



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-444
CHINQUAPIN 230 KV
80 MW Capacity / 80 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.

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 an uprate to a planned Storage generating facility located in Edgecombe, North Carolina. This project is an increase to the Interconnection Customer's AG1-439 project, which will share the same point of interconnection. The AG1-39 queue position is an 80 MW uprate (80 MW Capacity uprate) to the previous project. The total installed facilities will have a capability of 384 MW with 230 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this uprate project is December 31, 2023. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-444
Project Name	CHINQUAPIN 230 KV
State	North Carolina
County	Edgecombe
Transmission Owner	Dominion
MFO	384
MWE	80
MWC	80
Fuel	Storage
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

AG1-444 "Chinquapin 230 kV" will interconnect with the Dominion transmission system as an uprate to AG1-439, sharing the POI and Attachment Facilities.

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

Costs provided are contingent on the AG1-439 project being built. Should the AG1-439 project withdraw from the Interconnection Queue, the AG1-444 project will assume the Attachment, Direct Connection, and Non-Direct Connection costs identified in the AG1-439 study report for connection to the Dominion system.

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

4.2 Secondary Point of Interconnection

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

The secondary POI for AG1-444 is a new tap on the Bethel Carolina-Conatoe 115 kV line.

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

5 Cost Summary

The AG1-444 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$0
Total System Network Upgrade Costs	\$1,010,701,000 ¹
Total Costs	\$1,010,701,000

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

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

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

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

6 Transmission Owner Scope of Work

The required Attachment Facilities, Direct Connection and Non-Direct Connection work for the interconnection of AG1-444 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.

AG1-444 "Chinquapin 230 kV" will interconnect with the Dominion transmission system as an uprate to AG1-439, sharing the POI and Attachment Facilities.

As AG1-444 is sharing the POI and Attachment Facilities with AG1-439, there are no associated interconnection costs for this project. Should the AG1-439 project withdraw from the Interconnection Queue, the AG1-444 project will assume the Attachment, Direct Connection, and Non-Direct Connection costs identified in the AG1-439 study report for connection to the Dominion system.

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

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

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 AG1-444 for compliance with NERC Reliability Criteria on the Dominion Transmission System. The system was assessed using the summer 2024 AG1 case provided to Dominion by PJM.

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

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

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

8.1 Power Flow Analysis

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

9 Interconnection Customer Requirements

9.1 System Protection

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

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

9.2 Compliance Issues and Interconnection Customer Requirements

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

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

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

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

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

9.3 Power Factor Requirements

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

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

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

10.2 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 AG1-444 was evaluated as a 80.0 MW (Capacity 80.0 MW) injection as an uprate to AG1-439 which is a direct connection at the Chinquapin 230 kV substation in the Dominion area. Project AG1-444 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-444 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

11.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168528256	313713	6SWAMP	230.0	DVP	314648	6SUNBURY	230.0	DVP	1	DVP_P1-2: LN 2021	single	984.179992676	99.77	100.46	DC	6.71
169039509	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	314574 6EVERETS 230 927020 AC1-189 TAP 230 1	single	441.799987793	84.98	103.08	DC	79.98
169039545	314610	6TOTDP4	230.0	DVP	314564	6EDGECOM	230.0	DVP	1	DVP_P1-2: LN 218	single	441.799987793	97.89	108.77	DC	48.07
169039584	927020	AC1-189 TAP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 2167	single	441.799987793	84.98	103.08	DC	79.98

11.2 Multiple Facility Contingency

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

None

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168242037	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	136.9	138.48	DC	6.38
168242038	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	136.9	138.48	DC	6.38
168242039	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	single	275.0	126.92	128.74	DC	5.05
168528222	313701	6CHINQUAPIN	230.0	DVP	314609	6TARBORO	230.0	DVP	1	DVP_P1-2: LN 218	single	441.799987793	108.63	119.52	DC	48.07
168528138	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	single	733.200012207	153.78	154.88	DC	8.02
163350735	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	459.0	194.56	196.93	DC	10.85
163350736	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	188.94	191.25	DC	10.58
163351005	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	214.67	217.91	DC	14.88

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
163351006	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:48:P71:102649	tower	459.0	187.88	190.19	DC	10.58
168528150	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	375.059997559	164.58	167.4	DC	10.58
168528151	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	375.059997559	153.22	155.9	DC	10.04
166985072	313844	3HATHAWAY	115.0	DVP	314554	3BTLEBRO	115.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	301.0	109.27	113.9	DC	13.91
163843258	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT230T	230.0	CPL E	1	DVP_P1-2: LN 2181	single	478.0	134.08	138.83	DC	22.69
163843259	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT230T	230.0	CPL E	1	EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1	single	478.0	124.96	129.71	DC	22.69
168528163	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	single	733.200012207	148.93	150.02	DC	8.04
168833358	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	single	731.320007324	149.3	150.39	DC	8.04
168833462	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 249	single	441.799987793	118.56	119.58	DC	4.51
168833458	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 249	single	441.799987793	118.58	119.6	DC	4.51
163351075	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	163.18	163.73	DC	10.25
163351076	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P7-1: LN 54-2012-A	tower	830.0	163.09	163.65	DC	10.25
168833382	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	150.81	152.34	DC	10.43
168833383	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1	single	678.679992676	147.79	149.33	DC	10.43
168833384	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	single	678.679992676	135.51	137.12	DC	10.92
163843882	314554	3BTLEBRO	115.0	DVP	304223	3ROCKYMT115T	115.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	164.0	327.01	333.97	DC	11.38
163350821	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	150.5	151.1	DC	11.08
163351080	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	160.88	162.68	DC	14.89
163351081	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	830.0	150.79	152.21	DC	11.79
169039502	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2056-A	single	678.679992676	137.93	138.8	DC	7.2
169039503	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	132.63	134.11	DC	10.44
169039504	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	single	678.679992676	122.48	123.99	DC	10.92
169039507	314564	6EDGEKOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 218	single	441.799987793	120.1	130.98	DC	48.07
169039367	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	240.73	243.61	DC	16.45
169039368	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	237.84	240.72	DC	16.46
169039370	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	single	571.520019531	147.44	149.69	DC	12.89
163843020	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P4-2: 2020T2144	breaker	478.0	226.01	229.25	DC	15.49
163843195	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2167	single	478.0	153.87	160.88	DC	33.54
163843196	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2092	single	478.0	157.26	160.49	DC	15.48

