



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-437
CASHIE-EARLEYS 230 KV
60 MW Capacity / 100 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 Bertie County, North Carolina. The installed facilities will have a total capability of 100 MW with 60 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	AG1-437
Project Name	CASHIE-EARLEYS 230 KV
State	North Carolina
County	Bertie
Transmission Owner	Dominion
MFO	100
MWE	100
MWC	60
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

AG1-437 will interconnect with the Dominion transmission system tapping the Earleys to Cashie 230 kV line.

4.2 Secondary Point of Interconnection

The secondary POI for AG1-437 is a direct connect to the Cashie 230 kV substation.

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 AG1-437 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$10,400,000
Total System Network Upgrade Costs	\$1,078,378,000 ¹
Total Costs	\$1,088,778,000

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 AG1-437 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
Attachment Facilities	\$2,100,000
230 kV Three Breaker Ring-Bus Substation	\$6,500,000
Re-arrange line and tie-in new substation	\$1,800,000
Total Physical Interconnection Costs	\$10,400,000

AG1-437 "Cashie-Earleys 230 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 230 kV three breaker ring bus located on the line between the Cashie substation and Earleys substation.

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

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

7 Schedule

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

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 AG1-437 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).
1. 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.
2. 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.
3. 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 AG1-437 was evaluated as a 100.0 MW (Capacity 60.0 MW) injection tapping the Earleys to Cashie 230 kV line in the Dominion area. Project AG1-437 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-437 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

11.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169037067	314561	6CAROLNA	230.0	DVP	314583	6LAKEVIEW	230.0	DVP	1	DVP_P1-2: LN 246-B	single	375.059997559	98.14	101.53	DC	12.71
169037068	314561	6CAROLNA	230.0	DVP	314583	6LAKEVIEW	230.0	DVP	1	DVP_P1-2: LN 246-A	single	375.059997559	96.71	100.1	DC	12.71
169037076	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	2	DVP_P1-2: LN 2034-B	single	241.391983032	99.02	103.15	DC	9.97
169037175	314583	6LAKEVIEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	3144356SAPONY 230 940480 AE2-033 TAP 230 1	single	441.799987793	99.86	100.87	DC	4.48
169037176	314583	6LAKEVIEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	DVP_P1-2: LN 238-A	single	441.799987793	99.84	100.85	DC	4.48
169247883	314648	6SUNBURY	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2020	single	984.179992676	99.14	100.56	DC	13.98
170034212	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	Base Case	single	571.520019531	99.9	106.59	DC	38.21

11.2 Multiple Facility Contingency

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

None

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168524181	313713	6SWAMP	230.0	DVP	314648	6SUNBURY	230.0	DVP	1	DVP_P1-2: LN 2020	single	984.179992676	100.06	101.48	DC	13.98
168524064	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	single	733.200012207	144.64	146.88	DC	16.42

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
163345695	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	459.0	180.56	183.0	DC	11.2
163345696	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	175.29	177.67	DC	10.92
163345965	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	196.96	199.76	DC	12.82
163345966	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:48:P71:102649	tower	459.0	174.22	176.61	DC	10.93
168524076	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	375.059997559	152.39	154.14	DC	6.56
163836132	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT230T	230.0	CPL E	1	DVP_P1-2: LN 2181	single	478.0	120.0	121.3	DC	6.19
163836133	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT230T	230.0	CPL E	1	EXT_30422226ROCKYMT230T 230 3042266PA-RMOUNT#4 230 1	single	478.0	110.88	112.18	DC	6.19
168524187	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	DVP_P1-2: LN 247	single	984.179992676	103.89	105.29	DC	13.8
168524089	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	single	733.200012207	139.77	142.01	DC	16.44
168829200	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	single	731.320007324	140.12	142.36	DC	16.44
163346301	314525	6KINGFORK	230.0	DVP	314522	6CHCKTUK	230.0	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	100.11	100.63	DC	9.49
163346289	314537	6SUFFOLK	230.0	DVP	314525	6KINGFORK	230.0	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	101.53	102.05	DC	9.5
163836756	314554	3BTLEBRO	115.0	DVP	304223	3ROCKYMT115T	115.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	164.0	300.46	302.24	DC	6.43
163345781	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	143.97	144.59	DC	11.41
163346040	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	150.35	151.05	DC	13.02
163346041	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	830.0	138.3	140.19	DC	15.69
169037080	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2056-A	single	678.679992676	131.53	132.44	DC	7.52
169036945	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	221.57	225.45	DC	22.13
169036946	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	218.68	222.55	DC	22.14
169036948	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	single	571.520019531	133.75	136.35	DC	14.85
169037075	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	2	DVP_P1-2: LN 2034-A	single	241.391983032	106.73	110.86	DC	9.97
163835894	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P4-2: 2020T2144	breaker	478.0	204.88	208.95	DC	19.48
163836069	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2167	single	478.0	133.44	135.73	DC	10.98
163836070	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2092	single	478.0	143.45	145.89	DC	11.67
163836074	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	Base Case	single	478.0	107.75	109.59	DC	8.78
163836759	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	478.0	206.4	210.08	DC	17.58
169036963	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	212.89	216.77	DC	22.13
169036964	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	210.0	213.87	DC	22.14
169036966	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	single	571.520019531	125.05	127.65	DC	14.85

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
169037096	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	441.799987793	127.44	128.44	DC	4.43
169037097	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	single	441.799987793	127.41	128.42	DC	4.43
163345990	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	181.14	183.95	DC	12.86
168524092	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P1-2: LN 2056-A	single	375.059997559	152.52	154.5	DC	7.44
168524093	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	single	375.059997559	136.46	138.21	DC	6.58
163836120	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	single	478.0	120.33	121.65	DC	6.3
169036998	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	DVP_P1-2: LN 2034-A	single	269.779998779	146.84	152.83	DC	16.14
169036999	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	DVP_P1-2: LN 2034-B	single	269.779998779	135.67	141.66	DC	16.14
169037007	314614	3TRWBRDG 2	115.0	DVP	314596	3POPLR C	115.0	DVP	1	DVP_P1-2: LN 2034-A	single	285.760009766	138.28	143.93	DC	16.14
169037008	314614	3TRWBRDG 2	115.0	DVP	314596	3POPLR C	115.0	DVP	1	DVP_P1-2: LN 2034-B	single	285.760009766	127.77	133.42	DC	16.14
169037062	314616	6TRWBRDG	230.0	DVP	314614	3TRWBRDG2	115.0	DVP	1	DVP_P1-2: LN 2034-A	single	182.36000061	103.32	108.8	DC	10.01
168524083	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	single	733.200012207	139.79	142.03	DC	16.44
169247761	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 247	single	571.520019531	170.75	173.17	DC	13.79
169247763	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 2144	single	571.520019531	152.61	155.03	DC	13.8
169247764	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	Base Case	single	568.700012207	114.56	116.05	DC	8.5
169247879	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	DVP_P1-2: LN 247	single	984.179992676	103.91	105.31	DC	13.8
169247856	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P1-2: LN 247	single	898.640014648	118.2	119.73	DC	13.8
169247857	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P1-2: LN 2144	single	898.640014648	106.4	107.94	DC	13.81
169247774	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	single	733.200012207	145.5	147.74	DC	16.42
168524191	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 238-B	single	441.799987793	126.5	127.58	DC	4.77
168524192	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 2201	single	441.799987793	108.55	109.57	DC	4.49
163346020	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	158.7	159.41	DC	13.02
168829145	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	217.23	221.1	DC	22.13
168829146	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	214.33	218.2	DC	22.14
168829148	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	single	571.520019531	129.44	132.04	DC	14.85
169036933	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	234.89	243.75	DC	50.68
169036934	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	229.86	238.73	DC	50.69
169036936	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	Base Case	single	571.520019531	116.19	122.88	DC	38.21
170034209	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	216.65	225.52	DC	50.68
170034210	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	211.63	220.49	DC	50.69

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
168238856	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P1-3_#1377_05J.FERR 765_1	operati on	402.0	157.02	157.72	DC	6.21
168238857	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	157.02	157.72	DC	6.21
168524146	313701	6CHINQUA PIN	230.0	DVP	314609	6TARBORO	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	130.08	133.26	DC	14.04
168524523	313711	6MOYOCK	230.0	DVP	937220	AD2-160 TAP	230.0	DVP	1	DVP_P1-2: LN 269_1-A	operati on	898.640014648	100.81	102.15	DC	12.09
168524179	313713	6SWAMP	230.0	DVP	314648	6SUNBURY	230.0	DVP	1	DVP_P1-2: LN 2020	operati on	984.179992676	162.27	164.64	DC	23.31
168524061	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	operati on	733.200012207	207.23	210.96	DC	27.37
168524074	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operati on	375.059997559	212.29	215.22	DC	10.93
163836130	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT2 30T	230.0	CPL E	1	DVP_P1-2: LN 2181	operati on	478.0	162.41	164.57	DC	10.32
168524184	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	DVP_P1-2: LN 247	operati on	984.179992676	162.25	164.59	DC	23.0
168524186	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	Base Case	operati on	984.179992676	106.16	107.6	DC	14.17
168524408	313857	6WINDSOR DP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	547.08001709	107.91	111.67	DC	20.58
168524409	313857	6WINDSOR DP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 246-A	operati on	547.08001709	107.91	111.67	DC	20.58
168524086	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	operati on	733.200012207	183.31	187.04	DC	27.39
168829197	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	operati on	731.320007324	183.76	187.51	DC	27.39
168829155	314209	6SKIFF CREEK	230.0	DVP	314386	6KINGS M	230.0	DVP	1	DVP_P1-2: LN 567	operati on	441.799987793	261.96	262.58	DC	5.99
168829268	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	operati on	559.299987793	182.69	183.18	DC	6.1
168829278	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	operati on	559.299987793	178.88	179.37	DC	6.1
168829163	314296	6PENNIMAN	230.0	DVP	314415	6WALR209	230.0	DVP	1	DVP_P1-2: LN 567	operati on	441.799987793	250.05	250.67	DC	5.99
168829301	314299	6HARROW G	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 563	operati on	441.799987793	165.6	166.14	DC	5.28
168829297	314331	6POE	230.0	DVP	314299	6HARROW G	230.0	DVP	1	DVP_P1-2: LN 563	operati on	441.799987793	165.62	166.16	DC	5.28
168829159	314386	6KINGS M	230.0	DVP	314296	6PENNIMAN	230.0	DVP	1	DVP_P1-2: LN 567	operati on	441.799987793	254.01	254.63	DC	5.99

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
168829173	314415	6WALR209	230.0	DVP	314391	6LIGH209	230.0	DVP	1	DVP_P1-2: LN 567	operati on	441.799987793	233.91	234.53	DC	5.99
168829223	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operati on	678.679992676	171.93	172.68	DC	11.27
168829597	314508	6THRASHER	230.0	DVP	314514	6YADKIN	230.0	DVP	1	DVP_P1-2: LN 588	operati on	818.739990234	115.21	115.73	DC	9.32
168829594	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	1	DVP_P1-3: 8SUFFOLK-TX#8	operati on	893.187988281	104.46	106.52	DC	18.37
169037216	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	2	DVP_P1-3: 8SUFFOLK-TX#7	operati on	906.253967285	103.17	105.2	DC	18.41
169037113	314550	6HICKORY	230.0	DVP	314466	6FENTRES	230.0	DVP	1	DVP_P1-2: LN 269_1-A	operati on	571.520019531	169.88	172.0	DC	12.09
169037064	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	375.059997559	160.55	166.2	DC	21.18
169037066	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	Base Case	operati on	375.059997559	105.84	109.85	DC	15.05
169037077	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2056-A	operati on	678.679992676	173.92	174.75	DC	12.53
169037079	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	operati on	678.679992676	165.71	166.47	DC	11.27
169037083	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	130.67	133.85	DC	14.04
168524433	314569	6EARLEYS	230.0	DVP	313857	6WINDSORDP	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	571.520019531	105.45	109.05	DC	20.58
169036943	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	303.53	309.99	DC	36.89
169036947	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	operati on	571.520019531	177.18	181.51	DC	24.75
169037073	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	2	DVP_P1-2: LN 2034-A	operati on	241.391983032	166.53	173.41	DC	16.61
169037152	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	274.855987549	132.43	138.19	DC	15.84
163836063	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2092	operati on	478.0	202.72	206.79	DC	19.46
163836068	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	Base Case	operati on	478.0	147.1	150.16	DC	14.64
169036961	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	294.85	301.31	DC	36.89
169036965	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	operati on	571.520019531	168.48	172.81	DC	24.75
169037094	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operati on	441.799987793	168.99	169.74	DC	7.38
168524090	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P1-2: LN 2056-A	operati on	375.059997559	210.18	213.5	DC	12.4
168524091	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	operati on	375.059997559	192.38	195.31	DC	10.97
169037173	314583	6LAKEVEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operati on	441.799987793	125.01	125.77	DC	7.46
163836119	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	operati on	478.0	162.07	164.27	DC	10.49
168829476	314594	6PLYMOTH	230.0	DVP	314203	6MACKEYS	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	789.599975586	119.29	123.7	DC	34.85
169036996	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	269.779998779	223.76	233.73	DC	26.91
169037000	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	Base Case	operati on	247.220001221	108.9	110.23	DC	7.34
169037117	314609	6TARBORO	230.0	DVP	314610	6TOTDP4	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	116.65	119.83	DC	14.04
169037121	314610	6TOTDP4	230.0	DVP	314564	6EDGECOM	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	114.18	117.36	DC	14.04

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
169037005	314614	3TRWBRDG2	115.0	DVP	314596	3POPLR C	115.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	285.760009766	210.9	220.31	DC	26.91
169037060	314616	6TRWBRDG	230.0	DVP	314614	3TRWBRDG2	115.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	182.36000061	170.01	179.15	DC	16.68
169037167	314616	6TRWBRDG	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	789.599975586	122.03	126.45	DC	34.85
168524080	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	operati on	733.200012207	183.32	187.06	DC	27.39
169247759	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 247	operati on	571.520019531	272.99	277.01	DC	22.99
169247762	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	Base Case	operati on	568.700012207	175.1	177.59	DC	14.16
169247876	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	DVP_P1-2: LN 247	operati on	984.179992676	162.27	164.61	DC	23.0
169247878	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	Base Case	operati on	984.179992676	106.17	107.61	DC	14.17
169247927	314645	6SLIGO L269	230.0	DVP	963820	AG1-235 TAP	230.0	DVP	1	314550 6HICKORY 230 937220 AD2-160 TAP 230 1	operati on	571.520019531	140.22	142.31	DC	11.93
169248002	314647	6SHAWBRO	230.0	DVP	938530	AE1-072_TAP	230.0	DVP	1	DVP_P1-2: LN 2087-B	operati on	571.520019531	124.96	127.04	DC	11.93
169248092	314647	6SHAWBRO	230.0	DVP	313717	6SLIGO L2192	230.0	DVP	1	DVP_P1-2: LN 269_1-A	operati on	749.179992676	101.63	103.25	DC	12.13
169247881	314648	6SUNBURY	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2020	operati on	984.179992676	161.34	163.71	DC	23.31
169247853	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P1-2: LN 247	operati on	898.640014648	181.8	184.36	DC	23.0
169247855	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	Base Case	operati on	823.440002441	131.37	133.09	DC	14.18
169247967	314651	6WINFALL	230.0	DVP	313713	6SWAMP	230.0	DVP	1	DVP_P1-2: LN 2020	operati on	984.179992676	127.21	129.58	DC	23.33
169247771	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	operati on	733.200012207	208.09	211.82	DC	27.37
168524363	927020	AC1-189 TAP	230.0	DVP	313701	6CHINQUAPI N	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	112.7	115.89	DC	14.07
169037208	933990	AD1-023 TAP	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	571.520019531	95.96	103.57	DC	43.49
168524189	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWA Y	230.0	DVP	1	DVP_P1-2: LN 238-B	operati on	441.799987793	159.11	159.92	DC	7.95
169752300	937220	AD2-160 TAP	230.0	DVP	314550	6HICKORY	230.0	DVP	1	DVP_P1-2: LN 269_1-A	operati on	898.640014648	108.4	109.74	DC	12.09
169752075	938530	AE1-072_TAP	230.0	DVP	314645	6SLIGO L269	230.0	DVP	1	314550 6HICKORY 230 937220 AD2-160 TAP 230 1	operati on	571.520019531	141.27	143.36	DC	11.93
169751897	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operati on	678.679992676	174.73	175.48	DC	11.27
168829143	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	301.44	307.9	DC	36.89
168829147	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	operati on	571.520019531	174.47	178.81	DC	24.75
170034382	963820	AG1-235 TAP	230.0	DVP	314466	6FENTRES	230.0	DVP	1	314550 6HICKORY 230 937220 AD2-160 TAP 230 1	operati on	571.520019531	174.04	176.12	DC	11.93
170034384	963820	AG1-235 TAP	230.0	DVP	314466	6FENTRES	230.0	DVP	1	Base Case	operati on	571.520019531	103.13	103.67	DC	6.91
169036931	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	354.11	368.89	DC	84.47
169036935	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	Base Case	operati on	571.520019531	179.11	190.25	DC	63.68
170034207	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	331.31	346.09	DC	84.47
170034211	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	Base Case	operati on	571.520019531	161.27	172.42	DC	63.68

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
169037075,169037076	2	3EVERETS 115.0 kV - 6EVERETS 230.0 kV Ckt 2	<u>DVP</u> dom-316 (1847) : Add additional 230/115 kV transformer at Everetts substation. Project Type : CON Cost : \$7,000,000 Time Estimate : 16-18 Months	\$7,000,000
169036946,169036945,169036948	17	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
168524089	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
168524083	26	6EDENTON 230.0 kV - 6WALBMRL 230.0 kV Ckt 1		
168829200	12	6MACKEYS 230.0 kV - 6EDENTON 230.0 kV Ckt 1		
168829146,168829145,168829148	33	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

ID	Idx	Facility	Upgrade Description	Cost
163346020	32	AE2-033 TAP 230.0 kV - 6SAPONY 230.0 kV Ckt 1	<u>DVP</u> n6452 (1535) : Rebuild 2.47 miles of 230 kV Line 238 from AE2-033 TAP to Sapony with 2-795 150C ACSR. Project Type : FAC Cost : \$3,705,000 Time Estimate : 30-36 Months	\$3,705,000
169247883	4	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
163345990,168 524092,168524 093	21	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 an projected in-service date of 12/31/2024. Project Type : FAC Cost : \$0	\$0
169247857,169 247856	29	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
163346289	14	6SUFFOLK 230.0 kV - 6KINGFORK 230.0 kV Ckt 1	<u>DVP</u> dom-311 (1842) : Rebuild 6.8 miles of 230 kV Line 289 from Suffolk to Kings Fork with 2-636 ACSS 150 C Project Type : FAC Cost : \$17,000,000 Time Estimate : 36-40 Months	\$17,000,000
170034209,170 034212,170034 210	5	AG1-437 TAP 230.0 kV - AG1- 312 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-419 (1950) : Rebuild 15.2 miles of 230 kV Line 2034 from AG1-437 Tap to AG1-312 Tap with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$22,800,000 Time Estimate : 36-40 Months	\$22,800,000

ID	Idx	Facility	Upgrade Description	Cost
169037008,169037007	24	3TRWBRDG2 115.0 kV - 3POPLR C 115.0 kV Ckt 1	<u>DVP</u> dom-176 (1659) : Reconductor 7.4 miles of 115 kV Line 25 from Trowbridge to Poplar Chapel with 768 ACSS. Replace Wave trap, relay, circuit breaker switch, and circuit breaker lead at Trowbridge. Project Type : FAC Cost : \$4,910,000 Time Estimate : 30-36 Months dom-254 (1785) : Reconductor 7.4 miles of 115 kV Line 25 from Trowbridge to Poplar Chapel with 2-768.2 ACSS 250C. Upgrade Breaker Lead, Wave trap, Relay (Secondary CT) and Line Lead at Trowbridge 115 kV. Upgrade Line Lead at Poplar Chapel 115 kV. Project Type : FAC Cost : \$4,710,000 Time Estimate : 36-40 Months	\$9,620,000
163836132,163836133	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
169036998,169036999	23	3POPLR C 115.0 kV - 3EVERETS 115.0 kV Ckt 1	<u>DVP</u> dom-175 (1658) : Reconductor 13.4 miles of 115 kV Line 25 from Poplar Chapel to Everetts with 2-636 ACSR. Replace Wave trap, relay, circuit breaker switch, and circuit breaker lead at Everetts. Project Type : FAC Cost : \$8,510,000 Time Estimate : 30-36 Months	\$8,510,000
163836074,163836759,163836070,163835894,163836069	18	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
169037175,169037176	3	6LAKEVEW 230.0 kV - 6HORNRTN 230.0 kV Ckt 1	<u>DVP</u> dom-062 (1548) : Rebuild 4.06 miles of 230 kV Line 239 from Lakeview to Hornertown with 2-636 ACSR. Project Type : FAC Cost : \$5,278,000 Time Estimate : 30-36 Months	\$5,278,000
163836120	22	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
163836756	15	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

ID	Idx	Facility	Upgrade Description	Cost
168524191,168524192	31	AD1-057 TAP 230.0 kV - 6HATHAWAY 230.0 kV Ckt 1	<u>DVP</u> n6223 (1726) : Rebuild 12.8 miles of 230 kV Line 2056 from AD1-057 Tap to Hathaway with 2-636 ACSR. Project Type : FAC Cost : \$19,200,000 Time Estimate : 30-36 Months	\$19,200,000
168524064	7	6PERQUIMANS 230.0 kV - 6S HERTFORD 230.0 kV Ckt 1	<u>DVP</u> 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 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	\$35,525,000
169247774	30	6S HERTFORD 230.0 kV - 6WINFALL 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	
168524187	10	6ECITYDP2 230.0 kV - 6ELIZ CT 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.	\$27,000,000
169247879	28	6TANGLEW 230.0 kV - 6ECITYDP2 230.0 kV Ckt 1	Project Type : CON Cost : \$27,000,000 Time Estimate : 36-40 Months	
169037068,169037067	1	6CAROLNA 230.0 kV - 6LAKEVEW 230.0 kV Ckt 1	<u>DVP</u> dom-220 (1751) : Rebuild 1.37 miles of 230 kV Line 2141 from Carolina to Lakeview with 2-636 ACSR. Project Type : FAC Cost : \$2,055,000 Time Estimate : 30-36 Months	\$2,055,000

ID	Idx	Facility	Upgrade Description	Cost
169037096,169037097	20	6HORNRTN 230.0 kV - AD1-057 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-077 (1566) : Rebuild 16 miles of 230 kV Line 2056 from Hornertown to AD1-057 TAP with 2-636 ACSR. Project Type : FAC Cost : \$24,000,000 Time Estimate : 36-40 Months	\$24,000,000
163345696,163345965,163345966,163345695,168524076	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
169036963,169036964,169036966	19	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
168524181	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
169037062	25	6TRWBRDG 230.0 kV - 3TRWBRDG2 115.0 kV Ckt 1	<u>DVP</u> dom-325 (1856) : Replace the 115/230 kV Transformer at Trowbridge Project Type : CON Cost : \$4,500,000 Time Estimate : 16-18 Months	\$4,500,000
169036936,169036934,169036933	34	AG1-312 TAP 230.0 kV - 6EARLEYS 230.0 kV Ckt 1	<u>DVP</u> dom-417 (1948) : Wreck and Rebuild 3.5 miles of 230 kV Line 2034 from AG1-312 to Earleys as a double circuit (6 wire) with 2-636 ACSR on each circuit. Replace Wave Trap, Relay (Secondary CT), Line lead at Earleys terminal. Project Type : FAC Cost : \$9,070,000 Time Estimate : 30-36 Months	\$9,070,000

ID	Idx	Facility	Upgrade Description	Cost
163346301	13	6KINGFORK 230.0 kV - 6CHCKTUK 230.0 kV Ckt 1	<u>DVP</u> dom-216 (1747) : Rebuild 7.8 miles of 230 kV Line 289 from Kings Fork to Chuckatuck with 2-636 ACSR. Project Type : FAC Cost : \$11,700,000 Time Estimate : 30-36 Months	\$11,700,000
169247764,169 247761,169247 763	27	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
169037080,163 346040,163346 041,163345781	16	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
			TOTAL COST	\$1,078,378,000

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
169037067	314561	6CAROLNA	DVP	314583	6LAKEVIEW	DVP	1	DVP_P1-2: LN 246-B	single	375.06	98.14	101.53	DC	12.71

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.6941	80/20	4.6941
313527	AB2-043 C	0.1536	80/20	0.1536
313719	3CHESTNUT	0.5336	80/20	0.5336
314582	3KELFORD	0.4685	80/20	0.4685
314589	3MURPHYS	0.1105	80/20	0.1105
315115	1S HAMPT1	1.2216	80/20	1.2216
315126	1ROARAP2	2.3575	80/20	2.3575
315128	1ROARAP4	2.2497	80/20	2.2497
315158	1KERR 1	0.2431	80/20	0.2431
315159	1KERR 2	0.6807	80/20	0.6807
315160	1KERR 3	0.6807	80/20	0.6807
315161	1KERR 4	0.6807	80/20	0.6807
315162	1KERR 5	0.6807	80/20	0.6807
315163	1KERR 6	0.6807	80/20	0.6807
315164	1KERR 7	0.6807	80/20	0.6807
315292	1DOMTR78	1.2134	80/20	1.2134
315293	1DOMTR9	6.2759	80/20	6.2759
315294	1DOMTR10	7.6910	80/20	7.6910
315602	1HOLLOMANSOL	2.2377	80/20	2.2377
315605	6W1-029WIND	0.3283	80/20	0.3283
315606	3AA2-053SOLA	2.4969	80/20	2.4969

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315607	3AA1-063SOLA	2.0829	80/20	2.0829
315608	3AA2-088SOLA	1.1592	80/20	1.1592
315611	6Z1-036WIND	0.5090	80/20	0.5090
315614	AA2-178 C	1.1884	80/20	1.1884
316087	AB2-174 C	0.5243	80/20	0.5243
316103	AB2-015 C	6.6190	80/20	6.6190
316129	AC1-054 C	8.4029	80/20	8.4029
316131	AB2-060 C	0.4354	80/20	0.4354
316140	AB2-099 C (Suspended)	0.8485	80/20	0.8485
920591	AA2-165 C	0.0716	80/20	0.0716
923991	AB2-040 C O1	5.1124	80/20	5.1124
924301	AB2-077 C O1 (Suspended)	0.6358	80/20	0.6358
924311	AB2-078 C O1 (Suspended)	0.6358	80/20	0.6358
924321	AB2-079 C O1 (Suspended)	0.6358	80/20	0.6358
925121	AB2-169 C	0.8646	80/20	0.8646
926201	AC1-098 C	6.0713	80/20	6.0713
926211	AC1-099 C	2.0345	80/20	2.0345
927024	AC1-189 C	3.1025	80/20	3.1025
927145	AC1-208 C	8.6219	80/20	8.6219
932631	AC2-084 C	8.6548	80/20	8.6548
933991	AD1-023 C	14.8547	80/20	14.8547
934521	AD1-076 C	52.9796	80/20	52.9796
936361	AD2-046 C O1	5.1638	80/20	5.1638
936401	AD2-051 C O1	14.3728	80/20	14.3728
938221	AE1-035 C	0.5595	80/20	0.5595
938771	AE1-103 C	2.1588	80/20	2.1588
939181	AE1-148 C	4.9961	80/20	4.9961
940491	AE2-034 C	5.6494	80/20	5.6494
940661	AE2-053 O1	1.8504	80/20	1.8504
941501	AE2-147 C	4.8024	80/20	4.8024
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.2573	80/20	0.2573
942451	AE2-258	0.7262	80/20	0.7262
943171	AE2-346 C	2.0363	80/20	2.0363
944871	AF1-152 C	1.6008	80/20	1.6008
945711	AF1-236 C O1	61.8477	80/20	61.8477
957521	AF2-046 C	22.1187	80/20	22.1187
957531	AF2-047 C	13.4241	80/20	13.4241
957861	AF2-080 C	2.8179	80/20	2.8179
959511	AF2-242 C	5.9220	80/20	5.9220
961091	AF2-400 C	0.3574	80/20	0.3574
961681	AG1-008 C	22.1630	80/20	22.1630
961851	AG1-027 C	5.4782	80/20	5.4782
961931	AG1-036 C	1.8847	80/20	1.8847
961941	AG1-037 C	0.7273	80/20	0.7273
962331	AG1-082 C	2.9090	80/20	2.9090
962341	AG1-083 C	2.9090	80/20	2.9090
962351	AG1-084 C	2.6338	80/20	2.6338
962361	AG1-085 C	2.6338	80/20	2.6338
964491	AG1-312 C O1	28.5264	80/20	28.5264

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964501	AG1-313 C O1	7.7117	80/20	7.7117
964801	AG1-343 C	7.1442	80/20	7.1442
965291	AG1-394 C	2.4179	80/20	2.4179
965631	AG1-431	35.8066	80/20	35.8066
965691	AG1-437 C O1	12.7080	80/20	12.7080
965701	AG1-438 C O1	12.7080	80/20	12.7080
965721	AG1-440 C	6.0395	80/20	6.0395
965731	AG1-441 C	6.0395	80/20	6.0395
965741	AG1-442 O1	7.4130	80/20	7.4130
965751	AG1-443 O1	7.4130	80/20	7.4130
965771	AG1-445	3.4895	80/20	3.4895
965781	AG1-446	3.4895	80/20	3.4895
966751	AG1-546 C	19.5474	80/20	19.5474
966801	AG1-551 C	1.7312	80/20	1.7312
966811	AG1-552 C	3.7431	80/20	3.7431
966931	AG1-431A	26.9020	80/20	26.9020
WEC	WEC	0.0353	Confirmed LTF	0.0353
LGEE	LGEE	0.0729	Confirmed LTF	0.0729
CPL	CPL	0.4402	Confirmed LTF	0.4402
CBM-W2	CBM-W2	1.4784	Confirmed LTF	1.4784
NY	NY	0.0426	Confirmed LTF	0.0426
TVA	TVA	0.2744	Confirmed LTF	0.2744
SIGE	SIGE	0.0225	Confirmed LTF	0.0225
CBM-S2	CBM-S2	4.3013	Confirmed LTF	4.3013
CBM-S1	CBM-S1	0.0692	Confirmed LTF	0.0692
MEC	MEC	0.2082	Confirmed LTF	0.2082
LAGN	LAGN	0.3430	Confirmed LTF	0.3430
CBM-W1	CBM-W1	1.4861	Confirmed LTF	1.4861

11.6.2 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
169037075	314573	3EVERETS	DVP	314574	6EVERETS	DVP	2	DVP_P1-2: LN 2034-A	single	241.39	106.73	110.86	DC	9.97

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	1.8204	80/20	1.8204
315293	1DOMTR9	9.4154	80/20	9.4154
315294	1DOMTR10	11.5385	80/20	11.5385
315605	6W1-029WIND	0.3180	80/20	0.3180
315611	6Z1-036WIND	0.5044	80/20	0.5044
315614	AA2-178 C	1.1910	80/20	1.1910
925121	AB2-169 C	1.8853	80/20	1.8853
933991	AD1-023 C	12.9060	80/20	12.9060
934521	AD1-076 C	53.2715	80/20	53.2715
940491	AE2-034 C	5.6616	80/20	5.6616

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941501	AE2-147 C	4.6512	80/20	4.6512
944871	AF1-152 C	1.5504	80/20	1.5504
945711	AF1-236 C O1	61.9810	80/20	61.9810
957531	AF2-047 C	13.4530	80/20	13.4530
959511	AF2-242 C	16.0650	80/20	16.0650
964491	AG1-312 C O1	18.6032	80/20	18.6032
965631	AG1-431	35.8838	80/20	35.8838
965691	AG1-437 C O1	9.9660	80/20	9.9660
965701	AG1-438 C O1	9.9660	80/20	9.9660
965741	AG1-442 O1	5.8135	80/20	5.8135
965751	AG1-443 O1	5.8135	80/20	5.8135
966801	AG1-551 C	5.6297	80/20	5.6297
966931	AG1-431A	26.9600	80/20	26.9600
G-007A	G-007A	0.1966	Confirmed LTF	0.1966
VFT	VFT	0.5289	Confirmed LTF	0.5289
CALDERWOOD	CALDERWOOD	0.2097	Confirmed LTF	0.2097
PRAIRIE	PRAIRIE	0.7181	Confirmed LTF	0.7181
CHEOAH	CHEOAH	0.2152	Confirmed LTF	0.2152
CBM-N	CBM-N	0.0960	Confirmed LTF	0.0960
COTTONWOOD	COTTONWOOD	0.7812	Confirmed LTF	0.7812
HAMLET	HAMLET	0.4712	Confirmed LTF	0.4712
GIBSON	GIBSON	0.1250	Confirmed LTF	0.1250
BLUEG	BLUEG	0.3854	Confirmed LTF	0.3854
TRIMBLE	TRIMBLE	0.1224	Confirmed LTF	0.1224
CATAWBA	CATAWBA	0.2254	Confirmed LTF	0.2254

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
169037176	314583	6LAKEVEW	DVP	314579	6HORNRTN	DVP	1	DVP_P1-2: LN 238-A	single	441.8	99.84	100.85	DC	4.48

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.4649	80/20	9.4649
313527	AB2-043 C	0.2332	80/20	0.2332
314572	3EMPORIA	0.6316	80/20	0.6316
314582	3KELFORD	0.1673	80/20	0.1673
314589	3MURPHYS	0.0602	80/20	0.0602
314704	3LAWRENC	0.3585	80/20	0.3585
315115	1S HAMPT1	0.8094	80/20	0.8094
315126	1ROARAP2	1.5993	80/20	1.5993
315128	1ROARAP4	1.5262	80/20	1.5262
315139	1GASTONA	6.1920	80/20	6.1920
315141	1GASTONB	6.1920	80/20	6.1920
315158	1KERR 1	0.2051	80/20	0.2051
315159	1KERR 2	0.5744	80/20	0.5744

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315160	1KERR 3	0.5744	80/20	0.5744
315161	1KERR 4	0.5744	80/20	0.5744
315162	1KERR 5	0.5744	80/20	0.5744
315163	1KERR 6	0.5744	80/20	0.5744
315164	1KERR 7	0.5744	80/20	0.5744
315602	1HOLLOMANSOL	0.8046	80/20	0.8046
315606	3AA2-053SOLA	1.5880	80/20	1.5880
315607	3AA1-063SOLA	1.3779	80/20	1.3779
315608	3AA2-088SOLA	0.7277	80/20	0.7277
315614	AA2-178 C	0.4436	80/20	0.4436
316087	AB2-174 C	1.5969	80/20	1.5969
316096	AB2-100 C1	1.7208	80/20	1.7208
316098	AB2-100 C2	1.7208	80/20	1.7208
316103	AB2-015 C	4.4810	80/20	4.4810
316129	AC1-054 C	6.1219	80/20	6.1219
316131	AB2-060 C	0.6611	80/20	0.6611
316140	AB2-099 C (Suspended)	0.3702	80/20	0.3702
923991	AB2-040 C O1	10.3083	80/20	10.3083
924301	AB2-077 C O1 (Suspended)	0.9228	80/20	0.9228
924311	AB2-078 C O1 (Suspended)	0.9228	80/20	0.9228
924321	AB2-079 C O1 (Suspended)	0.9228	80/20	0.9228
925591	AC1-034 C	-5.3678	Adder	-6.32
925611	AC1-036 C	0.0846	80/20	0.0846
926070	AC1-086 C	44.1349	80/20	44.1349
933991	AD1-023 C	5.1772	80/20	5.1772
934521	AD1-076 C	18.1292	80/20	18.1292
936265	AD2-033 C	5.0989	80/20	5.0989
936361	AD2-046 C O1	4.6728	80/20	4.6728
936401	AD2-051 C O1	5.3516	80/20	5.3516
936485	AD2-063 C	6.4881	80/20	6.4881
938221	AE1-035 C	0.2012	80/20	0.2012
938771	AE1-103 C	1.5584	80/20	1.5584
939181	AE1-148 C	4.5889	80/20	4.5889
940481	AE2-033 C	28.6313	80/20	28.6313
940491	AE2-034 C	2.1088	80/20	2.1088
940661	AE2-053 O1	1.6996	80/20	1.6996
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1043	80/20	0.1043
942451	AE2-258	1.1025	80/20	1.1025
942471	AE2-260 C O1	26.6029	80/20	26.6029
943171	AE2-346 C	0.8886	80/20	0.8886
943911	AF1-059	15.8264	80/20	15.8264
945711	AF1-236 C O1	23.0866	80/20	23.0866
946011	AF1-266	23.9667	80/20	23.9667
946281	AF1-292 C	2.3137	80/20	2.3137
957521	AF2-046 C	11.5618	80/20	11.5618
957531	AF2-047 C	5.0110	80/20	5.0110
959311	AF2-222 C	6.0430	80/20	6.0430
960081	AF2-299 C	3.8996	80/20	3.8996
961091	AF2-400 C	0.2420	80/20	0.2420

