	8.6592	50/50	8.6592
965702	AG1-438 E O1	5.7728	50/50	5.7728
965711	AG1-439 C O1	4.1613	Adder	9.24
965712	AG1-439 E O1	2.7742	Adder	6.16
965741	AG1-442 O1	5.0512	50/50	5.0512
965751	AG1-443 O1	5.0512	50/50	5.0512
965761	AG1-444 O1	2.2193	Adder	4.93
966491	AG1-518 O2	16.5055	50/50	16.5055
966801	AG1-551 C	0.6134	Adder	1.36
966802	AG1-551 E	0.2629	Adder	0.58
966931	AG1-431A	45.1580	50/50	45.1580
WEC	WEC	0.0860	Confirmed LTF	0.0860
LGEE	LGEE	0.1759	Confirmed LTF	0.1759
CPL	CPL	1.0797	Confirmed LTF	1.0797
CBM-W2	CBM-W2	3.8259	Confirmed LTF	3.8259
NY	NY	0.1089	Confirmed LTF	0.1089
TVA	TVA	0.7224	Confirmed LTF	0.7224
O-066	O-066	1.5479	Confirmed LTF	1.5479
SIGE	SIGE	0.0558	Confirmed LTF	0.0558
CBM-S2	CBM-S2	11.5466	Confirmed LTF	11.5466
CBM-S1	CBM-S1	0.1797	Confirmed LTF	0.1797
G-007	G-007	0.2425	Confirmed LTF	0.2425
MEC	MEC	0.5180	Confirmed LTF	0.5180
LAGN	LAGN	0.9013	Confirmed LTF	0.9013
CBM-W1	CBM-W1	3.6031	Confirmed LTF	3.6031

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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
163347460	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	173.93	179.55	DC	46.53

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

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

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LGEE	LGEE	0.4128	Confirmed LTF	0.4128
CPL	CPL	2.4679	Confirmed LTF	2.4679
CBM-W2	CBM-W2	8.9152	Confirmed LTF	8.9152
NY	NY	0.3069	Confirmed LTF	0.3069
TVA	TVA	1.6884	Confirmed LTF	1.6884
O-066	O-066	4.3005	Confirmed LTF	4.3005
SIG	SIG	0.1410	Confirmed LTF	0.1410
CBM-S2	CBM-S2	26.7473	Confirmed LTF	26.7473
CBM-S1	CBM-S1	0.4203	Confirmed LTF	0.4203
G-007	G-007	0.6762	Confirmed LTF	0.6762
MEC	MEC	1.2076	Confirmed LTF	1.2076
LAGN	LAGN	2.1000	Confirmed LTF	2.1000
AA2-074	AA2-074	1.6299	LTF	1.6299
CBM-W1	CBM-W1	8.3699	Confirmed LTF	8.3699

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168830333	957820	AF2-076 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2092	single	571.52	226.96	232.36	DC	30.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	5.3764	80/20	5.3764
313527	AB2-043 C	0.1797	80/20	0.1797
313719	3CHESTNUT	1.2166	80/20	1.2166
314572	3EMPORIA	0.2919	80/20	0.2919
314582	3KELFORD	0.6058	80/20	0.6058
314589	3MURPHYS	0.0945	80/20	0.0945
314623	3WITAKRS	0.2162	80/20	0.2162
314704	3LAWRENC	0.1658	80/20	0.1658
315115	1S HAMPT1	0.4948	80/20	0.4948
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGECEMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315132	1EDGECEMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6257	80/20	2.6257
315293	1DOMTR9	13.5803	80/20	13.5803
315294	1DOMTR10	16.6425	80/20	16.6425
315601	1CONETOE2SOL	1.7196	80/20	1.7196
315602	1HOLLOMANSOL	3.2518	80/20	3.2518
315606	3AA2-053SOLA	1.6490	80/20	1.6490
315607	3AA1-063SOLA	1.1822	80/20	1.1822
315608	3AA2-088SOLA	0.6872	80/20	0.6872
315611	6Z1-036WIND	2.1843	80/20	2.1843
315614	AA2-178 C	3.1366	80/20	3.1366
316020	AB2-059 C OP	1.5978	80/20	1.5978
316087	AB2-174 C	0.8423	80/20	0.8423
316096	AB2-100 C1	0.5758	80/20	0.5758
316098	AB2-100 C2	0.5758	80/20	0.5758
316129	AC1-054 C	5.2403	80/20	5.2403