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
163843200	314574	6EVERETS	230.0	DVP	304451	6GREENVILE T	230.0	CPL E	1	Base Case	single	478.0	119.09	122.03	DC	14.07
163843885	314574	6EVERETS	230.0	DVP	304451	6GREENVILE T	230.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	478.0	229.91	234.26	DC	20.76
169039385	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	232.06	234.93	DC	16.45
169039386	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	229.17	232.05	DC	16.46
169039388	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	single	571.520019531	138.74	141.0	DC	12.89
163351030	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	199.88	203.13	DC	14.91
168528166	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P1-2: LN 2056-A	single	375.059997559	163.84	165.54	DC	6.36
168528167	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	single	375.059997559	148.69	151.52	DC	10.61
169039474	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 238-B	single	375.059997559	142.41	144.38	DC	7.37
169039475	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 2201	single	375.059997559	134.07	136.16	DC	7.83
163843246	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	single	478.0	134.86	139.83	DC	23.77
163843251	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 218	single	478.0	107.84	111.25	DC	16.33
169039541	314609	6TARBORO	230.0	DVP	314610	6TOTDP4	230.0	DVP	1	DVP_P1-2: LN 218	single	441.799987793	100.35	111.23	DC	48.07
168528157	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	single	733.200012207	148.94	150.04	DC	8.04
169250750	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 247	single	571.520019531	180.64	181.83	DC	6.83
169250752	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 2144	single	571.520019531	162.5	163.7	DC	6.84
169250763	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	single	733.200012207	154.64	155.74	DC	8.02
163351060	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	167.6	169.4	DC	14.89
163351061	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 54-2012-B	tower	830.0	161.49	162.05	DC	10.26
169756112	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	147.96	149.42	DC	10.44
169756113	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	314266 6NORTHAMPT ON 230 936400 AD2-051 TAP 230 1	single	678.679992676	144.94	146.4	DC	10.44
169756114	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	single	678.679992676	134.71	136.32	DC	10.92
168833303	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	236.39	239.27	DC	16.45
168833304	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2131	single	571.520019531	233.5	236.38	DC	16.46
168833306	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	single	571.520019531	143.13	145.38	DC	12.89

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
168242238	242620	05DANVL2	138.0	AEP	242631	05EDAN 1	138.0	AEP	1	Base Case	operati on	275.0	105.97	106.94	DC	5.05
168242034	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P1-3_#1377_05J.FERR 765_1	operati on	402.0	162.48	163.19	DC	6.38
168242035	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	162.48	163.19	DC	6.38
168242036	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	operati on	275.0	141.17	142.0	DC	5.05
168528220	313701	6CHINQUAPI N	230.0	DVP	314609	6TARBORO	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	172.67	183.55	DC	48.07
168528531	313701	6CHINQUAPI N	230.0	DVP	927020	AC1-189 TAP	230.0	DVP	1	DVP_P1-2: LN 2167	operati on	441.799987793	96.84	114.94	DC	79.98
168528135	313714	6PERQUIMANS	230.0	DVP	314662	6S HERTFORD	230.0	DVP	1	Base Case	operati on	733.200012207	220.73	221.82	DC	8.02
168528299	313719	3CHESTNUT	115.0	DVP	314623	3WITAKRS	115.0	DVP	1	DVP_P1-2: LN 2056-A	operati on	165.440002441	151.46	152.89	DC	4.48
168528148	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operati on	375.059997559	229.02	231.84	DC	10.58
163843256	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT2 30T	230.0	CPL E	1	DVP_P1-2: LN 2181	operati on	478.0	183.1	187.86	DC	22.69
168528482	313857	6WINDSORD P	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	547.08001709	118.07	120.71	DC	14.42
168528483	313857	6WINDSORD P	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 246-A	operati on	547.08001709	118.07	120.71	DC	14.42
168528410	313858	3SO JUSTICE	115.0	DVP	314577	3COX DP	115.0	DVP	1	DVP_P1-2: LN 2056-A	operati on	165.440002441	125.97	127.4	DC	4.46
168528160	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	operati on	733.200012207	196.82	197.92	DC	8.04
168833355	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	operati on	731.320007324	197.31	198.41	DC	8.04
168833363	314203	6MACKEYS	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	Base Case	operati on	789.599975586	106.77	107.79	DC	8.06
168833379	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	operati on	678.679992676	196.87	197.56	DC	10.43
168833381	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operati on	678.679992676	179.71	180.44	DC	10.92
169039656	314561	6CAROLNA	230.0	DVP	314559	3CAROLNA	115.0	DVP	1	DVP_P1-2: LN 2201	operati on	239.888000488	102.66	103.74	DC	5.78
169039501	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	operati on	678.679992676	173.5	174.22	DC	10.92
169039505	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	173.25	184.14	DC	48.07
169039508	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	Base Case	operati on	441.799987793	94.4	103.95	DC	42.2
168528507	314569	6EARLEYS	230.0	DVP	313857	6WINDSORD P	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	571.520019531	115.17	117.7	DC	14.42
169039365	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	331.09	333.97	DC	16.45
169039369	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	operati on	571.520019531	196.85	199.11	DC	12.89
163843189	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2092	operati on	478.0	223.83	227.07	DC	15.48