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961681	AG1-008 C	11.5850	80/20	11.5850
961851	AG1-027 C	4.8503	80/20	4.8503
961891	AG1-030 C	4.8159	80/20	4.8159
961931	AG1-036 C	0.8951	80/20	0.8951
961941	AG1-037 C	0.3173	80/20	0.3173
962331	AG1-082 C	1.2694	80/20	1.2694
962341	AG1-083 C	1.2694	80/20	1.2694
962351	AG1-084 C	1.0679	80/20	1.0679
962361	AG1-085 C	1.0679	80/20	1.0679
962571	AG1-106 C	12.2736	80/20	12.2736
963301	AG1-179 C	6.4361	80/20	6.4361
963311	AG1-180	3.1358	80/20	3.1358
963321	AG1-181 C O1	6.5365	80/20	6.5365
963361	AG1-185 O1	3.1625	80/20	3.1625
964111	AG1-272 C	0.9616	80/20	0.9616
964121	AG1-273 C	0.9616	80/20	0.9616
964131	AG1-274 C	0.9616	80/20	0.9616
964241	AG1-285 C O1	5.5403	80/20	5.5403
964491	AG1-312 C O1	10.2256	80/20	10.2256
964501	AG1-313 C O1	4.5098	80/20	4.5098
964801	AG1-343 C	4.3515	80/20	4.3515
965191	AG1-384 C	0.9616	80/20	0.9616
965291	AG1-394 C	1.5073	80/20	1.5073
965451	AG1-413 C O1	6.6528	80/20	6.6528
965591	AG1-427 C	5.2308	80/20	5.2308
965601	AG1-428 C O1	5.3730	80/20	5.3730
965631	AG1-431	13.3659	80/20	13.3659
965691	AG1-437 C O1	4.4784	80/20	4.4784
965701	AG1-438 C O1	4.4784	80/20	4.4784
965721	AG1-440 C	4.7381	80/20	4.7381
965731	AG1-441 C	4.7381	80/20	4.7381
965741	AG1-442 O1	2.6124	80/20	2.6124
965751	AG1-443 O1	2.6124	80/20	2.6124
965771	AG1-445	2.7375	80/20	2.7375
965781	AG1-446	2.7375	80/20	2.7375
966621	AG1-532 C	2.1058	80/20	2.1058
966751	AG1-546 C	14.0875	80/20	14.0875
966811	AG1-552 C	2.5393	80/20	2.5393
966931	AG1-431A	10.0420	80/20	10.0420
G-007A	G-007A	0.4987	Confirmed LTF	0.4987
VFT	VFT	1.3287	Confirmed LTF	1.3287
CALDERWOOD	CALDERWOOD	0.6123	Confirmed LTF	0.6123
PRAIRIE	PRAIRIE	2.0741	Confirmed LTF	2.0741
CHEOAH	CHEOAH	0.6281	Confirmed LTF	0.6281
CBM-N	CBM-N	0.2412	Confirmed LTF	0.2412
COTTONWOOD	COTTONWOOD	2.2659	Confirmed LTF	2.2659
HAMLET	HAMLET	1.3929	Confirmed LTF	1.3929
GIBSON	GIBSON	0.3604	Confirmed LTF	0.3604
BLUEG	BLUEG	1.1076	Confirmed LTF	1.1076
TRIMBLE	TRIMBLE	0.3512	Confirmed LTF	0.3512
CATAWBA	CATAWBA	0.6688	Confirmed LTF	0.6688

11.6.4 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
169247883	314648	6SUNBURY	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2020	single	984.18	99.14	100.56	DC	13.98

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

11.6.5 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
170034209	965690	AG1-437 TAP	DVP	964490	AG1-312 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	216.65	225.52	DC	50.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	4.7112	80/20	4.7112
315293	1DOMTR9	24.3670	80/20	24.3670
315294	1DOMTR10	29.8615	80/20	29.8615
315611	6Z1-036WIND	4.6127	80/20	4.6127
315614	AA2-178 C	6.6233	80/20	6.6233
925121	AB2-169 C	2.5776	80/20	2.5776
927024	AC1-189 C	2.9632	80/20	2.9632
933991	AD1-023 C	62.3651	80/20	62.3651
934521	AD1-076 C	240.4160	80/20	240.4160
940491	AE2-034 C	31.4857	80/20	31.4857
945711	AF1-236 C O1	344.6937	80/20	344.6937
957531	AF2-047 C	74.8161	80/20	74.8161
957861	AF2-080 C	2.6913	80/20	2.6913
959511	AF2-242 C	13.4843	80/20	13.4843
965631	AG1-431	199.5595	80/20	199.5595
965691	AG1-437 C O1	50.6808	80/20	50.6808
965701	AG1-438 C O1	50.6808	80/20	50.6808
965741	AG1-442 O1	29.5638	80/20	29.5638
965751	AG1-443 O1	29.5638	80/20	29.5638
966801	AG1-551 C	2.7061	80/20	2.7061
966931	AG1-431A	149.9320	80/20	149.9320
WEC	WEC	0.0435	Confirmed LTF	0.0435
LGEE	LGEE	0.0886	Confirmed LTF	0.0886
CPL	CPL	0.6477	Confirmed LTF	0.6477
CBM-W2	CBM-W2	2.0518	Confirmed LTF	2.0518
NY	NY	0.0680	Confirmed LTF	0.0680
TVA	TVA	0.3934	Confirmed LTF	0.3934
SIGE	SIGE	0.0310	Confirmed LTF	0.0310
CBM-S2	CBM-S2	6.6712	Confirmed LTF	6.6712
CBM-S1	CBM-S1	0.0973	Confirmed LTF	0.0973
MEC	MEC	0.2701	Confirmed LTF	0.2701
LAGN	LAGN	0.4935	Confirmed LTF	0.4935
CBM-W1	CBM-W1	1.8086	Confirmed LTF	1.8086

11.6.6 Index 6

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168524181	313713	6SWAMP	DVP	314648	6SUNBURY	DVP	1	DVP_P1-2: LN 2020	single	984.18	100.06	101.48	DC	13.98

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
168524064	313714	6PERQUIMANS	DVP	314662	6S HERTFORD	DVP	1	Base Case	single	733.2	144.64	146.88	DC	16.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1246	80/20	2.1246
313719	3CHESTNUT	0.5151	80/20	0.5151
314582	3KELFORD	0.2329	80/20	0.2329
314589	3MURPHYS	0.0369	80/20	0.0369
314623	3WITAKRS	0.0937	80/20	0.0937
315126	1ROARAP2	0.5104	80/20	0.5104
315128	1ROARAP4	0.4870	80/20	0.4870
315131	1EDGE CMA (Deactivation : 22/04/2019)	4.0994	80/20	4.0994
315132	1EDGE CMB (Deactivation : 22/04/2019)	4.0994	80/20	4.0994
315136	1ROSEMG1	0.8630	80/20	0.8630
315137	1ROSEMS1	0.5351	80/20	0.5351
315138	1ROSEMG2	0.4045	80/20	0.4045
315139	1GASTONA	1.2433	80/20	1.2433
315141	1GASTONB	1.2433	80/20	1.2433
315292	1DOMTR78	2.6036	80/20	2.6036
315293	1DOMTR9	13.4660	80/20	13.4660
315294	1DOMTR10	16.5025	80/20	16.5025
315601	1CONETOE2SOL	0.8384	80/20	0.8384
315602	1HOLLOMANSOL	1.2173	80/20	1.2173
315606	3AA2-053SOLA	0.6446	80/20	0.6446
315607	3AA1-063SOLA	0.4717	80/20	0.4717
315611	6Z1-036WIND	4.3262	80/20	4.3262
315614	AA2-178 C	4.4654	80/20	4.4654
316020	AB2-059 C OP	0.7145	80/20	0.7145
316087	AB2-174 C	0.3326	80/20	0.3326
316140	AB2-099 C (Suspended)	0.3830	80/20	0.3830
920591	AA2-165 C	0.0691	80/20	0.0691
922922	AB1-081 C OP	0.6063	80/20	0.6063
923991	AB2-040 C O1	2.3140	80/20	2.3140
925121	AB2-169 C	1.6118	80/20	1.6118
925591	AC1-034 C	2.9335	80/20	2.9335
926070	AC1-086 C	8.8619	80/20	8.8619
926201	AC1-098 C	3.2208	80/20	3.2208
926211	AC1-099 C	1.0793	80/20	1.0793
927024	AC1-189 C	5.8761	80/20	5.8761
927145	AC1-208 C	4.1533	80/20	4.1533
932631	AC2-084 C	4.5914	80/20	4.5914
933991	AD1-023 C	25.2059	80/20	25.2059
934331	AD1-057 C O1	4.3272	80/20	4.3272
934521	AD1-076 C	124.5182	80/20	124.5182

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936401	AD2-051 C O1	7.4382	80/20	7.4382
938221	AE1-035 C	0.3044	80/20	0.3044
940491	AE2-034 C	21.2276	80/20	21.2276
940571	AE2-044 C	1.9214	80/20	1.9214
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1247	80/20	0.1247
943171	AE2-346 C	0.9192	80/20	0.9192
944141	AF1-082	1.2352	80/20	1.2352
945711	AF1-236 C O1	232.3921	80/20	232.3921
957521	AF2-046 C	7.9171	80/20	7.9171
957531	AF2-047 C	50.4409	80/20	50.4409
957861	AF2-080 C	5.3369	80/20	5.3369
959511	AF2-242 C	9.7380	80/20	9.7380
961671	AG1-007 C	0.7133	80/20	0.7133
961681	AG1-008 C	7.9330	80/20	7.9330
961931	AG1-036 C	0.7722	80/20	0.7722
961941	AG1-037 C	0.3283	80/20	0.3283
962331	AG1-082 C	1.3132	80/20	1.3132
962341	AG1-083 C	1.3132	80/20	1.3132
962351	AG1-084 C	1.2770	80/20	1.2770
962361	AG1-085 C	1.2770	80/20	1.2770
962571	AG1-106 C	2.4644	80/20	2.4644
964491	AG1-312 C O1	18.8485	80/20	18.8485
964501	AG1-313 C O1	2.3791	80/20	2.3791
964801	AG1-343 C	1.8896	80/20	1.8896
965291	AG1-394 C	0.6020	80/20	0.6020
965631	AG1-431	134.5428	80/20	134.5428
965691	AG1-437 C O1	16.4232	80/20	16.4232
965701	AG1-438 C O1	16.4232	80/20	16.4232
965711	AG1-439 C O1	15.0405	80/20	15.0405
965741	AG1-442 O1	9.5802	80/20	9.5802
965751	AG1-443 O1	9.5802	80/20	9.5802
965761	AG1-444 O1	8.0216	80/20	8.0216
966801	AG1-551 C	2.4609	80/20	2.4609
966811	AG1-552 C	0.8103	80/20	0.8103
966931	AG1-431A	101.0840	80/20	101.0840
WEC	WEC	0.1518	Confirmed LTF	0.1518
LGEE	LGEE	0.3098	Confirmed LTF	0.3098
CPL	CPL	1.7581	Confirmed LTF	1.7581
CBM-W2	CBM-W2	6.5139	Confirmed LTF	6.5139
NY	NY	0.1477	Confirmed LTF	0.1477
TVA	TVA	1.2166	Confirmed LTF	1.2166
SIGE	SIGE	0.0886	Confirmed LTF	0.0886
CBM-S2	CBM-S2	18.9277	Confirmed LTF	18.9277
CBM-S1	CBM-S1	0.3044	Confirmed LTF	0.3044
MEC	MEC	0.9010	Confirmed LTF	0.9010
LAGN	LAGN	1.5190	Confirmed LTF	1.5190
CBM-W1	CBM-W1	6.4071	Confirmed LTF	6.4071

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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
163345965	313725	6DRY BREAD	DVP	314563	6CLUBHSE	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	196.96	199.76	DC	12.82

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	1HOLLOMAN SOL	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
CPLE	CPLE	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

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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
163836132	313845	6HATHAWAY	DVP	304222	6ROCKYMT230T	CPLE	1	DVP_P1-2: LN 2181	single	478.0	120.0	121.3	DC	6.19

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

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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
168524187	313851	6ECITYDP2	DVP	314638	6ELIZ CT	DVP	1	DVP_P1-2: LN 247	single	984.18	103.89	105.29	DC	13.8

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

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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
168524089	313885	6WALBMRL	DVP	313714	6PERQUIMANS	DVP	1	Base Case	single	733.2	139.77	142.01	DC	16.44

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1331	80/20	2.1331
313719	3CHESTNUT	0.5165	80/20	0.5165
314582	3KELFORD	0.2333	80/20	0.2333
314589	3MURPHYS	0.0370	80/20	0.0370
314623	3WITAKRS	0.0940	80/20	0.0940
315126	1ROARAP2	0.5120	80/20	0.5120
315128	1ROARAP4	0.4886	80/20	0.4886
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315136	1ROSEMG1	0.8655	80/20	0.8655
315137	1ROSEMS1	0.5367	80/20	0.5367
315138	1ROSEMG2	0.4057	80/20	0.4057
315139	1GASTONA	1.2468	80/20	1.2468
315141	1GASTONB	1.2468	80/20	1.2468
315292	1DOMTR78	2.6052	80/20	2.6052
315293	1DOMTR9	13.4746	80/20	13.4746
315294	1DOMTR10	16.5130	80/20	16.5130
315601	1CONETOE2SOL	0.8402	80/20	0.8402
315602	1HOLLOMANSOL	1.2190	80/20	1.2190
315606	3AA2-053SOLA	0.6464	80/20	0.6464
315607	3AA1-063SOLA	0.4733	80/20	0.4733
315614	AA2-178 C	4.4673	80/20	4.4673
316020	AB2-059 C OP	0.7167	80/20	0.7167
316087	AB2-174 C	0.3340	80/20	0.3340
316140	AB2-099 C (Suspended)	0.3837	80/20	0.3837
920591	AA2-165 C	0.0693	80/20	0.0693
922922	AB1-081 C OP	0.6081	80/20	0.6081
923991	AB2-040 C O1	2.3232	80/20	2.3232
925121	AB2-169 C	1.6131	80/20	1.6131
925591	AC1-034 C	2.9425	80/20	2.9425
926070	AC1-086 C	8.8866	80/20	8.8866
926201	AC1-098 C	3.2283	80/20	3.2283
926211	AC1-099 C	1.0818	80/20	1.0818
927024	AC1-189 C	5.8874	80/20	5.8874
927145	AC1-208 C	4.1650	80/20	4.1650
932631	AC2-084 C	4.6021	80/20	4.6021
933991	AD1-023 C	25.2222	80/20	25.2222
934331	AD1-057 C O1	4.3394	80/20	4.3394
934521	AD1-076 C	124.5855	80/20	124.5855
936401	AD2-051 C O1	7.4492	80/20	7.4492

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938221	AE1-035 C	0.3048	80/20	0.3048
940491	AE2-034 C	21.2365	80/20	21.2365
940571	AE2-044 C	1.9272	80/20	1.9272
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1250	80/20	0.1250
943171	AE2-346 C	0.9210	80/20	0.9210
944141	AF1-082	1.2389	80/20	1.2389
945711	AF1-236 C O1	232.4887	80/20	232.4887
957521	AF2-046 C	7.9381	80/20	7.9381
957531	AF2-047 C	50.4619	80/20	50.4619
957861	AF2-080 C	5.3471	80/20	5.3471
959511	AF2-242 C	9.7474	80/20	9.7474
961671	AG1-007 C	0.7149	80/20	0.7149
961681	AG1-008 C	7.9540	80/20	7.9540
961931	AG1-036 C	0.7739	80/20	0.7739
961941	AG1-037 C	0.3289	80/20	0.3289
962331	AG1-082 C	1.3157	80/20	1.3157
962341	AG1-083 C	1.3157	80/20	1.3157
962351	AG1-084 C	1.2792	80/20	1.2792
962361	AG1-085 C	1.2792	80/20	1.2792
962571	AG1-106 C	2.4713	80/20	2.4713
964491	AG1-312 C O1	18.8709	80/20	18.8709
964501	AG1-313 C O1	2.3849	80/20	2.3849
964801	AG1-343 C	1.8970	80/20	1.8970
965291	AG1-394 C	0.6046	80/20	0.6046
965631	AG1-431	134.5987	80/20	134.5987
965691	AG1-437 C O1	16.4358	80/20	16.4358
965701	AG1-438 C O1	16.4358	80/20	16.4358
965711	AG1-439 C O1	15.0720	80/20	15.0720
965741	AG1-442 O1	9.5876	80/20	9.5876
965751	AG1-443 O1	9.5876	80/20	9.5876
965761	AG1-444 O1	8.0384	80/20	8.0384
966801	AG1-551 C	2.4639	80/20	2.4639
966811	AG1-552 C	0.8130	80/20	0.8130
966931	AG1-431A	101.1260	80/20	101.1260
WEC	WEC	0.1581	Confirmed LTF	0.1581
LGEE	LGEE	0.3223	Confirmed LTF	0.3223
CPL	CPL	1.7718	Confirmed LTF	1.7718
CBM-W2	CBM-W2	6.6931	Confirmed LTF	6.6931
NY	NY	0.1366	Confirmed LTF	0.1366
TVA	TVA	1.2446	Confirmed LTF	1.2446
SIGE	SIGE	0.0886	Confirmed LTF	0.0886
CBM-S2	CBM-S2	19.1365	Confirmed LTF	19.1365
CBM-S1	CBM-S1	0.3120	Confirmed LTF	0.3120
MEC	MEC	0.9327	Confirmed LTF	0.9327
LAGN	LAGN	1.5540	Confirmed LTF	1.5540
CBM-W1	CBM-W1	6.6875	Confirmed LTF	6.6875

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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
168829200	314203	6MACKEYS	DVP	314637	6EDENTON	DVP	1	Base Case	single	731.32	140.12	142.36	DC	16.44

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1331	80/20	2.1331
313719	3CHESTNUT	0.5165	80/20	0.5165
314582	3KELFORD	0.2333	80/20	0.2333
314589	3MURPHYS	0.0370	80/20	0.0370
314623	3WITAKRS	0.0940	80/20	0.0940
315126	1ROARAP2	0.5120	80/20	0.5120
315128	1ROARAP4	0.4886	80/20	0.4886
315131	1EDGE CMA (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315132	1EDGE CMB (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315136	1ROSEMG1	0.8655	80/20	0.8655
315137	1ROSEMS1	0.5367	80/20	0.5367
315138	1ROSEMG2	0.4057	80/20	0.4057
315139	1GASTONA	1.2468	80/20	1.2468
315141	1GASTONB	1.2468	80/20	1.2468
315292	1DOMTR78	2.6052	80/20	2.6052
315293	1DOMTR9	13.4746	80/20	13.4746
315294	1DOMTR10	16.5130	80/20	16.5130
315601	1CONETOE2SOL	0.8402	80/20	0.8402
315602	1HOLLOMANSOL	1.2190	80/20	1.2190
315606	3AA2-053SOLA	0.6464	80/20	0.6464
315607	3AA1-063SOLA	0.4733	80/20	0.4733
315614	AA2-178 C	4.4673	80/20	4.4673
316020	AB2-059 C OP	0.7167	80/20	0.7167
316087	AB2-174 C	0.3340	80/20	0.3340
316140	AB2-099 C (Suspended)	0.3837	80/20	0.3837
920591	AA2-165 C	0.0693	80/20	0.0693
922922	AB1-081 C OP	0.6081	80/20	0.6081
923991	AB2-040 C O1	2.3232	80/20	2.3232
925121	AB2-169 C	1.6131	80/20	1.6131
925591	AC1-034 C	2.9425	80/20	2.9425
926070	AC1-086 C	8.8866	80/20	8.8866
926201	AC1-098 C	3.2283	80/20	3.2283
926211	AC1-099 C	1.0818	80/20	1.0818
927024	AC1-189 C	5.8874	80/20	5.8874
927145	AC1-208 C	4.1650	80/20	4.1650
932631	AC2-084 C	4.6021	80/20	4.6021
933991	AD1-023 C	25.2222	80/20	25.2222
934331	AD1-057 C O1	4.3394	80/20	4.3394
934521	AD1-076 C	124.5855	80/20	124.5855
936401	AD2-051 C O1	7.4492	80/20	7.4492

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938221	AE1-035 C	0.3048	80/20	0.3048
940491	AE2-034 C	21.2365	80/20	21.2365
940571	AE2-044 C	1.9272	80/20	1.9272
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1250	80/20	0.1250
943171	AE2-346 C	0.9210	80/20	0.9210
944141	AF1-082	1.2389	80/20	1.2389
945711	AF1-236 C O1	232.4887	80/20	232.4887
957521	AF2-046 C	7.9381	80/20	7.9381
957531	AF2-047 C	50.4619	80/20	50.4619
957861	AF2-080 C	5.3471	80/20	5.3471
959511	AF2-242 C	9.7474	80/20	9.7474
961671	AG1-007 C	0.7149	80/20	0.7149
961681	AG1-008 C	7.9540	80/20	7.9540
961931	AG1-036 C	0.7739	80/20	0.7739
961941	AG1-037 C	0.3289	80/20	0.3289
962331	AG1-082 C	1.3157	80/20	1.3157
962341	AG1-083 C	1.3157	80/20	1.3157
962351	AG1-084 C	1.2792	80/20	1.2792
962361	AG1-085 C	1.2792	80/20	1.2792
962571	AG1-106 C	2.4713	80/20	2.4713
964491	AG1-312 C O1	18.8709	80/20	18.8709
964501	AG1-313 C O1	2.3849	80/20	2.3849
964801	AG1-343 C	1.8970	80/20	1.8970
965291	AG1-394 C	0.6046	80/20	0.6046
965631	AG1-431	134.5987	80/20	134.5987
965691	AG1-437 C O1	16.4358	80/20	16.4358
965701	AG1-438 C O1	16.4358	80/20	16.4358
965711	AG1-439 C O1	15.0720	80/20	15.0720
965741	AG1-442 O1	9.5876	80/20	9.5876
965751	AG1-443 O1	9.5876	80/20	9.5876
965761	AG1-444 O1	8.0384	80/20	8.0384
966801	AG1-551 C	2.4639	80/20	2.4639
966811	AG1-552 C	0.8130	80/20	0.8130
966931	AG1-431A	101.1260	80/20	101.1260
WEC	WEC	0.1581	Confirmed LTF	0.1581
LGEE	LGEE	0.3223	Confirmed LTF	0.3223
CPL	CPL	1.7718	Confirmed LTF	1.7718
CBM-W2	CBM-W2	6.6931	Confirmed LTF	6.6931
NY	NY	0.1366	Confirmed LTF	0.1366
TVA	TVA	1.2446	Confirmed LTF	1.2446
SIGE	SIGE	0.0886	Confirmed LTF	0.0886
CBM-S2	CBM-S2	19.1365	Confirmed LTF	19.1365
CBM-S1	CBM-S1	0.3120	Confirmed LTF	0.3120
MEC	MEC	0.9327	Confirmed LTF	0.9327
LAGN	LAGN	1.5540	Confirmed LTF	1.5540
CBM-W1	CBM-W1	6.6875	Confirmed LTF	6.6875

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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
163346301	314525	6KINGFORK	DVP	314522	6CHCKTUK	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	100.11	100.63	DC	9.49

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.2177	50/50	0.2177
313717	6SLIGO L2192	1.0060	Adder	1.18
314466	6FENTRES	0.9162	Adder	1.08
314525	6KINGFORK	7.5210	50/50	7.5210
314539	3UNCAMP	3.9578	50/50	3.9578
314541	3WATKINS	0.4244	50/50	0.4244
314550	6HICKORY	1.7315	Adder	2.04
314594	6PLYMOTH	0.0452	Adder	0.05
314632	6AYDLETOLD	1.0269	Adder	1.21
314638	6ELIZ CT	0.1272	50/50	0.1272
314639	6TANGLEW	0.2441	50/50	0.2441
315073	1STONECA	-3.0012	Adder	-3.53
315115	1S HAMPT1	0.8803	50/50	0.8803
315293	1DOMTR9	3.1694	Adder	3.73
315294	1DOMTR10	3.8841	Adder	4.57
315605	6W1-029WIND	0.7644	50/50	0.7644
315611	6Z1-036WIND	0.7022	50/50	0.7022
315614	AA2-178 C	0.9203	50/50	0.9203
316103	AB2-015 C	5.4510	50/50	5.4510
316104	AB2-015 E	4.4698	50/50	4.4698
316132	AB2-190 C	-16.0088	Adder	-18.83
316140	AB2-099 C (Suspended)	0.2537	Adder	0.3
316141	AB2-099 E (Suspended)	0.1087	Adder	0.13
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.4786	50/50	0.4786
316151	AD2-215 E (Withdrawn : 01/14/2021)	1.6095	50/50	1.6095
900672	V4-068 E	0.1316	Adder	0.15
901082	W1-029 E	32.4266	50/50	32.4266
913392	Y1-086 E	1.3159	50/50	1.3159
916042	Z1-036 E (Suspended)	29.8196	50/50	29.8196
916192	Z1-068 E	0.7775	Adder	0.91
917122	Z2-027 E	0.6631	50/50	0.6631
917332	Z2-043 E	0.4161	Adder	0.49
918492	AA1-063AE OP	1.3990	Adder	1.65
918512	AA1-065 E OP	1.8597	Adder	2.19
918532	AA1-067 E	0.2595	Adder	0.31
919152	AA1-139 E	2.8880	Adder	3.4
920042	AA2-088 E OP	4.8047	Adder	5.65
920692	AA2-178 E	2.4998	50/50	2.4998
923832	AB2-022 E	0.7428	50/50	0.7428
925122	AB2-169 E	2.4800	Adder	2.92

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925522	AC1-027 E	0.4731	Adder	0.56
926662	AC1-147 E	0.5175	Adder	0.61
932044	AC2-012 C	3.9865	Adder	4.69
932046	AC2-012 E	6.5042	Adder	7.65
932591	AC2-079 C O1	2.1563	Adder	2.54
932592	AC2-079 E O1	3.5182	Adder	4.14
933732	AC2-196 E	0.4922	Adder	0.58
933991	AD1-023 C	6.3667	Adder	7.49
933992	AD1-023 E	3.4661	Adder	4.08
934061	AD1-033 C	3.1095	Adder	3.66
934062	AD1-033 E	2.0730	Adder	2.44
934521	AD1-076 C	26.7825	Adder	31.51
934522	AD1-076 E	13.6376	Adder	16.04
935111	AD1-144 C	0.4737	50/50	0.4737
935112	AD1-144 E	1.6405	50/50	1.6405
936401	AD2-051 C O1	4.0113	Adder	4.72
936402	AD2-051 E O1	1.7224	Adder	2.03
936661	AD2-085 C	2.0268	50/50	2.0268
936662	AD2-085 E	3.3068	50/50	3.3068
937221	AD2-160 C O1	2.5717	Adder	3.03
937222	AD2-160 E O1	1.3485	Adder	1.59
938222	AE1-035 E	0.5114	Adder	0.6
938535	AE1-072 C	8.1297	Adder	9.56
938536	AE1-072 E	4.1880	Adder	4.93
938771	AE1-103 C	2.4713	50/50	2.4713
938772	AE1-103 E	3.4127	50/50	3.4127
939431	AE1-175 C	-0.7341	Adder	-0.86
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	66.5206	Adder	78.26
940491	AE2-034 C	4.3747	50/50	4.3747
940492	AE2-034 E	1.8749	50/50	1.8749
940891	AE2-078 C	-2.7730	Adder	-3.26
940901	AE2-079 C	-2.7730	Adder	-3.26
941101	AE2-104 C O1	2.6462	50/50	2.6462
941102	AE2-104 E O1	4.2070	50/50	4.2070
941281	AE2-122 C O1	11.8074	Adder	13.89
941282	AE2-122 E O1	47.6457	Adder	56.05
941291	AE2-123 C O1	12.1343	Adder	14.28
941292	AE2-123 E O1	47.3187	Adder	55.67
941301	AE2-124 C O1	11.0977	Adder	13.06
941302	AE2-124 E O1	48.6954	Adder	57.29
941501	AE2-147 C	11.1816	50/50	11.1816
941502	AE2-147 E	7.4544	50/50	7.4544
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2516	Adder	0.3
941591	AE2-156 O1	6.9088	Adder	8.13
942131	AE2-225 C	1.9640	50/50	1.9640
942132	AE2-225 E	1.3094	50/50	1.3094
942171	AE2-229 C	1.4730	50/50	1.4730
942172	AE2-229 E	0.9820	50/50	0.9820
942341	AE2-247 C	0.8742	50/50	0.8742
942342	AE2-247 E	1.2072	50/50	1.2072
942401	AE2-253 C	2.7049	Adder	3.18

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942402	AE2-253 E	1.2153	Adder	1.43
942552	AE2-270 BAT	26.8560	50/50	26.8560
943171	AE2-346 C	0.6090	Adder	0.72
943172	AE2-346 E	0.2610	Adder	0.31
943461	AF1-017 C	0.7909	50/50	0.7909
943462	AF1-017 E	1.2905	50/50	1.2905
943611	AF1-032 C	1.6040	50/50	1.6040
943612	AF1-032 E	0.8511	50/50	0.8511
943621	AF1-033 C	-2.7730	Adder	-3.26
944581	AF1-123 C O1	16.7189	Adder	19.67
944582	AF1-123 E O1	38.2816	Adder	45.04
944591	AF1-124 C O1	16.7189	Adder	19.67
944592	AF1-124 E O1	38.2816	Adder	45.04
944601	AF1-125 C O1	16.7189	Adder	19.67
944602	AF1-125 E O1	38.2816	Adder	45.04
944871	AF1-152 C	3.7272	50/50	3.7272
944872	AF1-152 E	2.4848	50/50	2.4848
945363	AF1-201 BAT	2.1426	50/50	2.1426
945711	AF1-236 C O1	47.8928	50/50	47.8928
945712	AF1-236 E O1	29.5814	50/50	29.5814
957491	AF2-043 C	1.9640	50/50	1.9640
957492	AF2-043 E	1.3094	50/50	1.3094
957521	AF2-046 C	7.3861	Adder	8.69
957522	AF2-046 E	3.7153	Adder	4.37
957531	AF2-047 C	10.3952	50/50	10.3952
957532	AF2-047 E	5.2288	50/50	5.2288
957631	AF2-057	1.3988	Adder	1.65
957821	AF2-076 C	4.7130	50/50	4.7130
957822	AF2-076 E	3.1420	50/50	3.1420
957871	AF2-081 C	4.4925	Adder	5.29
957872	AF2-081 E	1.9254	Adder	2.27
958161	AF2-110 C	1.0909	50/50	1.0909
958162	AF2-110 E	1.7063	50/50	1.7063
959511	AF2-242 C	2.9831	Adder	3.51
959512	AF2-242 E	2.3202	Adder	2.73
961091	AF2-400 C	0.2944	50/50	0.2944
961092	AF2-400 E	0.4830	50/50	0.4830
961612	AG1-000B BAT	18.6563	50/50	18.6563
961681	AG1-008 C	3.9225	Adder	8.71
961682	AG1-008 E	1.9613	Adder	4.35
961691	AG1-009 BAT	11.2722	50/50	11.2722
961712	AG1-011 BAT	30.0592	50/50	30.0592
961851	AG1-027 C	12.6710	50/50	12.6710
961852	AG1-027 E	7.0045	50/50	7.0045
961931	AG1-036 C	0.3143	Adder	0.7
961932	AG1-036 E	0.2095	Adder	0.47
961941	AG1-037 C	0.1153	Adder	0.26
961942	AG1-037 E	0.0768	Adder	0.17
962331	AG1-082 C	0.4611	Adder	1.02
962332	AG1-082 E	0.3074	Adder	0.68
962341	AG1-083 C	0.4611	Adder	1.02
962342	AG1-083 E	0.3074	Adder	0.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962351	AG1-084 C	0.4000	Adder	0.89
962352	AG1-084 E	0.2667	Adder	0.59
962361	AG1-085 C	0.4000	Adder	0.89
962362	AG1-085 E	0.2667	Adder	0.59
963821	AG1-235 C O1	5.4395	Adder	12.07
963822	AG1-235 E O1	3.6263	Adder	8.05
964491	AG1-312 C O1	4.6354	Adder	10.29
964492	AG1-312 E O1	1.1588	Adder	2.57
964501	AG1-313 C O1	0.8276	Adder	1.84
964502	AG1-313 E O1	0.5517	Adder	1.22
964801	AG1-343 C	1.3964	Adder	3.1
964802	AG1-343 E	1.0971	Adder	2.44
964951	AG1-359 O1	5.8750	Adder	13.04
965001	AG1-364 C O1	1.4675	Adder	3.26
965002	AG1-364 E O1	2.2013	Adder	4.89
965181	AG1-383 C	0.6175	Adder	1.37
965182	AG1-383 E	0.1829	Adder	0.41
965291	AG1-394 C	0.4800	Adder	1.07
965292	AG1-394 E	0.3200	Adder	0.71
965631	AG1-431	27.7274	50/50	27.7274
965691	AG1-437 C O1	2.5660	Adder	5.7
965692	AG1-437 E O1	1.7106	Adder	3.8
965701	AG1-438 C O1	2.5660	Adder	5.7
965702	AG1-438 E O1	1.7106	Adder	3.8
965741	AG1-442 O1	1.4968	Adder	3.32
965751	AG1-443 O1	1.4968	Adder	3.32
966491	AG1-518 O1	8.1835	50/50	8.1835
966801	AG1-551 C	0.4617	Adder	1.02
966802	AG1-551 E	0.1979	Adder	0.44
966931	AG1-431A	20.8320	50/50	20.8320
WEC	WEC	0.2107	Confirmed LTF	0.2107
LGEE	LGEE	0.4279	Confirmed LTF	0.4279
CPL	CPL	1.7370	Confirmed LTF	1.7370
CBM-W2	CBM-W2	8.2074	Confirmed LTF	8.2074
NY	NY	0.0553	Confirmed LTF	0.0553
TVA	TVA	1.4840	Confirmed LTF	1.4840
O-066	O-066	1.0364	Confirmed LTF	1.0364
SIGE	SIGE	0.0911	Confirmed LTF	0.0911
CBM-S2	CBM-S2	20.3998	Confirmed LTF	20.3998
CBM-S1	CBM-S1	0.3766	Confirmed LTF	0.3766
G-007	G-007	0.1648	Confirmed LTF	0.1648
MEC	MEC	1.1981	Confirmed LTF	1.1981
LAGN	LAGN	1.8497	Confirmed LTF	1.8497
CBM-W1	CBM-W1	9.0149	Confirmed LTF	9.0149

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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
163346289	314537	6SUFFOLK	DVP	314525	6KINGFORK	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	101.53	102.05	DC	9.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.2179	50/50	0.2179
313717	6SLIGO L2192	1.0070	Adder	1.18
314466	6FENTRES	0.9173	Adder	1.08
314539	3UNCAMP	3.9617	50/50	3.9617
314541	3WATKINS	0.4248	50/50	0.4248
314550	6HICKORY	1.7335	Adder	2.04
314594	6PLYMOTH	0.0452	Adder	0.05
314632	6AYDLETOLD	1.0279	Adder	1.21
314638	6ELIZ CT	0.1274	50/50	0.1274
314639	6TANGLEW	0.2443	50/50	0.2443
315073	1STONECA	-2.9980	Adder	-3.53
315115	1S HAMPT1	0.8812	50/50	0.8812
315293	1DOMTR9	3.1729	Adder	3.73
315294	1DOMTR10	3.8883	Adder	4.57
315605	6W1-029WIND	0.7651	50/50	0.7651
315611	6Z1-036WIND	0.7028	50/50	0.7028
315614	AA2-178 C	0.9211	50/50	0.9211
316103	AB2-015 C	5.4560	50/50	5.4560
316104	AB2-015 E	4.4739	50/50	4.4739
316132	AB2-190 C	-15.9993	Adder	-18.82
316140	AB2-099 C (Suspended)	0.2540	Adder	0.3
316141	AB2-099 E (Suspended)	0.1089	Adder	0.13
900672	V4-068 E	0.1318	Adder	0.16
901082	W1-029 E	32.4527	50/50	32.4527
913392	Y1-086 E	1.3171	50/50	1.3171
916042	Z1-036 E (Suspended)	29.8457	50/50	29.8457
916192	Z1-068 E	0.7783	Adder	0.92
917122	Z2-027 E	0.6637	50/50	0.6637
917332	Z2-043 E	0.4167	Adder	0.49
918512	AA1-065 E OP	1.8617	Adder	2.19
919152	AA1-139 E	2.8911	Adder	3.4
920042	AA2-088 E OP	4.8099	Adder	5.66
920692	AA2-178 E	2.5022	50/50	2.5022
923832	AB2-022 E	0.7435	50/50	0.7435
925122	AB2-169 E	2.4829	Adder	2.92
925522	AC1-027 E	0.4737	Adder	0.56
926662	AC1-147 E	0.5182	Adder	0.61
932044	AC2-012 C	3.9913	Adder	4.7
932046	AC2-012 E	6.5121	Adder	7.66
932591	AC2-079 C O1	2.1591	Adder	2.54
932592	AC2-079 E O1	3.5227	Adder	4.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933732	AC2-196 E	0.4927	Adder	0.58
933991	AD1-023 C	6.3733	Adder	7.5
933992	AD1-023 E	3.4697	Adder	4.08
934061	AD1-033 C	3.1134	Adder	3.66
934062	AD1-033 E	2.0756	Adder	2.44
934521	AD1-076 C	26.8097	Adder	31.54
934522	AD1-076 E	13.6515	Adder	16.06
936401	AD2-051 C O1	4.0157	Adder	4.72
936402	AD2-051 E O1	1.7243	Adder	2.03
936661	AD2-085 C	2.0287	50/50	2.0287
936662	AD2-085 E	3.3100	50/50	3.3100
937221	AD2-160 C O1	2.5744	Adder	3.03
937222	AD2-160 E O1	1.3500	Adder	1.59
938222	AE1-035 E	0.5120	Adder	0.6
938535	AE1-072 C	8.1390	Adder	9.58
938536	AE1-072 E	4.1928	Adder	4.93
938771	AE1-103 C	2.4734	50/50	2.4734
938772	AE1-103 E	3.4156	50/50	3.4156
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	66.6028	Adder	78.36
940491	AE2-034 C	4.3789	50/50	4.3789
940492	AE2-034 E	1.8767	50/50	1.8767
940891	AE2-078 C	-2.7719	Adder	-3.26
940901	AE2-079 C	-2.7719	Adder	-3.26
941101	AE2-104 C O1	2.6480	50/50	2.6480
941102	AE2-104 E O1	4.2100	50/50	4.2100
941281	AE2-122 C O1	11.8222	Adder	13.91
941282	AE2-122 E O1	47.7056	Adder	56.12
941291	AE2-123 C O1	12.1496	Adder	14.29
941292	AE2-123 E O1	47.3782	Adder	55.74
941301	AE2-124 C O1	11.1103	Adder	13.07
941302	AE2-124 E O1	48.7508	Adder	57.35
941501	AE2-147 C	11.1906	50/50	11.1906
941502	AE2-147 E	7.4604	50/50	7.4604
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2519	Adder	0.3
941591	AE2-156 O1	6.9173	Adder	8.14
942131	AE2-225 C	1.9652	50/50	1.9652
942132	AE2-225 E	1.3102	50/50	1.3102
942171	AE2-229 C	1.4739	50/50	1.4739
942172	AE2-229 E	0.9826	50/50	0.9826
942341	AE2-247 C	0.8750	50/50	0.8750
942342	AE2-247 E	1.2084	50/50	1.2084
942401	AE2-253 C	2.7079	Adder	3.19
942402	AE2-253 E	1.2166	Adder	1.43
942552	AE2-270 BAT	26.8410	50/50	26.8410
943171	AE2-346 C	0.6097	Adder	0.72
943172	AE2-346 E	0.2613	Adder	0.31
943461	AF1-017 C	0.7917	50/50	0.7917
943462	AF1-017 E	1.2917	50/50	1.2917
943611	AF1-032 C	1.6049	50/50	1.6049
943612	AF1-032 E	0.8516	50/50	0.8516
943621	AF1-033 C	-2.7719	Adder	-3.26