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	0.5087	80/20	0.5087
316140	AB2-099 C (Suspended)	1.0074	80/20	1.0074
920591	AA2-165 C	0.1633	80/20	0.1633
922922	AB1-081 C OP	1.3557	80/20	1.3557
923991	AB2-040 C O1	5.8555	80/20	5.8555
924301	AB2-077 C O1 (Suspended)	0.7260	80/20	0.7260
924311	AB2-078 C O1 (Suspended)	0.7260	80/20	0.7260
924321	AB2-079 C O1 (Suspended)	0.7260	80/20	0.7260
925121	AB2-169 C	1.8885	80/20	1.8885
925591	AC1-034 C	6.5600	80/20	6.5600
926070	AC1-086 C	22.3600	80/20	22.3600
926201	AC1-098 C	8.0404	80/20	8.0404
926211	AC1-099 C	2.6944	80/20	2.6944
927024	AC1-189 C	11.8698	80/20	11.8698
927145	AC1-208 C	10.1498	80/20	10.1498
932631	AC2-084 C	11.4618	80/20	11.4618
933991	AD1-023 C	28.1849	80/20	28.1849
934331	AD1-057 C O1	10.1494	80/20	10.1494
934521	AD1-076 C	113.8581	80/20	113.8581
936361	AD2-046 C O1	4.3133	80/20	4.3133
936401	AD2-051 C O1	19.8559	80/20	19.8559
936485	AD2-063 C	4.9383	80/20	4.9383
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2098	80/20	4.2098
940481	AE2-033 C	4.4571	80/20	4.4571
940491	AE2-034 C	14.9108	80/20	14.9108
940571	AE2-044 C	4.2966	80/20	4.2966
940661	AE2-053 O1	1.5592	80/20	1.5592
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.3297	80/20	0.3297
942131	AE2-225 C	-1.0743	Adder	-1.26
942171	AE2-229 C	-0.8057	Adder	-0.95
942451	AE2-258	0.8499	80/20	0.8499
942471	AE2-260 C O1	8.2667	80/20	8.2667
943171	AE2-346 C	2.4178	80/20	2.4178
943611	AF1-032 C	-0.8773	Adder	-1.03
943911	AF1-059	8.1959	80/20	8.1959
944141	AF1-082	2.7621	80/20	2.7621
945711	AF1-236 C O1	163.2382	80/20	163.2382
946281	AF1-292 C	0.9810	80/20	0.9810
957491	AF2-043 C	-1.0743	Adder	-1.26
957521	AF2-046 C	20.4271	80/20	20.4271
957531	AF2-047 C	35.4310	80/20	35.4310
957821	AF2-076 C	25.4541	80/20	25.4541
957861	AF2-080 C	10.7806	80/20	10.7806
959511	AF2-242 C	13.0307	80/20	13.0307
960081	AF2-299 C	1.6533	80/20	1.6533
961671	AG1-007 C	1.4833	80/20	1.4833
961681	AG1-008 C	20.4680	80/20	20.4680
961931	AG1-036 C	2.0158	80/20	2.0158