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
163843194	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	Base Case	operati on	478.0	164.57	167.51	DC	14.07
169039650	314574	6EVERETS	230.0	DVP	927020	AC1-189 TAP	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	103.66	110.88	DC	31.91
169039383	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	322.42	325.3	DC	16.45
169039387	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	operati on	571.520019531	188.16	190.42	DC	12.89
169039622	314577	3COX DP	115.0	DVP	313719	3CHESTNUT	115.0	DVP	1	DVP_P1-2: LN 2056-A	operati on	165.440002441	117.62	119.06	DC	4.46
169039516	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	174.57	176.41	DC	8.11
169039664	314579	6HORNRTN	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	314574 6EVERETS 230 927020 AC1-189 TAP 230 1	operati on	441.799987793	100.84	105.96	DC	22.63
168528164	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P1-2: LN 2056-A	operati on	375.059997559	222.93	223.7	DC	6.36
168528165	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	operati on	375.059997559	209.14	211.97	DC	10.61
169039472	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 238-B	operati on	375.059997559	209.91	210.8	DC	7.37
169039595	314583	6LAKEVEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	314435 6SAPONY 230 940480 AE2-033 TAP 230 1	operati on	441.799987793	130.65	132.47	DC	8.04
163843245	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	operati on	478.0	183.57	188.55	DC	23.77
168833634	314594	6PLYMOTH	230.0	DVP	314203	6MACKEYS	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	789.599975586	135.93	137.44	DC	11.93
169039449	314594	6PLYMOTH	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	Base Case	operati on	789.599975586	104.04	105.06	DC	8.06
169039418	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	269.779998779	250.69	251.76	DC	5.47
169039422	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	Base Case	operati on	247.220001221	112.51	113.53	DC	4.74
169039539	314609	6TARBORO	230.0	DVP	314610	6TOTDP4	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	159.24	170.12	DC	48.07
169039543	314610	6TOTDP4	230.0	DVP	314664	6EDGECOM	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	156.77	167.65	DC	48.07
169039613	314613	3TRWBRDG	115.0	DVP	314621	3WEYRHAU SER	115.0	DVP	1	DVP_P1-2: LN 2034-E	operati on	269.779998779	130.63	131.56	DC	4.74
169039626	314613	3TRWBRDG	115.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 2034-E	operati on	194.861999512	119.39	120.72	DC	5.76
169039427	314614	3TRWBRDG2	115.0	DVP	314596	3POPLR C	115.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	285.760009766	236.32	237.33	DC	5.47
169039423	314616	6TRWBRDG	230.0	DVP	314613	3TRWBRDG	115.0	DVP	1	DVP_P1-2: LN 2034-E	operati on	194.861999512	238.95	240.52	DC	5.76
169039589	314616	6TRWBRDG	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	789.599975586	138.67	140.18	DC	11.93
169039591	314616	6TRWBRDG	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	Base Case	operati on	789.599975586	100.54	101.56	DC	8.06
169039658	314620	6CASHIE	230.0	DVP	933990	AD1-023 TAP	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	571.520019531	107.72	108.21	DC	6.11
169039531	314621	3WEYRHAU SER	115.0	DVP	314614	3TRWBRDG2	115.0	DVP	1	DVP_P1-2: LN 2034-E	operati on	269.779998779	178.49	179.42	DC	4.76
168528154	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	operati on	733.200012207	196.84	197.93	DC	8.04
169250760	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	operati on	733.200012207	221.59	222.68	DC	8.02
168528437	927020	AC1-189 TAP	230.0	DVP	313701	6CHINQUAPI N	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	121.3	128.53	DC	31.91
169039582	927020	AC1-189 TAP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 2167	operati on	441.799987793	130.74	148.84	DC	79.98

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADING %	POST PROJE CT LOADING %	AC DC	MW IMPACT
169039630	933990	AD1-023 TAP	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	118.02	118.5	DC	6.11
168528263	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 238-B	operation	441.799987793	162.68	163.59	DC	7.56
168528267	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	Base Case	operation	441.799987793	105.69	108.31	DC	11.5
169756109	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	197.32	198.01	DC	10.44
169756111	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operation	678.679992676	182.52	183.24	DC	10.92
168833301	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	327.87	330.75	DC	16.45
168833305	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	operation	571.520019531	194.15	196.41	DC	12.89
169039654	965690	AG1-437 TAP	230.0	DVP	314620	6CASHIE	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	109.84	110.32	DC	6.11