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
944581	AF1-123 C O1	16.7439	Adder	19.7
944582	AF1-123 E O1	38.3388	Adder	45.1
944591	AF1-124 C O1	16.7439	Adder	19.7
944592	AF1-124 E O1	38.3388	Adder	45.1
944601	AF1-125 C O1	16.7439	Adder	19.7
944602	AF1-125 E O1	38.3388	Adder	45.1
944871	AF1-152 C	3.7302	50/50	3.7302
944872	AF1-152 E	2.4868	50/50	2.4868
945363	AF1-201 BAT	2.1406	50/50	2.1406
945711	AF1-236 C O1	47.9387	50/50	47.9387
945712	AF1-236 E O1	29.6098	50/50	29.6098
957491	AF2-043 C	1.9652	50/50	1.9652
957492	AF2-043 E	1.3102	50/50	1.3102
957521	AF2-046 C	7.3946	Adder	8.7
957522	AF2-046 E	3.7195	Adder	4.38
957531	AF2-047 C	10.4051	50/50	10.4051
957532	AF2-047 E	5.2339	50/50	5.2339
957631	AF2-057	1.4005	Adder	1.65
957821	AF2-076 C	4.7160	50/50	4.7160
957822	AF2-076 E	3.1440	50/50	3.1440
957871	AF2-081 C	4.4972	Adder	5.29
957872	AF2-081 E	1.9274	Adder	2.27
958161	AF2-110 C	1.0917	50/50	1.0917
958162	AF2-110 E	1.7075	50/50	1.7075
959511	AF2-242 C	2.9869	Adder	3.51
959512	AF2-242 E	2.3232	Adder	2.73
961091	AF2-400 C	0.2946	50/50	0.2946
961092	AF2-400 E	0.4834	50/50	0.4834
961612	AG1-000B BAT	18.6480	50/50	18.6480
961681	AG1-008 C	3.9270	Adder	8.72
961682	AG1-008 E	1.9635	Adder	4.36
961691	AG1-009 BAT	11.2662	50/50	11.2662
961712	AG1-011 BAT	30.0432	50/50	30.0432
961851	AG1-027 C	12.6807	50/50	12.6807
961852	AG1-027 E	7.0098	50/50	7.0098
961931	AG1-036 C	0.3147	Adder	0.7
961932	AG1-036 E	0.2098	Adder	0.47
961941	AG1-037 C	0.1154	Adder	0.26
961942	AG1-037 E	0.0769	Adder	0.17
962331	AG1-082 C	0.4616	Adder	1.02
962332	AG1-082 E	0.3077	Adder	0.68
962341	AG1-083 C	0.4616	Adder	1.02
962342	AG1-083 E	0.3077	Adder	0.68
962351	AG1-084 C	0.4005	Adder	0.89
962352	AG1-084 E	0.2670	Adder	0.59
962361	AG1-085 C	0.4005	Adder	0.89
962362	AG1-085 E	0.2670	Adder	0.59
963821	AG1-235 C O1	5.4456	Adder	12.09
963822	AG1-235 E O1	3.6304	Adder	8.06
964491	AG1-312 C O1	4.6404	Adder	10.3
964492	AG1-312 E O1	1.1601	Adder	2.58
964801	AG1-343 C	1.3981	Adder	3.1

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964802	AG1-343 E	1.0985	Adder	2.44
964951	AG1-359 O1	5.8817	Adder	13.06
965001	AG1-364 C O1	1.4695	Adder	3.26
965002	AG1-364 E O1	2.2043	Adder	4.89
965181	AG1-383 C	0.6182	Adder	1.37
965182	AG1-383 E	0.1831	Adder	0.41
965291	AG1-394 C	0.4805	Adder	1.07
965292	AG1-394 E	0.3204	Adder	0.71
965631	AG1-431	27.7540	50/50	27.7540
965691	AG1-437 C O1	2.5687	Adder	5.7
965692	AG1-437 E O1	1.7124	Adder	3.8
965701	AG1-438 C O1	2.5687	Adder	5.7
965702	AG1-438 E O1	1.7124	Adder	3.8
965741	AG1-442 O1	1.4984	Adder	3.33
965751	AG1-443 O1	1.4984	Adder	3.33
966491	AG1-518 O1	8.1885	50/50	8.1885
966801	AG1-551 C	0.4624	Adder	1.03
966802	AG1-551 E	0.1982	Adder	0.44
966931	AG1-431A	20.8520	50/50	20.8520
WEC	WEC	0.2139	Confirmed LTF	0.2139
LGEE	LGEE	0.4342	Confirmed LTF	0.4342
CPL	CPL	1.7438	Confirmed LTF	1.7438
CBM-W2	CBM-W2	8.2970	Confirmed LTF	8.2970
NY	NY	0.0498	Confirmed LTF	0.0498
TVA	TVA	1.4980	Confirmed LTF	1.4980
O-066	O-066	0.9691	Confirmed LTF	0.9691
SIGE	SIGE	0.0911	Confirmed LTF	0.0911
CBM-S2	CBM-S2	20.5042	Confirmed LTF	20.5042
CBM-S1	CBM-S1	0.3804	Confirmed LTF	0.3804
G-007	G-007	0.1544	Confirmed LTF	0.1544
MEC	MEC	1.2140	Confirmed LTF	1.2140
LAGN	LAGN	1.8672	Confirmed LTF	1.8672
CBM-W1	CBM-W1	9.1551	Confirmed LTF	9.1551

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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
163836756	314554	3BTLEBRO	DVP	304223	3ROCKYMT115T	CPL	1	DVP_P7-1: LN 2058-2181	tower	164.0	300.46	302.24	DC	6.43

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314582	3KELFORD	0.3112	50/50	0.3112
314623	3WITAKRS	0.5240	50/50	0.5240
315126	1ROARAP2	0.8712	50/50	0.8712
315128	1ROARAP4	0.8314	50/50	0.8314
315131	1EDGECEMA (Deactivation : 22/04/2019)	12.5808	50/50	12.5808
315132	1EDGECEMB (Deactivation : 22/04/2019)	12.5808	50/50	12.5808
315136	1ROSEMG1	1.5086	50/50	1.5086
315137	1ROSEMS1	0.9355	50/50	0.9355
315138	1ROSEMG2	0.7070	50/50	0.7070
315139	1GASTONA	1.9383	50/50	1.9383
315141	1GASTONB	1.9383	50/50	1.9383
315293	1DOMTR9	2.0513	Adder	2.41
315294	1DOMTR10	2.5139	Adder	2.96
315601	1CONETOE2SOL	1.1895	50/50	1.1895
315606	3AA2-053SOLA	0.9246	50/50	0.9246
316020	AB2-059 C OP	4.4268	50/50	4.4268
316088	AB2-174 E	2.8075	Adder	3.3
316097	AB2-100 E1	1.0834	Adder	1.27
316099	AB2-100 E2	1.0834	Adder	1.27
316103	AB2-015 C	2.5912	Adder	3.05
316104	AB2-015 E	2.1248	Adder	2.5
316129	AC1-054 C	2.5555	Adder	3.01
316140	AB2-099 C (Suspended)	0.2729	Adder	0.32
316141	AB2-099 E (Suspended)	0.1170	Adder	0.14
900672	V4-068 E	0.1280	Adder	0.15
917332	Z2-043 E	0.9284	50/50	0.9284
917342	Z2-044 E	1.4235	50/50	1.4235
917512	Z2-088 E OP1	7.0561	50/50	7.0561
918492	AA1-063AE OP	2.0088	Adder	2.36
918512	AA1-065 E OP	1.4796	Adder	1.74
918532	AA1-067 E	0.2544	Adder	0.3
919692	AA2-053 E OP	2.4062	50/50	2.4062
919702	AA2-057 E OP	7.2586	50/50	7.2586
920042	AA2-088 E OP	4.1496	Adder	4.88
920591	AA2-165 C	0.3257	50/50	0.3257
920592	AA2-165 E	0.9976	50/50	0.9976
922922	AB1-081 C OP	3.7561	50/50	3.7561
922923	AB1-081 E OP	10.2031	50/50	10.2031
923262	AB1-132 C OP (Suspended)	9.3820	50/50	9.3820
923263	AB1-132 E OP (Suspended)	4.0208	50/50	4.0208
923573	AB1-173 E OP	0.4862	Adder	0.57
923991	AB2-040 C O1	3.3959	Adder	4.0
923992	AB2-040 E O1	2.7785	Adder	3.27
924152	AB2-059 E OP	14.4544	50/50	14.4544
925122	AB2-169 E	1.8344	Adder	2.16
925591	AC1-034 C	18.1743	50/50	18.1743
925592	AC1-034 E	13.7104	50/50	13.7104
925785	AC1-054 E	1.1772	Adder	1.38
926070	AC1-086 C	13.8161	50/50	13.8161

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
163346040	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	150.35	151.05	DC	13.02

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
169036945	314569	GEARLEYS	DVP	314575	6NUCO TP	DVP	1	DVP_P1-2: LN 2092	single	571.52	221.57	225.45	DC	22.13

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	5.3764	80/20	5.3764
313527	AB2-043 C	0.1797	80/20	0.1797
313719	3CHESTNUT	1.2166	80/20	1.2166
314572	3EMPORIA	0.2919	80/20	0.2919
314582	3KELFORD	0.6058	80/20	0.6058
314589	3MURPHYS	0.0945	80/20	0.0945
314623	3WITAKRS	0.2162	80/20	0.2162
314704	3LAWRENC	0.1658	80/20	0.1658
315115	1S HAMPT1	0.4948	80/20	0.4948
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGE CMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315132	1EDGE CMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6258	80/20	2.6258
315293	1DOMTR9	13.5807	80/20	13.5807
315294	1DOMTR10	16.6430	80/20	16.6430
315601	1CONETOE2SOL	1.7196	80/20	1.7196
315602	1HOLLOMANSOL	3.2518	80/20	3.2518
315606	3AA2-053SOLA	1.6490	80/20	1.6490
315607	3AA1-063SOLA	1.1822	80/20	1.1822
315608	3AA2-088SOLA	0.6872	80/20	0.6872
315611	6Z1-036WIND	2.1843	80/20	2.1843
315614	AA2-178 C	3.1366	80/20	3.1366
316020	AB2-059 C OP	1.5978	80/20	1.5978
316087	AB2-174 C	0.8423	80/20	0.8423
316096	AB2-100 C1	0.5758	80/20	0.5758
316098	AB2-100 C2	0.5758	80/20	0.5758
316129	AC1-054 C	5.2403	80/20	5.2403
316131	AB2-060 C	0.5087	80/20	0.5087
316140	AB2-099 C (Suspended)	1.0074	80/20	1.0074
920591	AA2-165 C	0.1633	80/20	0.1633
922922	AB1-081 C OP	1.3557	80/20	1.3557
923991	AB2-040 C O1	5.8555	80/20	5.8555
924301	AB2-077 C O1 (Suspended)	0.7260	80/20	0.7260
924311	AB2-078 C O1 (Suspended)	0.7260	80/20	0.7260
924321	AB2-079 C O1 (Suspended)	0.7260	80/20	0.7260
925121	AB2-169 C	1.8885	80/20	1.8885
925591	AC1-034 C	6.5600	80/20	6.5600
926070	AC1-086 C	22.3600	80/20	22.3600
926201	AC1-098 C	8.0404	80/20	8.0404
926211	AC1-099 C	2.6944	80/20	2.6944
927024	AC1-189 C	11.8698	80/20	11.8698
927145	AC1-208 C	10.1498	80/20	10.1498
932631	AC2-084 C	11.4618	80/20	11.4618
933991	AD1-023 C	28.1849	80/20	28.1849
934331	AD1-057 C O1	10.1494	80/20	10.1494
934521	AD1-076 C	113.8581	80/20	113.8581
936361	AD2-046 C O1	4.3133	80/20	4.3133
936401	AD2-051 C O1	19.8559	80/20	19.8559

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
163836759	314574	6EVERETS	DVP	304451	6GREENVILLE	CPL	1	DVP_P7-1: LN 2058-2181	tower	478.0	206.4	210.08	DC	17.58

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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	1HOLLOMANSOL	1.5332	50/50	1.5332
315606	3AA2-053SOLA	0.9398	50/50	0.9398
315611	6Z1-036WIND	0.6573	50/50	0.6573
315614	AA2-178 C	1.2997	50/50	1.2997
316088	AB2-174 E	2.7352	Adder	3.22
316097	AB2-100 E1	1.2133	Adder	1.43
316099	AB2-100 E2	1.2133	Adder	1.43
316103	AB2-015 C	3.5908	Adder	4.22
316104	AB2-015 E	2.9445	Adder	3.46
316140	AB2-099 C (Suspended)	0.5180	50/50	0.5180
316141	AB2-099 E (Suspended)	0.2220	50/50	0.2220
900672	V4-068 E	0.2092	50/50	0.2092
901082	W1-029 E	18.7397	Adder	22.05
913392	Y1-086 E	0.7676	Adder	0.9
916042	Z1-036 E (Suspended)	27.9147	50/50	27.9147
917122	Z2-027 E	0.3981	Adder	0.47
917332	Z2-043 E	0.8838	50/50	0.8838
917342	Z2-044 E	0.2085	Adder	0.25
917512	Z2-088 E OP1	12.8742	50/50	12.8742
918492	AA1-063AE OP	2.0182	Adder	2.37
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
169036963	314575	6NUCO TP	DVP	957820	AF2-076 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	212.89	216.77	DC	22.13

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	5.3764	80/20	5.3764
313527	AB2-043 C	0.1797	80/20	0.1797
313719	3CHESTNUT	1.2166	80/20	1.2166
314572	3EMPORIA	0.2919	80/20	0.2919
314582	3KELFORD	0.6058	80/20	0.6058
314589	3MURPHYS	0.0945	80/20	0.0945
314623	3WITAKRS	0.2162	80/20	0.2162
314704	3LAWRENC	0.1658	80/20	0.1658
315115	1S HAMPT1	0.4948	80/20	0.4948
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGE CMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315132	1EDGE CMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6258	80/20	2.6258
315293	1DOMTR9	13.5807	80/20	13.5807
315294	1DOMTR10	16.6430	80/20	16.6430

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
945711	AF1-236 C O1	163.2382	80/20	163.2382
946281	AF1-292 C	0.9810	80/20	0.9810
957491	AF2-043 C	-1.0743	Adder	-1.26
957521	AF2-046 C	20.4271	80/20	20.4271
957531	AF2-047 C	35.4310	80/20	35.4310
957861	AF2-080 C	10.7806	80/20	10.7806
959511	AF2-242 C	13.0307	80/20	13.0307
960081	AF2-299 C	1.6533	80/20	1.6533
961671	AG1-007 C	1.4833	80/20	1.4833
961681	AG1-008 C	20.4680	80/20	20.4680
961931	AG1-036 C	2.0158	80/20	2.0158
961941	AG1-037 C	0.8635	80/20	0.8635
962331	AG1-082 C	3.4540	80/20	3.4540
962341	AG1-083 C	3.4540	80/20	3.4540
962351	AG1-084 C	3.3758	80/20	3.3758
962361	AG1-085 C	3.3758	80/20	3.3758
962571	AG1-106 C	6.2181	80/20	6.2181
963301	AG1-179 C	3.0738	80/20	3.0738
963311	AG1-180	1.4976	80/20	1.4976
964241	AG1-285 C O1	4.2330	80/20	4.2330
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O1	6.1567	80/20	6.1567
964801	AG1-343 C	4.7135	80/20	4.7135
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O1	3.4453	80/20	3.4453
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
169037097	314579	6HORNRTN	DVP	934330	AD1-057 TAP	DVP	1	DVP_P1-2: LN 238-A	single	441.8	127.41	128.42	DC	4.43

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924301	AB2-077 C O1 (Suspended)	0.9127	80/20	0.9127
924311	AB2-078 C O1 (Suspended)	0.9127	80/20	0.9127
924321	AB2-079 C O1 (Suspended)	0.9127	80/20	0.9127
925591	AC1-034 C	-5.3987	Adder	-6.35
925611	AC1-036 C	0.0835	80/20	0.0835
926070	AC1-086 C	44.0310	80/20	44.0310
933991	AD1-023 C	5.1111	80/20	5.1111
934521	AD1-076 C	17.8598	80/20	17.8598
936265	AD2-033 C	5.0333	80/20	5.0333
936361	AD2-046 C O1	4.6268	80/20	4.6268
936401	AD2-051 C O1	5.3076	80/20	5.3076
936485	AD2-063 C	6.4125	80/20	6.4125
938221	AE1-035 C	0.1994	80/20	0.1994
938771	AE1-103 C	1.5408	80/20	1.5408
939181	AE1-148 C	4.5436	80/20	4.5436
940481	AE2-033 C	28.5557	80/20	28.5557
940661	AE2-053 O1	1.6828	80/20	1.6828
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1034	80/20	0.1034
942451	AE2-258	1.0906	80/20	1.0906
942471	AE2-260 C O1	26.5335	80/20	26.5335
943171	AE2-346 C	0.8815	80/20	0.8815
943911	AF1-059	15.7430	80/20	15.7430
946011	AF1-266	23.9033	80/20	23.9033
946281	AF1-292 C	2.3063	80/20	2.3063
957521	AF2-046 C	11.4780	80/20	11.4780
959311	AF2-222 C	5.9580	80/20	5.9580
960081	AF2-299 C	3.8870	80/20	3.8870
961091	AF2-400 C	0.2397	80/20	0.2397
961681	AG1-008 C	11.5010	80/20	11.5010
961891	AG1-030 C	4.7403	80/20	4.7403
961931	AG1-036 C	0.8882	80/20	0.8882
961941	AG1-037 C	0.3148	80/20	0.3148
962331	AG1-082 C	1.2593	80/20	1.2593
962341	AG1-083 C	1.2593	80/20	1.2593
962351	AG1-084 C	1.0590	80/20	1.0590
962361	AG1-085 C	1.0590	80/20	1.0590
962571	AG1-106 C	12.2447	80/20	12.2447
963301	AG1-179 C	6.4075	80/20	6.4075
963311	AG1-180	3.1219	80/20	3.1219
963321	AG1-181 C O1	6.4516	80/20	6.4516
963361	AG1-185 O1	3.1214	80/20	3.1214
964111	AG1-272 C	0.9486	80/20	0.9486
964121	AG1-273 C	0.9486	80/20	0.9486
964131	AG1-274 C	0.9486	80/20	0.9486
964241	AG1-285 C O1	5.4765	80/20	5.4765
964491	AG1-312 C O1	10.1315	80/20	10.1315
964501	AG1-313 C O1	4.4867	80/20	4.4867
964801	AG1-343 C	4.3221	80/20	4.3221
965191	AG1-384 C	0.9486	80/20	0.9486

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965291	AG1-394 C	1.4972	80/20	1.4972
965451	AG1-413 C O1	6.6178	80/20	6.6178
965591	AG1-427 C	5.1711	80/20	5.1711
965601	AG1-428 C O1	5.3491	80/20	5.3491
965691	AG1-437 C O1	4.4274	80/20	4.4274
965701	AG1-438 C O1	4.4274	80/20	4.4274
965721	AG1-440 C	4.6998	80/20	4.6998
965731	AG1-441 C	4.6998	80/20	4.6998
965741	AG1-442 O1	2.5826	80/20	2.5826
965751	AG1-443 O1	2.5826	80/20	2.5826
965771	AG1-445	2.7154	80/20	2.7154
965781	AG1-446	2.7154	80/20	2.7154
966621	AG1-532 C	2.0990	80/20	2.0990
966751	AG1-546 C	14.0055	80/20	14.0055
966811	AG1-552 C	2.5287	80/20	2.5287
G-007A	G-007A	0.2973	Confirmed LTF	0.2973
VFT	VFT	0.7869	Confirmed LTF	0.7869
CALDERWOOD	CALDERWOOD	0.6541	Confirmed LTF	0.6541
PRAIRIE	PRAIRIE	2.2911	Confirmed LTF	2.2911
CHEOAH	CHEOAH	0.6702	Confirmed LTF	0.6702
CBM-N	CBM-N	0.1404	Confirmed LTF	0.1404
COTTONWOOD	COTTONWOOD	2.4423	Confirmed LTF	2.4423
HAMLET	HAMLET	1.4414	Confirmed LTF	1.4414
GIBSON	GIBSON	0.4062	Confirmed LTF	0.4062
BLUEG	BLUEG	1.2534	Confirmed LTF	1.2534
TRIMBLE	TRIMBLE	0.3979	Confirmed LTF	0.3979
CATAWBA	CATAWBA	0.6983	Confirmed LTF	0.6983

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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
163345990	314583	6LAKEVEW	DVP	313725	6DRY BREAD	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	181.14	183.95	DC	12.86

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	1.1225	50/50	1.1225
314539	3UNCAMP	2.0614	Adder	2.43
314541	3WATKINS	0.2795	Adder	0.33
314582	3KELFORD	0.3267	50/50	0.3267
314589	3MURPHYS	0.0638	50/50	0.0638
314594	6PLYMOTH	0.0478	Adder	0.06
314623	3WITAKRS	0.2114	50/50	0.2114
315126	1ROARAP2	1.2818	50/50	1.2818
315128	1ROARAP4	1.2232	50/50	1.2232
315131	1EDGECEMA (Deactivation : 22/04/2019)	13.4751	50/50	13.4751

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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	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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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		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
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
163836120	314591	6NASH	DVP	304226	6PA-RMOUNT#4	CPLE	1	DVP_P1-2: LN 2058	single	478.0	120.33	121.65	DC	6.3

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

11.6.23 Index 23

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169036998	314596	3POPLR C	DVP	314573	3EVERETS	DVP	1	DVP_P1-2: LN 2034-A	single	269.78	146.84	152.83	DC	16.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1359	80/20	0.1359
314638	6ELIZ CT	0.0795	80/20	0.0795
314639	6TANGLEW	0.1666	80/20	0.1666
315292	1DOMTR78	2.9489	80/20	2.9489
315293	1DOMTR9	15.2523	80/20	15.2523
315294	1DOMTR10	18.6915	80/20	18.6915
315605	6W1-029WIND	0.5154	80/20	0.5154
315611	6Z1-036WIND	0.8173	80/20	0.8173
315614	AA2-178 C	1.9294	80/20	1.9294

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925121	AB2-169 C	0.7408	80/20	0.7408
933991	AD1-023 C	20.9075	80/20	20.9075
934521	AD1-076 C	86.2940	80/20	86.2940
940491	AE2-034 C	9.1720	80/20	9.1720
941501	AE2-147 C	7.5384	80/20	7.5384
944871	AF1-152 C	2.5128	80/20	2.5128
945711	AF1-236 C O1	100.4111	80/20	100.4111
957531	AF2-047 C	21.7943	80/20	21.7943
964491	AG1-312 C O1	30.1370	80/20	30.1370
965631	AG1-431	58.1328	80/20	58.1328
965691	AG1-437 C O1	16.1448	80/20	16.1448
965701	AG1-438 C O1	16.1448	80/20	16.1448
965741	AG1-442 O1	9.4178	80/20	9.4178
965751	AG1-443 O1	9.4178	80/20	9.4178
966931	AG1-431A	43.6760	80/20	43.6760
G-007A	G-007A	0.3356	Confirmed LTF	0.3356
VFT	VFT	0.8965	Confirmed LTF	0.8965
CALDERWOOD	CALDERWOOD	0.3365	Confirmed LTF	0.3365
PRAIRIE	PRAIRIE	1.1443	Confirmed LTF	1.1443
CHEOAH	CHEOAH	0.3453	Confirmed LTF	0.3453
CBM-N	CBM-N	0.1632	Confirmed LTF	0.1632
COTTONWOOD	COTTONWOOD	1.2495	Confirmed LTF	1.2495
HAMLET	HAMLET	0.7588	Confirmed LTF	0.7588
GIBSON	GIBSON	0.1993	Confirmed LTF	0.1993
BLUEG	BLUEG	0.6128	Confirmed LTF	0.6128
TRIMBLE	TRIMBLE	0.1942	Confirmed LTF	0.1942
CATAWBA	CATAWBA	0.3626	Confirmed LTF	0.3626

11.6.24 Index 24

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169037007	314614	3TRWBRDG2	DVP	314596	3POPLR C	DVP	1	DVP_P1-2: LN 2034-A	single	285.76	138.28	143.93	DC	16.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1359	80/20	0.1359
314638	6ELIZ CT	0.0795	80/20	0.0795
314639	6TANGLEW	0.1666	80/20	0.1666
315292	1DOMTR78	2.9489	80/20	2.9489
315293	1DOMTR9	15.2523	80/20	15.2523
315294	1DOMTR10	18.6915	80/20	18.6915
315605	6W1-029WIND	0.5154	80/20	0.5154
315611	6Z1-036WIND	0.8173	80/20	0.8173
315614	AA2-178 C	1.9294	80/20	1.9294
925121	AB2-169 C	0.7408	80/20	0.7408
933991	AD1-023 C	20.9075	80/20	20.9075

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934521	AD1-076 C	86.2940	80/20	86.2940
940491	AE2-034 C	9.1720	80/20	9.1720
941501	AE2-147 C	7.5384	80/20	7.5384
944871	AF1-152 C	2.5128	80/20	2.5128
945711	AF1-236 C O1	100.4111	80/20	100.4111
957531	AF2-047 C	21.7943	80/20	21.7943
964491	AG1-312 C O1	30.1370	80/20	30.1370
965631	AG1-431	58.1328	80/20	58.1328
965691	AG1-437 C O1	16.1448	80/20	16.1448
965701	AG1-438 C O1	16.1448	80/20	16.1448
965741	AG1-442 O1	9.4178	80/20	9.4178
965751	AG1-443 O1	9.4178	80/20	9.4178
966931	AG1-431A	43.6760	80/20	43.6760
G-007A	G-007A	0.3356	Confirmed LTF	0.3356
VFT	VFT	0.8965	Confirmed LTF	0.8965
CALDERWOOD	CALDERWOOD	0.3365	Confirmed LTF	0.3365
PRAIRIE	PRAIRIE	1.1443	Confirmed LTF	1.1443
CHEOAH	CHEOAH	0.3453	Confirmed LTF	0.3453
CBM-N	CBM-N	0.1632	Confirmed LTF	0.1632
COTTONWOOD	COTTONWOOD	1.2495	Confirmed LTF	1.2495
HAMLET	HAMLET	0.7588	Confirmed LTF	0.7588
GIBSON	GIBSON	0.1993	Confirmed LTF	0.1993
BLUEG	BLUEG	0.6128	Confirmed LTF	0.6128
TRIMBLE	TRIMBLE	0.1942	Confirmed LTF	0.1942
CATAWBA	CATAWBA	0.3626	Confirmed LTF	0.3626

11.6.25 Index 25

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169037062	314616	6TRWBRDG	DVP	314614	3TRWBRDG2	DVP	1	DVP_P1-2: LN 2034-A	single	182.36	103.32	108.8	DC	10.01

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315293	1DOMTR9	-9.0955	Adder	-10.7
315294	1DOMTR10	-11.1465	Adder	-13.11
315605	6W1-029WIND	0.3202	80/20	0.3202
315611	6Z1-036WIND	0.5071	80/20	0.5071
315614	AA2-178 C	1.1961	80/20	1.1961
933991	AD1-023 C	12.9573	80/20	12.9573
934521	AD1-076 C	53.4799	80/20	53.4799
940491	AE2-034 C	5.6860	80/20	5.6860
941501	AE2-147 C	4.6836	80/20	4.6836
944871	AF1-152 C	1.5612	80/20	1.5612
945711	AF1-236 C O1	62.2477	80/20	62.2477
957531	AF2-047 C	13.5109	80/20	13.5109
964491	AG1-312 C O1	18.6771	80/20	18.6771

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965631	AG1-431	36.0382	80/20	36.0382
965691	AG1-437 C O1	10.0056	80/20	10.0056
965701	AG1-438 C O1	10.0056	80/20	10.0056
965741	AG1-442 O1	5.8366	80/20	5.8366
965751	AG1-443 O1	5.8366	80/20	5.8366
966931	AG1-431A	27.0760	80/20	27.0760
G-007A	G-007A	0.2541	Confirmed LTF	0.2541
VFT	VFT	0.6772	Confirmed LTF	0.6772
CALDERWOOD	CALDERWOOD	0.1988	Confirmed LTF	0.1988
PRAIRIE	PRAIRIE	0.6612	Confirmed LTF	0.6612
CHEOAH	CHEOAH	0.2042	Confirmed LTF	0.2042
CBM-N	CBM-N	0.1236	Confirmed LTF	0.1236
COTTONWOOD	COTTONWOOD	0.7350	Confirmed LTF	0.7350
HAMLET	HAMLET	0.4591	Confirmed LTF	0.4591
GIBSON	GIBSON	0.1130	Confirmed LTF	0.1130
BLUEG	BLUEG	0.3472	Confirmed LTF	0.3472
TRIMBLE	TRIMBLE	0.1096	Confirmed LTF	0.1096
CATAWBA	CATAWBA	0.2177	Confirmed LTF	0.2177

11.6.26 Index 26

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168524083	314637	6EDENTON	DVP	313885	6WALBMRL	DVP	1	Base Case	single	733.2	139.79	142.03	DC	16.44

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1331	80/20	2.1331
313719	3CHESTNUT	0.5165	80/20	0.5165
314582	3KELFORD	0.2333	80/20	0.2333
314589	3MURPHYS	0.0370	80/20	0.0370
314623	3WITAKRS	0.0940	80/20	0.0940
315126	1ROARAP2	0.5120	80/20	0.5120
315128	1ROARAP4	0.4886	80/20	0.4886
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315136	1ROSEMG1	0.8655	80/20	0.8655
315137	1ROSEMS1	0.5367	80/20	0.5367
315138	1ROSEMG2	0.4057	80/20	0.4057
315139	1GASTONA	1.2468	80/20	1.2468
315141	1GASTONB	1.2468	80/20	1.2468
315292	1DOMTR78	2.6052	80/20	2.6052
315293	1DOMTR9	13.4746	80/20	13.4746
315294	1DOMTR10	16.5130	80/20	16.5130
315601	1CONETOE2SOL	0.8402	80/20	0.8402
315602	1HOLLOMANSOL	1.2190	80/20	1.2190

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315606	3AA2-053SOLA	0.6464	80/20	0.6464
315607	3AA1-063SOLA	0.4733	80/20	0.4733
315614	AA2-178 C	4.4673	80/20	4.4673
316020	AB2-059 C OP	0.7167	80/20	0.7167
316087	AB2-174 C	0.3340	80/20	0.3340
316140	AB2-099 C (Suspended)	0.3837	80/20	0.3837
920591	AA2-165 C	0.0693	80/20	0.0693
922922	AB1-081 C OP	0.6081	80/20	0.6081
923991	AB2-040 C O1	2.3232	80/20	2.3232
925121	AB2-169 C	1.6131	80/20	1.6131
925591	AC1-034 C	2.9425	80/20	2.9425
926070	AC1-086 C	8.8866	80/20	8.8866
926201	AC1-098 C	3.2283	80/20	3.2283
926211	AC1-099 C	1.0818	80/20	1.0818
927024	AC1-189 C	5.8874	80/20	5.8874
927145	AC1-208 C	4.1650	80/20	4.1650
932631	AC2-084 C	4.6021	80/20	4.6021
933991	AD1-023 C	25.2222	80/20	25.2222
934331	AD1-057 C O1	4.3394	80/20	4.3394
934521	AD1-076 C	124.5855	80/20	124.5855
936401	AD2-051 C O1	7.4492	80/20	7.4492
938221	AE1-035 C	0.3048	80/20	0.3048
940491	AE2-034 C	21.2365	80/20	21.2365
940571	AE2-044 C	1.9272	80/20	1.9272
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1250	80/20	0.1250
943171	AE2-346 C	0.9210	80/20	0.9210
944141	AF1-082	1.2389	80/20	1.2389
945711	AF1-236 C O1	232.4887	80/20	232.4887
957521	AF2-046 C	7.9381	80/20	7.9381
957531	AF2-047 C	50.4619	80/20	50.4619
957861	AF2-080 C	5.3471	80/20	5.3471
959511	AF2-242 C	9.7474	80/20	9.7474
961671	AG1-007 C	0.7149	80/20	0.7149
961681	AG1-008 C	7.9540	80/20	7.9540
961931	AG1-036 C	0.7739	80/20	0.7739
961941	AG1-037 C	0.3289	80/20	0.3289
962331	AG1-082 C	1.3157	80/20	1.3157
962341	AG1-083 C	1.3157	80/20	1.3157
962351	AG1-084 C	1.2792	80/20	1.2792
962361	AG1-085 C	1.2792	80/20	1.2792
962571	AG1-106 C	2.4713	80/20	2.4713
964491	AG1-312 C O1	18.8709	80/20	18.8709
964501	AG1-313 C O1	2.3849	80/20	2.3849
964801	AG1-343 C	1.8970	80/20	1.8970
965291	AG1-394 C	0.6046	80/20	0.6046
965631	AG1-431	134.5987	80/20	134.5987
965691	AG1-437 C O1	16.4358	80/20	16.4358
965701	AG1-438 C O1	16.4358	80/20	16.4358
965711	AG1-439 C O1	15.0720	80/20	15.0720
965741	AG1-442 O1	9.5876	80/20	9.5876
965751	AG1-443 O1	9.5876	80/20	9.5876

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965761	AG1-444 O1	8.0384	80/20	8.0384
966801	AG1-551 C	2.4639	80/20	2.4639
966811	AG1-552 C	0.8130	80/20	0.8130
966931	AG1-431A	101.1260	80/20	101.1260
WEC	WEC	0.1581	Confirmed LTF	0.1581
LGEE	LGEE	0.3223	Confirmed LTF	0.3223
CPL	CPL	1.7718	Confirmed LTF	1.7718
CBM-W2	CBM-W2	6.6931	Confirmed LTF	6.6931
NY	NY	0.1366	Confirmed LTF	0.1366
TVA	TVA	1.2446	Confirmed LTF	1.2446
SIGE	SIGE	0.0886	Confirmed LTF	0.0886
CBM-S2	CBM-S2	19.1365	Confirmed LTF	19.1365
CBM-S1	CBM-S1	0.3120	Confirmed LTF	0.3120
MEC	MEC	0.9327	Confirmed LTF	0.9327
LAGN	LAGN	1.5540	Confirmed LTF	1.5540
CBM-W1	CBM-W1	6.6875	Confirmed LTF	6.6875

11.6.27 Index 27

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169247761	314638	6ELIZ CT	DVP	314647	6SHAWBRO	DVP	1	DVP_P1-2: LN 247	single	571.52	170.75	173.17	DC	13.79

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	1EDGECEMA (Deactivation : 22/04/2019)	3.5026	80/20	3.5026
315132	1EDGECEMB (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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
169247879	314639	6TANGLEW	DVP	313851	6ECITYDP2	DVP	1	DVP_P1-2: LN 247	single	984.18	103.91	105.31	DC	13.8

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
169247856	314651	6WINFALL	DVP	314639	6TANGLEW	DVP	1	DVP_P1-2: LN 247	single	898.64	118.2	119.73	DC	13.8