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961941	AG1-037 C	0.8635	80/20	0.8635
962271	AG1-075 C O2	4.6675	80/20	4.6675
962331	AG1-082 C	3.4540	80/20	3.4540
962341	AG1-083 C	3.4540	80/20	3.4540
962351	AG1-084 C	3.3758	80/20	3.3758
962361	AG1-085 C	3.3758	80/20	3.3758
962491	AG1-098 C O2	4.3132	80/20	4.3132
962571	AG1-106 C	6.2181	80/20	6.2181
963301	AG1-179 C	3.0738	80/20	3.0738
963311	AG1-180	1.4976	80/20	1.4976
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O2	6.2746	80/20	6.2746
964801	AG1-343 C	4.7135	80/20	4.7135
964931	AG1-357 C O2	6.6084	80/20	6.6084
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O2	3.3660	80/20	3.3660
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O2	2.5661	80/20	2.5661
965631	AG1-431	94.5063	80/20	94.5063
965691	AG1-437 C O1	22.1316	80/20	22.1316
965701	AG1-438 C O1	22.1316	80/20	22.1316
965711	AG1-439 C O1	30.8475	80/20	30.8475
965721	AG1-440 C	4.2890	80/20	4.2890
965731	AG1-441 C	4.2890	80/20	4.2890
965741	AG1-442 O1	12.9101	80/20	12.9101
965751	AG1-443 O1	12.9101	80/20	12.9101
965761	AG1-444 O1	16.4520	80/20	16.4520
965771	AG1-445	2.4781	80/20	2.4781
965781	AG1-446	2.4781	80/20	2.4781
966621	AG1-532 C	0.8928	80/20	0.8928
966751	AG1-546 C	11.9536	80/20	11.9536
966801	AG1-551 C	3.8374	80/20	3.8374
966811	AG1-552 C	2.0442	80/20	2.0442
966931	AG1-431A	71.0040	80/20	71.0040
WEC	WEC	0.3330	Confirmed LTF	0.3330
LGEE	LGEE	0.6786	Confirmed LTF	0.6786
CPL	CPL	3.7381	Confirmed LTF	3.7381
CBM-W2	CBM-W2	14.1299	Confirmed LTF	14.1299
NY	NY	0.3019	Confirmed LTF	0.3019
TVA	TVA	2.6320	Confirmed LTF	2.6320
SIGE	SIGE	0.1896	Confirmed LTF	0.1896
CBM-S2	CBM-S2	40.4863	Confirmed LTF	40.4863
CBM-S1	CBM-S1	0.6593	Confirmed LTF	0.6593
MEC	MEC	1.9656	Confirmed LTF	1.9656
LAGN	LAGN	3.2847	Confirmed LTF	3.2847
AA2-074	AA2-074	2.4687	LTF	2.4687
CBM-W1	CBM-W1	14.0621	Confirmed LTF	14.0621

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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
175552495	966490	AG1-518 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2020	single	984.18	101.98	103.26	DC	12.61

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	0.4266	80/20	0.4266
314582	3KELFORD	0.1925	80/20	0.1925
314589	3MURPHYS	0.0291	80/20	0.0291
314623	3WITAKRS	0.0778	80/20	0.0778
315126	1ROARAP2	0.4164	80/20	0.4164
315128	1ROARAP4	0.3974	80/20	0.3974
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.4174	80/20	3.4174
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.4174	80/20	3.4174
315136	1ROSEMG1	0.7135	80/20	0.7135
315137	1ROSEMS1	0.4424	80/20	0.4424
315138	1ROSEMG2	0.3344	80/20	0.3344
315139	1GASTONA	1.0269	80/20	1.0269
315141	1GASTONB	1.0269	80/20	1.0269
315292	1DOMTR78	2.2301	80/20	2.2301
315293	1DOMTR9	11.5346	80/20	11.5346
315294	1DOMTR10	14.1355	80/20	14.1355
315601	1CONETOE2SOL	0.7028	80/20	0.7028
315602	1HOLLOMANSOL	1.0116	80/20	1.0116
315605	6W1-029WIND	4.4399	80/20	4.4399
315606	3AA2-053SOLA	0.5280	80/20	0.5280
315611	6Z1-036WIND	3.7399	80/20	3.7399
315614	AA2-178 C	3.8465	80/20	3.8465
316020	AB2-059 C OP	0.5947	80/20	0.5947
316140	AB2-099 C (Suspended)	0.3143	80/20	0.3143
920591	AA2-165 C	0.0573	80/20	0.0573
922922	AB1-081 C OP	0.5046	80/20	0.5046
925121	AB2-169 C	1.3763	80/20	1.3763
925591	AC1-034 C	2.4415	80/20	2.4415
926070	AC1-086 C	7.3193	80/20	7.3193
926201	AC1-098 C	2.6606	80/20	2.6606
926211	AC1-099 C	0.8916	80/20	0.8916
927024	AC1-189 C	4.9315	80/20	4.9315
927145	AC1-208 C	3.4265	80/20	3.4265
932631	AC2-084 C	3.7927	80/20	3.7927
933991	AD1-023 C	21.5509	80/20	21.5509
934331	AD1-057 C O1	3.5916	80/20	3.5916
934521	AD1-076 C	106.8508	80/20	106.8508
936401	AD2-051 C O1	6.1811	80/20	6.1811
938221	AE1-035 C	0.2529	80/20	0.2529
940491	AE2-034 C	18.2855	80/20	18.2855