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
168242037,168 242039,168242 038	5	05EDAN 1 138.0 kV - 05DANVL2 138.0 kV Ckt 1	<u>AEP</u> n6124 (382) : PJM Network Upgrade n6124. Increasing the Danville East Danville 138 kV circuit summer rating to 572/572/572 MVA will still require us to rebuild the line. The network project has an projected in-service date of 06/01/2021. Project Type : FAC Cost : \$9,000,000 Time Estimate : Months	\$9,000,000
169039367,169 039370,169039 368	18	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
169039545	3	6TOTDP4 230.0 kV - 6EDGEOM 230.0 kV Ckt 1	<u>DVP</u> dom-323 (1854) : Rebuild 14.14 miles of 230 kV Line 229 from Town of Tarboro DP#4 to Edgecombe with 2-636 ACSR 150 C Project Type : FAC Cost : \$35,350,000 Time Estimate : 36-40 Months	\$35,350,000
168833306,168 833304,168833 303	29	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
169756113,169 756114,163351 060,163351061, 169756112	28	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

ID	Idx	Facility	Upgrade Description	Cost
168528163	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
168528157	25	6EDENTON 230.0 kV - 6WALBMRL 230.0 kV Ckt 1		
168833358	12	6MACKEYS 230.0 kV - 6EDENTON 230.0 kV Ckt 1		
168528166,168 528167,163351 030	21	6LAKEVEW 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
163843259,163 843258	10	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
163843885,163 843020,163843 196,163843200, 163843195	19	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
163843246,163 843251	23	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

ID	Idx	Facility	Upgrade Description	Cost
169039474,169 039475	22	6LAKEVEW 230.0 kV - 6CAROLNA 230.0 kV Ckt 1	<u>DVP</u> n6052 (1683) : Rebuild 1.37 miles of 230 kV Line 2141 from Lakeview to Carolina with 2-636 ACSR. Project Type : FAC Cost : \$1,781,000 Time Estimate : 30-36 Months	\$1,781,000
163843882	16	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	\$570,000,000
166985072	9	3HATHAWAY 115.0 kV - 3BTLEBRO 115.0 kV Ckt 1	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.	
169039507,169 039509	2	6EDGECOM 230.0 kV - 6HATHAWAY 230.0 kV Ckt 1	<u>DVP</u> dom-314 (1845) : Rebuild 0.28 miles of 230 kV Line 2167 from Edgecombe to Hathaway with 2-636 ACSS 150 C Project Type : FAC Cost : \$420,000 Time Estimate : 30-36 Months	\$420,000
168833462	13	6HARROWG 230.0 kV - 6TYLER1 230.0 kV Ckt 1	<u>DVP</u> n6178 (1717) : Rebuild 4.5 miles of 230 kV Line 2003 from Harrowgate to Tyler with 2-636 ACSR. Project Type : FAC Cost : \$11,250,000 Time Estimate : 30-36 Months	\$11,250,000

ID	Idx	Facility	Upgrade Description	Cost
168833458	14	6POE 230.0 kV - 6HARROWG 230.0 kV Ckt 1	<u>DVP</u> n6179 (1718) : Rebuild 12.3 miles of 230 kV Line 2003 from Poe to Harrowgate with 2-636 ACSR. Project Type : FAC Cost : \$30,750,000 Time Estimate : 30-36 Months	\$30,750,000
168528138	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
169250763	27	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	
169039584	4	AC1-189 TAP 230.0 kV - 6EVERETS 230.0 kV Ckt 1	<u>DVP</u> dom-386 (1917) : Rebuild 15.21 miles of 115 kV Line 2160 from AC1-189 Tap to Everetts with 2-636 ACSR 150 C. Project Type : FAC Cost : \$22,815,000 Time Estimate : 36-40 Months	\$22,815,000
169039388,169 039385,169039 386	20	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
168833384,168 833383,163351 076,163351075, 168833382	15	6SAPONY 230.0 kV - 6CARSON 230.0 kV Ckt 1	<u>DVP</u> n6221 (1724) : Rebuild 11.79 miles of 230 kV Line 238 from Sapony to Carson with 2-795 150C ACSR. Project Type : FAC Cost : \$17,685,000 Time Estimate : 30-36 Months	\$17,685,000

ID	Idx	Facility	Upgrade Description	Cost
168528151,168528150,163350736,163350735,163351006,163351005	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
168528256	1	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
169250750,169250752	26	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
169039504,169039502,169039503,163350821,163351080,163351081	17	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
169039541	24	6TARBORO 230.0 kV - 6TOTDP4 230.0 kV Ckt 1	<u>DVP</u> dom-322 (1853) : Rebuild 2.13 miles of 230 kV Line 229 from Tarboro to Town of Tarboro DP#4 with 2-636 ACSR 150 C Project Type : FAC Cost : \$5,475,000 Time Estimate : 30-36 Months	\$5,475,000
168528222	6	6CHINQUAPIN 230.0 kV - 6TARBORO 230.0 kV Ckt 1	<u>DVP</u> dom-260 (1791) : Rebuild 5.75 miles of 230 kV line 2177 from Chinquapin to Tarboro with 2-636 ACSR 150 C Project Type : FAC Cost : \$8,625,000 Time Estimate : 36-42 Months	\$8,625,000

ID	Idx	Facility	Upgrade Description	Cost
			TOTAL COST	\$1,010,701,000

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
168528256	313713	6SWAMP	DVP	314648	6SUNBURY	DVP	1	DVP_P1-2: LN 2021	single	984.18	99.77	100.46	DC	6.71