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
169247774	314662	6S HERTFORD	DVP	314651	6WINFALL	DVP	1	Base Case	single	733.2	145.5	147.74	DC	16.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1246	80/20	2.1246
313719	3CHESTNUT	0.5151	80/20	0.5151
314582	3KELFORD	0.2329	80/20	0.2329
314589	3MURPHYS	0.0369	80/20	0.0369
314623	3WITAKRS	0.0937	80/20	0.0937
315126	1ROARAP2	0.5104	80/20	0.5104
315128	1ROARAP4	0.4870	80/20	0.4870
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.0994	80/20	4.0994
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.0994	80/20	4.0994
315136	1ROSEMG1	0.8630	80/20	0.8630
315137	1ROSEMS1	0.5351	80/20	0.5351
315138	1ROSEMG2	0.4045	80/20	0.4045
315139	1GASTONA	1.2433	80/20	1.2433
315141	1GASTONB	1.2433	80/20	1.2433
315292	1DOMTR78	2.6036	80/20	2.6036
315293	1DOMTR9	13.4660	80/20	13.4660
315294	1DOMTR10	16.5025	80/20	16.5025
315601	1CONETOE2SOL	0.8384	80/20	0.8384
315602	1HOLLOMANSOL	1.2173	80/20	1.2173
315606	3AA2-053SOLA	0.6446	80/20	0.6446

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315607	3AA1-063SOLA	0.4717	80/20	0.4717
315611	6Z1-036WIND	4.3262	80/20	4.3262
315614	AA2-178 C	4.4654	80/20	4.4654
316020	AB2-059 C OP	0.7145	80/20	0.7145
316087	AB2-174 C	0.3326	80/20	0.3326
316140	AB2-099 C (Suspended)	0.3830	80/20	0.3830
920591	AA2-165 C	0.0691	80/20	0.0691
922922	AB1-081 C OP	0.6063	80/20	0.6063
923991	AB2-040 C O1	2.3140	80/20	2.3140
925121	AB2-169 C	1.6118	80/20	1.6118
925591	AC1-034 C	2.9335	80/20	2.9335
926070	AC1-086 C	8.8619	80/20	8.8619
926201	AC1-098 C	3.2208	80/20	3.2208
926211	AC1-099 C	1.0793	80/20	1.0793
927024	AC1-189 C	5.8761	80/20	5.8761
927145	AC1-208 C	4.1533	80/20	4.1533
932631	AC2-084 C	4.5914	80/20	4.5914
933991	AD1-023 C	25.2059	80/20	25.2059
934331	AD1-057 C O1	4.3272	80/20	4.3272
934521	AD1-076 C	124.5182	80/20	124.5182
936401	AD2-051 C O1	7.4382	80/20	7.4382
938221	AE1-035 C	0.3044	80/20	0.3044
940491	AE2-034 C	21.2276	80/20	21.2276
940571	AE2-044 C	1.9214	80/20	1.9214
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1247	80/20	0.1247
943171	AE2-346 C	0.9192	80/20	0.9192
944141	AF1-082	1.2352	80/20	1.2352
945711	AF1-236 C O1	232.3921	80/20	232.3921
957521	AF2-046 C	7.9171	80/20	7.9171
957531	AF2-047 C	50.4409	80/20	50.4409
957861	AF2-080 C	5.3369	80/20	5.3369
959511	AF2-242 C	9.7380	80/20	9.7380
961671	AG1-007 C	0.7133	80/20	0.7133
961681	AG1-008 C	7.9330	80/20	7.9330
961931	AG1-036 C	0.7722	80/20	0.7722
961941	AG1-037 C	0.3283	80/20	0.3283
962331	AG1-082 C	1.3132	80/20	1.3132
962341	AG1-083 C	1.3132	80/20	1.3132
962351	AG1-084 C	1.2770	80/20	1.2770
962361	AG1-085 C	1.2770	80/20	1.2770
962571	AG1-106 C	2.4644	80/20	2.4644
964491	AG1-312 C O1	18.8485	80/20	18.8485
964501	AG1-313 C O1	2.3791	80/20	2.3791
964801	AG1-343 C	1.8896	80/20	1.8896
965291	AG1-394 C	0.6020	80/20	0.6020
965631	AG1-431	134.5428	80/20	134.5428
965691	AG1-437 C O1	16.4232	80/20	16.4232
965701	AG1-438 C O1	16.4232	80/20	16.4232
965711	AG1-439 C O1	15.0405	80/20	15.0405
965741	AG1-442 O1	9.5802	80/20	9.5802
965751	AG1-443 O1	9.5802	80/20	9.5802

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965761	AG1-444 O1	8.0216	80/20	8.0216
966801	AG1-551 C	2.4609	80/20	2.4609
966811	AG1-552 C	0.8103	80/20	0.8103
966931	AG1-431A	101.0840	80/20	101.0840
WEC	WEC	0.1518	Confirmed LTF	0.1518
LGEE	LGEE	0.3098	Confirmed LTF	0.3098
CPL	CPL	1.7581	Confirmed LTF	1.7581
CBM-W2	CBM-W2	6.5139	Confirmed LTF	6.5139
NY	NY	0.1477	Confirmed LTF	0.1477
TVA	TVA	1.2166	Confirmed LTF	1.2166
SIGE	SIGE	0.0886	Confirmed LTF	0.0886
CBM-S2	CBM-S2	18.9277	Confirmed LTF	18.9277
CBM-S1	CBM-S1	0.3044	Confirmed LTF	0.3044
MEC	MEC	0.9010	Confirmed LTF	0.9010
LAGN	LAGN	1.5190	Confirmed LTF	1.5190
CBM-W1	CBM-W1	6.4071	Confirmed LTF	6.4071

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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
168524191	934330	AD1-057 TAP	DVP	313845	6HATHAWAY	DVP	1	DVP_P1-2: LN 238-B	single	441.8	126.5	127.58	DC	4.77

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	6.5812	80/20	6.5812
313527	AB2-043 C	0.1616	80/20	0.1616
314572	3EMPORIA	0.3707	80/20	0.3707
314582	3KELFORD	0.1701	80/20	0.1701
314589	3MURPHYS	0.0588	80/20	0.0588
314704	3LAWRENC	0.2022	80/20	0.2022
315115	1S HAMPT1	0.7802	80/20	0.7802
315126	1ROARAP2	1.4999	80/20	1.4999
315128	1ROARAP4	1.4313	80/20	1.4313
315136	1ROSEMG1	5.2261	80/20	5.2261
315137	1ROSEMS1	3.2407	80/20	3.2407
315138	1ROSEMG2	2.4493	80/20	2.4493
315139	1GASTONA	6.5715	80/20	6.5715
315141	1GASTONB	6.5715	80/20	6.5715
315158	1KERR 1	0.1671	80/20	0.1671
315159	1KERR 2	0.4679	80/20	0.4679
315160	1KERR 3	0.4679	80/20	0.4679
315161	1KERR 4	0.4679	80/20	0.4679
315162	1KERR 5	0.4679	80/20	0.4679
315163	1KERR 6	0.4679	80/20	0.4679
315164	1KERR 7	0.4679	80/20	0.4679
315602	1HOLLOMANSOL	0.8537	80/20	0.8537

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315606	3AA2-053SOLA	1.5027	80/20	1.5027
315607	3AA1-063SOLA	1.3009	80/20	1.3009
315608	3AA2-088SOLA	0.6986	80/20	0.6986
315614	AA2-178 C	0.4723	80/20	0.4723
316087	AB2-174 C	1.0440	80/20	1.0440
316096	AB2-100 C1	2.0014	80/20	2.0014
316098	AB2-100 C2	2.0014	80/20	2.0014
316103	AB2-015 C	4.3260	80/20	4.3260
316129	AC1-054 C	5.4766	80/20	5.4766
316131	AB2-060 C	0.4583	80/20	0.4583
316140	AB2-099 C (Suspended)	0.3741	80/20	0.3741
923991	AB2-040 C O1	7.1676	80/20	7.1676
924301	AB2-077 C O1 (Suspended)	0.6449	80/20	0.6449
924311	AB2-078 C O1 (Suspended)	0.6449	80/20	0.6449
924321	AB2-079 C O1 (Suspended)	0.6449	80/20	0.6449
925591	AC1-034 C	-5.1726	Adder	-6.09
926070	AC1-086 C	46.8402	80/20	46.8402
933991	AD1-023 C	5.5252	80/20	5.5252
934331	AD1-057 C O1	38.3548	80/20	38.3548
934521	AD1-076 C	19.4152	80/20	19.4152
936361	AD2-046 C O1	3.7209	80/20	3.7209
936401	AD2-051 C O1	5.6765	80/20	5.6765
938221	AE1-035 C	0.2134	80/20	0.2134
938771	AE1-103 C	1.5114	80/20	1.5114
939181	AE1-148 C	3.6364	80/20	3.6364
940491	AE2-034 C	2.2453	80/20	2.2453
940661	AE2-053 O1	1.3468	80/20	1.3468
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1068	80/20	0.1068
942451	AE2-258	0.7644	80/20	0.7644
942471	AE2-260 C O1	31.3160	80/20	31.3160
943171	AE2-346 C	0.8980	80/20	0.8980
943911	AF1-059	9.2940	80/20	9.2940
945711	AF1-236 C O1	24.5809	80/20	24.5809
946281	AF1-292 C	1.2677	80/20	1.2677
957521	AF2-046 C	11.3592	80/20	11.3592
957531	AF2-047 C	5.3353	80/20	5.3353
960081	AF2-299 C	2.1366	80/20	2.1366
961091	AF2-400 C	0.2336	80/20	0.2336
961681	AG1-008 C	11.3820	80/20	11.3820
961931	AG1-036 C	0.8921	80/20	0.8921
961941	AG1-037 C	0.3207	80/20	0.3207
962331	AG1-082 C	1.2828	80/20	1.2828
962341	AG1-083 C	1.2828	80/20	1.2828
962351	AG1-084 C	1.0930	80/20	1.0930
962361	AG1-085 C	1.0930	80/20	1.0930
962571	AG1-106 C	13.0259	80/20	13.0259
963301	AG1-179 C	3.6710	80/20	3.6710
963311	AG1-180	1.7886	80/20	1.7886
964241	AG1-285 C O1	3.8400	80/20	3.8400

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964491	AG1-312 C O1	10.8550	80/20	10.8550
964501	AG1-313 C O1	4.3213	80/20	4.3213
964801	AG1-343 C	4.1877	80/20	4.1877
965291	AG1-394 C	1.4462	80/20	1.4462
965451	AG1-413 C O1	3.9069	80/20	3.9069
965591	AG1-427 C	3.6254	80/20	3.6254
965601	AG1-428 C O1	3.0646	80/20	3.0646
965631	AG1-431	14.2311	80/20	14.2311
965691	AG1-437 C O1	4.7694	80/20	4.7694
965701	AG1-438 C O1	4.7694	80/20	4.7694
965721	AG1-440 C	4.0406	80/20	4.0406
965731	AG1-441 C	4.0406	80/20	4.0406
965741	AG1-442 O1	2.7821	80/20	2.7821
965751	AG1-443 O1	2.7821	80/20	2.7821
965771	AG1-445	2.3345	80/20	2.3345
965781	AG1-446	2.3345	80/20	2.3345
966621	AG1-532 C	1.1538	80/20	1.1538
966751	AG1-546 C	12.6926	80/20	12.6926
966811	AG1-552 C	2.3814	80/20	2.3814
966931	AG1-431A	10.6920	80/20	10.6920
G-007A	G-007A	0.2925	Confirmed LTF	0.2925
VFT	VFT	0.7675	Confirmed LTF	0.7675
CALDERWOOD	CALDERWOOD	0.6436	Confirmed LTF	0.6436
PRAIRIE	PRAIRIE	2.2679	Confirmed LTF	2.2679
CHEOAH	CHEOAH	0.6592	Confirmed LTF	0.6592
CBM-N	CBM-N	0.1380	Confirmed LTF	0.1380
COTTONWOOD	COTTONWOOD	2.4045	Confirmed LTF	2.4045
HAMLET	HAMLET	1.4010	Confirmed LTF	1.4010
GIBSON	GIBSON	0.4040	Confirmed LTF	0.4040
BLUEG	BLUEG	1.2464	Confirmed LTF	1.2464
TRIMBLE	TRIMBLE	0.3962	Confirmed LTF	0.3962
CATAWBA	CATAWBA	0.6836	Confirmed LTF	0.6836

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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
163346020	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	158.7	159.41	DC	13.02

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940661	AE2-053 O1	2.4465	Adder	2.88
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5093	Adder	0.6
942451	AE2-258	1.6115	Adder	1.9
942471	AE2-260 C O1	46.3236	50/50	46.3236
942472	AE2-260 E O1	65.7044	50/50	65.7044
943171	AE2-346 C	1.2178	Adder	1.43
943172	AE2-346 E	0.5219	Adder	0.61
943911	AF1-059	26.5588	50/50	26.5588
944141	AF1-082	2.7352	Adder	3.22
946011	AF1-266	53.8858	50/50	53.8858
946281	AF1-292 C	3.8472	50/50	3.8472
946282	AF1-292 E	2.5936	50/50	2.5936
957521	AF2-046 C	14.3320	Adder	16.86
957522	AF2-046 E	7.2091	Adder	8.48
957861	AF2-080 C	7.0833	Adder	8.33
957862	AF2-080 E	3.1400	Adder	3.69
959511	AF2-242 C	5.0088	Adder	5.89
959512	AF2-242 E	3.8958	Adder	4.58
960081	AF2-299 C	6.4841	50/50	6.4841
960082	AF2-299 E	4.3227	50/50	4.3227
961091	AF2-400 C	0.2483	Adder	0.29
961092	AF2-400 E	0.4075	Adder	0.48
961671	AG1-007 C	1.5192	50/50	1.5192
961672	AG1-007 E	0.8484	50/50	0.8484
961681	AG1-008 C	7.6112	Adder	16.9
961682	AG1-008 E	3.8056	Adder	8.45
961931	AG1-036 C	0.6196	Adder	1.38
961932	AG1-036 E	0.4131	Adder	0.92
961941	AG1-037 C	0.2305	Adder	0.51
961942	AG1-037 E	0.1537	Adder	0.34
962331	AG1-082 C	0.9220	Adder	2.05
962332	AG1-082 E	0.6147	Adder	1.36
962341	AG1-083 C	0.9220	Adder	2.05
962342	AG1-083 E	0.6147	Adder	1.36
962351	AG1-084 C	0.8099	Adder	1.8
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964242	AG1-285 E O1	2.8447	Adder	6.31
964491	AG1-312 C O1	7.5745	Adder	16.81
964492	AG1-312 E O1	1.8936	Adder	4.2
964501	AG1-313 C O1	6.4026	50/50	6.4026
964502	AG1-313 E O1	4.2684	50/50	4.2684
964801	AG1-343 C	2.6428	Adder	5.87
964802	AG1-343 E	2.0765	Adder	4.61
965191	AG1-384 C	0.7266	Adder	1.61
965192	AG1-384 E	0.2158	Adder	0.48
965291	AG1-394 C	0.9050	Adder	2.01
965292	AG1-394 E	0.6033	Adder	1.34
965451	AG1-413 C O1	11.1643	50/50	11.1643
965452	AG1-413 E O1	7.4429	50/50	7.4429
965591	AG1-427 C	4.0275	Adder	8.94
965592	AG1-427 E	2.6907	Adder	5.97
965601	AG1-428 C O1	8.9810	50/50	8.9810
965602	AG1-428 E O1	5.9767	50/50	5.9767
965691	AG1-437 C O1	3.5190	Adder	7.81
965692	AG1-437 E O1	2.3460	Adder	5.21
965701	AG1-438 C O1	3.5190	Adder	7.81
965702	AG1-438 E O1	2.3460	Adder	5.21
965711	AG1-439 C O1	27.9180	50/50	27.9180
965712	AG1-439 E O1	18.6120	50/50	18.6120
965721	AG1-440 C	3.3703	Adder	7.48
965722	AG1-440 E	2.2469	Adder	4.99
965731	AG1-441 C	3.3703	Adder	7.48
965732	AG1-441 E	2.2469	Adder	4.99
965741	AG1-442 O1	2.0528	Adder	4.56
965751	AG1-443 O1	2.0528	Adder	4.56
965761	AG1-444 O1	14.8896	50/50	14.8896
965771	AG1-445	1.9473	Adder	4.32
965781	AG1-446	1.9473	Adder	4.32
966621	AG1-532 C	3.5014	50/50	3.5014
966622	AG1-532 E	2.3343	50/50	2.3343
966751	AG1-546 C	20.3177	50/50	20.3177
966752	AG1-546 E	10.9018	50/50	10.9018
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	2.1000	Confirmed LTF	2.1000
AA2-074	AA2-074	1.6299	LTF	1.6299
CBM-W1	CBM-W1	8.3699	Confirmed LTF	8.3699

11.6.33 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
168829145	957820	AF2-076 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2092	single	571.52	217.23	221.1	DC	22.13

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	5.3764	80/20	5.3764
313527	AB2-043 C	0.1797	80/20	0.1797
313719	3CHESTNUT	1.2166	80/20	1.2166
314572	3EMPORIA	0.2919	80/20	0.2919
314582	3KELFORD	0.6058	80/20	0.6058
314589	3MURPHYS	0.0945	80/20	0.0945
314623	3WITAKRS	0.2162	80/20	0.2162
314704	3LAWRENC	0.1658	80/20	0.1658
315115	1S HAMPT1	0.4948	80/20	0.4948
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGE CMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315132	1EDGE CMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6258	80/20	2.6258
315293	1DOMTR9	13.5807	80/20	13.5807
315294	1DOMTR10	16.6430	80/20	16.6430
315601	1CONETOE2SOL	1.7196	80/20	1.7196
315602	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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315611	6Z1-036WIND	2.1843	80/20	2.1843
315614	AA2-178 C	3.1366	80/20	3.1366
316020	AB2-059 C OP	1.5978	80/20	1.5978
316087	AB2-174 C	0.8423	80/20	0.8423
316096	AB2-100 C1	0.5758	80/20	0.5758
316098	AB2-100 C2	0.5758	80/20	0.5758
316129	AC1-054 C	5.2403	80/20	5.2403
316131	AB2-060 C	0.5087	80/20	0.5087
316140	AB2-099 C (Suspended)	1.0074	80/20	1.0074
920591	AA2-165 C	0.1633	80/20	0.1633
922922	AB1-081 C OP	1.3557	80/20	1.3557
923991	AB2-040 C O1	5.8555	80/20	5.8555
924301	AB2-077 C O1 (Suspended)	0.7260	80/20	0.7260
924311	AB2-078 C O1 (Suspended)	0.7260	80/20	0.7260
924321	AB2-079 C O1 (Suspended)	0.7260	80/20	0.7260
925121	AB2-169 C	1.8885	80/20	1.8885
925591	AC1-034 C	6.5600	80/20	6.5600
926070	AC1-086 C	22.3600	80/20	22.3600
926201	AC1-098 C	8.0404	80/20	8.0404
926211	AC1-099 C	2.6944	80/20	2.6944
927024	AC1-189 C	11.8698	80/20	11.8698
927145	AC1-208 C	10.1498	80/20	10.1498
932631	AC2-084 C	11.4618	80/20	11.4618
933991	AD1-023 C	28.1849	80/20	28.1849
934331	AD1-057 C O1	10.1494	80/20	10.1494
934521	AD1-076 C	113.8581	80/20	113.8581
936361	AD2-046 C O1	4.3133	80/20	4.3133
936401	AD2-051 C O1	19.8559	80/20	19.8559
936485	AD2-063 C	4.9392	80/20	4.9392
938221	AE1-035 C	0.8131	80/20	0.8131
939181	AE1-148 C	4.2104	80/20	4.2104
940481	AE2-033 C	4.4571	80/20	4.4571
940491	AE2-034 C	14.9108	80/20	14.9108
940571	AE2-044 C	4.2966	80/20	4.2966
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957821	AF2-076 C	25.4541	80/20	25.4541
957861	AF2-080 C	10.7806	80/20	10.7806
959511	AF2-242 C	13.0307	80/20	13.0307
960081	AF2-299 C	1.6533	80/20	1.6533
961671	AG1-007 C	1.4833	80/20	1.4833
961681	AG1-008 C	20.4680	80/20	20.4680
961931	AG1-036 C	2.0158	80/20	2.0158
961941	AG1-037 C	0.8635	80/20	0.8635
962331	AG1-082 C	3.4540	80/20	3.4540
962341	AG1-083 C	3.4540	80/20	3.4540
962351	AG1-084 C	3.3758	80/20	3.3758
962361	AG1-085 C	3.3758	80/20	3.3758
962571	AG1-106 C	6.2181	80/20	6.2181
963301	AG1-179 C	3.0738	80/20	3.0738
963311	AG1-180	1.4976	80/20	1.4976
964241	AG1-285 C O1	4.2330	80/20	4.2330
964491	AG1-312 C O1	42.7392	80/20	42.7392
964501	AG1-313 C O1	6.1567	80/20	6.1567
964801	AG1-343 C	4.7135	80/20	4.7135
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O1	3.4453	80/20	3.4453
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O1	2.5661	80/20	2.5661
965631	AG1-431	94.5063	80/20	94.5063
965691	AG1-437 C O1	22.1316	80/20	22.1316
965701	AG1-438 C O1	22.1316	80/20	22.1316
965711	AG1-439 C O1	30.8475	80/20	30.8475
965721	AG1-440 C	4.2890	80/20	4.2890
965731	AG1-441 C	4.2890	80/20	4.2890
965741	AG1-442 O1	12.9101	80/20	12.9101
965751	AG1-443 O1	12.9101	80/20	12.9101
965761	AG1-444 O1	16.4520	80/20	16.4520
965771	AG1-445	2.4781	80/20	2.4781
965781	AG1-446	2.4781	80/20	2.4781
966621	AG1-532 C	0.8928	80/20	0.8928
966751	AG1-546 C	11.9536	80/20	11.9536
966801	AG1-551 C	3.8374	80/20	3.8374
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
169036933	964490	AG1-312 TAP	DVP	314569	6EARLEYS	DVP	1	DVP_P1-2: LN 2092	single	571.52	234.89	243.75	DC	50.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	4.7112	80/20	4.7112
315293	1DOMTR9	24.3670	80/20	24.3670
315294	1DOMTR10	29.8615	80/20	29.8615
315611	6Z1-036WIND	4.6127	80/20	4.6127
315614	AA2-178 C	6.6233	80/20	6.6233
925121	AB2-169 C	2.5776	80/20	2.5776
927024	AC1-189 C	2.9632	80/20	2.9632
933991	AD1-023 C	62.3651	80/20	62.3651
934521	AD1-076 C	240.4160	80/20	240.4160
940491	AE2-034 C	31.4857	80/20	31.4857
945711	AF1-236 C O1	344.6937	80/20	344.6937
957531	AF2-047 C	74.8161	80/20	74.8161
957861	AF2-080 C	2.6913	80/20	2.6913
959511	AF2-242 C	13.4843	80/20	13.4843
964491	AG1-312 C O1	104.4008	80/20	104.4008
965631	AG1-431	199.5595	80/20	199.5595
965691	AG1-437 C O1	50.6808	80/20	50.6808
965701	AG1-438 C O1	50.6808	80/20	50.6808
965741	AG1-442 O1	29.5638	80/20	29.5638
965751	AG1-443 O1	29.5638	80/20	29.5638
966801	AG1-551 C	2.7061	80/20	2.7061
966931	AG1-431A	149.9320	80/20	149.9320
WEC	WEC	0.0435	Confirmed LTF	0.0435
LGEE	LGEE	0.0886	Confirmed LTF	0.0886
CPL	CPL	0.6477	Confirmed LTF	0.6477
CBM-W2	CBM-W2	2.0518	Confirmed LTF	2.0518
NY	NY	0.0680	Confirmed LTF	0.0680
TVA	TVA	0.3934	Confirmed LTF	0.3934
SIGE	SIGE	0.0310	Confirmed LTF	0.0310
CBM-S2	CBM-S2	6.6712	Confirmed LTF	6.6712
CBM-S1	CBM-S1	0.0973	Confirmed LTF	0.0973
MEC	MEC	0.2701	Confirmed LTF	0.2701
LAGN	LAGN	0.4935	Confirmed LTF	0.4935
CBM-W1	CBM-W1	1.8086	Confirmed LTF	1.8086

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	CPL-E-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
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-059	Benson-Dunbar 115kV	Partially in Service - Under Construction
AB2-060	Chase City-Lunenburg 115kV	In Service
AB2-077	Buggs Island-Chase City 115kV	Suspended
AB2-078	Buggs Island-Chase City 115kV	Suspended
AB2-079	Buggs Island-Chase City 115kV	Suspended
AB2-099	Ahoskie 34.5kV	Suspended
AB2-100	Clubhouse-Lakeview 230kV	Partially in Service - Under Construction
AB2-169	Pantago-Five Points 115kV	Partially in Service - Under Construction
AB2-174	Emporia-Trego 115kV	In Service
AB2-190	Hopewell-Surry 230kV	Engineering and Procurement
AC1-027	Pendleton 34.5kV	In Service
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-054	Kerr Dam–Eatons Ferry 115 kV	Engineering and Procurement
AC1-086	Thelma 230kV	Active
AC1-098	Dawson-South Justice 115kV	Engineering and Procurement
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-131	PJM-CPL	Confirmed
AC1-147	Grassfield 34.5kV	Engineering and Procurement
AC1-189	Chinquapin-Everetts 230kV	Active
AC1-208	Cox-Whitakers 115kV	Engineering and Procurement

Queue Number	Project Name	Status
AC2-012	Grassfield-Great Bridge 115kV	Active
AC2-079	Ivor-Oak Ridge 115kV	Engineering and Procurement
AC2-084	Dawson-South Justice 115kV	Active
AC2-196	Fentress 34.5kV	Engineering and Procurement
AD1-023	Cashie-Trowbridge 230 kV	Active
AD1-033	Fentress-Landstown 230 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-076	Trowbridge 230 kV	Active
AD1-144	Kings Fork 34.5 kV	Partially in Service - Under Construction
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
AD2-160	Hickory-Moyock 230kV	Active
AD2-215	Kings Fork 34.5 kV	Withdrawn
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-072	Shawboro-Sligo 230 kV	Active
AE1-103	Holland-Union Camp 115 kV	Active
AE1-148	Kerr Dam-Ridge Rd 115 kV	Active
AE1-175	Light Foot 34.5 kV	Engineering and Procurement
AE2-007	Chesapeake 230 kV	Withdrawn
AE2-033	Clubhouse-Sappony 230 kV	Active
AE2-034	Mackeys 230 kV	Active
AE2-040	Sapony 34.5 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-053	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
AE2-104	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
AE2-225	Suffolk 34 kV	Engineering and Procurement
AE2-229	Suffolk 34 kV	Engineering and Procurement
AE2-247	Myrtle-Windsor 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
AE2-346	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
AF1-059	Brodnax-South Hill 115 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

Queue Number	Project Name	Status
AF1-152	Swamp 230 kV	Active
AF1-201	Hayes-White Marsh 115 kV	Active
AF1-236	Mackeys 230 kV	Active
AF1-266	Clubhouse-Sapony 230 kV	Active
AF1-292	Fields 34.5kV	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
AF2-076	Suffolk-Nucor Steel 230 kV	Active
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-081	Moyock 230 kV	Active
AF2-110	Suffolk 115 kV	Active
AF2-222	Madisonville DP-Twitty's Creek 115 kV	Active
AF2-242	Wharton 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
AG1-009	Hopewell-Surry 230kV	Active
AG1-011	Colonial Trial 230 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
AG1-082	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
AG1-106	Thelma 230 kV	Active
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 kV	Active
AG1-185	Pamplin-Chase City 115 kV	Active
AG1-235	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
AG1-312	Earleys-Cashie 230 kV	Active
AG1-313	Jackson DP-Occoneechee 115 kV	Active
AG1-343	Boykins-Murphy 115 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
AG1-394	Boykins 34.5 kV	Active
AG1-413	South Hill-Bordnax 115 kV	Active
AG1-427	Chase City-Drakes Branch 115 kV	Active
AG1-428	Danielstown 69 kV	Active
AG1-431	Mackeys 230 kV	Active

Queue Number	Project Name	Status
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
AG1-444	Chinquapin 230 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-518	Suffolk 230 kV	Active
AG1-532	Fields 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
Z1-068	Birdneck 34.5kV	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

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 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
DVP_P1-2: LN 2087-B	CONTINGENCY 'DVP_P1-2: LN 2087-B' OPEN BRANCH FROM BUS 937220 TO BUS 314550 CKT 1 /* AD2-160 TAP 230.00 - 6HICKORY 230.00 OPEN BRANCH FROM BUS 314466 TO BUS 314550 CKT 1 /* 6FENTRES 230.00 - 6HICKORY 230.00 OPEN BUS 314468 /* ISLAND: 3GREATBR 115.00 OPEN BUS 314476 /* ISLAND: 3HICKORY 115.00 OPEN BUS 314550 /* ISLAND: 6HICKORY 230.00 END
DVP_P1-2: LN 269_1-A	CONTINGENCY 'DVP_P1-2: LN 269_1-A' OPEN BRANCH FROM BUS 314466 TO BUS 963820 CKT 1 /* 6FENTRES 230.00 - AG1- 235 TAP 230.00 END

Contingency Name	Contingency Definition
314550 6HICKORY 230 937220 AD2-160 TAP 230 1	CONTINGENCY '314550 6HICKORY 230 937220 AD2-160 TAP 230 1' OPEN BRANCH FROM BUS 314550 TO BUS 937220 CKT 1 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
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

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-A	CONTINGENCY 'DVP_P1-2: LN 246-A' OPEN BRANCH FROM BUS 314537 TO BUS 957820 CKT 1 /* 6SUFFOLK 230.00 - AF2-076 230.00 END
DVP_P1-2: LN 246-B	CONTINGENCY 'DVP_P1-2: LN 246-B' OPEN BRANCH FROM BUS 957820 TO BUS 314575 CKT 1 /* AF2-076 230.00 - 6NUCO TP 230.00 OPEN BRANCH FROM BUS 314569 TO BUS 314575 CKT 1 /* 6EARLEYS 230.00 - 6NUCO TP 230.00 OPEN BRANCH FROM BUS 314575 TO BUS 314590 CKT 1 /* 6NUCO TP 230.00 - 6NUCOR 230.00 OPEN BUS 314575 /* ISLAND: 6NUCO TP 230.00 OPEN BUS 314590 /* ISLAND: 6NUCOR 230.00 END
DVP_P1-2: LN 2167	CONTINGENCY 'DVP_P1-2: LN 2167' OPEN BRANCH FROM BUS 313845 TO BUS 314564 CKT 1 /* 6HATHAWAY 230.00 - 6EDGEKOM 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

Contingency Name	Contingency Definition
DVP_P1-2: LN 238-B	CONTINGENCY 'DVP_P1-2: LN 238-B' OPEN BRANCH FROM BUS 940480 TO BUS 314563 CKT 1 /* AE2-033 TAP 230.00 - 6CLUBHSE 230.00 OPEN BRANCH FROM BUS 314562 TO BUS 314563 CKT 1 /* 3CLUBHSE 115.00 - 6CLUBHSE 230.00 END
DVP_P1-2: LN 238-A	CONTINGENCY 'DVP_P1-2: LN 238-A' OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2-033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 END
DVP_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END
DVP_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 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

Contingency Name	Contingency Definition
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
DVP_P7-1: LN 223-226	CONTINGENCY 'DVP_P7-1: LN 223-226' /* . OPEN BRANCH FROM BUS 314475 TO BUS 314514 CKT 1 /* 6HARBORV 230.00 - 6YADKIN 230.00 OPEN BRANCH FROM BUS 314475 TO BUS 314533 CKT 1 /* 6HARBORV 230.00 - 6SMITFLD 230.00 OPEN BRANCH FROM BUS 314533 TO BUS 314538 CKT 1 /* 6SMITFLD 230.00 - 6SURREY 230.00 OPEN BUS 314475 /* ISLAND: 6HARBORV 230.00 OPEN BUS 314533 /* ISLAND: 6SMITFLD 230.00 OPEN BUS 316258 /* ISLAND: AE1-162 C 230.00 OPEN BUS 939312 /* ISLAND: AE1-162 E 230.00 OPEN BRANCH FROM BUS 314453 TO BUS 314484 CKT 1 /* 6CHRHLDN 230.00 - 6HARBORV226 230.00 OPEN BRANCH FROM BUS 314484 TO BUS 314523 CKT 1 /* 6HARBORV226 230.00 - 6CRITTDN 230.00 OPEN BRANCH FROM BUS 314523 TO BUS 314538 CKT 1 /* 6CRITTDN 230.00 - 6SURREY 230.00 OPEN BUS 314484 /* ISLAND: 6HARBORV226 230.00 OPEN BUS 314523 /* ISLAND: 6CRITTDN 230.00 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
Base Case	

Contingency Name	Contingency Definition
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
AEP_P1-3_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P1-3_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
314435 6SAPONY 230 940480 AE2-033 TAP 230 1	CONTINGENCY '314435 6SAPONY 230 940480 AE2-033 TAP 230 1' OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 END
DVP_P1-2: LN 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 588	CONTINGENCY 'DVP_P1-2: LN 588' OPEN BRANCH FROM BUS 314466 TO BUS 314909 CKT 1 /* 6FENTRES 230.00 - 8FENTRES 500.00 OPEN BRANCH FROM BUS 314466 TO BUS 314909 CKT 2 /* 6FENTRES 230.00 - 8FENTRES 500.00 OPEN BRANCH FROM BUS 314909 TO BUS 314927 CKT 1 /* 8FENTRES 500.00 - 8YADKIN 500.00 OPEN BUS 314909 /* ISLAND: 8FENTRES 500.00 END
DVP_P1-2: LN 2092	CONTINGENCY 'DVP_P1-2: LN 2092' OPEN BRANCH FROM BUS 313714 TO BUS 314662 CKT 1 /* 6PERQUIMANS 230.00 - 6S HERTFORD 230.00 OPEN BRANCH FROM BUS 314651 TO BUS 314662 CKT 1 /* 6WINFALL 230.00 - 6S HERTFORD 230.00 OPEN BUS 314662 /* ISLAND: 6S HERTFORD 230.00 END
DVP_P1-2: LN 2034-A	CONTINGENCY 'DVP_P1-2: LN 2034-A' OPEN BRANCH FROM BUS 314569 TO BUS 964490 CKT 1 /* 6EARLEYS 230.00 - AG1- 312 TAP 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2034-B	CONTINGENCY 'DVP_P1-2: LN 2034-B' OPEN BRANCH FROM BUS 965690 TO BUS 964490 CKT 1 /* AG1-437 TAP 230.00 - AG1-312 TAP 230.00 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_P1-3: 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

None

12.1 System Reinforcements - Short Circuit

None

13 Summer Peak - Load Flow Analysis - Secondary POI

The Queue Project AG1-437 was evaluated as a 100.0 MW (Capacity 60.0 MW) injection at the Cashie 230 kV substation in the Dominion area. Project AG1-437 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-437 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

13.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC DC	MW IMPACT
169037067	314561	6CAROLINA	230.0	DVP	314583	6LAKEVIEW	230.0	DVP	1	DVP_P1-2: LN 246-B	single	375.059997559	98.13	101.52	DC	12.71
175551495	314648	6SUNBURY	230.0	DVP	966490	AG1-518 TAP	230.0	DVP	1	DVP_P1-2: LN 2020	single	984.179992676	99.14	100.56	DC	13.98
170034212	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	Base Case	single	571.520019531	99.9	106.59	DC	38.21
175551467	966490	AG1-518 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2020	single	984.179992676	99.14	100.56	DC	13.98

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 LOADIN G %	POST PROJECT LOADIN G %	AC DC	MW IMPACT
174303894	313857	6WINDSORP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P4-2: 246T247	breaker	669.0	98.46	101.68	DC	21.56
163346301	314525	6KINGFORK	230.0	DVP	314522	6CHCKTUK	230.0	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	99.54	100.05	DC	9.49

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 LOADIN G %	POST PROJECT LOADIN G %	AC DC	MW IMPACT
174095139	313701	6CHINQUAPIN	230.0	DVP	314609	6TARBORO	230.0	DVP	1	DVP_P4-2: H2T218	breaker	541.0	104.37	106.92	DC	13.82
168524181	313713	6SWAMP	230.0	DVP	314648	6SUNBURY	230.0	DVP	1	DVP_P1-2: LN 2020	single	984.179992676	100.06	101.48	DC	13.98
168524064	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	single	733.200012207	144.65	146.89	DC	16.42
163345695	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	459.0	180.56	183.0	DC	11.2