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940571	AE2-044 C	1.5991	80/20	1.5991
941501	AE2-147 C	64.9431	80/20	64.9431
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1031	80/20	0.1031
943171	AE2-346 C	0.7543	80/20	0.7543
944141	AF1-082	1.0280	80/20	1.0280
944871	AF1-152 C	21.6477	80/20	21.6477
945711	AF1-236 C O1	200.1831	80/20	200.1831
957521	AF2-046 C	6.3114	80/20	6.3114
957531	AF2-047 C	43.4499	80/20	43.4499
957861	AF2-080 C	4.4790	80/20	4.4790
959511	AF2-242 C	8.2886	80/20	8.2886
961671	AG1-007 C	0.5973	80/20	0.5973
961681	AG1-008 C	6.3240	80/20	6.3240
961931	AG1-036 C	0.6265	80/20	0.6265
961941	AG1-037 C	0.2694	80/20	0.2694
962331	AG1-082 C	1.0776	80/20	1.0776
962341	AG1-083 C	1.0776	80/20	1.0776
962351	AG1-084 C	1.0558	80/20	1.0558
962361	AG1-085 C	1.0558	80/20	1.0558
962571	AG1-106 C	2.0354	80/20	2.0354
964491	AG1-312 C O1	15.7819	80/20	15.7819
964501	AG1-313 C O2	1.9905	80/20	1.9905
965631	AG1-431	115.8955	80/20	115.8955
965691	AG1-437 C O1	13.9836	80/20	13.9836
965701	AG1-438 C O1	13.9836	80/20	13.9836
965711	AG1-439 C O1	12.6075	80/20	12.6075
965741	AG1-442 O1	8.1571	80/20	8.1571
965751	AG1-443 O1	8.1571	80/20	8.1571
965761	AG1-444 O1	6.7240	80/20	6.7240
966491	AG1-518 O2	47.0895	80/20	47.0895
966801	AG1-551 C	2.0857	80/20	2.0857
966811	AG1-552 C	0.6611	80/20	0.6611
966931	AG1-431A	87.0740	80/20	87.0740
WEC	WEC	0.1200	Confirmed LTF	0.1200
LGEE	LGEE	0.2444	Confirmed LTF	0.2444
CPL	CPL	1.4599	Confirmed LTF	1.4599
CBM-W2	CBM-W2	5.2506	Confirmed LTF	5.2506
NY	NY	0.1371	Confirmed LTF	0.1371
TVA	TVA	0.9884	Confirmed LTF	0.9884
SIGE	SIGE	0.0743	Confirmed LTF	0.0743
CBM-S2	CBM-S2	15.6391	Confirmed LTF	15.6391
CBM-S1	CBM-S1	0.2462	Confirmed LTF	0.2462
MEC	MEC	0.7166	Confirmed LTF	0.7166
LAGN	LAGN	1.2338	Confirmed LTF	1.2338
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

13.6 Contingency Descriptions - Secondary POI

Contingency Name	Contingency Definition
EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1	CONTINGENCY 'EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1' OPEN BRANCH FROM BUS 304222 TO BUS 304226 CKT 1 END
DVP_P1-2: LN 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 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 249	CONTINGENCY 'DVP_P1-2: LN 249' / 1030 OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 / 314282 6CARSON 230 314285 6CHRL249 230 1 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 / 314285 6CHRL249 230 314316 6LOCKS 230 1 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 / 314314 3LOCKS 115 314316 6LOCKS 230 2 END
DVP_P1-2: LN 2092	CONTINGENCY 'DVP_P1-2: LN 2092' OPEN BRANCH FROM BUS 313714 TO BUS 314662 CKT 1 /* 6PERQUIMANS 230.00 - 6S HERTFORD 230.00 OPEN BRANCH FROM BUS 314651 TO BUS 314662 CKT 1 /* 6WINFALL 230.00 - 6S HERTFORD 230.00 OPEN BUS 314662 /* ISLAND: 6S HERTFORD 230.00 END