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	1.4124	80/20	1.4124
313719	3CHESTNUT	0.4257	80/20	0.4257
314582	3KELFORD	0.1922	80/20	0.1922
314589	3MURPHYS	0.0290	80/20	0.0290
314623	3WITAKRS	0.0776	80/20	0.0776
314638	6ELIZ CT	0.8257	80/20	0.8257
314639	6TANGLEW	1.5211	80/20	1.5211
315126	1ROARAP2	0.4154	80/20	0.4154
315128	1ROARAP4	0.3964	80/20	0.3964
315131	1EDGE CMA (Deactivation : 22/04/2019)	3.4098	80/20	3.4098
315132	1EDGE CMB (Deactivation : 22/04/2019)	3.4098	80/20	3.4098
315136	1ROSEMG1	0.7119	80/20	0.7119
315137	1ROSEMS1	0.4415	80/20	0.4415
315138	1ROSEMG2	0.3337	80/20	0.3337
315139	1GASTONA	1.0246	80/20	1.0246
315141	1GASTONB	1.0246	80/20	1.0246
315292	1DOMTR78	2.2291	80/20	2.2291
315293	1DOMTR9	11.5293	80/20	11.5293
315294	1DOMTR10	14.1290	80/20	14.1290
315601	1CONETOE2SOL	0.7017	80/20	0.7017
315602	1HOLLOMAN SOL	1.0105	80/20	1.0105
315605	6W1-029WIND	4.4391	80/20	4.4391
315606	3AA2-053SOLA	0.5269	80/20	0.5269
315611	6Z1-036WIND	3.7391	80/20	3.7391
315614	AA2-178 C	3.8454	80/20	3.8454
316020	AB2-059 C OP	0.5933	80/20	0.5933
316140	AB2-099 C (Suspended)	0.3138	80/20	0.3138
920591	AA2-165 C	0.0571	80/20	0.0571
922922	AB1-081 C OP	0.5034	80/20	0.5034
925121	AB2-169 C	1.3755	80/20	1.3755
925591	AC1-034 C	2.4359	80/20	2.4359
926070	AC1-086 C	7.3032	80/20	7.3032
926201	AC1-098 C	2.6561	80/20	2.6561
926211	AC1-099 C	0.8901	80/20	0.8901
927024	AC1-189 C	4.9245	80/20	4.9245
927145	AC1-208 C	3.4193	80/20	3.4193
932631	AC2-084 C	3.7863	80/20	3.7863
933991	AD1-023 C	21.5408	80/20	21.5408
934331	AD1-057 C O1	3.5836	80/20	3.5836
934521	AD1-076 C	106.8091	80/20	106.8091

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936401	AD2-051 C O1	6.1748	80/20	6.1748
938221	AE1-035 C	0.2527	80/20	0.2527
940491	AE2-034 C	18.2801	80/20	18.2801
940571	AE2-044 C	1.5954	80/20	1.5954
941501	AE2-147 C	64.9314	80/20	64.9314
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1030	80/20	0.1030
943171	AE2-346 C	0.7532	80/20	0.7532
944141	AF1-082	1.0256	80/20	1.0256
944871	AF1-152 C	21.6438	80/20	21.6438
945711	AF1-236 C O1	200.1234	80/20	200.1234
957521	AF2-046 C	6.2984	80/20	6.2984
957531	AF2-047 C	43.4370	80/20	43.4370
957861	AF2-080 C	4.4727	80/20	4.4727
959511	AF2-242 C	8.2827	80/20	8.2827
961671	AG1-007 C	0.5963	80/20	0.5963
961681	AG1-008 C	6.3110	80/20	6.3110
961931	AG1-036 C	0.6255	80/20	0.6255
961941	AG1-037 C	0.2690	80/20	0.2690
962331	AG1-082 C	1.0760	80/20	1.0760
962341	AG1-083 C	1.0760	80/20	1.0760
962351	AG1-084 C	1.0544	80/20	1.0544
962361	AG1-085 C	1.0544	80/20	1.0544
962571	AG1-106 C	2.0310	80/20	2.0310
964491	AG1-312 C O1	15.7674	80/20	15.7674
964501	AG1-313 C O1	1.9513	80/20	1.9513
965631	AG1-431	115.8609	80/20	115.8609
965691	AG1-437 C O1	13.9758	80/20	13.9758
965701	AG1-438 C O1	13.9758	80/20	13.9758
965711	AG1-439 C O1	12.5880	80/20	12.5880
965741	AG1-442 O1	8.1526	80/20	8.1526
965751	AG1-443 O1	8.1526	80/20	8.1526
965761	AG1-444 O1	6.7136	80/20	6.7136
966801	AG1-551 C	2.0839	80/20	2.0839
966811	AG1-552 C	0.6595	80/20	0.6595
966931	AG1-431A	87.0480	80/20	87.0480
WEC	WEC	0.1159	Confirmed LTF	0.1159
LGEE	LGEE	0.2362	Confirmed LTF	0.2362
CPL	CPL	1.4510	Confirmed LTF	1.4510
CBM-W2	CBM-W2	5.1341	Confirmed LTF	5.1341
NY	NY	0.1443	Confirmed LTF	0.1443
TVA	TVA	0.9702	Confirmed LTF	0.9702
SIGE	SIGE	0.0743	Confirmed LTF	0.0743
CBM-S2	CBM-S2	15.5034	Confirmed LTF	15.5034
CBM-S1	CBM-S1	0.2413	Confirmed LTF	0.2413
MEC	MEC	0.6960	Confirmed LTF	0.6960
LAGN	LAGN	1.2110	Confirmed LTF	1.2110
CBM-W1	CBM-W1	4.8509	Confirmed LTF	4.8509