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
163345696	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	175.29	177.67	DC	10.92
163345697	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:08:P22:102799	bus	459.0	174.09	176.48	DC	10.93
163345698	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:11:P22:000176	bus	459.0	174.07	176.46	DC	10.93
163345965	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	196.96	199.76	DC	12.82
163345967	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 81-2056-A	tower	459.0	175.31	178.01	DC	12.37
168524076	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	375.059997559	152.39	154.13	DC	6.56
171594284	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:08:P22:102801	bus	459.0	174.05	176.44	DC	10.93
163836132	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT230T	230.0	CPL E	1	DVP_P7-1: LN 2181	single	478.0	121.57	122.86	DC	6.19
163836133	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT230T	230.0	CPL E	1	EXT_3042226ROCKYMT230T 230 3042266PA-RMOUNT#4230 1	single	478.0	112.45	113.74	DC	6.19
174303650	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	DVP_P4-2: 246T247	break er	1204.0	159.45	161.9	DC	29.56
175551473	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	DVP_P1-2: LN 247-B	single	984.179992676	103.29	104.7	DC	13.8
168524089	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	single	733.200012207	139.78	142.02	DC	16.44
168829200	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	single	731.320007324	140.11	142.36	DC	16.44
174303729	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P4-2: 24972-4	break er	830.0	131.67	132.14	DC	8.75
174303616	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P4-2: 24972-4	break er	541.0	178.5	179.19	DC	8.19
174303615	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P4-2: 24972-4	break er	541.0	178.52	179.2	DC	8.19
174478427	314525	6KINGFORK	230.0	DVP	314522	6CHCKTUK	230.0	DVP	1	DVP_P4-2: 531T582	break er	830.0	109.91	110.42	DC	9.52
163346289	314537	6SUFFOLK	230.0	DVP	314525	6KINGFORK	230.0	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	100.95	101.47	DC	9.5
174478322	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	2	DVP_P4-2: 211042	break er	1004.29998779	125.55	127.73	DC	21.89
174478375	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	1	DVP_P4-2: 28942	break er	1053.5	114.29	116.48	DC	23.09
174303721	314550	6HICKORY	230.0	DVP	314466	6FENTRES	230.0	DVP	1	DVP_P4-2: 246T247	break er	699.0	135.45	137.61	DC	15.06
163836756	314554	3BTLEBRO	115.0	DVP	304223	3ROCKYMT115T	115.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	164.0	300.45	302.22	DC	6.43
173905772	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P4-2: 246T247	break er	459.0	153.94	158.88	DC	22.69
163345781	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	145.83	146.45	DC	11.41
163345782	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	830.0	141.03	141.66	DC	11.58
163346040	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	151.59	152.3	DC	13.02
163346041	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	830.0	139.52	141.41	DC	15.69
169036945	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	223.57	227.44	DC	22.13
169036948	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	single	571.520019531	133.75	136.35	DC	14.85
169037075	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	2	DVP_P1-2: LN 2034-A	single	241.391983032	106.73	110.86	DC	9.97

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
174303660	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	2	DVP_P4-2: H2T2014	breaker	289.299987793	150.29	154.24	DC	11.44
174303709	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P4-2: H4T2014	breaker	328.700012207	130.81	134.25	DC	11.33
163835894	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P4-2: 2020T2144	breaker	478.0	204.9	208.97	DC	19.48
163836069	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2167	single	478.0	132.0	134.3	DC	10.98
163836070	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2092	single	478.0	143.46	145.9	DC	11.67
163836074	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	Base Case	single	478.0	107.76	109.6	DC	8.78
163836759	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	478.0	206.41	210.09	DC	17.58
169036963	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	214.89	218.76	DC	22.13
169036966	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	single	571.520019531	125.06	127.66	DC	14.85
175940102	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 238-B	single	571.520019531	165.49	168.32	DC	16.6
175123790	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	DVP_P1-2: LN 238-B	single	441.799987793	119.21	120.29	DC	4.77
163345715	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	AEP_P2-2_#1377_05.J.F ERR 765_1	bus	459.0	164.32	166.77	DC	11.23
163345716	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	158.91	161.3	DC	10.95
163345990	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	181.14	183.94	DC	12.86
168524093	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	single	375.059997559	136.46	138.21	DC	6.58
169037175	314583	6LAKEVEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	441.799987793	108.52	109.53	DC	4.48
171594571	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P7-1: LN 22-90	tower	459.0	165.79	168.34	DC	11.67
163836120	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	single	478.0	121.93	123.24	DC	6.3
169036998	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	DVP_P1-2: LN 2034-A	single	269.779998779	146.84	152.83	DC	16.14
169037007	314614	3TRWBRDG 2	115.0	DVP	314596	3POPLR C	115.0	DVP	1	DVP_P1-2: LN 2034-A	single	285.760009766	138.28	143.93	DC	16.14
169037062	314616	6TRWBRDG	230.0	DVP	314614	3TRWBRDG2	115.0	DVP	1	DVP_P1-2: LN 2034-A	single	182.36000061	103.32	108.8	DC	10.01
174303644	314616	6TRWBRDG	230.0	DVP	314614	3TRWBRDG2	115.0	DVP	1	DVP_P4-2: 203462	breaker	199.800003052	155.2	163.54	DC	16.67
168524083	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	single	733.200012207	139.79	142.03	DC	16.44
169247764	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	Base Case	single	568.700012207	114.56	116.06	DC	8.5
174095044	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P4-2: 246T247	breaker	699.0	264.74	268.97	DC	29.54
175123654	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 247-B	single	571.520019531	169.71	172.12	DC	13.79
174303649	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	DVP_P4-2: 246T247	breaker	1204.0	159.46	161.91	DC	29.56
175551470	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	DVP_P1-2: LN 247-B	single	984.179992676	103.3	104.71	DC	13.8
174303782	314645	6SLIGO L269	230.0	DVP	963820	AG1-235 TAP	230.0	DVP	1	DVP_P4-2: 246T247	breaker	699.0	119.09	121.15	DC	14.43
174303846	314647	6SHAWBRO	230.0	DVP	938530	AE1-072 TAP	230.0	DVP	1	DVP_P4-2: 246T247	breaker	699.0	109.04	111.1	DC	14.43
174303635	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P4-2: 246T247	breaker	1163.0	168.92	171.46	DC	29.56

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
175306615	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P1-2: LN 247-B	single	898.640014648	117.53	119.07	DC	13.8
169247774	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	single	733.200012207	145.51	147.75	DC	16.42
168524191	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 238-B	single	441.799987793	127.83	128.91	DC	4.77
174303772	938530	AE1-072_TAP	230.0	DVP	314645	6SLIGO L269	230.0	DVP	1	DVP_P4-2: 246T247	breaker	699.0	119.96	122.03	DC	14.43
163346020	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	172.51	173.22	DC	13.02
168829145	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	219.22	223.09	DC	22.13
168829148	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	single	571.520019531	129.44	132.04	DC	14.85
175940096	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 238-B	single	571.520019531	169.89	172.72	DC	16.6
174303689	963820	AG1-235 TAP	230.0	DVP	314466	6FENTRES	230.0	DVP	1	DVP_P4-2: 246T247	breaker	699.0	147.55	149.61	DC	14.43
169036933	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	234.89	243.75	DC	50.68
169036936	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	Base Case	single	571.520019531	116.19	122.88	DC	38.21
174095041	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P4-2: 2020T2144	breaker	699.0	291.24	303.33	DC	84.46
175940090	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 2020	single	571.520019531	139.08	146.08	DC	40.03
170034209	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	216.65	225.52	DC	50.68
174095042	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	DVP_P4-2: 2020T2144	breaker	699.0	272.61	284.69	DC	84.46

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	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
175306647	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIIOC H 500 1	operation	402.0	157.27	157.96	DC	6.21
168524523	313711	6MOYOCK	230.0	DVP	937220	AD2-160 TAP	230.0	DVP	1	DVP_P1-2: LN 269_1-A	operation	898.640014648	100.81	102.15	DC	12.09

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
168524179	313713	6SWAMP	230.0	DVP	314648	6SUNBURY	230.0	DVP	1	DVP_P1-2: LN 2020	operation	984.179992676	162.27	164.64	DC	23.31
168524061	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	operation	733.200012207	207.23	210.96	DC	27.37
168524074	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operation	375.059997559	212.29	215.21	DC	10.93
163836130	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT230T	230.0	CPL E	1	DVP_P1-2: LN 2181	operation	478.0	163.55	165.71	DC	10.32
168524186	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	Base Case	operation	984.179992676	106.16	107.6	DC	14.17
175551472	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	DVP_P1-2: LN 247-B	operation	984.179992676	161.61	163.95	DC	23.0
168524408	313857	6WINDSOR DP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	547.08001709	107.95	111.71	DC	20.58
168524086	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	operation	733.200012207	183.31	187.05	DC	27.39
168829197	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	operation	731.320007324	183.76	187.5	DC	27.39
168829155	314209	6SKIFF CREEK	230.0	DVP	314386	6KINGS M	230.0	DVP	1	DVP_P1-2: LN 567	operation	441.799987793	261.11	261.73	DC	5.99
168829268	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	operation	559.299987793	189.58	190.08	DC	6.1
168829278	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	operation	559.299987793	185.78	186.27	DC	6.1
168829163	314296	6PENNIMAN	230.0	DVP	314415	6WALR209	230.0	DVP	1	DVP_P1-2: LN 567	operation	441.799987793	249.2	249.82	DC	5.99
168829159	314386	6KINGS M	230.0	DVP	314296	6PENNIMAN	230.0	DVP	1	DVP_P1-2: LN 567	operation	441.799987793	253.16	253.78	DC	5.99
168829173	314415	6WALR209	230.0	DVP	314391	6LIGH209	230.0	DVP	1	DVP_P1-2: LN 567	operation	441.799987793	233.06	233.68	DC	5.99
168829223	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operation	678.679992676	184.26	185.01	DC	11.27
168829597	314508	6THRASHER	230.0	DVP	314514	6YADKIN	230.0	DVP	1	DVP_P1-2: LN 588	operation	818.739990234	115.14	115.65	DC	9.32
168829594	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	1	DVP_P1-3: 8SUFFOLK-TX#8	operation	893.187988281	104.47	106.52	DC	18.37
169037216	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	2	DVP_P1-3: 8SUFFOLK-TX#7	operation	906.253967285	103.17	105.2	DC	18.41
169037113	314550	6HICKORY	230.0	DVP	314466	6FENTRES	230.0	DVP	1	DVP_P1-2: LN 269_1-A	operation	571.520019531	169.88	172.0	DC	12.09
169037064	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	375.059997559	160.54	166.19	DC	21.18
169037066	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	Base Case	operation	375.059997559	105.81	109.82	DC	15.05
169037079	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	operation	678.679992676	167.17	167.92	DC	11.27
168524433	314569	6EARLEYS	230.0	DVP	313857	6WINDSOR DP	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	105.48	109.08	DC	20.58

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS LOADING %	POST PROJECTIONS LOADING %	AC/D C	MW IMPACT
169036943	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	303.57	310.02	DC	36.89
169036947	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	operation	571.520019531	177.2	181.53	DC	24.75
169037073	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	2	DVP_P1-2: LN 2034-A	operation	241.391983032	166.53	173.41	DC	16.61
169037152	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 2034-A	operation	274.855987549	132.43	138.19	DC	15.84
163836063	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2092	operation	478.0	202.74	206.81	DC	19.46
163836068	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	Base Case	operation	478.0	147.1	150.17	DC	14.64
169036961	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	294.89	301.35	DC	36.89
169036965	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	operation	571.520019531	168.5	172.83	DC	24.75
175123789	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	DVP_P1-2: LN 238-B	operation	441.799987793	145.82	146.63	DC	7.95
168524091	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	operation	375.059997559	192.37	195.3	DC	10.97
163836119	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	operation	478.0	163.23	165.43	DC	10.49
168829476	314594	6PLYMOTH	230.0	DVP	314203	6MACKEYS	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	789.599975586	119.3	123.72	DC	34.85
169036996	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	DVP_P1-2: LN 2034-A	operation	269.779998779	223.76	233.73	DC	26.91
169037000	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	Base Case	operation	247.220001221	108.9	110.23	DC	7.34
169037117	314609	6TARBORO	230.0	DVP	314610	6TOTDP4	230.0	DVP	1	DVP_P1-2: LN 218	operation	441.799987793	116.65	119.83	DC	14.04
169037121	314610	6TOTDP4	230.0	DVP	314564	6EDGECOM	230.0	DVP	1	DVP_P1-2: LN 218	operation	441.799987793	114.18	117.36	DC	14.04
169037005	314614	3TRWBRDG 2	115.0	DVP	314596	3POPLR C	115.0	DVP	1	DVP_P1-2: LN 2034-A	operation	285.760009766	210.9	220.31	DC	26.91
169037060	314616	6TRWBRDG	230.0	DVP	314614	3TRWBRDG2	115.0	DVP	1	DVP_P1-2: LN 2034-A	operation	182.36000061	170.01	179.15	DC	16.68
169037167	314616	6TRWBRDG	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	789.599975586	122.05	126.46	DC	34.85
168524080	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	operation	733.200012207	183.33	187.06	DC	27.39
169247762	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	Base Case	operation	568.700012207	175.1	177.59	DC	14.16
175123653	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 247-B	operation	571.520019531	271.94	275.96	DC	22.99
169247878	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	Base Case	operation	984.179992676	106.17	107.61	DC	14.17
175551469	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	DVP_P1-2: LN 247-B	operation	984.179992676	161.62	163.96	DC	23.0

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
169247927	314645	6SLIGO L269	230.0	DVP	963820	AG1-235 TAP	230.0	DVP	1	3145506HICKORY 230 937220 AD2-160 TAP 230 1	operation	571.520019531	140.2	142.29	DC	11.93
169248003	314647	6SHAWBRO	230.0	DVP	938530	AE1-072_TAP	230.0	DVP	1	3145506HICKORY 230 937220 AD2-160 TAP 230 1	operation	571.520019531	125.58	127.67	DC	11.93
169248092	314647	6SHAWBRO	230.0	DVP	313717	6SLIGO L2192	230.0	DVP	1	DVP_P1-2: LN 269_1-A	operation	749.179992676	101.63	103.25	DC	12.13
175551494	314648	6SUNBURY	230.0	DVP	966490	AG1-518 TAP	230.0	DVP	1	DVP_P1-2: LN 2020	operation	984.179992676	161.34	163.71	DC	23.31
169247855	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	Base Case	operation	823.440002441	131.37	133.09	DC	14.18
169247967	314651	6WINFALL	230.0	DVP	313713	6SWAMP	230.0	DVP	1	DVP_P1-2: LN 2020	operation	984.179992676	127.21	129.58	DC	23.33
175306613	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P1-2: LN 247-B	operation	898.640014648	180.96	183.52	DC	23.0
169247771	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	operation	733.200012207	208.09	211.82	DC	27.37
168524363	927020	AC1-189 TAP	230.0	DVP	313701	6CHINQUAPI N	230.0	DVP	1	DVP_P1-2: LN 218	operation	441.799987793	112.7	115.89	DC	14.07
169037208	933990	AD1-023 TAP	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	95.99	103.6	DC	43.49
168524189	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 238-B	operation	441.799987793	159.06	159.88	DC	7.95
169752300	937220	AD2-160 TAP	230.0	DVP	314550	6HICKORY	230.0	DVP	1	DVP_P1-2: LN 269_1-A	operation	898.640014648	108.4	109.74	DC	12.09
169752075	938530	AE1-072_TAP	230.0	DVP	314645	6SLIGO L269	230.0	DVP	1	3145506HICKORY 230 937220 AD2-160 TAP 230 1	operation	571.520019531	141.27	143.36	DC	11.93
169751897	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operation	678.679992676	188.69	189.44	DC	11.27
168829143	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	301.48	307.93	DC	36.89
168829147	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	operation	571.520019531	174.5	178.83	DC	24.75
170034382	963820	AG1-235 TAP	230.0	DVP	314466	6FENTRES	230.0	DVP	1	3145506HICKORY 230 937220 AD2-160 TAP 230 1	operation	571.520019531	176.39	178.47	DC	11.93
170034384	963820	AG1-235 TAP	230.0	DVP	314466	6FENTRES	230.0	DVP	1	Base Case	operation	571.520019531	107.76	108.31	DC	6.91
169036931	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	354.11	368.89	DC	84.47

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
169036935	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	Base Case	operation	571.520019531	179.11	190.25	DC	63.68
170034207	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	331.31	346.09	DC	84.47
170034211	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	Base Case	operation	571.520019531	161.27	172.42	DC	63.68
175551466	966490	AG1-518 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2020	operation	984.179992676	161.25	163.62	DC	23.31

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
173905772	314561	6CAROLNA	DVP	314583	6LAKEVIEW	DVP	1	DVP_P4-2: 246T247	breaker	459.0	153.94	158.88	DC	22.69

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.8331	50/50	4.8331
314539	3UNCAMP	4.0999	50/50	4.0999
314541	3WATKINS	0.5680	50/50	0.5680
314582	3KELFORD	0.4846	50/50	0.4846
314589	3MURPHYS	0.1126	50/50	0.1126
314594	6PLYMOTH	0.0967	50/50	0.0967
315115	1S HAMPT1	1.2202	50/50	1.2202
315126	1ROARAP2	2.3907	50/50	2.3907
315128	1ROARAP4	2.2813	50/50	2.2813
315164	1KERR 7	0.6951	50/50	0.6951
315292	1DOMTR78	1.3460	50/50	1.3460
315293	1DOMTR9	6.9617	50/50	6.9617
315294	1DOMTR10	8.5315	50/50	8.5315
315602	1HOLLOMANSOL	2.3248	50/50	2.3248
315606	3AA2-053SOLA	2.5398	50/50	2.5398
315607	3AA1-063SOLA	2.1103	50/50	2.1103
315608	3AA2-088SOLA	1.1705	50/50	1.1705
315611	6Z1-036WIND	0.7024	50/50	0.7024
315614	AA2-178 C	1.3989	50/50	1.3989
316088	AB2-174 E	2.6618	Adder	3.13
316103	AB2-015 C	6.5815	50/50	6.5815

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316104	AB2-015 E	5.3968	50/50	5.3968
316129	AC1-054 C	8.5395	50/50	8.5395
316140	AB2-099 C (Suspended)	0.8745	50/50	0.8745
316141	AB2-099 E (Suspended)	0.3748	50/50	0.3748
900672	V4-068 E	0.3912	50/50	0.3912
901082	W1-029 E	20.7208	Adder	24.38
916042	Z1-036 E (Suspended)	29.8274	50/50	29.8274
917332	Z2-043 E	1.4454	50/50	1.4454
918492	AA1-063AE OP	6.3070	50/50	6.3070
918512	AA1-065 E OP	6.5981	50/50	6.5981
918532	AA1-067 E	0.5532	50/50	0.5532
919692	AA2-053 E OP	6.6096	50/50	6.6096
919702	AA2-057 E OP	1.4432	Adder	1.7
920042	AA2-088 E OP	12.1049	50/50	12.1049
920592	AA2-165 E	0.1984	Adder	0.23
920692	AA2-178 E	3.8002	50/50	3.8002
923573	AB1-173 E OP	0.7537	50/50	0.7537
923991	AB2-040 C O1	5.2637	50/50	5.2637
923992	AB2-040 E O1	4.3067	50/50	4.3067
925121	AB2-169 C	0.9498	50/50	0.9498
925122	AB2-169 E	5.4029	50/50	5.4029
925785	AC1-054 E	3.9339	50/50	3.9339
926201	AC1-098 C	6.2886	50/50	6.2886
926202	AC1-098 E	3.7464	50/50	3.7464
926211	AC1-099 C	2.1074	50/50	2.1074
926212	AC1-099 E	1.2377	50/50	1.2377
927145	AC1-208 C	8.8972	50/50	8.8972
927146	AC1-208 E	3.9347	50/50	3.9347
932631	AC2-084 C	8.9646	50/50	8.9646
932632	AC2-084 E	4.4154	50/50	4.4154
933991	AD1-023 C	16.1740	50/50	16.1740
933992	AD1-023 E	8.8052	50/50	8.8052
934521	AD1-076 C	59.1788	50/50	59.1788
934522	AD1-076 E	30.1338	50/50	30.1338
936361	AD2-046 C O1	4.4861	Adder	5.28
936362	AD2-046 E O1	2.0630	Adder	2.43
936401	AD2-051 C O1	14.9052	50/50	14.9052
936402	AD2-051 E O1	6.4001	50/50	6.4001
938221	AE1-035 C	0.5813	50/50	0.5813
938222	AE1-035 E	1.8145	50/50	1.8145
938771	AE1-103 C	1.7987	Adder	2.12
938772	AE1-103 E	2.4840	Adder	2.92
939181	AE1-148 C	4.3408	Adder	5.11
939182	AE1-148 E	2.8938	Adder	3.4
940491	AE2-034 C	6.6503	50/50	6.6503
940492	AE2-034 E	2.8501	50/50	2.8501
940542	AE2-040 BAT	1.4628	Merchant Transmission	1.4628
940661	AE2-053 O1	1.6077	Adder	1.89
941501	AE2-147 C	7.1451	Adder	8.41
941502	AE2-147 E	4.7634	Adder	5.6
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.2660	50/50	0.2660

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.9077	50/50	0.9077
943171	AE2-346 C	2.0988	50/50	2.0988
943172	AE2-346 E	0.8995	50/50	0.8995
944871	AF1-152 C	2.3817	Adder	2.8
944872	AF1-152 E	1.5878	Adder	1.87
945711	AF1-236 C O1	72.8047	50/50	72.8047
945712	AF1-236 E O1	44.9686	50/50	44.9686
946012	AF1-266 BAT	7.7681	Merchant Transmission	7.7681
957521	AF2-046 C	22.5977	50/50	22.5977
957522	AF2-046 E	11.3668	50/50	11.3668
957531	AF2-047 C	15.8023	50/50	15.8023
957532	AF2-047 E	7.9487	50/50	7.9487
957821	AF2-076 C	8.2473	50/50	8.2473
957822	AF2-076 E	5.4982	50/50	5.4982
959511	AF2-242 C	6.4575	50/50	6.4575
959512	AF2-242 E	5.0225	50/50	5.0225
961091	AF2-400 C	0.3554	50/50	0.3554
961092	AF2-400 E	0.5831	50/50	0.5831
961681	AG1-008 C	22.6430	50/50	22.6430
961682	AG1-008 E	11.3215	50/50	11.3215
961931	AG1-036 C	1.9349	50/50	1.9349
961932	AG1-036 E	1.2900	50/50	1.2900
961941	AG1-037 C	0.7496	50/50	0.7496
961942	AG1-037 E	0.4997	50/50	0.4997
962331	AG1-082 C	2.9983	50/50	2.9983
962332	AG1-082 E	1.9989	50/50	1.9989
962341	AG1-083 C	2.9983	50/50	2.9983
962342	AG1-083 E	1.9989	50/50	1.9989
962351	AG1-084 C	2.7232	50/50	2.7232
962352	AG1-084 E	1.8155	50/50	1.8155
962361	AG1-085 C	2.7232	50/50	2.7232
962362	AG1-085 E	1.8155	50/50	1.8155
964491	AG1-312 C O1	29.7830	50/50	29.7830
964492	AG1-312 E O1	7.4458	50/50	7.4458
964501	AG1-313 C O2	7.8417	50/50	7.8417
964502	AG1-313 E O2	5.2278	50/50	5.2278
964801	AG1-343 C	7.2341	50/50	7.2341
964802	AG1-343 E	5.6840	50/50	5.6840
965291	AG1-394 C	2.4446	50/50	2.4446
965292	AG1-394 E	1.6298	50/50	1.6298
965631	AG1-431	42.1501	50/50	42.1501
965691	AG1-437 C O1	13.6146	50/50	13.6146
965692	AG1-437 E O1	9.0764	50/50	9.0764
965701	AG1-438 C O1	13.6146	50/50	13.6146
965702	AG1-438 E O1	9.0764	50/50	9.0764
965721	AG1-440 C	6.1520	50/50	6.1520
965722	AG1-440 E	4.1013	50/50	4.1013
965731	AG1-441 C	6.1520	50/50	6.1520
965732	AG1-441 E	4.1013	50/50	4.1013
965741	AG1-442 O1	7.9418	50/50	7.9418
965751	AG1-443 O1	7.9418	50/50	7.9418

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965771	AG1-445	3.5545	50/50	3.5545
965781	AG1-446	3.5545	50/50	3.5545
966491	AG1-518 O2	2.1038	Adder	4.67
966751	AG1-546 C	19.8588	50/50	19.8588
966752	AG1-546 E	10.6557	50/50	10.6557
966801	AG1-551 C	1.8732	50/50	1.8732
966802	AG1-551 E	0.8028	50/50	0.8028
966811	AG1-552 C	3.7958	50/50	3.7958
966812	AG1-552 E	1.6268	50/50	1.6268
966931	AG1-431A	31.6680	50/50	31.6680
WEC	WEC	0.0444	Confirmed LTF	0.0444
LGEE	LGEE	0.0917	Confirmed LTF	0.0917
CPL	CPL	0.5521	Confirmed LTF	0.5521
CBM-W2	CBM-W2	1.8816	Confirmed LTF	1.8816
NY	NY	0.0536	Confirmed LTF	0.0536
TVA	TVA	0.3500	Confirmed LTF	0.3500
O-066	O-066	0.7672	Confirmed LTF	0.7672
SIGE	SIGE	0.0281	Confirmed LTF	0.0281
CBM-S2	CBM-S2	5.5019	Confirmed LTF	5.5019
CBM-S1	CBM-S1	0.0878	Confirmed LTF	0.0878
G-007	G-007	0.1208	Confirmed LTF	0.1208
MEC	MEC	0.2622	Confirmed LTF	0.2622
LAGN	LAGN	0.4358	Confirmed LTF	0.4358
CBM-W1	CBM-W1	1.8787	Confirmed LTF	1.8787

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
175551495	314648	6SUNBURY	DVP	966490	AG1-518 TAP	DVP	1	DVP_P1-2: LN 2020	single	984.18	99.14	100.56	DC	13.98

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.3 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
174095042	965690	AG1-437 TAP	DVP	964490	AG1-312 TAP	DVP	1	DVP_P4-2: 2020T2144	breaker	699.0	272.61	284.69	DC	84.46

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.4018	50/50	0.4018
315292	1DOMTR78	4.7108	50/50	4.7108
315293	1DOMTR9	24.3645	50/50	24.3645
315294	1DOMTR10	29.8585	50/50	29.8585
315611	6Z1-036WIND	4.6122	50/50	4.6122
315614	AA2-178 C	6.6228	50/50	6.6228
916042	Z1-036 E (Suspended)	195.8679	50/50	195.8679
920692	AA2-178 E	17.9904	50/50	17.9904
925121	AB2-169 C	2.5772	50/50	2.5772
925122	AB2-169 E	14.6601	50/50	14.6601
933991	AD1-023 C	62.3605	50/50	62.3605
933992	AD1-023 E	33.9491	50/50	33.9491
934521	AD1-076 C	240.3967	50/50	240.3967
934522	AD1-076 E	122.4097	50/50	122.4097
940491	AE2-034 C	31.4832	50/50	31.4832
940492	AE2-034 E	13.4928	50/50	13.4928
945711	AF1-236 C O1	344.6661	50/50	344.6661
945712	AF1-236 E O1	212.8864	50/50	212.8864

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957531	AF2-047 C	74.8101	50/50	74.8101
957532	AF2-047 E	37.6299	50/50	37.6299
959511	AF2-242 C	13.4820	50/50	13.4820
959512	AF2-242 E	10.4860	50/50	10.4860
965631	AG1-431	199.5435	50/50	199.5435
965691	AG1-437 C O1	50.6772	50/50	50.6772
965692	AG1-437 E O1	33.7848	50/50	33.7848
965701	AG1-438 C O1	50.6772	50/50	50.6772
965702	AG1-438 E O1	33.7848	50/50	33.7848
965741	AG1-442 O1	29.5617	50/50	29.5617
965751	AG1-443 O1	29.5617	50/50	29.5617
966801	AG1-551 C	2.7054	50/50	2.7054
966802	AG1-551 E	1.1594	50/50	1.1594
966931	AG1-431A	149.9200	50/50	149.9200
WEC	WEC	0.0435	Confirmed LTF	0.0435
LGEE	LGEE	0.0886	Confirmed LTF	0.0886
CPL	CPL	0.6463	Confirmed LTF	0.6463
CBM-W2	CBM-W2	2.0429	Confirmed LTF	2.0429
NY	NY	0.0686	Confirmed LTF	0.0686
TVA	TVA	0.3920	Confirmed LTF	0.3920
O-066	O-066	0.9489	Confirmed LTF	0.9489
SIGE	SIGE	0.0309	Confirmed LTF	0.0309
CBM-S2	CBM-S2	6.6503	Confirmed LTF	6.6503
CBM-S1	CBM-S1	0.0969	Confirmed LTF	0.0969
G-007	G-007	0.1491	Confirmed LTF	0.1491
MEC	MEC	0.2685	Confirmed LTF	0.2685
LAGN	LAGN	0.4917	Confirmed LTF	0.4917
CBM-W1	CBM-W1	1.8086	Confirmed LTF	1.8086

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
175551467	966490	AG1-518 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2020	single	984.18	99.14	100.56	DC	13.98

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.5 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
174303894	313857	6WINDSORDP	DVP	314574	6EVERETS	DVP	1	DVP_P4-2: 246T247	breaker	669.0	98.46	101.68	DC	21.56

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.5985	Adder	3.06
314539	3UNCAMP	2.0846	Adder	2.45
314541	3WATKINS	0.2756	Adder	0.32
314572	3EMPORIA	0.1421	Adder	0.17
314582	3KELFORD	0.4128	50/50	0.4128
314589	3MURPHYS	0.0772	50/50	0.0772
314594	6PLYMOTH	0.0702	50/50	0.0702
315602	1HOLLOMANSOL	2.6086	50/50	2.6086
315606	3AA2-053SOLA	1.0308	50/50	1.0308
315608	3AA2-088SOLA	0.6272	50/50	0.6272
315614	AA2-178 C	1.0318	50/50	1.0318
316088	AB2-174 E	2.3405	Adder	2.75

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316097	AB2-100 E1	0.8976	Adder	1.06
316099	AB2-100 E2	0.8976	Adder	1.06
316103	AB2-015 C	3.2504	Adder	3.82
316104	AB2-015 E	2.6653	Adder	3.14
316129	AC1-054 C	2.1802	Adder	2.56
316140	AB2-099 C (Suspended)	0.7823	50/50	0.7823
316141	AB2-099 E (Suspended)	0.3353	50/50	0.3353
900672	V4-068 E	0.2682	50/50	0.2682
901082	W1-029 E	16.6587	Adder	19.6
913392	Y1-086 E	0.5878	Adder	0.69
916042	Z1-036 E (Suspended)	19.6363	Adder	23.1
917122	Z2-027 E	0.3186	Adder	0.37
917332	Z2-043 E	1.2312	50/50	1.2312
918492	AA1-063AE OP	2.0006	Adder	2.35
918512	AA1-065 E OP	7.4035	50/50	7.4035
919692	AA2-053 E OP	2.6827	50/50	2.6827
920042	AA2-088 E OP	6.4864	50/50	6.4864
920692	AA2-178 E	2.8027	50/50	2.8027
923262	AB1-132 C OP (Suspended)	6.5288	Adder	7.68
923263	AB1-132 E OP (Suspended)	2.7981	Adder	3.29
923573	AB1-173 E OP	0.4052	Adder	0.48
923832	AB2-022 E	0.3318	Adder	0.39
923991	AB2-040 C O1	2.8301	Adder	3.33
923992	AB2-040 E O1	2.3155	Adder	2.72
925785	AC1-054 E	1.0044	Adder	1.18
926070	AC1-086 C	9.6145	Adder	11.31
926071	AC1-086 E	4.3759	Adder	5.15
926201	AC1-098 C	3.0832	Adder	3.63
926202	AC1-098 E	1.8368	Adder	2.16
926211	AC1-099 C	1.0332	Adder	1.22
926212	AC1-099 E	0.6068	Adder	0.71
927145	AC1-208 C	2.8701	Adder	3.38
927146	AC1-208 E	1.2693	Adder	1.49
932631	AC2-084 C	4.3952	Adder	5.17
932632	AC2-084 E	2.1648	Adder	2.55
933991	AD1-023 C	13.9324	50/50	13.9324
933992	AD1-023 E	7.5848	50/50	7.5848
934521	AD1-076 C	42.8423	50/50	42.8423
934522	AD1-076 E	21.8152	50/50	21.8152
936401	AD2-051 C O1	15.8526	50/50	15.8526
936402	AD2-051 E O1	6.8069	50/50	6.8069
938221	AE1-035 C	0.6522	50/50	0.6522
938222	AE1-035 E	2.0360	50/50	2.0360
938771	AE1-103 C	1.1215	Adder	1.32
938772	AE1-103 E	1.5488	Adder	1.82
940491	AE2-034 C	4.9048	50/50	4.9048
940492	AE2-034 E	2.1020	50/50	2.1020
941501	AE2-147 C	5.7444	Adder	6.76
941502	AE2-147 E	3.8296	Adder	4.51
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.2535	50/50	0.2535

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.8652	50/50	0.8652
942471	AE2-260 C O1	4.2585	Adder	5.01
942472	AE2-260 E O1	6.0401	Adder	7.11
943171	AE2-346 C	1.8775	50/50	1.8775
943172	AE2-346 E	0.8046	50/50	0.8046
944871	AF1-152 C	1.9148	Adder	2.25
944872	AF1-152 E	1.2765	Adder	1.5
945711	AF1-236 C O1	53.6954	50/50	53.6954
945712	AF1-236 E O1	33.1655	50/50	33.1655
946281	AF1-292 C	0.4794	Adder	0.56
946282	AF1-292 E	0.3232	Adder	0.38
957521	AF2-046 C	16.4700	50/50	16.4700
957522	AF2-046 E	8.2845	50/50	8.2845
957531	AF2-047 C	11.6546	50/50	11.6546
957532	AF2-047 E	5.8624	50/50	5.8624
957821	AF2-076 C	9.2553	50/50	9.2553
957822	AF2-076 E	6.1702	50/50	6.1702
960081	AF2-299 C	0.8080	Adder	0.95
960082	AF2-299 E	0.5386	Adder	0.63
961091	AF2-400 C	0.1755	Adder	0.21
961092	AF2-400 E	0.2880	Adder	0.34
961601	AG1-000A BAT	2.4834	Merchant Transmission	2.4834
961681	AG1-008 C	16.5030	50/50	16.5030
961682	AG1-008 E	8.2515	50/50	8.2515
961931	AG1-036 C	1.5885	50/50	1.5885
961932	AG1-036 E	1.0590	50/50	1.0590
961941	AG1-037 C	0.6705	50/50	0.6705
961942	AG1-037 E	0.4470	50/50	0.4470
962331	AG1-082 C	2.6821	50/50	2.6821
962332	AG1-082 E	1.7881	50/50	1.7881
962341	AG1-083 C	2.6821	50/50	2.6821
962342	AG1-083 E	1.7881	50/50	1.7881
962351	AG1-084 C	2.5955	50/50	2.5955
962352	AG1-084 E	1.7303	50/50	1.7303
962361	AG1-085 C	2.5955	50/50	2.5955
962362	AG1-085 E	1.7303	50/50	1.7303
962571	AG1-106 C	1.4171	Adder	3.15
962572	AG1-106 E	0.6426	Adder	1.43
964491	AG1-312 C O1	32.5987	50/50	32.5987
964492	AG1-312 E O1	8.1497	50/50	8.1497
964501	AG1-313 C O2	4.2797	50/50	4.2797
964502	AG1-313 E O2	2.8531	50/50	2.8531
964801	AG1-343 C	4.0527	50/50	4.0527
964802	AG1-343 E	3.1842	50/50	3.1842
965291	AG1-394 C	1.3004	50/50	1.3004
965292	AG1-394 E	0.8670	50/50	0.8670
965631	AG1-431	31.0868	50/50	31.0868
965691	AG1-437 C O1	12.9348	50/50	12.9348
965692	AG1-437 E O1	8.6232	50/50	8.6232
965701	AG1-438 C O1	12.9348	50/50	12.9348
965702	AG1-438 E O1	8.6232	50/50	8.6232

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965741	AG1-442 O1	7.5453	50/50	7.5453
965751	AG1-443 O1	7.5453	50/50	7.5453
965762	AG1-444 BAT	14.0912	50/50	14.0912
966491	AG1-518 O2	1.6916	Adder	3.75
966621	AG1-532 C	0.2312	Adder	0.51
966622	AG1-532 E	0.1542	Adder	0.34
966751	AG1-546 C	2.6914	Adder	5.97
966752	AG1-546 E	1.4441	Adder	3.21
966811	AG1-552 C	0.5186	Adder	1.15
966812	AG1-552 E	0.2223	Adder	0.49
966931	AG1-431A	23.3560	50/50	23.3560
G-007A	G-007A	0.5490	Confirmed LTF	0.5490
VFT	VFT	1.4642	Confirmed LTF	1.4642
CALDERWOOD	CALDERWOOD	0.6739	Confirmed LTF	0.6739
PRAIRIE	PRAIRIE	2.2937	Confirmed LTF	2.2937
CHEOAH	CHEOAH	0.6912	Confirmed LTF	0.6912
CBM-N	CBM-N	0.2664	Confirmed LTF	0.2664
COTTONWOOD	COTTONWOOD	2.5158	Confirmed LTF	2.5158
HAMLET	HAMLET	1.5685	Confirmed LTF	1.5685
GIBSON	GIBSON	0.3969	Confirmed LTF	0.3969
BLUEG	BLUEG	1.2187	Confirmed LTF	1.2187
TRIMBLE	TRIMBLE	0.3862	Confirmed LTF	0.3862
CATAWBA	CATAWBA	0.7255	Confirmed LTF	0.7255

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
174478427	314525	6KINGFORK	DVP	314522	6CHCKTUK	DVP	1	DVP_P4-2: 531T582	breaker	830.0	109.91	110.42	DC	9.52