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

Contingency Name	Contingency Definition
PL:08:P22:102799	CONTINGENCY 'PL:08:P22:102799' /* HUMMEL STATION 500KV BUS DISCONNECT BUS 200080 /* /* SUNB TR#25 END
DVP_P1-2: LN 2002	CONTINGENCY 'DVP_P1-2: LN 2002' / 544 OPEN BRANCH FROM BUS 314282 TO BUS 314331 CKT 1 / 314282 6CARSON 230 314331 6POE 230 1 OPEN BRANCH FROM BUS 314329 TO BUS 314331 CKT 1 / 314329 3POE 115 314331 6POE 230 1 END
DVP_P7-1: LN 2058-2181	CONTINGENCY 'DVP_P7-1: LN 2058-2181' /* . OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P7-1: LN 81-2056-A	CONTINGENCY 'DVP_P7-1: LN 81-2056-A' /* . OPEN BRANCH FROM BUS 313858 TO BUS 927140 CKT 1 /* 3SO JUSTICE 115.00 - AC1-208 TAP 115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314578 CKT 1 /* 3CAROLNA 115.00 - 3HORNRTN 115.00 OPEN BRANCH FROM BUS 314578 TO BUS 314598 CKT 1 /* 3HORNRTN 115.00 - 3ROAN DP 115.00 OPEN BRANCH FROM BUS 314598 TO BUS 314628 CKT 1 /* 3ROAN DP 115.00 - 3DARLINGT DP115.00 OPEN BRANCH FROM BUS 314628 TO BUS 927140 CKT 1 /* 3DARLINGT DP115.00 - AC1-208 TAP 115.00 OPEN BUS 314578 /* ISLAND: 3HORNRTN 115.00 OPEN BUS 314598 /* ISLAND: 3ROAN DP 115.00 OPEN BUS 314628 /* ISLAND: 3DARLINGT DP115.00 OPEN BUS 927140 /* ISLAND: AC1-208 TAP 115.00 OPEN BUS 927141 /* ISLAND: AC1-208 MAIN115.00 OPEN BUS 927142 /* ISLAND: AC1-208 XFLV34.500 OPEN BUS 927143 /* ISLAND: AC1-208 XFTR0.3850 OPEN BUS 927144 /* ISLAND: AC1-208 COL 34.500 OPEN BUS 927145 /* ISLAND: AC1-208 C 0.3850 OPEN BUS 927146 /* ISLAND: AC1-208 E 0.3850 OPEN BRANCH FROM BUS 934330 TO BUS 314579 CKT 1 /* AD1-057 TAP 230.00 - 6HORNRTN 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 246-B	CONTINGENCY 'DVP_P1-2: LN 246-B' OPEN BRANCH FROM BUS 957820 TO BUS 314575 CKT 1 /* AF2-076 230.00 - 6NUCO TP 230.00 OPEN BRANCH FROM BUS 314569 TO BUS 314575 CKT 1 /* 6EARLEYS 230.00 - 6NUCO TP 230.00 OPEN BRANCH FROM BUS 314575 TO BUS 314590 CKT 1 /* 6NUCO TP 230.00 - 6NUCOR 230.00 OPEN BUS 314575 /* ISLAND: 6NUCO TP 230.00 OPEN BUS 314590 /* ISLAND: 6NUCOR 230.00 END
DVP_P1-2: LN 2167	CONTINGENCY 'DVP_P1-2: LN 2167' OPEN BRANCH FROM BUS 313845 TO BUS 314564 CKT 1 /* 6HATHAWAY 230.00 - 6EDGECOM 230.00 END
DVP_P4-2: 201262	CONTINGENCY 'DVP_P4-2: 201262' / 173 OPEN BRANCH FROM BUS 314569 TO BUS 936400 CKT 1 / 314569 6EARLEYS 230 936400 AD2-051 TAP 230 1 OPEN BRANCH FROM BUS 314568 TO BUS 314569 CKT 1 / 314568 3EARLEYS 115 314569 6EARLEYS 230 1 END
DVP_P1-2: LN 2181	CONTINGENCY 'DVP_P1-2: LN 2181' OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' / 187 OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 / 313725 6DRY BREAD 230 314563 6CLUBHSE 230 1 END