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
169039507	314564	6EDGECOM	DVP	313845	6HATHAWAY	DVP	1	DVP_P1-2: LN 218	single	441.8	120.1	130.98	DC	48.07

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

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

11.6.3 Index 3

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169039545	314610	6TOTDP4	DVP	314564	6EDGECOM	DVP	1	DVP_P1-2: LN 218	single	441.8	97.89	108.77	DC	48.07

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1110	80/20	0.1110
314582	3KELFORD	0.1341	80/20	0.1341
314589	3MURPHYS	0.0308	80/20	0.0308
314638	6ELIZ CT	0.0649	80/20	0.0649
314639	6TANGLEW	0.1296	80/20	0.1296
315292	1DOMTR78	1.4959	80/20	1.4959
315293	1DOMTR9	7.7369	80/20	7.7369
315294	1DOMTR10	9.4815	80/20	9.4815
315601	1CONETOE2SOL	5.0246	80/20	5.0246
315602	1HOLLOMANSOL	1.1697	80/20	1.1697
315605	6W1-029WIND	0.3945	80/20	0.3945
315611	6Z1-036WIND	0.5193	80/20	0.5193
315614	AA2-178 C	1.0665	80/20	1.0665
316140	AB2-099 C (Suspended)	0.3213	80/20	0.3213
925121	AB2-169 C	1.5079	80/20	1.5079
925591	AC1-034 C	-4.4790	Adder	-5.27
927024	AC1-189 C	27.7675	80/20	27.7675
933991	AD1-023 C	10.9720	80/20	10.9720
934521	AD1-076 C	45.6132	80/20	45.6132
936401	AD2-051 C O1	7.0515	80/20	7.0515
938221	AE1-035 C	0.2925	80/20	0.2925
940491	AE2-034 C	5.0698	80/20	5.0698
941501	AE2-147 C	5.7708	80/20	5.7708
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1048	80/20	0.1048
943171	AE2-346 C	0.7711	80/20	0.7711
944871	AF1-152 C	1.9236	80/20	1.9236
945711	AF1-236 C O1	55.5025	80/20	55.5025
957521	AF2-046 C	6.6117	80/20	6.6117
957531	AF2-047 C	12.0469	80/20	12.0469
957861	AF2-080 C	25.2195	80/20	25.2195
959511	AF2-242 C	12.6968	80/20	12.6968
961671	AG1-007 C	5.1139	80/20	5.1139
961681	AG1-008 C	6.6250	80/20	6.6250
961931	AG1-036 C	0.6466	80/20	0.6466
961941	AG1-037 C	0.2754	80/20	0.2754
962331	AG1-082 C	1.1016	80/20	1.1016
962341	AG1-083 C	1.1016	80/20	1.1016
962351	AG1-084 C	1.0726	80/20	1.0726
962361	AG1-085 C	1.0726	80/20	1.0726
964491	AG1-312 C O1	15.5355	80/20	15.5355
965631	AG1-431	32.1330	80/20	32.1330

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

11.6.4 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
169039584	927020	AC1-189 TAP	DVP	314574	6EVERETS	DVP	1	DVP_P1-2: LN 2167	single	441.8	84.98	103.08	DC	79.98

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315131	1EDGECEMA (Deactivation : 22/04/2019)	57.9838	80/20	57.9838
315132	1EDGECEMB (Deactivation : 22/04/2019)	57.9838	80/20	57.9838
315601	1CONETOE2SOL	8.3594	80/20	8.3594
927024	AC1-189 C	53.3851	80/20	53.3851
957861	AF2-080 C	48.4864	80/20	48.4864
961671	AG1-007 C	7.6978	80/20	7.6978
965711	AG1-439 C O1	149.9580	80/20	149.9580
965761	AG1-444 O1	79.9776	80/20	79.9776
CALDERWOOD	CALDERWOOD	0.0139	Confirmed LTF	0.0139
NY	NY	0.0155	Confirmed LTF	0.0155
PRAIRIE	PRAIRIE	0.0723	Confirmed LTF	0.0723
CHEOAH	CHEOAH	0.0140	Confirmed LTF	0.0140
COTTONWOOD	COTTONWOOD	0.0588	Confirmed LTF	0.0588
HAMLET	HAMLET	0.0162	Confirmed LTF	0.0162
GIBSON	GIBSON	0.0153	Confirmed LTF	0.0153
BLUEG	BLUEG	0.0486	Confirmed LTF	0.0486
TRIMBLE	TRIMBLE	0.0156	Confirmed LTF	0.0156
CATAWBA	CATAWBA	0.0098	Confirmed LTF	0.0098

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
168242038	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	AEP_P2-1_242520 05J.FERR 500 242514 05J.FERR 765 1	single	402.0	136.9	138.48	DC	6.38

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

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

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

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

11.6.6 Index 6

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168528222	313701	6CHINQUAPIN	DVP	314609	6TARBORO	DVP	1	DVP_P1-2: LN 218	single	441.8	108.63	119.52	DC	48.07