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

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
174095139	313701	6CHINQUAPIN	DVP	314609	6TARBORO	DVP	1	DVP_P4-2: H2T218	breaker	541.0	104.37	106.92	DC	13.82

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.8 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
168524181	313713	6SWAMP	DVP	314648	6SUNBURY	DVP	1	DVP_P1-2: LN 2020	single	984.18	100.06	101.48	DC	13.98

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	0.4266	80/20	0.4266

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
168524064	313714	6PERQUIMANS	DVP	314662	6S HERTFORD	DVP	1	Base Case	single	733.2	144.65	146.89	DC	16.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1246	80/20	2.1246
313719	3CHESTNUT	0.5151	80/20	0.5151
314582	3KELFORD	0.2329	80/20	0.2329
314589	3MURPHYS	0.0369	80/20	0.0369
314623	3WITAKRS	0.0937	80/20	0.0937
315126	1ROARAP2	0.5104	80/20	0.5104

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315128	1ROARAP4	0.4870	80/20	0.4870
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.0994	80/20	4.0994
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.0994	80/20	4.0994
315136	1ROSEMG1	0.8630	80/20	0.8630
315137	1ROSEMS1	0.5351	80/20	0.5351
315138	1ROSEMG2	0.4045	80/20	0.4045
315139	1GASTONA	1.2433	80/20	1.2433
315141	1GASTONB	1.2433	80/20	1.2433
315292	1DOMTR78	2.6036	80/20	2.6036
315293	1DOMTR9	13.4660	80/20	13.4660
315294	1DOMTR10	16.5025	80/20	16.5025
315601	1CONETOE2SOL	0.8384	80/20	0.8384
315602	1HOLLOMANSOL	1.2173	80/20	1.2173
315606	3AA2-053SOLA	0.6446	80/20	0.6446
315607	3AA1-063SOLA	0.4717	80/20	0.4717
315611	6Z1-036WIND	4.3262	80/20	4.3262
315614	AA2-178 C	4.4654	80/20	4.4654
316020	AB2-059 C OP	0.7145	80/20	0.7145
316087	AB2-174 C	0.3326	80/20	0.3326
316140	AB2-099 C (Suspended)	0.3830	80/20	0.3830
920591	AA2-165 C	0.0691	80/20	0.0691
922922	AB1-081 C OP	0.6063	80/20	0.6063
923991	AB2-040 C O1	2.3140	80/20	2.3140
925121	AB2-169 C	1.6118	80/20	1.6118
925591	AC1-034 C	2.9335	80/20	2.9335
926070	AC1-086 C	8.8619	80/20	8.8619
926201	AC1-098 C	3.2208	80/20	3.2208
926211	AC1-099 C	1.0793	80/20	1.0793
927024	AC1-189 C	5.8761	80/20	5.8761
927145	AC1-208 C	4.1533	80/20	4.1533
932631	AC2-084 C	4.5914	80/20	4.5914
933991	AD1-023 C	25.2059	80/20	25.2059
934331	AD1-057 C O1	4.3272	80/20	4.3272
934521	AD1-076 C	124.5182	80/20	124.5182
936401	AD2-051 C O1	7.4382	80/20	7.4382
938221	AE1-035 C	0.3044	80/20	0.3044
940491	AE2-034 C	21.2276	80/20	21.2276
940571	AE2-044 C	1.9214	80/20	1.9214
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1247	80/20	0.1247
943171	AE2-346 C	0.9192	80/20	0.9192
944141	AF1-082	1.2352	80/20	1.2352
945711	AF1-236 C O1	232.3921	80/20	232.3921
957521	AF2-046 C	7.9171	80/20	7.9171
957531	AF2-047 C	50.4409	80/20	50.4409
957861	AF2-080 C	5.3369	80/20	5.3369
959511	AF2-242 C	9.7380	80/20	9.7380
961671	AG1-007 C	0.7133	80/20	0.7133
961681	AG1-008 C	7.9330	80/20	7.9330
961931	AG1-036 C	0.7722	80/20	0.7722
961941	AG1-037 C	0.3283	80/20	0.3283

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962331	AG1-082 C	1.3132	80/20	1.3132
962341	AG1-083 C	1.3132	80/20	1.3132
962351	AG1-084 C	1.2770	80/20	1.2770
962361	AG1-085 C	1.2770	80/20	1.2770
962571	AG1-106 C	2.4644	80/20	2.4644
964491	AG1-312 C O1	18.8485	80/20	18.8485
964501	AG1-313 C O2	2.4216	80/20	2.4216
964801	AG1-343 C	1.8896	80/20	1.8896
965291	AG1-394 C	0.6020	80/20	0.6020
965631	AG1-431	134.5428	80/20	134.5428
965691	AG1-437 C O1	16.4232	80/20	16.4232
965701	AG1-438 C O1	16.4232	80/20	16.4232
965711	AG1-439 C O1	15.0405	80/20	15.0405
965741	AG1-442 O1	9.5802	80/20	9.5802
965751	AG1-443 O1	9.5802	80/20	9.5802
965761	AG1-444 O1	8.0216	80/20	8.0216
966801	AG1-551 C	2.4609	80/20	2.4609
966811	AG1-552 C	0.8103	80/20	0.8103
966931	AG1-431A	101.0840	80/20	101.0840
WEC	WEC	0.1518	Confirmed LTF	0.1518
LGEE	LGEE	0.3098	Confirmed LTF	0.3098
CPL	CPL	1.7581	Confirmed LTF	1.7581
CBM-W2	CBM-W2	6.5139	Confirmed LTF	6.5139
NY	NY	0.1477	Confirmed LTF	0.1477
TVA	TVA	1.2166	Confirmed LTF	1.2166
SIGE	SIGE	0.0886	Confirmed LTF	0.0886
CBM-S2	CBM-S2	18.9277	Confirmed LTF	18.9277
CBM-S1	CBM-S1	0.3044	Confirmed LTF	0.3044
MEC	MEC	0.9010	Confirmed LTF	0.9010
LAGN	LAGN	1.5190	Confirmed LTF	1.5190
CBM-W1	CBM-W1	6.4071	Confirmed LTF	6.4071

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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
163345965	313725	6DRY BREAD	DVP	314563	6CLUBHSE	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	196.96	199.76	DC	12.82

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

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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
163836132	313845	6HATHAWAY	DVP	304222	6ROCKYMT230T	CPL	1	DVP_P1-2: LN 2181	single	478.0	121.57	122.86	DC	6.19

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

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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
174303650	313851	6ECITYDP2	DVP	314638	6ELIZ CT	DVP	1	DVP_P4-2: 246T247	breaker	1204.0	159.45	161.9	DC	29.56

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	1HOLLOMAN SOL	1.7275	50/50	1.7275

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

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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
168524089	313885	6WALBMRL	DVP	313714	6PERQUIMANS	DVP	1	Base Case	single	733.2	139.78	142.02	DC	16.44

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1331	80/20	2.1331
313719	3CHESTNUT	0.5165	80/20	0.5165
314582	3KELFORD	0.2333	80/20	0.2333
314589	3MURPHYS	0.0370	80/20	0.0370
314623	3WITAKRS	0.0940	80/20	0.0940
315126	1ROARAP2	0.5120	80/20	0.5120
315128	1ROARAP4	0.4886	80/20	0.4886
315131	1EDGECSMA (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315132	1EDGECSMB (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315136	1ROSEMG1	0.8655	80/20	0.8655
315137	1ROSEMS1	0.5367	80/20	0.5367
315138	1ROSEMG2	0.4057	80/20	0.4057
315139	1GASTONA	1.2468	80/20	1.2468
315141	1GASTONB	1.2468	80/20	1.2468
315292	1DOMTR78	2.6052	80/20	2.6052
315293	1DOMTR9	13.4746	80/20	13.4746
315294	1DOMTR10	16.5130	80/20	16.5130
315601	1CONETOESOL	0.8402	80/20	0.8402
315602	1HOLLOMAN SOL	1.2190	80/20	1.2190
315606	3AA2-053SOLA	0.6464	80/20	0.6464

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315607	3AA1-063SOLA	0.4733	80/20	0.4733
315614	AA2-178 C	4.4673	80/20	4.4673
316020	AB2-059 C OP	0.7167	80/20	0.7167
316087	AB2-174 C	0.3340	80/20	0.3340
316140	AB2-099 C (Suspended)	0.3837	80/20	0.3837
920591	AA2-165 C	0.0693	80/20	0.0693
922922	AB1-081 C OP	0.6081	80/20	0.6081
923991	AB2-040 C O1	2.3232	80/20	2.3232
925121	AB2-169 C	1.6131	80/20	1.6131
925591	AC1-034 C	2.9425	80/20	2.9425
926070	AC1-086 C	8.8866	80/20	8.8866
926201	AC1-098 C	3.2283	80/20	3.2283
926211	AC1-099 C	1.0818	80/20	1.0818
927024	AC1-189 C	5.8874	80/20	5.8874
927145	AC1-208 C	4.1650	80/20	4.1650
932631	AC2-084 C	4.6021	80/20	4.6021
933991	AD1-023 C	25.2222	80/20	25.2222
934331	AD1-057 C O1	4.3394	80/20	4.3394
934521	AD1-076 C	124.5855	80/20	124.5855
936401	AD2-051 C O1	7.4492	80/20	7.4492
938221	AE1-035 C	0.3048	80/20	0.3048
940491	AE2-034 C	21.2365	80/20	21.2365
940571	AE2-044 C	1.9272	80/20	1.9272
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1250	80/20	0.1250
943171	AE2-346 C	0.9210	80/20	0.9210
944141	AF1-082	1.2389	80/20	1.2389
945711	AF1-236 C O1	232.4887	80/20	232.4887
957521	AF2-046 C	7.9381	80/20	7.9381
957531	AF2-047 C	50.4619	80/20	50.4619
957861	AF2-080 C	5.3471	80/20	5.3471
959511	AF2-242 C	9.7474	80/20	9.7474
961671	AG1-007 C	0.7149	80/20	0.7149
961681	AG1-008 C	7.9540	80/20	7.9540
961931	AG1-036 C	0.7739	80/20	0.7739
961941	AG1-037 C	0.3289	80/20	0.3289
962331	AG1-082 C	1.3157	80/20	1.3157
962341	AG1-083 C	1.3157	80/20	1.3157
962351	AG1-084 C	1.2792	80/20	1.2792
962361	AG1-085 C	1.2792	80/20	1.2792
962571	AG1-106 C	2.4713	80/20	2.4713
964491	AG1-312 C O1	18.8709	80/20	18.8709
964501	AG1-313 C O2	2.4271	80/20	2.4271
964801	AG1-343 C	1.8970	80/20	1.8970
965291	AG1-394 C	0.6046	80/20	0.6046
965631	AG1-431	134.5987	80/20	134.5987
965691	AG1-437 C O1	16.4358	80/20	16.4358
965701	AG1-438 C O1	16.4358	80/20	16.4358
965711	AG1-439 C O1	15.0720	80/20	15.0720
965741	AG1-442 O1	9.5876	80/20	9.5876
965751	AG1-443 O1	9.5876	80/20	9.5876
965761	AG1-444 O1	8.0384	80/20	8.0384

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966801	AG1-551 C	2.4639	80/20	2.4639
966811	AG1-552 C	0.8130	80/20	0.8130
966931	AG1-431A	101.1260	80/20	101.1260
WEC	WEC	0.1581	Confirmed LTF	0.1581
LGEE	LGEE	0.3223	Confirmed LTF	0.3223
CPL	CPL	1.7718	Confirmed LTF	1.7718
CBM-W2	CBM-W2	6.6931	Confirmed LTF	6.6931
NY	NY	0.1366	Confirmed LTF	0.1366
TVA	TVA	1.2446	Confirmed LTF	1.2446
SIGE	SIGE	0.0886	Confirmed LTF	0.0886
CBM-S2	CBM-S2	19.1365	Confirmed LTF	19.1365
CBM-S1	CBM-S1	0.3120	Confirmed LTF	0.3120
MEC	MEC	0.9327	Confirmed LTF	0.9327
LAGN	LAGN	1.5540	Confirmed LTF	1.5540
CBM-W1	CBM-W1	6.6875	Confirmed LTF	6.6875

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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
168829200	314203	6MACKEYS	DVP	314637	6EDENTON	DVP	1	Base Case	single	731.32	140.11	142.36	DC	16.44

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1331	80/20	2.1331
313719	3CHESTNUT	0.5165	80/20	0.5165
314582	3KELFORD	0.2333	80/20	0.2333
314589	3MURPHYS	0.0370	80/20	0.0370
314623	3WITAKRS	0.0940	80/20	0.0940
315126	1ROARAP2	0.5120	80/20	0.5120
315128	1ROARAP4	0.4886	80/20	0.4886
315131	1EDGE CMA (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315132	1EDGE CMB (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315136	1ROSEMG1	0.8655	80/20	0.8655
315137	1ROSEMS1	0.5367	80/20	0.5367
315138	1ROSEMG2	0.4057	80/20	0.4057
315139	1GASTONA	1.2468	80/20	1.2468
315141	1GASTONB	1.2468	80/20	1.2468
315292	1DOMTR78	2.6052	80/20	2.6052
315293	1DOMTR9	13.4746	80/20	13.4746
315294	1DOMTR10	16.5130	80/20	16.5130
315601	1CONETOE2SOL	0.8402	80/20	0.8402
315602	1HOLLOMAN SOL	1.2190	80/20	1.2190
315606	3AA2-053SOLA	0.6464	80/20	0.6464
315607	3AA1-063SOLA	0.4733	80/20	0.4733
315614	AA2-178 C	4.4673	80/20	4.4673

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316020	AB2-059 C OP	0.7167	80/20	0.7167
316087	AB2-174 C	0.3340	80/20	0.3340
316140	AB2-099 C (Suspended)	0.3837	80/20	0.3837
920591	AA2-165 C	0.0693	80/20	0.0693
922922	AB1-081 C OP	0.6081	80/20	0.6081
923991	AB2-040 C O1	2.3232	80/20	2.3232
925121	AB2-169 C	1.6131	80/20	1.6131
925591	AC1-034 C	2.9425	80/20	2.9425
926070	AC1-086 C	8.8866	80/20	8.8866
926201	AC1-098 C	3.2283	80/20	3.2283
926211	AC1-099 C	1.0818	80/20	1.0818
927024	AC1-189 C	5.8874	80/20	5.8874
927145	AC1-208 C	4.1650	80/20	4.1650
932631	AC2-084 C	4.6021	80/20	4.6021
933991	AD1-023 C	25.2222	80/20	25.2222
934331	AD1-057 C O1	4.3394	80/20	4.3394
934521	AD1-076 C	124.5855	80/20	124.5855
936401	AD2-051 C O1	7.4492	80/20	7.4492
938221	AE1-035 C	0.3048	80/20	0.3048
940491	AE2-034 C	21.2365	80/20	21.2365
940571	AE2-044 C	1.9272	80/20	1.9272
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1250	80/20	0.1250
943171	AE2-346 C	0.9210	80/20	0.9210
944141	AF1-082	1.2389	80/20	1.2389
945711	AF1-236 C O1	232.4887	80/20	232.4887
957521	AF2-046 C	7.9381	80/20	7.9381
957531	AF2-047 C	50.4619	80/20	50.4619
957861	AF2-080 C	5.3471	80/20	5.3471
959511	AF2-242 C	9.7474	80/20	9.7474
961671	AG1-007 C	0.7149	80/20	0.7149
961681	AG1-008 C	7.9540	80/20	7.9540
961931	AG1-036 C	0.7739	80/20	0.7739
961941	AG1-037 C	0.3289	80/20	0.3289
962331	AG1-082 C	1.3157	80/20	1.3157
962341	AG1-083 C	1.3157	80/20	1.3157
962351	AG1-084 C	1.2792	80/20	1.2792
962361	AG1-085 C	1.2792	80/20	1.2792
962571	AG1-106 C	2.4713	80/20	2.4713
964491	AG1-312 C O1	18.8709	80/20	18.8709
964501	AG1-313 C O2	2.4271	80/20	2.4271
964801	AG1-343 C	1.8970	80/20	1.8970
965291	AG1-394 C	0.6046	80/20	0.6046
965631	AG1-431	134.5987	80/20	134.5987
965691	AG1-437 C O1	16.4358	80/20	16.4358
965701	AG1-438 C O1	16.4358	80/20	16.4358
965711	AG1-439 C O1	15.0720	80/20	15.0720
965741	AG1-442 O1	9.5876	80/20	9.5876
965751	AG1-443 O1	9.5876	80/20	9.5876
965761	AG1-444 O1	8.0384	80/20	8.0384
966801	AG1-551 C	2.4639	80/20	2.4639
966811	AG1-552 C	0.8130	80/20	0.8130

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966931	AG1-431A	101.1260	80/20	101.1260
WEC	WEC	0.1581	Confirmed LTF	0.1581
LGEE	LGEE	0.3223	Confirmed LTF	0.3223
CPL	CPL	1.7718	Confirmed LTF	1.7718
CBM-W2	CBM-W2	6.6931	Confirmed LTF	6.6931
NY	NY	0.1366	Confirmed LTF	0.1366
TVA	TVA	1.2446	Confirmed LTF	1.2446
SIGE	SIGE	0.0886	Confirmed LTF	0.0886
CBM-S2	CBM-S2	19.1365	Confirmed LTF	19.1365
CBM-S1	CBM-S1	0.3120	Confirmed LTF	0.3120
MEC	MEC	0.9327	Confirmed LTF	0.9327
LAGN	LAGN	1.5540	Confirmed LTF	1.5540
CBM-W1	CBM-W1	6.6875	Confirmed LTF	6.6875

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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
174303729	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P4-2: 24972-4	breaker	830.0	131.67	132.14	DC	8.75

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	10.5735	50/50	10.5735
313719	3CHESTNUT	0.9428	50/50	0.9428
314435	6SAPONY	1.2275	50/50	1.2275
314572	3EMPORIA	0.7536	50/50	0.7536
314582	3KELFORD	0.2676	50/50	0.2676
314623	3WITAKRS	0.1680	50/50	0.1680
314704	3LAWRENC	0.4418	50/50	0.4418
315126	1ROARAP2	1.5148	50/50	1.5148
315128	1ROARAP4	1.4455	50/50	1.4455
315131	1EDGECEMA (Deactivation : 22/04/2019)	5.9648	Adder	7.02
315132	1EDGECEMB (Deactivation : 22/04/2019)	7.0174	50/50	7.0174
315136	1ROSEMG1	2.7656	50/50	2.7656
315137	1ROSEMS1	1.7149	50/50	1.7149
315138	1ROSEMG2	1.2961	50/50	1.2961
315139	1GASTONA	4.2311	50/50	4.2311
315141	1GASTONB	4.2311	50/50	4.2311
315606	3AA2-053SOLA	1.5362	50/50	1.5362
315607	3AA1-063SOLA	1.2848	50/50	1.2848
316087	AB2-174 C	1.8305	50/50	1.8305
316088	AB2-174 E	10.4971	50/50	10.4971
316096	AB2-100 C1	2.0829	50/50	2.0829
316097	AB2-100 E1	6.5025	50/50	6.5025
316098	AB2-100 C2	2.0829	50/50	2.0829

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961931	AG1-036 C	0.4212	Adder	0.93
961932	AG1-036 E	0.2808	Adder	0.62
961941	AG1-037 C	0.1572	Adder	0.35
961942	AG1-037 E	0.1048	Adder	0.23
962271	AG1-075 C O2	50.4715	50/50	50.4715
962272	AG1-075 E O2	30.7595	50/50	30.7595
962331	AG1-082 C	0.6288	Adder	1.4
962332	AG1-082 E	0.4192	Adder	0.93
962341	AG1-083 C	0.6288	Adder	1.4
962342	AG1-083 E	0.4192	Adder	0.93
962351	AG1-084 C	0.5538	Adder	1.23
962352	AG1-084 E	0.3692	Adder	0.82
962361	AG1-085 C	0.5538	Adder	1.23
962362	AG1-085 E	0.3692	Adder	0.82
962491	AG1-098 C O2	3.3558	Adder	7.45
962492	AG1-098 E O2	2.2372	Adder	4.97
962571	AG1-106 C	8.3867	50/50	8.3867
962572	AG1-106 E	3.8033	50/50	3.8033
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966622	AG1-532 E	1.7134	50/50	1.7134
966733	AG1-544 BAT	0.9486	Merchant Transmission	0.9486
966743	AG1-545 BAT	0.3125	Merchant Transmission	0.3125
966751	AG1-546 C	14.7738	50/50	14.7738
966752	AG1-546 E	7.9272	50/50	7.9272
966801	AG1-551 C	0.5745	Adder	1.28
966802	AG1-551 E	0.2462	Adder	0.55
966811	AG1-552 C	2.4051	50/50	2.4051
966812	AG1-552 E	1.0308	50/50	1.0308
WEC	WEC	0.2466	Confirmed LTF	0.2466
LGEE	LGEE	0.5064	Confirmed LTF	0.5064
CPL	CPL	2.7580	Confirmed LTF	2.7580
CBM-W2	CBM-W2	10.7072	Confirmed LTF	10.7072
NY	NY	0.3041	Confirmed LTF	0.3041
TVA	TVA	2.0104	Confirmed LTF	2.0104
O-066	O-066	4.3274	Confirmed LTF	4.3274
SIGE	SIGE	0.1578	Confirmed LTF	0.1578
CBM-S2	CBM-S2	30.9024	Confirmed LTF	30.9024
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
174303616	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	178.5	179.19	DC	8.19

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315131	1EDGE CMA (Deactivation : 22/04/2019)	4.8570	Adder	5.71
315132	1EDGE CMB (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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
174303615	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	178.52	179.2	DC	8.19

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	1EDGE CMA (Deactivation : 22/04/2019)	4.8570	Adder	5.71
315132	1EDGE CMB (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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CPLE	CPLE	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
163346289	314537	6SUFFOLK	DVP	314525	6KINGFORK	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	100.95	101.47	DC	9.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.2179	50/50	0.2179
313717	6SLIGO L2192	1.0069	Adder	1.18
314466	6FENTRES	0.9173	Adder	1.08
314539	3UNCAMP	3.9613	50/50	3.9613
314541	3WATKINS	0.4248	50/50	0.4248
314550	6HICKORY	1.7335	Adder	2.04
314594	6PLYMOTH	0.0452	Adder	0.05
314632	6AYDLETOLD	1.0279	Adder	1.21
314638	6ELIZ CT	0.1274	50/50	0.1274
314639	6TANGLEW	0.2443	50/50	0.2443
315073	1STONECA	-2.9977	Adder	-3.53
315115	1S HAMPT1	0.8812	50/50	0.8812
315293	1DOMTR9	3.1729	Adder	3.73
315294	1DOMTR10	3.8883	Adder	4.57
315605	6W1-029WIND	0.7650	50/50	0.7650
315611	6Z1-036WIND	0.7028	50/50	0.7028
315614	AA2-178 C	0.9211	50/50	0.9211
316103	AB2-015 C	5.4560	50/50	5.4560
316104	AB2-015 E	4.4739	50/50	4.4739
316132	AB2-190 C	-15.9955	Adder	-18.82
316140	AB2-099 C (Suspended)	0.2540	Adder	0.3
316141	AB2-099 E (Suspended)	0.1089	Adder	0.13
900672	V4-068 E	0.1318	Adder	0.16
901082	W1-029 E	32.4501	50/50	32.4501
913392	Y1-086 E	1.3171	50/50	1.3171

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
916042	Z1-036 E (Suspended)	29.8457	50/50	29.8457
916192	Z1-068 E	0.7783	Adder	0.92
917122	Z2-027 E	0.6637	50/50	0.6637
917332	Z2-043 E	0.4166	Adder	0.49
918512	AA1-065 E OP	1.8617	Adder	2.19
919152	AA1-139 E	2.8911	Adder	3.4
920042	AA2-088 E OP	4.8099	Adder	5.66
920692	AA2-178 E	2.5022	50/50	2.5022
923832	AB2-022 E	0.7435	50/50	0.7435
925122	AB2-169 E	2.4829	Adder	2.92
925522	AC1-027 E	0.4737	Adder	0.56
926662	AC1-147 E	0.5182	Adder	0.61
932044	AC2-012 C	3.9913	Adder	4.7
932046	AC2-012 E	6.5121	Adder	7.66
932591	AC2-079 C O1	2.1591	Adder	2.54
932592	AC2-079 E O1	3.5227	Adder	4.14
933732	AC2-196 E	0.4927	Adder	0.58
933991	AD1-023 C	6.3733	Adder	7.5
933992	AD1-023 E	3.4697	Adder	4.08
934061	AD1-033 C	3.1130	Adder	3.66
934062	AD1-033 E	2.0754	Adder	2.44
934521	AD1-076 C	26.8097	Adder	31.54
934522	AD1-076 E	13.6515	Adder	16.06
936401	AD2-051 C O1	4.0157	Adder	4.72
936402	AD2-051 E O1	1.7243	Adder	2.03
936661	AD2-085 C	2.0287	50/50	2.0287
936662	AD2-085 E	3.3100	50/50	3.3100
937221	AD2-160 C O1	2.5744	Adder	3.03
937222	AD2-160 E O1	1.3500	Adder	1.59
938222	AE1-035 E	0.5120	Adder	0.6
938535	AE1-072 C	8.1381	Adder	9.57
938536	AE1-072 E	4.1924	Adder	4.93
938771	AE1-103 C	2.4734	50/50	2.4734
938772	AE1-103 E	3.4156	50/50	3.4156
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	66.6028	Adder	78.36
940491	AE2-034 C	4.3789	50/50	4.3789
940492	AE2-034 E	1.8767	50/50	1.8767
940891	AE2-078 C	-2.7721	Adder	-3.26
940901	AE2-079 C	-2.7721	Adder	-3.26
941101	AE2-104 C O1	2.6480	50/50	2.6480
941102	AE2-104 E O1	4.2100	50/50	4.2100
941281	AE2-122 C O1	11.8209	Adder	13.91
941282	AE2-122 E O1	47.7002	Adder	56.12
941291	AE2-123 C O1	12.1482	Adder	14.29
941292	AE2-123 E O1	47.3728	Adder	55.73
941301	AE2-124 C O1	11.1103	Adder	13.07
941302	AE2-124 E O1	48.7508	Adder	57.35
941501	AE2-147 C	11.1897	50/50	11.1897
941502	AE2-147 E	7.4598	50/50	7.4598
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2519	Adder	0.3
941591	AE2-156 O1	6.9173	Adder	8.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942131	AE2-225 C	1.9651	50/50	1.9651
942132	AE2-225 E	1.3101	50/50	1.3101
942171	AE2-229 C	1.4738	50/50	1.4738
942172	AE2-229 E	0.9826	50/50	0.9826
942341	AE2-247 C	0.8750	50/50	0.8750
942342	AE2-247 E	1.2084	50/50	1.2084
942401	AE2-253 C	2.7079	Adder	3.19
942402	AE2-253 E	1.2166	Adder	1.43
942552	AE2-270 BAT	26.8335	50/50	26.8335
943171	AE2-346 C	0.6097	Adder	0.72
943172	AE2-346 E	0.2613	Adder	0.31
943461	AF1-017 C	0.7917	50/50	0.7917
943462	AF1-017 E	1.2917	50/50	1.2917
943611	AF1-032 C	1.6048	50/50	1.6048
943612	AF1-032 E	0.8516	50/50	0.8516
943621	AF1-033 C	-2.7721	Adder	-3.26
944581	AF1-123 C O1	16.7416	Adder	19.7
944582	AF1-123 E O1	38.3336	Adder	45.1
944591	AF1-124 C O1	16.7416	Adder	19.7
944592	AF1-124 E O1	38.3336	Adder	45.1
944601	AF1-125 C O1	16.7416	Adder	19.7
944602	AF1-125 E O1	38.3336	Adder	45.1
944871	AF1-152 C	3.7299	50/50	3.7299
944872	AF1-152 E	2.4866	50/50	2.4866
945363	AF1-201 BAT	2.1406	50/50	2.1406
945711	AF1-236 C O1	47.9387	50/50	47.9387
945712	AF1-236 E O1	29.6098	50/50	29.6098
957491	AF2-043 C	1.9651	50/50	1.9651
957492	AF2-043 E	1.3101	50/50	1.3101
957521	AF2-046 C	7.3946	Adder	8.7
957522	AF2-046 E	3.7195	Adder	4.38
957531	AF2-047 C	10.4051	50/50	10.4051
957532	AF2-047 E	5.2339	50/50	5.2339
957631	AF2-057	1.4005	Adder	1.65
957821	AF2-076 C	4.7160	50/50	4.7160
957822	AF2-076 E	3.1440	50/50	3.1440
957871	AF2-081 C	4.4972	Adder	5.29
957872	AF2-081 E	1.9274	Adder	2.27
958161	AF2-110 C	1.0917	50/50	1.0917
958162	AF2-110 E	1.7075	50/50	1.7075
959511	AF2-242 C	2.9869	Adder	3.51
959512	AF2-242 E	2.3232	Adder	2.73
961091	AF2-400 C	0.2946	50/50	0.2946
961092	AF2-400 E	0.4834	50/50	0.4834
961612	AG1-000B BAT	14.0835	50/50	14.0835
961681	AG1-008 C	3.9270	Adder	8.72
961682	AG1-008 E	1.9635	Adder	4.36
961691	AG1-009 BAT	11.2668	50/50	11.2668
961712	AG1-011 BAT	30.0448	50/50	30.0448
961851	AG1-027 C	12.6807	50/50	12.6807
961852	AG1-027 E	7.0098	50/50	7.0098
961931	AG1-036 C	0.3146	Adder	0.7

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961932	AG1-036 E	0.2097	Adder	0.47
961941	AG1-037 C	0.1154	Adder	0.26
961942	AG1-037 E	0.0769	Adder	0.17
962331	AG1-082 C	0.4616	Adder	1.02
962332	AG1-082 E	0.3077	Adder	0.68
962341	AG1-083 C	0.4616	Adder	1.02
962342	AG1-083 E	0.3077	Adder	0.68
962351	AG1-084 C	0.4005	Adder	0.89
962352	AG1-084 E	0.2670	Adder	0.59
962361	AG1-085 C	0.4005	Adder	0.89
962362	AG1-085 E	0.2670	Adder	0.59
963821	AG1-235 C O2	5.3197	Adder	11.81
963822	AG1-235 E O2	3.5465	Adder	7.87
964491	AG1-312 C O1	4.6404	Adder	10.3
964492	AG1-312 E O1	1.1601	Adder	2.58
964801	AG1-343 C	1.3979	Adder	3.1
964802	AG1-343 E	1.0984	Adder	2.44
964951	AG1-359 O1	5.8817	Adder	13.06
965001	AG1-364 C O2	1.4807	Adder	3.29
965002	AG1-364 E O2	2.2211	Adder	4.93
965181	AG1-383 C	0.6182	Adder	1.37
965182	AG1-383 E	0.1831	Adder	0.41
965291	AG1-394 C	0.4805	Adder	1.07
965292	AG1-394 E	0.3204	Adder	0.71
965631	AG1-431	27.7540	50/50	27.7540
965691	AG1-437 C O1	2.5687	Adder	5.7
965692	AG1-437 E O1	1.7124	Adder	3.8
965701	AG1-438 C O1	2.5687	Adder	5.7
965702	AG1-438 E O1	1.7124	Adder	3.8
965741	AG1-442 O1	1.4984	Adder	3.33
965751	AG1-443 O1	1.4984	Adder	3.33
966491	AG1-518 O2	8.0420	50/50	8.0420
966801	AG1-551 C	0.4623	Adder	1.03
966802	AG1-551 E	0.1981	Adder	0.44
966931	AG1-431A	20.8520	50/50	20.8520
WEC	WEC	0.2139	Confirmed LTF	0.2139
LGEE	LGEE	0.4342	Confirmed LTF	0.4342
CPL	CPL	1.7438	Confirmed LTF	1.7438
CBM-W2	CBM-W2	8.2970	Confirmed LTF	8.2970
NY	NY	0.0498	Confirmed LTF	0.0498
TVA	TVA	1.4980	Confirmed LTF	1.4980
O-066	O-066	0.9624	Confirmed LTF	0.9624
SIGE	SIGE	0.0910	Confirmed LTF	0.0910
CBM-S2	CBM-S2	20.5042	Confirmed LTF	20.5042
CBM-S1	CBM-S1	0.3804	Confirmed LTF	0.3804
G-007	G-007	0.1544	Confirmed LTF	0.1544
MEC	MEC	1.2140	Confirmed LTF	1.2140
LAGN	LAGN	1.8672	Confirmed LTF	1.8672
CBM-W1	CBM-W1	9.1551	Confirmed LTF	9.1551

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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
174478322	314537	6SUFFOLK	DVP	314928	8SUFFOLK	DVP	2	DVP_P4-2: 211042	breaker	1004.3	125.55	127.73	DC	21.89

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
174478375	314537	6SUFFOLK	DVP	314928	8SUFFOLK	DVP	1	DVP_P4-2: 28942	breaker	1053.5	114.29	116.48	DC	23.09

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
174303721	314550	6HICKORY	DVP	314466	6FENTRES	DVP	1	DVP_P4-2: 246T247	breaker	699.0	135.45	137.61	DC	15.06

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.8105	50/50	0.8105
313717	6SLIGO L2192	6.2400	50/50	6.2400
314550	6HICKORY	19.8234	50/50	19.8234
314594	6PLYMOTH	0.1066	50/50	0.1066
314632	6AYDLETOLD	5.3274	50/50	5.3274
314638	6ELIZ CT	0.4738	50/50	0.4738
314639	6TANGLEW	0.8342	50/50	0.8342
314643	3O INLET	1.0169	50/50	1.0169
315292	1DOMTR78	1.3177	50/50	1.3177
315293	1DOMTR9	6.8152	50/50	6.8152
315294	1DOMTR10	8.3520	50/50	8.3520
315602	1HOLLOMANSOL	0.8795	50/50	0.8795
315603	6AA1-139SOLA	7.2588	50/50	7.2588
315605	6W1-029WIND	2.1208	50/50	2.1208
315611	6Z1-036WIND	1.9066	50/50	1.9066
315614	AA2-178 C	2.0826	50/50	2.0826
901082	W1-029 E	89.9615	50/50	89.9615
913392	Y1-086 E	4.9001	50/50	4.9001
916042	Z1-036 E (Suspended)	80.9690	50/50	80.9690
917122	Z2-027 E	2.2660	50/50	2.2660
918512	AA1-065 E OP	2.4960	50/50	2.4960
918532	AA1-067 E	0.3142	Adder	0.37
919152	AA1-139 E	21.0460	50/50	21.0460
920692	AA2-178 E	5.6573	50/50	5.6573
923832	AB2-022 E	2.7662	50/50	2.7662
925121	AB2-169 C	0.8497	50/50	0.8497
925122	AB2-169 E	4.8331	50/50	4.8331
933991	AD1-023 C	13.1181	50/50	13.1181
933992	AD1-023 E	7.1415	50/50	7.1415
934521	AD1-076 C	61.5038	50/50	61.5038
934522	AD1-076 E	31.3177	50/50	31.3177
936401	AD2-051 C O1	5.3720	50/50	5.3720
936402	AD2-051 E O1	2.3067	50/50	2.3067
937221	AD2-160 C O1	22.7209	50/50	22.7209
937222	AD2-160 E O1	11.9146	50/50	11.9146
938221	AE1-035 C	0.2199	50/50	0.2199
938222	AE1-035 E	0.6864	50/50	0.6864
938535	AE1-072 C	38.8832	50/50	38.8832
938536	AE1-072 E	20.0308	50/50	20.0308
940491	AE2-034 C	9.9002	50/50	9.9002
940492	AE2-034 E	4.2430	50/50	4.2430

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941501	AE2-147 C	31.0212	50/50	31.0212
941502	AE2-147 E	20.6808	50/50	20.6808
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.2607	Adder	0.31
942401	AE2-253 C	23.8985	50/50	23.8985
942402	AE2-253 E	10.7370	50/50	10.7370
944871	AF1-152 C	10.3404	50/50	10.3404
944872	AF1-152 E	6.8936	50/50	6.8936
945711	AF1-236 C O1	108.3841	50/50	108.3841
945712	AF1-236 E O1	66.9445	50/50	66.9445
957531	AF2-047 C	23.5249	50/50	23.5249
957532	AF2-047 E	11.8331	50/50	11.8331
957821	AF2-076 C	3.1194	50/50	3.1194
957822	AF2-076 E	2.0796	50/50	2.0796
957871	AF2-081 C	32.7382	50/50	32.7382
957872	AF2-081 E	14.0306	50/50	14.0306
959511	AF2-242 C	5.3433	50/50	5.3433
959512	AF2-242 E	4.1559	50/50	4.1559
962351	AG1-084 C	0.4145	Adder	0.92
962352	AG1-084 E	0.2763	Adder	0.61
962361	AG1-085 C	0.4145	Adder	0.92
962362	AG1-085 E	0.2763	Adder	0.61
964491	AG1-312 C O1	12.6269	50/50	12.6269
964492	AG1-312 E O1	3.1567	50/50	3.1567
965181	AG1-383 C	13.3395	50/50	13.3395
965182	AG1-383 E	3.9509	50/50	3.9509
965631	AG1-431	62.7487	50/50	62.7487
965691	AG1-437 C O1	9.0372	50/50	9.0372
965692	AG1-437 E O1	6.0248	50/50	6.0248
965701	AG1-438 C O1	9.0372	50/50	9.0372
965702	AG1-438 E O1	6.0248	50/50	6.0248
965741	AG1-442 O1	5.2717	50/50	5.2717
965751	AG1-443 O1	5.2717	50/50	5.2717
966491	AG1-518 O2	17.2340	50/50	17.2340
966801	AG1-551 C	1.4206	50/50	1.4206
966802	AG1-551 E	0.6088	50/50	0.6088
966931	AG1-431A	47.1440	50/50	47.1440
WEC	WEC	0.0860	Confirmed LTF	0.0860
LGEE	LGEE	0.1759	Confirmed LTF	0.1759
CPL	CPL	1.1193	Confirmed LTF	1.1193
CBM-W2	CBM-W2	3.8797	Confirmed LTF	3.8797
NY	NY	0.1206	Confirmed LTF	0.1206
TVA	TVA	0.7364	Confirmed LTF	0.7364
O-066	O-066	1.6960	Confirmed LTF	1.6960
SIGE	SIGE	0.0582	Confirmed LTF	0.0582
CBM-S2	CBM-S2	11.9329	Confirmed LTF	11.9329
CBM-S1	CBM-S1	0.1832	Confirmed LTF	0.1832
G-007	G-007	0.2667	Confirmed LTF	0.2667
MEC	MEC	0.5212	Confirmed LTF	0.5212
LAGN	LAGN	0.9205	Confirmed LTF	0.9205
CBM-W1	CBM-W1	3.5891	Confirmed LTF	3.5891