Contingency Name	Contingency Definition
PL:11:P22:000176	CONTINGENCY 'PL:11:P22:000176' /* BEPO BUS (STCI BUS ON PSSE) DISCONNECT BRANCH FROM BUS 200043 TO BUS 200050 CKT 1 /* STEELCTY-BETH CT7 500-13.8 DISCONNECT BRANCH FROM BUS 200043 TO BUS 200049 CKT 1 /* STEELCTY-BETH CT6 500-13.8 DISCONNECT BRANCH FROM BUS 200043 TO BUS 200048 CKT 1 /* STEELCTY-BETH CT5 500-13.8 DISCONNECT BRANCH FROM BUS 200043 TO BUS 200046 CKT 1 /* STEELCTY-BETH CT3 500-13.8 DISCONNECT BRANCH FROM BUS 200043 TO BUS 200045 CKT 1 /* STEELCTY-BETH CT2 500-13.8 DISCONNECT BRANCH FROM BUS 200043 TO BUS 200044 CKT 1 /* STEELCTY-BETH CT1 500-13.8 DISCONNECT BRANCH FROM BUS 200043 TO BUS 200047 CKT 1 /* STEELCTY-BETH CT4 500-13.8 END
DVP_P4-2: 531T582	CONTINGENCY 'DVP_P4-2: 531T582' / 2025 OPEN BRANCH FROM BUS 314924 TO BUS 314928 CKT 1 / 314924 8SURRY 500 314928 8SUFFOLK 500 1 OPEN BRANCH FROM BUS 314924 TO BUS 314931 CKT 1 / 314924 8SURRY 500 314931 8SKIFF CREEK 500 1 END
PL:08:P22:102801	CONTINGENCY 'PL:08:P22:102801' /* FREEDOM 500KV BUS DISCONNECT BUS 200082 /* /* FRDM BUS END
DVP_P1-3: 8MDLTHAN-TX#6	CONTINGENCY 'DVP_P1-3: 8MDLTHAN-TX#6' OPEN BRANCH FROM BUS 314322 TO BUS 314914 CKT 1 /* 6MDLTHAN 230.00 - 8MDLTHAN 500.00 END
314574 6EVERETS 230 927020 AC1-189 TAP 230 1	CONTINGENCY '314574 6EVERETS 230 927020 AC1-189 TAP 230 1' / 494 OPEN BRANCH FROM BUS 314574 TO BUS 927020 CKT 1 / 314574 6EVERETS 230 927020 AC1-189 TAP 230 1 END
DVP_P4-2: H2T218	CONTINGENCY 'DVP_P4-2: H2T218' /* EVERETTS 230 KV OPEN BRANCH FROM BUS 304451 TO BUS 314574 CKT 1 /* 6GREENVILLE T230.00 - 6EVERETS 230.00 OPEN BRANCH FROM BUS 314573 TO BUS 314574 CKT 1 /* 3EVERETS 115.00 - 6EVERETS 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END
DVP_P4-2: 246T247	CONTINGENCY 'DVP_P4-2: 246T247' /* SUFFOLK 230 KV OPEN BRANCH FROM BUS 314537 TO BUS 957820 CKT 1 /* 6SUFFOLK 230.00 - AF2-076 TAP 230.00 OPEN BRANCH FROM BUS 314537 TO BUS 966490 CKT 1 /* 6SUFFOLK 230.00 - AG1-518 TAP 230.00 END
DVP_P1-2: LN 247-B	CONTINGENCY 'DVP_P1-2: LN 247-B' OPEN BRANCH FROM BUS 314537 TO BUS 966490 CKT 1 /* 6SUFFOLK 230.00 - AG1-518 TAP230.00 END
DVP_P1-2: LN 579	CONTINGENCY 'DVP_P1-2: LN 579' OPEN BRANCH FROM BUS 314923 TO BUS 314927 CKT 1 /* 8SEPTA 500.00 - 8YADKIN 500.00 END
AEP_P2-2_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P2-2_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
DVP_P1-3: 8SUFFOLK-TX#8	CONTINGENCY 'DVP_P1-3: 8SUFFOLK-TX#8' / 2262 OPEN BRANCH FROM BUS 314928 TO BUS 314537 CKT 2 / 314928 8SUFFOLK 500 314537 6SUFFOLK 230 2 END
DVP_P1-2: LN 218	CONTINGENCY 'DVP_P1-2: LN 218' OPEN BRANCH FROM BUS 304451 TO BUS 314574 CKT 1 /* 6GREENVILE T230.00 - 6EVERETS 230.00 END