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

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

11.6.7 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
168528138	313714	6PERQUIMANS	DVP	314662	6S HERTFORD	DVP	1	Base Case	single	733.2	153.78	154.88	DC	8.02

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

11.6.8 Index 8

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163351005	313725	6DRY BREAD	DVP	314563	6CLUBHSE	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	214.67	217.91	DC	14.88

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

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

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

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

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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
166985072	313844	3HATHAWAY	DVP	314554	3BTLEBRO	DVP	1	DVP_P7-1: LN 2058-2181	tower	301.0	109.27	113.9	DC	13.91

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

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

11.6.10 Index 10

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
163843258	313845	6HATHAWAY	DVP	304222	6ROCKYMT230T	CPL	1	DVP_P1-2: LN 2181	single	478.0	134.08	138.83	DC	22.69

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

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

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

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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
168528163	313885	6WALBMRL	DVP	313714	6PERQUIMANS	DVP	1	Base Case	single	733.2	148.93	150.02	DC	8.04

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
168833358	314203	6MACKEYS	DVP	314637	6EDENTON	DVP	1	Base Case	single	731.32	149.3	150.39	DC	8.04

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
168833462	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P1-2: LN 249	single	441.8	118.56	119.58	DC	4.51

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.0533	80/20	4.0533
313527	AB2-043 C	0.1557	80/20	0.1557
313719	3CHESTNUT	0.4519	80/20	0.4519
314435	6SAPONY	0.4018	80/20	0.4018
314572	3EMPORIA	0.2777	80/20	0.2777
314582	3KELFORD	0.1340	80/20	0.1340
314589	3MURPHYS	0.0330	80/20	0.0330
314623	3WITAKRS	0.0820	80/20	0.0820
314704	3LAWRENC	0.1680	80/20	0.1680
315115	1S HAMPT1	0.5168	80/20	0.5168
315126	1ROARAP2	0.6444	80/20	0.6444
315128	1ROARAP4	0.6149	80/20	0.6149
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.4765	80/20	3.4765
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.4765	80/20	3.4765
315136	1ROSEMG1	1.0972	80/20	1.0972
315137	1ROSEMS1	0.6804	80/20	0.6804
315138	1ROSEMG2	0.5142	80/20	0.5142
315139	1GASTONA	1.6499	80/20	1.6499
315141	1GASTONB	1.6499	80/20	1.6499
315158	1KERR 1	0.1323	80/20	0.1323
315159	1KERR 2	0.3705	80/20	0.3705
315160	1KERR 3	0.3705	80/20	0.3705
315161	1KERR 4	0.3705	80/20	0.3705
315162	1KERR 5	0.3705	80/20	0.3705
315163	1KERR 6	0.3705	80/20	0.3705
315164	1KERR 7	0.3705	80/20	0.3705
315601	1CONETOE2SOL	0.4715	80/20	0.4715
315602	1HOLLOMAN SOL	0.4752	80/20	0.4752
315606	3AA2-053SOLA	0.6700	80/20	0.6700
315607	3AA1-063SOLA	0.6064	80/20	0.6064
315608	3AA2-088SOLA	0.3959	80/20	0.3959
316020	AB2-059 C OP	0.6220	80/20	0.6220
316083	AB2-161 C	3.3256	80/20	3.3256
316087	AB2-174 C	0.6908	80/20	0.6908
316096	AB2-100 C1	0.7243	80/20	0.7243
316098	AB2-100 C2	0.7243	80/20	0.7243
316103	AB2-015 C	3.0230	80/20	3.0230
316129	AC1-054 C	2.9868	80/20	2.9868
316131	AB2-060 C	0.4425	80/20	0.4425
316132	AB2-190 C	-5.3445	Adder	-6.29

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316140	AB2-099 C (Suspended)	0.2156	80/20	0.2156
920591	AA2-165 C	0.0607	80/20	0.0607
922922	AB1-081 C OP	0.5277	80/20	0.5277
923991	AB2-040 C O1	4.4145	80/20	4.4145
924301	AB2-077 C O1 (Suspended)	0.6242	80/20	0.6242
924311	AB2-078 C O1 (Suspended)	0.6242	80/20	0.6242
924321	AB2-079 C O1 (Suspended)	0.6242	80/20	0.6242
925591	AC1-034 C	2.5535	80/20	2.5535
926070	AC1-086 C	11.7602	80/20	11.7602
926201	AC1-098 C	2.4733	80/20	2.4733
926211	AC1-099 C	0.8288	80/20	0.8288
927024	AC1-189 C	2.9487	80/20	2.9487
927145	AC1-208 C	3.8060	80/20	3.8060
932581	AC2-078 C O1	4.0814	80/20	4.0814
932591	AC2-079 C O1	3.7930	80/20	3.7930
932631	AC2-084 C	3.5258	80/20	3.5258
934331	AD1-057 C O1	4.6232	80/20	4.6232
934575	AD1-082 C	7.5788	80/20	7.5788
936361	AD2-046 C O1	3.0304	80/20	3.0304
936401	AD2-051 C O1	2.9994	80/20	2.9994
936661	AD2-085 C	1.7277	80/20	1.7277
936761	AD2-097 C	-0.8094	Adder	-0.95
938221	AE1-035 C	0.1188	80/20	0.1188
938634	AE1-085 C	9.1195	80/20	9.1195
938771	AE1-103 C	1.2128	80/20	1.2128
939181	AE1-148 C	2.9792	80/20	2.9792
939195	AE1-149 C	11.9634	80/20	11.9634
940061	AE2-000BC O1	10.1004	80/20	10.1004
940481	AE2-033 C	15.8714	80/20	15.8714
940541	AE2-040	2.8976	80/20	2.8976
940571	AE2-044 C	1.6724	80/20	1.6724
940651	AE2-052	3.9878	80/20	3.9878
940661	AE2-053 O1	1.1034	80/20	1.1034
941101	AE2-104 C O1	0.9615	80/20	0.9615
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0621	80/20	0.0621
942151	AE2-227 C	-0.6012	Adder	-0.71
942161	AE2-228 C	-1.8376	Adder	-2.16
942341	AE2-247 C	0.7535	80/20	0.7535
942451	AE2-258	0.7362	80/20	0.7362
942471	AE2-260 C O1	11.7682	80/20	11.7682
943171	AE2-346 C	0.5174	80/20	0.5174
943461	AF1-017 C	0.6817	80/20	0.6817
943911	AF1-059	7.9816	80/20	7.9816
944141	AF1-082	1.0751	80/20	1.0751
946011	AF1-266	13.2856	80/20	13.2856
946261	AF1-291 C	-2.3500	Adder	-2.76
946281	AF1-292 C	1.0265	80/20	1.0265
957521	AF2-046 C	6.4102	80/20	6.4102
957861	AF2-080 C	2.6782	80/20	2.6782