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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
163836756	314554	3BTLEBRO	DVP	304223	3ROCKYMT115T	CPL	1	DVP_P7-1: LN 2058-2181	tower	164.0	300.45	302.22	DC	6.43

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
163346040	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	151.59	152.3	DC	13.02

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	1EDGECSMA (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315132	1EDGECSMB (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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316099	AB2-100 E2	8.8562	50/50	8.8562
316103	AB2-015 C	4.5989	Adder	5.41
316104	AB2-015 E	3.7711	Adder	4.44
316129	AC1-054 C	8.9401	50/50	8.9401
316140	AB2-099 C (Suspended)	0.5970	50/50	0.5970
316141	AB2-099 E (Suspended)	0.2558	50/50	0.2558
900672	V4-068 E	0.2984	50/50	0.2984
917332	Z2-043 E	1.1590	50/50	1.1590
917342	Z2-044 E	0.6574	50/50	0.6574
917512	Z2-088 E OP1	9.2316	50/50	9.2316
918492	AA1-063AE OP	5.5022	50/50	5.5022
918512	AA1-065 E OP	3.7133	50/50	3.7133
918532	AA1-067 E	0.5438	Adder	0.64
919692	AA2-053 E OP	5.6689	50/50	5.6689
919702	AA2-057 E OP	4.0531	50/50	4.0531
920042	AA2-088 E OP	9.9473	50/50	9.9473
920591	AA2-165 C	0.1819	50/50	0.1819
920592	AA2-165 E	0.5571	50/50	0.5571
922922	AB1-081 C OP	1.5794	50/50	1.5794
922923	AB1-081 E OP	4.2905	50/50	4.2905
923262	AB1-132 C OP (Suspended)	29.3605	50/50	29.3605
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961092	AF2-400 E	0.4075	Adder	0.48
961671	AG1-007 C	1.5192	50/50	1.5192
961672	AG1-007 E	0.8484	50/50	0.8484
961681	AG1-008 C	16.8950	50/50	16.8950
961682	AG1-008 E	8.4475	50/50	8.4475
961931	AG1-036 C	1.3755	50/50	1.3755
961932	AG1-036 E	0.9170	50/50	0.9170
961941	AG1-037 C	0.5117	50/50	0.5117
961942	AG1-037 E	0.3411	50/50	0.3411
962331	AG1-082 C	2.0467	50/50	2.0467
962332	AG1-082 E	1.3645	50/50	1.3645
962341	AG1-083 C	2.0467	50/50	2.0467
962342	AG1-083 E	1.3645	50/50	1.3645
962351	AG1-084 C	1.7977	50/50	1.7977
962352	AG1-084 E	1.1985	50/50	1.1985
962361	AG1-085 C	1.7977	50/50	1.7977
962362	AG1-085 E	1.1985	50/50	1.1985
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965702	AG1-438 E O1	2.3460	Adder	5.21
965711	AG1-439 C O1	27.9180	50/50	27.9180
965712	AG1-439 E O1	18.6120	50/50	18.6120
965721	AG1-440 C	7.4813	50/50	7.4813
965722	AG1-440 E	4.9875	50/50	4.9875
965731	AG1-441 C	7.4813	50/50	7.4813
965732	AG1-441 E	4.9875	50/50	4.9875
965741	AG1-442 O1	2.0528	Adder	4.56
965751	AG1-443 O1	2.0528	Adder	4.56
965761	AG1-444 O1	14.8896	50/50	14.8896
965771	AG1-445	4.3225	50/50	4.3225
965781	AG1-446	4.3225	50/50	4.3225
966621	AG1-532 C	3.5014	50/50	3.5014
966622	AG1-532 E	2.3343	50/50	2.3343
966751	AG1-546 C	20.3177	50/50	20.3177
966752	AG1-546 E	10.9018	50/50	10.9018
966801	AG1-551 C	0.8593	Adder	1.91
966802	AG1-551 E	0.3683	Adder	0.82
966811	AG1-552 C	3.3962	50/50	3.3962
966812	AG1-552 E	1.4555	50/50	1.4555
WEC	WEC	0.2003	Confirmed LTF	0.2003
LGEE	LGEE	0.4128	Confirmed LTF	0.4128
CPL	CPL	2.4679	Confirmed LTF	2.4679
CBM-W2	CBM-W2	8.9152	Confirmed LTF	8.9152
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
169036945	314569	GEARLEYS	DVP	314575	6NUCO TP	DVP	1	DVP_P1-2: LN 2092	single	571.52	223.57	227.44	DC	22.13

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965291	AG1-394 C	1.4894	80/20	1.4894
965451	AG1-413 C O2	3.3660	80/20	3.3660
965591	AG1-427 C	3.9944	80/20	3.9944
965601	AG1-428 C O2	2.5661	80/20	2.5661
965631	AG1-431	94.5063	80/20	94.5063
965691	AG1-437 C O1	22.1316	80/20	22.1316
965701	AG1-438 C O1	22.1316	80/20	22.1316
965711	AG1-439 C O1	30.8475	80/20	30.8475
965721	AG1-440 C	4.2890	80/20	4.2890
965731	AG1-441 C	4.2890	80/20	4.2890
965741	AG1-442 O1	12.9101	80/20	12.9101
965751	AG1-443 O1	12.9101	80/20	12.9101
965761	AG1-444 O1	16.4520	80/20	16.4520
965771	AG1-445	2.4781	80/20	2.4781
965781	AG1-446	2.4781	80/20	2.4781
966621	AG1-532 C	0.8928	80/20	0.8928
966751	AG1-546 C	11.9536	80/20	11.9536
966801	AG1-551 C	3.8374	80/20	3.8374
966811	AG1-552 C	2.0442	80/20	2.0442
966931	AG1-431A	71.0040	80/20	71.0040
WEC	WEC	0.3330	Confirmed LTF	0.3330
LGEE	LGEE	0.6786	Confirmed LTF	0.6786
CPL	CPL	3.7381	Confirmed LTF	3.7381
CBM-W2	CBM-W2	14.1299	Confirmed LTF	14.1299
NY	NY	0.3019	Confirmed LTF	0.3019
TVA	TVA	2.6320	Confirmed LTF	2.6320
SIGE	SIGE	0.1896	Confirmed LTF	0.1896
CBM-S2	CBM-S2	40.4863	Confirmed LTF	40.4863
CBM-S1	CBM-S1	0.6593	Confirmed LTF	0.6593
MEC	MEC	1.9656	Confirmed LTF	1.9656
LAGN	LAGN	3.2847	Confirmed LTF	3.2847
AA2-074	AA2-074	2.4687	LTF	2.4687
CBM-W1	CBM-W1	14.0621	Confirmed LTF	14.0621

13.5.25 Index 25

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174303660	314573	3EVERETS	DVP	314574	6EVERETS	DVP	2	DVP_P4-2: H2T2014	breaker	289.3	150.29	154.24	DC	11.44

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.0828	50/50	0.0828
315292	1DOMTR78	2.2527	50/50	2.2527
315293	1DOMTR9	11.6513	50/50	11.6513
315294	1DOMTR10	14.2785	50/50	14.2785
315614	AA2-178 C	1.1658	50/50	1.1658

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
901082	W1-029 E	13.5195	Adder	15.91
913392	Y1-086 E	0.5296	Adder	0.62
916042	Z1-036 E (Suspended)	19.2387	Adder	22.63
917122	Z2-027 E	0.2829	Adder	0.33
918512	AA1-065 E OP	1.3060	Adder	1.54
920692	AA2-178 E	3.1668	50/50	3.1668
923832	AB2-022 E	0.2990	Adder	0.35
925121	AB2-169 C	2.6695	50/50	2.6695
925122	AB2-169 E	15.1851	50/50	15.1851
933991	AD1-023 C	10.4141	50/50	10.4141
933992	AD1-023 E	5.6695	50/50	5.6695
934521	AD1-076 C	50.9272	50/50	50.9272
934522	AD1-076 E	25.9320	50/50	25.9320
936401	AD2-051 C O1	2.7802	Adder	3.27
936402	AD2-051 E O1	1.1938	Adder	1.4
938222	AE1-035 E	0.3592	Adder	0.42
940491	AE2-034 C	5.5419	50/50	5.5419
940492	AE2-034 E	2.3751	50/50	2.3751
941501	AE2-147 C	4.6619	Adder	5.48
941502	AE2-147 E	3.1079	Adder	3.66
944871	AF1-152 C	1.5540	Adder	1.83
944872	AF1-152 E	1.0360	Adder	1.22
945711	AF1-236 C O1	60.6706	50/50	60.6706
945712	AF1-236 E O1	37.4738	50/50	37.4738
957531	AF2-047 C	13.1686	50/50	13.1686
957532	AF2-047 E	6.6239	50/50	6.6239
959511	AF2-242 C	23.9868	50/50	23.9868
959512	AF2-242 E	18.6564	50/50	18.6564
961601	AG1-000A BAT	2.4367	Merchant Transmission	2.4367
964491	AG1-312 C O1	3.7065	Adder	8.23
964492	AG1-312 E O1	0.9266	Adder	2.06
965631	AG1-431	35.1251	50/50	35.1251
965691	AG1-437 C O1	6.8622	50/50	6.8622
965692	AG1-437 E O1	4.5748	50/50	4.5748
965701	AG1-438 C O1	6.8622	50/50	6.8622
965702	AG1-438 E O1	4.5748	50/50	4.5748
965741	AG1-442 O1	4.0030	50/50	4.0030
965751	AG1-443 O1	4.0030	50/50	4.0030
965762	AG1-444 BAT	9.6624	50/50	9.6624
966801	AG1-551 C	8.7009	50/50	8.7009
966802	AG1-551 E	3.7289	50/50	3.7289
966931	AG1-431A	26.3900	50/50	26.3900
G-007A	G-007A	0.4963	Confirmed LTF	0.4963
VFT	VFT	1.3223	Confirmed LTF	1.3223
CALDERWOOD	CALDERWOOD	0.5313	Confirmed LTF	0.5313
PRAIRIE	PRAIRIE	1.8055	Confirmed LTF	1.8055
CHEOAH	CHEOAH	0.5445	Confirmed LTF	0.5445
CBM-N	CBM-N	0.2412	Confirmed LTF	0.2412
COTTONWOOD	COTTONWOOD	1.9761	Confirmed LTF	1.9761
HAMLET	HAMLET	1.2151	Confirmed LTF	1.2151
GIBSON	GIBSON	0.3134	Confirmed LTF	0.3134
BLUEG	BLUEG	0.9635	Confirmed LTF	0.9635

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
TRIMBLE	TRIMBLE	0.3055	Confirmed LTF	0.3055
CATAWBA	CATAWBA	0.5722	Confirmed LTF	0.5722

13.5.26 Index 26

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174303709	314573	3EVERETS	DVP	314574	6EVERETS	DVP	1	DVP_P4-2: H4T2014	breaker	328.7	130.81	134.25	DC	11.33

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.0820	50/50	0.0820
315292	1DOMTR78	2.2317	50/50	2.2317
315293	1DOMTR9	11.5427	50/50	11.5427
315294	1DOMTR10	14.1455	50/50	14.1455
315614	AA2-178 C	1.1549	50/50	1.1549
901082	W1-029 E	13.3931	Adder	15.76
916042	Z1-036 E (Suspended)	19.0610	Adder	22.42
917122	Z2-027 E	0.2803	Adder	0.33
918512	AA1-065 E OP	1.2938	Adder	1.52
920692	AA2-178 E	3.1373	50/50	3.1373
925121	AB2-169 C	2.6447	50/50	2.6447
925122	AB2-169 E	15.0437	50/50	15.0437
933991	AD1-023 C	10.3170	50/50	10.3170
933992	AD1-023 E	5.6166	50/50	5.6166
934521	AD1-076 C	50.4557	50/50	50.4557
934522	AD1-076 E	25.6920	50/50	25.6920
936401	AD2-051 C O1	2.7544	Adder	3.24
936402	AD2-051 E O1	1.1827	Adder	1.39
938222	AE1-035 E	0.3558	Adder	0.42
940491	AE2-034 C	5.4902	50/50	5.4902
940492	AE2-034 E	2.3530	50/50	2.3530
941501	AE2-147 C	4.6183	Adder	5.43
941502	AE2-147 E	3.0789	Adder	3.62
944871	AF1-152 C	1.5394	Adder	1.81
944872	AF1-152 E	1.0263	Adder	1.21
945711	AF1-236 C O1	60.1051	50/50	60.1051
945712	AF1-236 E O1	37.1245	50/50	37.1245
957531	AF2-047 C	13.0459	50/50	13.0459
957532	AF2-047 E	6.5621	50/50	6.5621
959511	AF2-242 C	23.7636	50/50	23.7636
959512	AF2-242 E	18.4828	50/50	18.4828
961601	AG1-000A BAT	2.4143	Merchant Transmission	2.4143
964491	AG1-312 C O1	3.6722	Adder	8.15
964492	AG1-312 E O1	0.9180	Adder	2.04
965631	AG1-431	34.7977	50/50	34.7977
965691	AG1-437 C O1	6.7980	50/50	6.7980

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965692	AG1-437 E O1	4.5320	50/50	4.5320
965701	AG1-438 C O1	6.7980	50/50	6.7980
965702	AG1-438 E O1	4.5320	50/50	4.5320
965741	AG1-442 O1	3.9655	50/50	3.9655
965751	AG1-443 O1	3.9655	50/50	3.9655
965762	AG1-444 BAT	9.5720	50/50	9.5720
966801	AG1-551 C	8.6198	50/50	8.6198
966802	AG1-551 E	3.6942	50/50	3.6942
966931	AG1-431A	26.1440	50/50	26.1440
G-007A	G-007A	0.4915	Confirmed LTF	0.4915
VFT	VFT	1.3094	Confirmed LTF	1.3094
CALDERWOOD	CALDERWOOD	0.5263	Confirmed LTF	0.5263
PRAIRIE	PRAIRIE	1.7900	Confirmed LTF	1.7900
CHEOAH	CHEOAH	0.5395	Confirmed LTF	0.5395
CBM-N	CBM-N	0.2388	Confirmed LTF	0.2388
COTTONWOOD	COTTONWOOD	1.9593	Confirmed LTF	1.9593
HAMLET	HAMLET	1.2035	Confirmed LTF	1.2035
GIBSON	GIBSON	0.3107	Confirmed LTF	0.3107
BLUEG	BLUEG	0.9548	Confirmed LTF	0.9548
TRIMBLE	TRIMBLE	0.3027	Confirmed LTF	0.3027
CATAWBA	CATAWBA	0.5670	Confirmed LTF	0.5670

13.5.27 Index 27

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
163836759	314574	6EVERETS	DVP	304451	6GREENVILLE	CPL	1	DVP_P7-1: LN 2058-2181	tower	478.0	206.41	210.09	DC	17.58

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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	1HOLLOMANSOL	1.5332	50/50	1.5332
315606	3AA2-053SOLA	0.9398	50/50	0.9398
315611	6Z1-036WIND	0.6573	50/50	0.6573
315614	AA2-178 C	1.2997	50/50	1.2997
316088	AB2-174 E	2.7352	Adder	3.22
316097	AB2-100 E1	1.2133	Adder	1.43
316099	AB2-100 E2	1.2133	Adder	1.43
316103	AB2-015 C	3.5908	Adder	4.22
316104	AB2-015 E	2.9445	Adder	3.46
316140	AB2-099 C (Suspended)	0.5180	50/50	0.5180
316141	AB2-099 E (Suspended)	0.2220	50/50	0.2220
900672	V4-068 E	0.2092	50/50	0.2092
901082	W1-029 E	18.7397	Adder	22.05
913392	Y1-086 E	0.7676	Adder	0.9
916042	Z1-036 E (Suspended)	27.9147	50/50	27.9147
917122	Z2-027 E	0.3981	Adder	0.47
917332	Z2-043 E	0.8838	50/50	0.8838
917342	Z2-044 E	0.2085	Adder	0.25
917512	Z2-088 E OP1	12.8742	50/50	12.8742
918492	AA1-063AE OP	2.0182	Adder	2.37
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
169036963	314575	6NUCO TP	DVP	957820	AF2-076 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	214.89	218.76	DC	22.13

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	5.3764	80/20	5.3764
313527	AB2-043 C	0.1797	80/20	0.1797
313719	3CHESTNUT	1.2166	80/20	1.2166
314572	3EMPORIA	0.2919	80/20	0.2919
314582	3KELFORD	0.6058	80/20	0.6058
314589	3MURPHYS	0.0945	80/20	0.0945
314623	3WITAKRS	0.2162	80/20	0.2162
314704	3LAWRENC	0.1658	80/20	0.1658
315115	1S HAMPT1	0.4948	80/20	0.4948
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGE CMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315132	1EDGE CMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6257	80/20	2.6257
315293	1DOMTR9	13.5803	80/20	13.5803

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
175123790	314579	6HORNRTN	DVP	934330	AD1-057 TAP	DVP	1	DVP_P1-2: LN 238-B	single	441.8	119.21	120.29	DC	4.77

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	0.4583	80/20	0.4583
316140	AB2-099 C (Suspended)	0.3741	80/20	0.3741
923991	AB2-040 C O1	7.1676	80/20	7.1676
924301	AB2-077 C O1 (Suspended)	0.6449	80/20	0.6449
924311	AB2-078 C O1 (Suspended)	0.6449	80/20	0.6449
924321	AB2-079 C O1 (Suspended)	0.6449	80/20	0.6449
925591	AC1-034 C	-5.1726	Adder	-6.09
926070	AC1-086 C	46.8402	80/20	46.8402
933991	AD1-023 C	5.5252	80/20	5.5252
934521	AD1-076 C	19.4152	80/20	19.4152
936361	AD2-046 C O1	3.7209	80/20	3.7209
936401	AD2-051 C O1	5.6765	80/20	5.6765
938221	AE1-035 C	0.2134	80/20	0.2134
938771	AE1-103 C	1.5114	80/20	1.5114
939181	AE1-148 C	3.6364	80/20	3.6364
940491	AE2-034 C	2.2453	80/20	2.2453
940661	AE2-053 O1	1.3468	80/20	1.3468
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1068	80/20	0.1068
942451	AE2-258	0.7644	80/20	0.7644
942471	AE2-260 C O1	31.3160	80/20	31.3160
943171	AE2-346 C	0.8980	80/20	0.8980
943911	AF1-059	9.2940	80/20	9.2940
945711	AF1-236 C O1	24.5809	80/20	24.5809
946281	AF1-292 C	1.2677	80/20	1.2677
957521	AF2-046 C	11.3592	80/20	11.3592
957531	AF2-047 C	5.3353	80/20	5.3353
960081	AF2-299 C	2.1366	80/20	2.1366
961091	AF2-400 C	0.2336	80/20	0.2336
961681	AG1-008 C	11.3820	80/20	11.3820
961931	AG1-036 C	0.8921	80/20	0.8921
961941	AG1-037 C	0.3207	80/20	0.3207
962331	AG1-082 C	1.2828	80/20	1.2828
962341	AG1-083 C	1.2828	80/20	1.2828
962351	AG1-084 C	1.0930	80/20	1.0930
962361	AG1-085 C	1.0930	80/20	1.0930
962491	AG1-098 C O2	3.9015	80/20	3.9015
962571	AG1-106 C	13.0259	80/20	13.0259
963301	AG1-179 C	3.6710	80/20	3.6710
963311	AG1-180	1.7886	80/20	1.7886
964491	AG1-312 C O1	10.8562	80/20	10.8562
964501	AG1-313 C O2	4.2584	80/20	4.2584
964801	AG1-343 C	4.1877	80/20	4.1877
964931	AG1-357 C O2	6.0120	80/20	6.0120
965291	AG1-394 C	1.4462	80/20	1.4462
965451	AG1-413 C O2	3.7663	80/20	3.7663
965591	AG1-427 C	3.6254	80/20	3.6254
965601	AG1-428 C O2	3.0646	80/20	3.0646
965631	AG1-431	14.2311	80/20	14.2311
965691	AG1-437 C O1	4.7694	80/20	4.7694

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965701	AG1-438 C O1	4.7694	80/20	4.7694
965721	AG1-440 C	4.0406	80/20	4.0406
965731	AG1-441 C	4.0406	80/20	4.0406
965741	AG1-442 O1	2.7821	80/20	2.7821
965751	AG1-443 O1	2.7821	80/20	2.7821
965771	AG1-445	2.3345	80/20	2.3345
965781	AG1-446	2.3345	80/20	2.3345
966621	AG1-532 C	1.1538	80/20	1.1538
966751	AG1-546 C	12.6926	80/20	12.6926
966811	AG1-552 C	2.3814	80/20	2.3814
966931	AG1-431A	10.6920	80/20	10.6920
G-007A	G-007A	0.2925	Confirmed LTF	0.2925
VFT	VFT	0.7675	Confirmed LTF	0.7675
CALDERWOOD	CALDERWOOD	0.6436	Confirmed LTF	0.6436
PRAIRIE	PRAIRIE	2.2679	Confirmed LTF	2.2679
CHEOAH	CHEOAH	0.6592	Confirmed LTF	0.6592
CBM-N	CBM-N	0.1380	Confirmed LTF	0.1380
COTTONWOOD	COTTONWOOD	2.4045	Confirmed LTF	2.4045
HAMLET	HAMLET	1.4010	Confirmed LTF	1.4010
GIBSON	GIBSON	0.4040	Confirmed LTF	0.4040
BLUEG	BLUEG	1.2464	Confirmed LTF	1.2464
TRIMBLE	TRIMBLE	0.3962	Confirmed LTF	0.3962
CATAWBA	CATAWBA	0.6836	Confirmed LTF	0.6836

13.5.30 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
163345990	314583	6LAKEVEW	DVP	313725	6DRY BREAD	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	181.14	183.94	DC	12.86

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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		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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

13.5.31 Index 31

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169037175	314583	6LAKEVEW	DVP	314579	6HORNRTN	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	single	441.8	108.52	109.53	DC	4.48

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.4649	80/20	9.4649
313527	AB2-043 C	0.2332	80/20	0.2332
314572	3EMPORIA	0.6316	80/20	0.6316
314582	3KELFORD	0.1673	80/20	0.1673
314589	3MURPHYS	0.0602	80/20	0.0602
314704	3LAWRENC	0.3585	80/20	0.3585
315115	1S HAMPT1	0.8094	80/20	0.8094
315126	1ROARAP2	1.5993	80/20	1.5993
315128	1ROARAP4	1.5262	80/20	1.5262
315139	1GASTONA	6.1920	80/20	6.1920
315141	1GASTONB	6.1920	80/20	6.1920
315158	1KERR 1	0.2051	80/20	0.2051
315159	1KERR 2	0.5744	80/20	0.5744
315160	1KERR 3	0.5744	80/20	0.5744
315161	1KERR 4	0.5744	80/20	0.5744
315162	1KERR 5	0.5744	80/20	0.5744
315163	1KERR 6	0.5744	80/20	0.5744
315164	1KERR 7	0.5744	80/20	0.5744
315602	1HOLLOMANSOL	0.8046	80/20	0.8046
315606	3AA2-053SOLA	1.5880	80/20	1.5880
315607	3AA1-063SOLA	1.3779	80/20	1.3779
315608	3AA2-088SOLA	0.7277	80/20	0.7277
315614	AA2-178 C	0.4436	80/20	0.4436
316087	AB2-174 C	1.5969	80/20	1.5969
316096	AB2-100 C1	1.7208	80/20	1.7208
316098	AB2-100 C2	1.7208	80/20	1.7208
316103	AB2-015 C	4.4810	80/20	4.4810
316129	AC1-054 C	6.1219	80/20	6.1219
316131	AB2-060 C	0.6611	80/20	0.6611
316140	AB2-099 C (Suspended)	0.3702	80/20	0.3702
923991	AB2-040 C O1	10.3083	80/20	10.3083
924301	AB2-077 C O1 (Suspended)	0.9228	80/20	0.9228
924311	AB2-078 C O1 (Suspended)	0.9228	80/20	0.9228
924321	AB2-079 C O1 (Suspended)	0.9228	80/20	0.9228
925591	AC1-034 C	-5.3678	Adder	-6.32
925611	AC1-036 C	0.0846	80/20	0.0846

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926070	AC1-086 C	44.1349	80/20	44.1349
933991	AD1-023 C	5.1772	80/20	5.1772
934521	AD1-076 C	18.1292	80/20	18.1292
936265	AD2-033 C	5.0989	80/20	5.0989
936361	AD2-046 C O1	4.6728	80/20	4.6728
936401	AD2-051 C O1	5.3516	80/20	5.3516
936485	AD2-063 C	6.4881	80/20	6.4881
938221	AE1-035 C	0.2012	80/20	0.2012
938771	AE1-103 C	1.5584	80/20	1.5584
939181	AE1-148 C	4.5889	80/20	4.5889
940481	AE2-033 C	28.6304	80/20	28.6304
940491	AE2-034 C	2.1088	80/20	2.1088
940661	AE2-053 O1	1.6996	80/20	1.6996
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1043	80/20	0.1043
942451	AE2-258	1.1025	80/20	1.1025
942471	AE2-260 C O1	26.6029	80/20	26.6029
943171	AE2-346 C	0.8886	80/20	0.8886
943911	AF1-059	15.8264	80/20	15.8264
945711	AF1-236 C O1	23.0866	80/20	23.0866
946011	AF1-266	23.9659	80/20	23.9659
946281	AF1-292 C	2.3137	80/20	2.3137
957521	AF2-046 C	11.5618	80/20	11.5618
957531	AF2-047 C	5.0110	80/20	5.0110
959311	AF2-222 C	6.0420	80/20	6.0420
960081	AF2-299 C	3.8996	80/20	3.8996
961091	AF2-400 C	0.2420	80/20	0.2420
961681	AG1-008 C	11.5850	80/20	11.5850
961851	AG1-027 C	4.8493	80/20	4.8493
961891	AG1-030 C	4.8159	80/20	4.8159
961931	AG1-036 C	0.8951	80/20	0.8951
961941	AG1-037 C	0.3173	80/20	0.3173
962271	AG1-075 C O2	29.9815	80/20	29.9815
962331	AG1-082 C	1.2694	80/20	1.2694
962341	AG1-083 C	1.2694	80/20	1.2694
962351	AG1-084 C	1.0679	80/20	1.0679
962361	AG1-085 C	1.0679	80/20	1.0679
962491	AG1-098 C O2	5.6280	80/20	5.6280
962571	AG1-106 C	12.2736	80/20	12.2736
963301	AG1-179 C	6.4361	80/20	6.4361
963311	AG1-180	3.1358	80/20	3.1358
963321	AG1-181 C O2	6.4475	80/20	6.4475
963361	AG1-185 O2	3.1195	80/20	3.1195
964111	AG1-272 C	0.9616	80/20	0.9616
964121	AG1-273 C	0.9616	80/20	0.9616
964131	AG1-274 C	0.9616	80/20	0.9616
964491	AG1-312 C O1	10.2256	80/20	10.2256
964501	AG1-313 C O2	4.4359	80/20	4.4359
964801	AG1-343 C	4.3515	80/20	4.3515
964931	AG1-357 C O2	8.6736	80/20	8.6736
965191	AG1-384 C	0.9616	80/20	0.9616
965291	AG1-394 C	1.5073	80/20	1.5073

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965451	AG1-413 C O2	6.3634	80/20	6.3634
965591	AG1-427 C	5.2308	80/20	5.2308
965601	AG1-428 C O2	5.3730	80/20	5.3730
965631	AG1-431	13.3659	80/20	13.3659
965691	AG1-437 C O1	4.4784	80/20	4.4784
965701	AG1-438 C O1	4.4784	80/20	4.4784
965721	AG1-440 C	4.7381	80/20	4.7381
965731	AG1-441 C	4.7381	80/20	4.7381
965741	AG1-442 O1	2.6124	80/20	2.6124
965751	AG1-443 O1	2.6124	80/20	2.6124
965771	AG1-445	2.7375	80/20	2.7375
965781	AG1-446	2.7375	80/20	2.7375
966621	AG1-532 C	2.1058	80/20	2.1058
966751	AG1-546 C	14.0875	80/20	14.0875
966811	AG1-552 C	2.5393	80/20	2.5393
966931	AG1-431A	10.0420	80/20	10.0420
G-007A	G-007A	0.4987	Confirmed LTF	0.4987
VFT	VFT	1.3287	Confirmed LTF	1.3287
CALDERWOOD	CALDERWOOD	0.6123	Confirmed LTF	0.6123
PRAIRIE	PRAIRIE	2.0741	Confirmed LTF	2.0741
CHEOAH	CHEOAH	0.6281	Confirmed LTF	0.6281
CBM-N	CBM-N	0.2412	Confirmed LTF	0.2412
COTTONWOOD	COTTONWOOD	2.2659	Confirmed LTF	2.2659
HAMLET	HAMLET	1.3924	Confirmed LTF	1.3924
GIBSON	GIBSON	0.3604	Confirmed LTF	0.3604
BLUEG	BLUEG	1.1076	Confirmed LTF	1.1076
TRIMBLE	TRIMBLE	0.3512	Confirmed LTF	0.3512
CATAWBA	CATAWBA	0.6688	Confirmed LTF	0.6688

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
163836120	314591	6NASH	DVP	304226	6PA-RMOUNT#4	CPL	1	DVP_P1-2: LN 2058	single	478.0	121.93	123.24	DC	6.3

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315126	1ROARAP2	1.0451	80/20	1.0451
315128	1ROARAP4	0.9973	80/20	0.9973
315131	1EDGE CMA (Deactivation : 22/04/2019)	26.6922	80/20	26.6922
315132	1EDGE CMB (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	1HOLLOMAN SOL	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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.33 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
169036998	314596	3POPLR C	DVP	314573	3EVERETS	DVP	1	DVP_P1-2: LN 2034-A	single	269.78	146.84	152.83	DC	16.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1359	80/20	0.1359
314638	6ELIZ CT	0.0795	80/20	0.0795
314639	6TANGLEW	0.1666	80/20	0.1666
315292	1DOMTR78	2.9489	80/20	2.9489
315293	1DOMTR9	15.2523	80/20	15.2523
315294	1DOMTR10	18.6915	80/20	18.6915
315605	6W1-029WIND	0.5154	80/20	0.5154
315611	6Z1-036WIND	0.8173	80/20	0.8173
315614	AA2-178 C	1.9294	80/20	1.9294
925121	AB2-169 C	0.7408	80/20	0.7408
933991	AD1-023 C	20.9075	80/20	20.9075
934521	AD1-076 C	86.2940	80/20	86.2940
940491	AE2-034 C	9.1720	80/20	9.1720
941501	AE2-147 C	7.5384	80/20	7.5384
944871	AF1-152 C	2.5128	80/20	2.5128
945711	AF1-236 C O1	100.4111	80/20	100.4111
957531	AF2-047 C	21.7943	80/20	21.7943
964491	AG1-312 C O1	30.1370	80/20	30.1370
965631	AG1-431	58.1328	80/20	58.1328
965691	AG1-437 C O1	16.1448	80/20	16.1448
965701	AG1-438 C O1	16.1448	80/20	16.1448
965741	AG1-442 O1	9.4178	80/20	9.4178
965751	AG1-443 O1	9.4178	80/20	9.4178
966931	AG1-431A	43.6760	80/20	43.6760
G-007A	G-007A	0.3356	Confirmed LTF	0.3356
VFT	VFT	0.8965	Confirmed LTF	0.8965
CALDERWOOD	CALDERWOOD	0.3365	Confirmed LTF	0.3365
PRAIRIE	PRAIRIE	1.1443	Confirmed LTF	1.1443
CHEOAH	CHEOAH	0.3453	Confirmed LTF	0.3453

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-N	CBM-N	0.1632	Confirmed LTF	0.1632
COTTONWOOD	COTTONWOOD	1.2495	Confirmed LTF	1.2495
HAMLET	HAMLET	0.7588	Confirmed LTF	0.7588
GIBSON	GIBSON	0.1993	Confirmed LTF	0.1993
BLUEG	BLUEG	0.6128	Confirmed LTF	0.6128
TRIMBLE	TRIMBLE	0.1942	Confirmed LTF	0.1942
CATAWBA	CATAWBA	0.3626	Confirmed LTF	0.3626

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
169037007	314614	3TRWBRDG2	DVP	314596	3POPLR C	DVP	1	DVP_P1-2: LN 2034-A	single	285.76	138.28	143.93	DC	16.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1359	80/20	0.1359
314638	6ELIZ CT	0.0795	80/20	0.0795
314639	6TANGLEW	0.1666	80/20	0.1666
315292	1DOMTR78	2.9489	80/20	2.9489
315293	1DOMTR9	15.2523	80/20	15.2523
315294	1DOMTR10	18.6915	80/20	18.6915
315605	6W1-029WIND	0.5154	80/20	0.5154
315611	6Z1-036WIND	0.8173	80/20	0.8173
315614	AA2-178 C	1.9294	80/20	1.9294
925121	AB2-169 C	0.7408	80/20	0.7408
933991	AD1-023 C	20.9075	80/20	20.9075
934521	AD1-076 C	86.2940	80/20	86.2940
940491	AE2-034 C	9.1720	80/20	9.1720
941501	AE2-147 C	7.5384	80/20	7.5384
944871	AF1-152 C	2.5128	80/20	2.5128
945711	AF1-236 C O1	100.4111	80/20	100.4111
957531	AF2-047 C	21.7943	80/20	21.7943
964491	AG1-312 C O1	30.1370	80/20	30.1370
965631	AG1-431	58.1328	80/20	58.1328
965691	AG1-437 C O1	16.1448	80/20	16.1448
965701	AG1-438 C O1	16.1448	80/20	16.1448
965741	AG1-442 O1	9.4178	80/20	9.4178
965751	AG1-443 O1	9.4178	80/20	9.4178
966931	AG1-431A	43.6760	80/20	43.6760
G-007A	G-007A	0.3356	Confirmed LTF	0.3356
VFT	VFT	0.8965	Confirmed LTF	0.8965
CALDERWOOD	CALDERWOOD	0.3365	Confirmed LTF	0.3365
PRAIRIE	PRAIRIE	1.1443	Confirmed LTF	1.1443
CHEOAH	CHEOAH	0.3453	Confirmed LTF	0.3453
CBM-N	CBM-N	0.1632	Confirmed LTF	0.1632
COTTONWOOD	COTTONWOOD	1.2495	Confirmed LTF	1.2495

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
HAMLET	HAMLET	0.7588	Confirmed LTF	0.7588
GIBSON	GIBSON	0.1993	Confirmed LTF	0.1993
BLUEG	BLUEG	0.6128	Confirmed LTF	0.6128
TRIMBLE	TRIMBLE	0.1942	Confirmed LTF	0.1942
CATAWBA	CATAWBA	0.3626	Confirmed LTF	0.3626

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
174303644	314616	6TRWBRDG	DVP	314614	3TRWBRDG2	DVP	1	DVP_P4-2: 203462	breaker	199.8	155.2	163.54	DC	16.67

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.0867	50/50	0.0867
315293	1DOMTR9	-9.0976	Adder	-10.7
315294	1DOMTR10	-11.1490	Adder	-13.12
315614	AA2-178 C	1.1957	50/50	1.1957
901082	W1-029 E	11.5384	Adder	13.57
916042	Z1-036 E (Suspended)	18.2970	Adder	21.53
920692	AA2-178 E	3.2479	50/50	3.2479
933991	AD1-023 C	12.9534	50/50	12.9534
933992	AD1-023 E	7.0518	50/50	7.0518
934521	AD1-076 C	53.4639	50/50	53.4639
934522	AD1-076 E	27.2237	50/50	27.2237
940491	AE2-034 C	5.6839	50/50	5.6839
940492	AE2-034 E	2.4359	50/50	2.4359
941501	AE2-147 C	3.9788	Adder	4.68
941502	AE2-147 E	2.6525	Adder	3.12
944871	AF1-152 C	1.3263	Adder	1.56
944872	AF1-152 E	0.8842	Adder	1.04
945711	AF1-236 C O1	62.2247	50/50	62.2247
945712	AF1-236 E O1	38.4337	50/50	38.4337
957531	AF2-047 C	13.5059	50/50	13.5059
957532	AF2-047 E	6.7936	50/50	6.7936
964491	AG1-312 C O1	18.6715	50/50	18.6715
964492	AG1-312 E O1	4.6679	50/50	4.6679
965631	AG1-431	36.0248	50/50	36.0248
965691	AG1-437 C O1	10.0026	50/50	10.0026
965692	AG1-437 E O1	6.6684	50/50	6.6684
965701	AG1-438 C O1	10.0026	50/50	10.0026
965702	AG1-438 E O1	6.6684	50/50	6.6684
965741	AG1-442 O1	5.8349	50/50	5.8349
965751	AG1-443 O1	5.8349	50/50	5.8349
966931	AG1-431A	27.0660	50/50	27.0660
G-007A	G-007A	0.2517	Confirmed LTF	0.2517
VFT	VFT	0.6772	Confirmed LTF	0.6772