Contingency Name	Contingency Definition
DVP_P4-2: 2020T2144	CONTINGENCY 'DVP_P4-2: 2020T2144' /* WINFALL 230 KV OPEN BRANCH FROM BUS 313851 TO BUS 314638 CKT 1 /* 6ECITYDP2 230.00 - 6ELIZ CT 230.00 OPEN BRANCH FROM BUS 313851 TO BUS 314639 CKT 1 /* 6ECITYDP2 230.00 - 6TANGLEW 230.00 OPEN BRANCH FROM BUS 314639 TO BUS 314651 CKT 1 /* 6TANGLEW 230.00 - 6WINFALL 230.00 OPEN BUS 313851 /* ISLAND: 6ECITYDP2 230.00 OPEN BUS 314639 /* ISLAND: 6TANGLEW 230.00 OPEN BUS 917122 /* ISLAND: Z2-027 E 230.00 OPEN BRANCH FROM BUS 313713 TO BUS 314651 CKT 1 /* 6SWAMP 230.00 - 6WINFALL 230.00 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_P1-2: LN 2020	CONTINGENCY 'DVP_P1-2: LN 2020' / 1110 OPEN BRANCH FROM BUS 313851 TO BUS 314638 CKT 1 / 313851 6ECITYDP2 230 314638 6ELIZ CT 230 1 OPEN BRANCH FROM BUS 313851 TO BUS 314639 CKT 1 / 313851 6ECITYDP2 230 314639 6TANGLEW 230 1 OPEN BRANCH FROM BUS 314639 TO BUS 314651 CKT 1 / 314639 6TANGLEW 230 314651 6WINFALL 230 1 OPEN BRANCH FROM BUS 314639 TO BUS 917122 CKT 1 / 314639 6TANGLEW 230 917122 Z2-027 E 230 1 END
AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1' / 1492 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
DVP_P1-2: LN 238-B	CONTINGENCY 'DVP_P1-2: LN 238-B' / 796 OPEN BRANCH FROM BUS 314563 TO BUS 940480 CKT 1 / 314563 6CLUBHSE 230 940480 AE2-033 TAP 230 1 OPEN BRANCH FROM BUS 314562 TO BUS 314563 CKT 1 / 314562 3CLUBHSE 115 314563 6CLUBHSE 230 1 END
Base Case	

Contingency Name	Contingency Definition
AEP_P7-1_#10781-A	CONTINGENCY 'AEP_P7-1_#10781-A' /* OPEN BRANCH FROM BUS 242530 TO BUS 936160 CKT 1 / 242530 05EDANV1 230 936160 AD2-022 TAP 230 1 OPEN BRANCH FROM BUS 242531 TO BUS 304094 CKT 1 / 242531 05EDANV2 230 304094 6YANCY TAP 230 1 OPEN BRANCH FROM BUS 304094 TO BUS 304097 CKT 1 / 304094 6YANCY TAP 230 304097 6CONCD2230TT 230 1 OPEN BRANCH FROM BUS 304094 TO BUS 304095 CKT 1 / 304094 6YANCY TAP 230 304095 6YANCYVILLE 230 1 END
DVP_P4-2: 28942	CONTINGENCY 'DVP_P4-2: 28942' / 2121 OPEN BRANCH FROM BUS 314522 TO BUS 314525 CKT 1 / 314522 6CHCKTUK 230 314525 6KINGFORK 230 1 OPEN BRANCH FROM BUS 314522 TO BUS 314828 CKT 1 / 314522 6CHCKTUK 230 314828 6CHCKT_1 230 1 OPEN BRANCH FROM BUS 314525 TO BUS 314537 CKT 1 / 314525 6KINGFORK 230 314537 6SUFFOLK 230 1 OPEN BRANCH FROM BUS 314525 TO BUS 316150 CKT 1 / 314525 6KINGFORK 230 316150 AD2-215 C 230 1 OPEN BRANCH FROM BUS 314525 TO BUS 935111 CKT 1 / 314525 6KINGFORK 230 935111 AD1-144 C 230 1 OPEN BRANCH FROM BUS 316150 TO BUS 316151 CKT 1 / 316150 AD2-215 C 230 316151 AD2-215 E 230 1 OPEN BRANCH FROM BUS 935111 TO BUS 935112 CKT 1 / 935111 AD1-144 C 230 935112 AD1-144 E 230 1 OPEN BRANCH FROM BUS 314536 TO BUS 314537 CKT 3 / 314536 3SUFFOLK 115 314537 6SUFFOLK 230 3 OPEN BRANCH FROM BUS 314928 TO BUS 314537 CKT 2 / 314928 8SUFFOLK 500 314537 6SUFFOLK 230 2 END
DVP_P1-2: LN 2058	CONTINGENCY 'DVP_P1-2: LN 2058' OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 END
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 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' / 1410 OPEN BRANCH FROM BUS 314569 TO BUS 936400 CKT 1 / 314569 6EARLEYS 230 936400 AD2-051 TAP 230 1 END

Contingency Name	Contingency Definition
AEP_P4_#10162_05EDAN 1 138_P	CONTINGENCY 'AEP_P4_#10162_05EDAN 1 138_P' / 2115 OPEN BRANCH FROM BUS 242631 TO BUS 243962 CKT 1 / 242631 05EDAN 1 138 243962 05EDANV1EQ 999 1 OPEN BRANCH FROM BUS 243960 TO BUS 243962 CKT Z1 / 243960 05E.DANVIL 69.0 243962 05EDANV1EQ 999 Z1 OPEN BRANCH FROM BUS 243961 TO BUS 243962 CKT 1 / 243961 05EDANVILL 12.0 243962 05EDANV1EQ 999 1 OPEN BRANCH FROM BUS 242530 TO BUS 936160 CKT 1 / 242530 05EDANV1 230 936160 AD2-022 TAP 230 1 OPEN BRANCH FROM BUS 242531 TO BUS 304094 CKT 1 / 242531 05EDANV2 230 304094 6YANCY TAP 230 1 OPEN BRANCH FROM BUS 242530 TO BUS 242631 CKT 5 / 242530 05EDANV1 230 242631 05EDAN 1 138 5 OPEN BRANCH FROM BUS 242549 TO BUS 242632 CKT 1 / 242549 05BANSTR 138 242632 05EDAN 2 138 1 OPEN BRANCH FROM BUS 242620 TO BUS 242631 CKT 1 / 242620 05DANVL2 138 242631 05EDAN 1 138 1 OPEN BRANCH FROM BUS 242629 TO BUS 242632 CKT 1 / 242629 05E.MONU 138 242632 05EDAN 2 138 1 OPEN BRANCH FROM BUS 242631 TO BUS 242632 CKT Z1 / 242631 05EDAN 1 138 242632 05EDAN 2 138 Z1 OPEN BRANCH FROM BUS 242631 TO BUS 246972 CKT 1 / 242631 05EDAN 1 138 246972 05ROCKSP 138 1 OPEN BRANCH FROM BUS 243953 TO BUS 243960 CKT 1 / 243953 05DANRR 69.0 243960 05E.DANVIL 69.0 1 OPEN BRANCH FROM BUS 243950 TO BUS 243960 CKT 1 / 243950 05EAGLESPR 69.0 243960 05E.DANVIL 69.0 1 REMOVE SWSHUNT FROM BUS 242631 /* 242631 05EDAN 1 138 REMOVE SWSHUNT FROM BUS 243960 /* 243960 05E.DANVIL 69.0 END
DVP_P4-2: 24972-4	CONTINGENCY 'DVP_P4-2: 24972-4' / 1024 OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 / 314282 6CARSON 230 314285 6CHRL249 230 1 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 / 314285 6CHRL249 230 314316 6LOCKS 230 1 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 / 314314 3LOCKS 115 314316 6LOCKS 230 2 OPEN BRANCH FROM BUS 314902 TO BUS 314282 CKT 1 / 314902 8CARSON 500 314282 6CARSON 230 1 OPEN BRANCH FROM BUS 314282 TO BUS 314455 CKT 1 / 314282 6CARSON 230 314455 6CARSO_1 230 1 END
DVP_P1-2: LN 2034-E	CONTINGENCY 'DVP_P1-2: LN 2034-E' OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 933990 TO BUS 314616 CKT 1 /* AD1-023 TAP 230.00 - 6TRWBRDG 230.00 END

Contingency Name	Contingency Definition
DVP_P4-2: 211042	CONTINGENCY 'DVP_P4-2: 211042' / 2019 OPEN BRANCH FROM BUS 314480 TO BUS 314508 CKT 1 / 314480 6HUNTSMN 230 314508 6THRASHER 230 1 OPEN BRANCH FROM BUS 314480 TO BUS 314537 CKT 1 / 314480 6HUNTSMN 230 314537 6SUFFOLK 230 1 OPEN BRANCH FROM BUS 314537 TO BUS 314536 CKT 1 / 314537 6SUFFOLK 230 314536 3SUFFOLK 115 1 OPEN BRANCH FROM BUS 314928 TO BUS 314537 CKT 1 / 314928 8SUFFOLK 500 314537 6SUFFOLK 230 1 REMOVE SWSHUNT FROM BUS 314537 /* 314537 6SUFFOLK 230 END
DVP_P1-3: 8SUFFOLK-TX#7	CONTINGENCY 'DVP_P1-3: 8SUFFOLK-TX#7' / 2279 OPEN BRANCH FROM BUS 314928 TO BUS 314537 CKT 1 / 314928 8SUFFOLK 500 314537 6SUFFOLK 230 1 END

14 Affected Systems

14.1 TVA

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

14.2 Duke Energy Progress

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

15 Attachment 1: One Line Diagram