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CALDERWOOD	CALDERWOOD	0.1988	Confirmed LTF	0.1988
PRAIRIE	PRAIRIE	0.6612	Confirmed LTF	0.6612
CHEOAH	CHEOAH	0.2042	Confirmed LTF	0.2042
CBM-N	CBM-N	0.1236	Confirmed LTF	0.1236
COTTONWOOD	COTTONWOOD	0.7350	Confirmed LTF	0.7350
HAMLET	HAMLET	0.4591	Confirmed LTF	0.4591
GIBSON	GIBSON	0.1130	Confirmed LTF	0.1130
BLUEG	BLUEG	0.3472	Confirmed LTF	0.3472
TRIMBLE	TRIMBLE	0.1096	Confirmed LTF	0.1096
CATAWBA	CATAWBA	0.2177	Confirmed LTF	0.2177

13.5.36 Index 36

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168524083	314637	6EDENTON	DVP	313885	6WALBMRL	DVP	1	Base Case	single	733.2	139.79	142.03	DC	16.44

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1331	80/20	2.1331
313719	3CHESTNUT	0.5165	80/20	0.5165
314582	3KELFORD	0.2333	80/20	0.2333
314589	3MURPHYS	0.0370	80/20	0.0370
314623	3WITAKRS	0.0940	80/20	0.0940
315126	1ROARAP2	0.5120	80/20	0.5120
315128	1ROARAP4	0.4886	80/20	0.4886
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.1116	80/20	4.1116
315136	1ROSEMG1	0.8655	80/20	0.8655
315137	1ROSEMS1	0.5367	80/20	0.5367
315138	1ROSEMG2	0.4057	80/20	0.4057
315139	1GASTONA	1.2468	80/20	1.2468
315141	1GASTONB	1.2468	80/20	1.2468
315292	1DOMTR78	2.6052	80/20	2.6052
315293	1DOMTR9	13.4746	80/20	13.4746
315294	1DOMTR10	16.5130	80/20	16.5130
315601	1CONETOE2SOL	0.8402	80/20	0.8402
315602	1HOLLOMAN SOL	1.2190	80/20	1.2190
315606	3AA2-053SOLA	0.6464	80/20	0.6464
315607	3AA1-063SOLA	0.4733	80/20	0.4733
315614	AA2-178 C	4.4673	80/20	4.4673
316020	AB2-059 C OP	0.7167	80/20	0.7167
316087	AB2-174 C	0.3340	80/20	0.3340
316140	AB2-099 C (Suspended)	0.3837	80/20	0.3837
920591	AA2-165 C	0.0693	80/20	0.0693
922922	AB1-081 C OP	0.6081	80/20	0.6081

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923991	AB2-040 C O1	2.3232	80/20	2.3232
925121	AB2-169 C	1.6131	80/20	1.6131
925591	AC1-034 C	2.9425	80/20	2.9425
926070	AC1-086 C	8.8866	80/20	8.8866
926201	AC1-098 C	3.2283	80/20	3.2283
926211	AC1-099 C	1.0818	80/20	1.0818
927024	AC1-189 C	5.8874	80/20	5.8874
927145	AC1-208 C	4.1650	80/20	4.1650
932631	AC2-084 C	4.6021	80/20	4.6021
933991	AD1-023 C	25.2222	80/20	25.2222
934331	AD1-057 C O1	4.3394	80/20	4.3394
934521	AD1-076 C	124.5855	80/20	124.5855
936401	AD2-051 C O1	7.4492	80/20	7.4492
938221	AE1-035 C	0.3048	80/20	0.3048
940491	AE2-034 C	21.2365	80/20	21.2365
940571	AE2-044 C	1.9272	80/20	1.9272
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1250	80/20	0.1250
943171	AE2-346 C	0.9210	80/20	0.9210
944141	AF1-082	1.2389	80/20	1.2389
945711	AF1-236 C O1	232.4887	80/20	232.4887
957521	AF2-046 C	7.9381	80/20	7.9381
957531	AF2-047 C	50.4619	80/20	50.4619
957861	AF2-080 C	5.3471	80/20	5.3471
959511	AF2-242 C	9.7474	80/20	9.7474
961671	AG1-007 C	0.7149	80/20	0.7149
961681	AG1-008 C	7.9540	80/20	7.9540
961931	AG1-036 C	0.7739	80/20	0.7739
961941	AG1-037 C	0.3289	80/20	0.3289
962331	AG1-082 C	1.3157	80/20	1.3157
962341	AG1-083 C	1.3157	80/20	1.3157
962351	AG1-084 C	1.2792	80/20	1.2792
962361	AG1-085 C	1.2792	80/20	1.2792
962571	AG1-106 C	2.4713	80/20	2.4713
964491	AG1-312 C O1	18.8709	80/20	18.8709
964501	AG1-313 C O2	2.4271	80/20	2.4271
964801	AG1-343 C	1.8970	80/20	1.8970
965291	AG1-394 C	0.6046	80/20	0.6046
965631	AG1-431	134.5987	80/20	134.5987
965691	AG1-437 C O1	16.4358	80/20	16.4358
965701	AG1-438 C O1	16.4358	80/20	16.4358
965711	AG1-439 C O1	15.0720	80/20	15.0720
965741	AG1-442 O1	9.5876	80/20	9.5876
965751	AG1-443 O1	9.5876	80/20	9.5876
965761	AG1-444 O1	8.0384	80/20	8.0384
966801	AG1-551 C	2.4639	80/20	2.4639
966811	AG1-552 C	0.8130	80/20	0.8130
966931	AG1-431A	101.1260	80/20	101.1260
WEC	WEC	0.1581	Confirmed LTF	0.1581
LGEE	LGEE	0.3223	Confirmed LTF	0.3223
CPL	CPL	1.7718	Confirmed LTF	1.7718
CBM-W2	CBM-W2	6.6931	Confirmed LTF	6.6931

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	0.1366	Confirmed LTF	0.1366
TVA	TVA	1.2446	Confirmed LTF	1.2446
SIGE	SIGE	0.0886	Confirmed LTF	0.0886
CBM-S2	CBM-S2	19.1365	Confirmed LTF	19.1365
CBM-S1	CBM-S1	0.3120	Confirmed LTF	0.3120
MEC	MEC	0.9327	Confirmed LTF	0.9327
LAGN	LAGN	1.5540	Confirmed LTF	1.5540
CBM-W1	CBM-W1	6.6875	Confirmed LTF	6.6875

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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
174095044	314638	6ELIZ CT	DVP	314647	6SHAWBRO	DVP	1	DVP_P4-2: 246T247	breaker	699.0	264.74	268.97	DC	29.54

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
174303649	314639	6TANGLEW	DVP	313851	6ECITYDP2	DVP	1	DVP_P4-2: 246T247	breaker	1204.0	159.46	161.91	DC	29.56

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

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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
174303782	314645	6SLIGO L269	DVP	963820	AG1-235 TAP	DVP	1	DVP_P4-2: 246T247	breaker	699.0	119.09	121.15	DC	14.43

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
174303846	314647	6SHAWBRO	DVP	938530	AE1-072_TAP	DVP	1	DVP_P4-2: 246T247	breaker	699.0	109.04	111.1	DC	14.43

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
174303635	314651	6WINFALL	DVP	314639	6TANGLEW	DVP	1	DVP_P4-2: 246T247	breaker	1163.0	168.92	171.46	DC	29.56

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

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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
169247774	314662	6S HERTFORD	DVP	314651	6WINFALL	DVP	1	Base Case	single	733.2	145.51	147.75	DC	16.42

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1246	80/20	2.1246
313719	3CHESTNUT	0.5151	80/20	0.5151
314582	3KELFORD	0.2329	80/20	0.2329
314589	3MURPHYS	0.0369	80/20	0.0369
314623	3WITAKRS	0.0937	80/20	0.0937
315126	1ROARAP2	0.5104	80/20	0.5104
315128	1ROARAP4	0.4870	80/20	0.4870
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.0994	80/20	4.0994
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.0994	80/20	4.0994
315136	1ROSEMG1	0.8630	80/20	0.8630
315137	1ROSEMS1	0.5351	80/20	0.5351
315138	1ROSEMG2	0.4045	80/20	0.4045
315139	1GASTONA	1.2433	80/20	1.2433
315141	1GASTONB	1.2433	80/20	1.2433
315292	1DOMTR78	2.6036	80/20	2.6036
315293	1DOMTR9	13.4660	80/20	13.4660
315294	1DOMTR10	16.5025	80/20	16.5025

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315601	1CONETOE2SOL	0.8384	80/20	0.8384
315602	1HOLLOMANSOL	1.2173	80/20	1.2173
315606	3AA2-053SOLA	0.6446	80/20	0.6446
315607	3AA1-063SOLA	0.4717	80/20	0.4717
315611	6Z1-036WIND	4.3262	80/20	4.3262
315614	AA2-178 C	4.4654	80/20	4.4654
316020	AB2-059 C OP	0.7145	80/20	0.7145
316087	AB2-174 C	0.3326	80/20	0.3326
316140	AB2-099 C (Suspended)	0.3830	80/20	0.3830
920591	AA2-165 C	0.0691	80/20	0.0691
922922	AB1-081 C OP	0.6063	80/20	0.6063
923991	AB2-040 C O1	2.3140	80/20	2.3140
925121	AB2-169 C	1.6118	80/20	1.6118
925591	AC1-034 C	2.9335	80/20	2.9335
926070	AC1-086 C	8.8619	80/20	8.8619
926201	AC1-098 C	3.2208	80/20	3.2208
926211	AC1-099 C	1.0793	80/20	1.0793
927024	AC1-189 C	5.8761	80/20	5.8761
927145	AC1-208 C	4.1533	80/20	4.1533
932631	AC2-084 C	4.5914	80/20	4.5914
933991	AD1-023 C	25.2059	80/20	25.2059
934331	AD1-057 C O1	4.3272	80/20	4.3272
934521	AD1-076 C	124.5182	80/20	124.5182
936401	AD2-051 C O1	7.4382	80/20	7.4382
938221	AE1-035 C	0.3044	80/20	0.3044
940491	AE2-034 C	21.2276	80/20	21.2276
940571	AE2-044 C	1.9214	80/20	1.9214
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1247	80/20	0.1247
943171	AE2-346 C	0.9192	80/20	0.9192
944141	AF1-082	1.2352	80/20	1.2352
945711	AF1-236 C O1	232.3921	80/20	232.3921
957521	AF2-046 C	7.9171	80/20	7.9171
957531	AF2-047 C	50.4409	80/20	50.4409
957861	AF2-080 C	5.3369	80/20	5.3369
959511	AF2-242 C	9.7380	80/20	9.7380
961671	AG1-007 C	0.7133	80/20	0.7133
961681	AG1-008 C	7.9330	80/20	7.9330
961931	AG1-036 C	0.7722	80/20	0.7722
961941	AG1-037 C	0.3283	80/20	0.3283
962331	AG1-082 C	1.3132	80/20	1.3132
962341	AG1-083 C	1.3132	80/20	1.3132
962351	AG1-084 C	1.2770	80/20	1.2770
962361	AG1-085 C	1.2770	80/20	1.2770
962571	AG1-106 C	2.4644	80/20	2.4644
964491	AG1-312 C O1	18.8485	80/20	18.8485
964501	AG1-313 C O2	2.4216	80/20	2.4216
964801	AG1-343 C	1.8896	80/20	1.8896
965291	AG1-394 C	0.6020	80/20	0.6020
965631	AG1-431	134.5428	80/20	134.5428
965691	AG1-437 C O1	16.4232	80/20	16.4232
965701	AG1-438 C O1	16.4232	80/20	16.4232

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965711	AG1-439 C O1	15.0405	80/20	15.0405
965741	AG1-442 O1	9.5802	80/20	9.5802
965751	AG1-443 O1	9.5802	80/20	9.5802
965761	AG1-444 O1	8.0216	80/20	8.0216
966801	AG1-551 C	2.4609	80/20	2.4609
966811	AG1-552 C	0.8103	80/20	0.8103
966931	AG1-431A	101.0840	80/20	101.0840
WEC	WEC	0.1518	Confirmed LTF	0.1518
LGEE	LGEE	0.3098	Confirmed LTF	0.3098
CPL	CPL	1.7581	Confirmed LTF	1.7581
CBM-W2	CBM-W2	6.5139	Confirmed LTF	6.5139
NY	NY	0.1477	Confirmed LTF	0.1477
TVA	TVA	1.2166	Confirmed LTF	1.2166
SIGE	SIGE	0.0886	Confirmed LTF	0.0886
CBM-S2	CBM-S2	18.9277	Confirmed LTF	18.9277
CBM-S1	CBM-S1	0.3044	Confirmed LTF	0.3044
MEC	MEC	0.9010	Confirmed LTF	0.9010
LAGN	LAGN	1.5190	Confirmed LTF	1.5190
CBM-W1	CBM-W1	6.4071	Confirmed LTF	6.4071

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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
168524191	934330	AD1-057 TAP	DVP	313845	6HATHAWAY	DVP	1	DVP_P1-2: LN 238-B	single	441.8	127.83	128.91	DC	4.77

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	6.5812	80/20	6.5812
313527	AB2-043 C	0.1616	80/20	0.1616
314572	3EMPORIA	0.3707	80/20	0.3707
314582	3KELFORD	0.1701	80/20	0.1701
314589	3MURPHYS	0.0588	80/20	0.0588
314704	3LAWRENC	0.2022	80/20	0.2022
315115	1S HAMPT1	0.7802	80/20	0.7802
315126	1ROARAP2	1.4999	80/20	1.4999
315128	1ROARAP4	1.4313	80/20	1.4313
315136	1ROSEMG1	5.2261	80/20	5.2261
315137	1ROSEMS1	3.2407	80/20	3.2407
315138	1ROSEMG2	2.4493	80/20	2.4493
315139	1GASTONA	6.5715	80/20	6.5715
315141	1GASTONB	6.5715	80/20	6.5715
315158	1KERR 1	0.1671	80/20	0.1671
315159	1KERR 2	0.4679	80/20	0.4679
315160	1KERR 3	0.4679	80/20	0.4679
315161	1KERR 4	0.4679	80/20	0.4679
315162	1KERR 5	0.4679	80/20	0.4679

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315163	1KERR 6	0.4679	80/20	0.4679
315164	1KERR 7	0.4679	80/20	0.4679
315602	1HOLLOMANSOL	0.8537	80/20	0.8537
315606	3AA2-053SOLA	1.5027	80/20	1.5027
315607	3AA1-063SOLA	1.3009	80/20	1.3009
315608	3AA2-088SOLA	0.6986	80/20	0.6986
315614	AA2-178 C	0.4723	80/20	0.4723
316087	AB2-174 C	1.0440	80/20	1.0440
316096	AB2-100 C1	2.0014	80/20	2.0014
316098	AB2-100 C2	2.0014	80/20	2.0014
316103	AB2-015 C	4.3260	80/20	4.3260
316129	AC1-054 C	5.4766	80/20	5.4766
316131	AB2-060 C	0.4583	80/20	0.4583
316140	AB2-099 C (Suspended)	0.3741	80/20	0.3741
923991	AB2-040 C O1	7.1676	80/20	7.1676
924301	AB2-077 C O1 (Suspended)	0.6449	80/20	0.6449
924311	AB2-078 C O1 (Suspended)	0.6449	80/20	0.6449
924321	AB2-079 C O1 (Suspended)	0.6449	80/20	0.6449
925591	AC1-034 C	-5.1726	Adder	-6.09
926070	AC1-086 C	46.8402	80/20	46.8402
933991	AD1-023 C	5.5252	80/20	5.5252
934331	AD1-057 C O1	38.3548	80/20	38.3548
934521	AD1-076 C	19.4152	80/20	19.4152
936361	AD2-046 C O1	3.7209	80/20	3.7209
936401	AD2-051 C O1	5.6765	80/20	5.6765
938221	AE1-035 C	0.2134	80/20	0.2134
938771	AE1-103 C	1.5114	80/20	1.5114
939181	AE1-148 C	3.6364	80/20	3.6364
940491	AE2-034 C	2.2453	80/20	2.2453
940661	AE2-053 O1	1.3468	80/20	1.3468
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1068	80/20	0.1068
942451	AE2-258	0.7644	80/20	0.7644
942471	AE2-260 C O1	31.3160	80/20	31.3160
943171	AE2-346 C	0.8980	80/20	0.8980
943911	AF1-059	9.2940	80/20	9.2940
945711	AF1-236 C O1	24.5809	80/20	24.5809
946281	AF1-292 C	1.2677	80/20	1.2677
957521	AF2-046 C	11.3592	80/20	11.3592
957531	AF2-047 C	5.3353	80/20	5.3353
960081	AF2-299 C	2.1366	80/20	2.1366
961091	AF2-400 C	0.2336	80/20	0.2336
961681	AG1-008 C	11.3820	80/20	11.3820
961931	AG1-036 C	0.8921	80/20	0.8921
961941	AG1-037 C	0.3207	80/20	0.3207
962331	AG1-082 C	1.2828	80/20	1.2828
962341	AG1-083 C	1.2828	80/20	1.2828
962351	AG1-084 C	1.0930	80/20	1.0930
962361	AG1-085 C	1.0930	80/20	1.0930
962491	AG1-098 C O2	3.9015	80/20	3.9015

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962571	AG1-106 C	13.0259	80/20	13.0259
963301	AG1-179 C	3.6710	80/20	3.6710
963311	AG1-180	1.7886	80/20	1.7886
964491	AG1-312 C O1	10.8562	80/20	10.8562
964501	AG1-313 C O2	4.2584	80/20	4.2584
964801	AG1-343 C	4.1877	80/20	4.1877
964931	AG1-357 C O2	6.0120	80/20	6.0120
965291	AG1-394 C	1.4462	80/20	1.4462
965451	AG1-413 C O2	3.7663	80/20	3.7663
965591	AG1-427 C	3.6254	80/20	3.6254
965601	AG1-428 C O2	3.0646	80/20	3.0646
965631	AG1-431	14.2311	80/20	14.2311
965691	AG1-437 C O1	4.7694	80/20	4.7694
965701	AG1-438 C O1	4.7694	80/20	4.7694
965721	AG1-440 C	4.0406	80/20	4.0406
965731	AG1-441 C	4.0406	80/20	4.0406
965741	AG1-442 O1	2.7821	80/20	2.7821
965751	AG1-443 O1	2.7821	80/20	2.7821
965771	AG1-445	2.3345	80/20	2.3345
965781	AG1-446	2.3345	80/20	2.3345
966621	AG1-532 C	1.1538	80/20	1.1538
966751	AG1-546 C	12.6926	80/20	12.6926
966811	AG1-552 C	2.3814	80/20	2.3814
966931	AG1-431A	10.6920	80/20	10.6920
G-007A	G-007A	0.2925	Confirmed LTF	0.2925
VFT	VFT	0.7675	Confirmed LTF	0.7675
CALDERWOOD	CALDERWOOD	0.6436	Confirmed LTF	0.6436
PRAIRIE	PRAIRIE	2.2679	Confirmed LTF	2.2679
CHEOAH	CHEOAH	0.6592	Confirmed LTF	0.6592
CBM-N	CBM-N	0.1380	Confirmed LTF	0.1380
COTTONWOOD	COTTONWOOD	2.4045	Confirmed LTF	2.4045
HAMLET	HAMLET	1.4010	Confirmed LTF	1.4010
GIBSON	GIBSON	0.4040	Confirmed LTF	0.4040
BLUEG	BLUEG	1.2464	Confirmed LTF	1.2464
TRIMBLE	TRIMBLE	0.3962	Confirmed LTF	0.3962
CATAWBA	CATAWBA	0.6836	Confirmed LTF	0.6836

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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
174303772	938530	AE1-072_TAP	DVP	314645	6SLIGO L269	DVP	1	DVP_P4-2: 246T247	breaker	699.0	119.96	122.03	DC	14.43

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
163346020	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	172.51	173.22	DC	13.02

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961092	AF2-400 E	0.4075	Adder	0.48
961671	AG1-007 C	1.5192	50/50	1.5192
961672	AG1-007 E	0.8484	50/50	0.8484
961681	AG1-008 C	7.6112	Adder	16.9
961682	AG1-008 E	3.8056	Adder	8.45
961931	AG1-036 C	0.6196	Adder	1.38
961932	AG1-036 E	0.4131	Adder	0.92
961941	AG1-037 C	0.2305	Adder	0.51
961942	AG1-037 E	0.1537	Adder	0.34
962271	AG1-075 C O2	67.4116	50/50	67.4116
962272	AG1-075 E O2	41.0834	50/50	41.0834
962331	AG1-082 C	0.9220	Adder	2.05
962332	AG1-082 E	0.6147	Adder	1.36
962341	AG1-083 C	0.9220	Adder	2.05
962342	AG1-083 E	0.6147	Adder	1.36
962351	AG1-084 C	0.8099	Adder	1.8
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965732	AG1-441 E	2.2469	Adder	4.99
965741	AG1-442 O1	2.0528	Adder	4.56
965751	AG1-443 O1	2.0528	Adder	4.56
965761	AG1-444 O1	14.8896	50/50	14.8896
965771	AG1-445	1.9473	Adder	4.32
965781	AG1-446	1.9473	Adder	4.32
966621	AG1-532 C	3.5014	50/50	3.5014
966622	AG1-532 E	2.3343	50/50	2.3343
966751	AG1-546 C	20.3177	50/50	20.3177
966752	AG1-546 E	10.9018	50/50	10.9018
966801	AG1-551 C	0.8593	Adder	1.91
966802	AG1-551 E	0.3683	Adder	0.82
966811	AG1-552 C	3.3962	50/50	3.3962
966812	AG1-552 E	1.4555	50/50	1.4555
WEC	WEC	0.2003	Confirmed LTF	0.2003
LGEE	LGEE	0.4128	Confirmed LTF	0.4128
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
168829145	957820	AF2-076 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2092	single	571.52	219.22	223.09	DC	22.13

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315126	1ROARAP2	1.2875	80/20	1.2875
315128	1ROARAP4	1.2286	80/20	1.2286
315131	1EDGE CMA (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315132	1EDGE CMB (Deactivation : 22/04/2019)	9.0045	80/20	9.0045
315136	1ROSEMG1	2.1445	80/20	2.1445
315137	1ROSEMS1	1.3298	80/20	1.3298
315138	1ROSEMG2	1.0051	80/20	1.0051
315139	1GASTONA	3.1370	80/20	3.1370
315141	1GASTONB	3.1370	80/20	3.1370
315158	1KERR 1	0.1949	80/20	0.1949
315159	1KERR 2	0.5458	80/20	0.5458
315160	1KERR 3	0.5458	80/20	0.5458
315161	1KERR 4	0.5458	80/20	0.5458
315162	1KERR 5	0.5458	80/20	0.5458
315163	1KERR 6	0.5458	80/20	0.5458
315164	1KERR 7	0.5458	80/20	0.5458
315292	1DOMTR78	2.6257	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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
174303689	963820	AG1-235 TAP	DVP	314466	6FENTRES	DVP	1	DVP_P4-2: 246T247	breaker	699.0	147.55	149.61	DC	14.43

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
963821	AG1-235 C O2	126.8717	50/50	126.8717
963822	AG1-235 E O2	84.5811	50/50	84.5811
964491	AG1-312 C O1	12.1027	50/50	12.1027
964492	AG1-312 E O1	3.0257	50/50	3.0257
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
965741	AG1-442 O1	5.0512	50/50	5.0512
965751	AG1-443 O1	5.0512	50/50	5.0512
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
174095041	964490	AG1-312 TAP	DVP	314569	6EARLEYS	DVP	1	DVP_P4-2: 2020T2144	breaker	699.0	291.24	303.33	DC	84.46

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.4018	50/50	0.4018
315292	1DOMTR78	4.7108	50/50	4.7108
315293	1DOMTR9	24.3645	50/50	24.3645
315294	1DOMTR10	29.8585	50/50	29.8585
315611	6Z1-036WIND	4.6122	50/50	4.6122
315614	AA2-178 C	6.6228	50/50	6.6228
916042	Z1-036 E (Suspended)	195.8679	50/50	195.8679
920692	AA2-178 E	17.9904	50/50	17.9904
925121	AB2-169 C	2.5772	50/50	2.5772
925122	AB2-169 E	14.6601	50/50	14.6601
933991	AD1-023 C	62.3605	50/50	62.3605
933992	AD1-023 E	33.9491	50/50	33.9491
934521	AD1-076 C	240.3967	50/50	240.3967
934522	AD1-076 E	122.4097	50/50	122.4097
940491	AE2-034 C	31.4832	50/50	31.4832
940492	AE2-034 E	13.4928	50/50	13.4928
945711	AF1-236 C O1	344.6661	50/50	344.6661
945712	AF1-236 E O1	212.8864	50/50	212.8864
957531	AF2-047 C	74.8101	50/50	74.8101
957532	AF2-047 E	37.6299	50/50	37.6299
959511	AF2-242 C	13.4820	50/50	13.4820
959512	AF2-242 E	10.4860	50/50	10.4860
964491	AG1-312 C O1	104.3930	50/50	104.3930
964492	AG1-312 E O1	26.0982	50/50	26.0982
965631	AG1-431	199.5435	50/50	199.5435
965691	AG1-437 C O1	50.6772	50/50	50.6772
965692	AG1-437 E O1	33.7848	50/50	33.7848
965701	AG1-438 C O1	50.6772	50/50	50.6772
965702	AG1-438 E O1	33.7848	50/50	33.7848
965741	AG1-442 O1	29.5617	50/50	29.5617
965751	AG1-443 O1	29.5617	50/50	29.5617
966801	AG1-551 C	2.7054	50/50	2.7054
966802	AG1-551 E	1.1594	50/50	1.1594
966931	AG1-431A	149.9200	50/50	149.9200
WEC	WEC	0.0435	Confirmed LTF	0.0435
LGEE	LGEE	0.0886	Confirmed LTF	0.0886
CPL	CPL	0.6463	Confirmed LTF	0.6463
CBM-W2	CBM-W2	2.0429	Confirmed LTF	2.0429
NY	NY	0.0686	Confirmed LTF	0.0686
TVA	TVA	0.3920	Confirmed LTF	0.3920
O-066	O-066	0.9489	Confirmed LTF	0.9489
SIGE	SIGE	0.0309	Confirmed LTF	0.0309

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S2	CBM-S2	6.6503	Confirmed LTF	6.6503
CBM-S1	CBM-S1	0.0969	Confirmed LTF	0.0969
G-007	G-007	0.1491	Confirmed LTF	0.1491
MEC	MEC	0.2685	Confirmed LTF	0.2685
LAGN	LAGN	0.4917	Confirmed LTF	0.4917
CBM-W1	CBM-W1	1.8086	Confirmed LTF	1.8086

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 269_1-A	CONTINGENCY 'DVP_P1-2: LN 269_1-A' / 1161 OPEN BRANCH FROM BUS 314466 TO BUS 963820 CKT 1 / 314466 6FENTRES 230 963820 AG1-235 TAP 230 1 END
DVP_P7-1: LN 22-90	CONTINGENCY 'DVP_P7-1: LN 22-90' /* . OPEN BRANCH FROM BUS 314559 TO BUS 314571 CKT 1 /* 3CAROLNA 115.00 - 3EATON F 115.00 OPEN BRANCH FROM BUS 314571 TO BUS 316125 CKT 1 /* 3EATON F 115.00 - AC1- 054 TAP 115.00 OPEN BRANCH FROM BUS 314702 TO BUS 316125 CKT 1 /* 3KERR 115.00 - AC1-054 TAP 115.00 OPEN BUS 314571 /* ISLAND: 3EATON F 115.00 OPEN BUS 316125 /* ISLAND: AC1-054 TAP 115.00 OPEN BUS 316126 /* ISLAND: AC1-054 MAIN115.00 OPEN BUS 316127 /* ISLAND: AC1-054 COL222.860 OPEN BUS 316128 /* ISLAND: AC1-054 COL122.860 OPEN BUS 316129 /* ISLAND: AC1-054 C 0.3850 OPEN BUS 925785 /* ISLAND: AC1-054 E 0.3850 OPEN BRANCH FROM BUS 314265 TO BUS 314584 CKT 1 /* 3FIVEFORKSDP115.00 - 3LITTLTN 115.00 OPEN BRANCH FROM BUS 314265 TO BUS 314673 CKT 1 /* 3FIVEFORKSDP115.00 - 3PALMERSPRNG115.00 OPEN BRANCH FROM BUS 314559 TO BUS 314585 CKT 1 /* 3CAROLNA 115.00 - 3L GASTN 115.00 OPEN BRANCH FROM BUS 314584 TO BUS 314585 CKT 1 /* 3LITTLTN 115.00 - 3L GASTN 115.00 OPEN BUS 314265 /* ISLAND: 3FIVEFORKSDP115.00 OPEN BUS 314584 /* ISLAND: 3LITTLTN 115.00 OPEN BUS 314585 /* ISLAND: 3L GASTN 115.00 END

Contingency Name	Contingency Definition
DVP_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
PL:08:P22:102799	CONTINGENCY 'PL:08:P22:102799' /* HUMMEL STATION 500KV BUS DISCONNECT BUS 200080 /* /* SUNB TR#25 END
DVP_P4-2: 203462	CONTINGENCY 'DVP_P4-2: 203462' / 1009 OPEN BRANCH FROM BUS 314569 TO BUS 964490 CKT 1 / 314569 6EARLEYS 230 964490 AG1-312 TAP 230 1 OPEN BRANCH FROM BUS 314568 TO BUS 314569 CKT 2 / 314568 3EARLEYS 115 314569 6EARLEYS 230 2 END
DVP_P7-1: LN 2058-2181	CONTINGENCY 'DVP_P7-1: LN 2058-2181' /* . OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END

Contingency Name	Contingency Definition
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
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_P4-2: H2T2014	CONTINGENCY 'DVP_P4-2: H2T2014' / 1074 OPEN BRANCH FROM BUS 313857 TO BUS 314569 CKT 1 / 313857 6WINDSORDP 230 314569 6EARLEYS 230 1 OPEN BRANCH FROM BUS 313857 TO BUS 314574 CKT 1 / 313857 6WINDSORDP 230 314574 6EVERETS 230 1 OPEN BRANCH FROM BUS 314552 TO BUS 313857 CKT 1 / 314552 3WINDSORDP 115 313857 6WINDSORDP 230 1 OPEN BRANCH FROM BUS 314573 TO BUS 314574 CKT 1 / 314573 3EVERETS 115 314574 6EVERETS 230 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2181	CONTINGENCY 'DVP_P1-2: LN 2181' OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P4-2: H4T2014	CONTINGENCY 'DVP_P4-2: H4T2014' / 1211 OPEN BRANCH FROM BUS 313857 TO BUS 314569 CKT 1 / 313857 6WINDSORDP 230 314569 6EARLEYS 230 1 OPEN BRANCH FROM BUS 313857 TO BUS 314574 CKT 1 / 313857 6WINDSORDP 230 314574 6EVERETS 230 1 OPEN BRANCH FROM BUS 314552 TO BUS 313857 CKT 1 / 314552 3WINDSORDP 115 313857 6WINDSORDP 230 1 OPEN BRANCH FROM BUS 314573 TO BUS 314574 CKT 2 / 314573 3EVERETS 115 314574 6EVERETS 230 2 REMOVE SWSHUNT FROM BUS 314574 /* 314574 6EVERETS 230 END
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 8SURREY 500 314928 8SUFFOLK 500 1 OPEN BRANCH FROM BUS 314924 TO BUS 314931 CKT 1 / 314924 8SURREY 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

Contingency Name	Contingency Definition
DVP_P4-2: H2T218	CONTINGENCY 'DVP_P4-2: H2T218' /* EVERETTS 230 KV OPEN BRANCH FROM BUS 304451 TO BUS 314574 CKT 1 /* 6GREENVILE T230.00 - 6EVERETS 230.00 OPEN BRANCH FROM BUS 314573 TO BUS 314574 CKT 1 /* 3EVERETS 115.00 - 6EVERETS 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_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_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

Contingency Name	Contingency Definition
AEP_P2-2_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P2-2_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
DVP_P1-2: LN 218	CONTINGENCY 'DVP_P1-2: LN 218' OPEN BRANCH FROM BUS 304451 TO BUS 314574 CKT 1 /* 6GREENVILE T230.00 - 6EVERETS 230.00 END
DVP_P7-1: LN 223-226	CONTINGENCY 'DVP_P7-1: LN 223-226' /* . OPEN BRANCH FROM BUS 314475 TO BUS 314514 CKT 1 /* 6HARBORV 230.00 - 6YADKIN 230.00 OPEN BRANCH FROM BUS 314475 TO BUS 314533 CKT 1 /* 6HARBORV 230.00 - 6SMITFLD 230.00 OPEN BRANCH FROM BUS 314533 TO BUS 314538 CKT 1 /* 6SMITFLD 230.00 - 6SURREY 230.00 OPEN BUS 314475 /* ISLAND: 6HARBORV 230.00 OPEN BUS 314533 /* ISLAND: 6SMITFLD 230.00 OPEN BUS 316258 /* ISLAND: AE1-162 C 230.00 OPEN BUS 939312 /* ISLAND: AE1-162 E 230.00 OPEN BRANCH FROM BUS 314453 TO BUS 314484 CKT 1 /* 6CHRHLDN 230.00 - 6HARBORV226 230.00 OPEN BRANCH FROM BUS 314484 TO BUS 314523 CKT 1 /* 6HARBORV226 230.00 - 6CRITTDN 230.00 OPEN BRANCH FROM BUS 314523 TO BUS 314538 CKT 1 /* 6CRITTDN 230.00 - 6SURREY 230.00 OPEN BUS 314484 /* ISLAND: 6HARBORV226 230.00 OPEN BUS 314523 /* ISLAND: 6CRITTDN 230.00 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 22-027 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

Contingency Name	Contingency Definition
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	
DVP_P1-2: LN 2167	CONTINGENCY 'DVP_P1-2: LN 2167' OPEN BRANCH FROM BUS 313845 TO BUS 314564 CKT 1 /* 6HATHAWAY 230.00 - 6EDGECON 230.00 END
314435 6SAPONY 230 940480 AE2-033 TAP 230 1	CONTINGENCY '314435 6SAPONY 230 940480 AE2-033 TAP 230 1' OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 END
DVP_P4-2: 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
314550 6HICKORY 230 937220 AD2-160 TAP 230 1	CONTINGENCY '314550 6HICKORY 230 937220 AD2-160 TAP 230 1' / 1085 OPEN BRANCH FROM BUS 314550 TO BUS 937220 CKT 1 / 314550 6HICKORY 230 937220 AD2-160 TAP 230 1 END

Contingency Name	Contingency Definition
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 588	CONTINGENCY 'DVP_P1-2: LN 588' / 2256 OPEN BRANCH FROM BUS 314909 TO BUS 314466 CKT 1 / 314909 8FENTRES 500 314466 6FENTRES 230 1 OPEN BRANCH FROM BUS 314909 TO BUS 314466 CKT 2 / 314909 8FENTRES 500 314466 6FENTRES 230 2 OPEN BRANCH FROM BUS 314909 TO BUS 314927 CKT 1 / 314909 8FENTRES 500 314927 8YADKIN 500 1 OPEN BRANCH FROM BUS 314909 TO BUS 944581 CKT 1 / 314909 8FENTRES 500 944581 AF1-123 C O1 500 1 OPEN BRANCH FROM BUS 314909 TO BUS 944591 CKT 1 / 314909 8FENTRES 500 944591 AF1-124 C O1 500 1 OPEN BRANCH FROM BUS 314909 TO BUS 944601 CKT 1 / 314909 8FENTRES 500 944601 AF1-125 C O1 500 1 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 2034-A	CONTINGENCY 'DVP_P1-2: LN 2034-A' / 924 OPEN BRANCH FROM BUS 314569 TO BUS 964490 CKT 1 / 314569 6EARLEYS 230 964490 AG1-312 TAP 230 1 END
DVP_P4-2: 24972-4	CONTINGENCY 'DVP_P4-2: 24972-4' / 1024 OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 / 314282 6CARSON 230 314285 6CHRL249 230 1 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 / 314285 6CHRL249 230 314316 6LOCKS 230 1 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 / 314314 3LOCKS 115 314316 6LOCKS 230 2 OPEN BRANCH FROM BUS 314902 TO BUS 314282 CKT 1 / 314902 8CARSON 500 314282 6CARSON 230 1 OPEN BRANCH FROM BUS 314282 TO BUS 314455 CKT 1 / 314282 6CARSON 230 314455 6CARSO_1 230 1 END

Contingency Name	Contingency Definition
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_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