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958161	AF2-110 C	0.3964	80/20	0.3964
959511	AF2-242 C	2.2770	80/20	2.2770
959641	AF2-255 C	-0.1503	Adder	-0.18
959651	AF2-256 C	-0.4594	Adder	-0.54
960081	AF2-299 C	1.7301	80/20	1.7301
961091	AF2-400 C	0.1632	80/20	0.1632
961671	AG1-007 C	0.4412	80/20	0.4412
961681	AG1-008 C	6.4230	80/20	6.4230
961851	AG1-027 C	5.1720	80/20	5.1720
961931	AG1-036 C	0.5088	80/20	0.5088
961941	AG1-037 C	0.1848	80/20	0.1848
962331	AG1-082 C	0.7391	80/20	0.7391
962341	AG1-083 C	0.7391	80/20	0.7391
962351	AG1-084 C	0.6355	80/20	0.6355
962361	AG1-085 C	0.6355	80/20	0.6355
962571	AG1-106 C	3.2704	80/20	3.2704
963301	AG1-179 C	3.0785	80/20	3.0785
963311	AG1-180	1.4999	80/20	1.4999
964491	AG1-312 C O1	6.1824	80/20	6.1824
964501	AG1-313 C O1	2.0231	80/20	2.0231
964801	AG1-343 C	2.3257	80/20	2.3257
965291	AG1-394 C	0.8014	80/20	0.8014
965451	AG1-413 C O1	3.3552	80/20	3.3552
965601	AG1-428 C O1	2.5700	80/20	2.5700
965691	AG1-437 C O1	3.0546	80/20	3.0546
965701	AG1-438 C O1	3.0546	80/20	3.0546
965711	AG1-439 C O1	8.4585	80/20	8.4585
965721	AG1-440 C	2.7005	80/20	2.7005
965731	AG1-441 C	2.7005	80/20	2.7005
965741	AG1-442 O1	1.7818	80/20	1.7818
965751	AG1-443 O1	1.7818	80/20	1.7818
965761	AG1-444 O1	4.5112	80/20	4.5112
965771	AG1-445	1.5603	80/20	1.5603
965781	AG1-446	1.5603	80/20	1.5603
966621	AG1-532 C	0.9343	80/20	0.9343
966731	AG1-544 C	7.1223	80/20	7.1223
966741	AG1-545 C	2.3540	80/20	2.3540
966751	AG1-546 C	6.6967	80/20	6.6967
966801	AG1-551 C	0.7228	80/20	0.7228
966811	AG1-552 C	1.0231	80/20	1.0231
WEC	WEC	0.2164	Confirmed LTF	0.2164
LGEE	LGEE	0.4436	Confirmed LTF	0.4436
CPL	CPL	2.3362	Confirmed LTF	2.3362
CBM-W2	CBM-W2	9.5245	Confirmed LTF	9.5245
NY	NY	0.2704	Confirmed LTF	0.2704
TVA	TVA	1.7976	Confirmed LTF	1.7976
SIGE	SIGE	0.1391	Confirmed LTF	0.1391
CBM-S2	CBM-S2	27.3528	Confirmed LTF	27.3528
CBM-S1	CBM-S1	0.4480	Confirmed LTF	0.4480
MEC	MEC	1.2982	Confirmed LTF	1.2982
LAGN	LAGN	2.2365	Confirmed LTF	2.2365
AA2-074	AA2-074	1.5431	LTF	1.5431

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W1	CBM-W1	9.0709	Confirmed LTF	9.0709

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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
168833458	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P1-2: LN 249	single	441.8	118.58	119.6	DC	4.51

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.0533	80/20	4.0533
313527	AB2-043 C	0.1557	80/20	0.1557
313719	3CHESTNUT	0.4519	80/20	0.4519
314435	6SAPONY	0.4018	80/20	0.4018
314572	3EMPORIA	0.2777	80/20	0.2777
314582	3KELFORD	0.1340	80/20	0.1340
314589	3MURPHYS	0.0330	80/20	0.0330
314623	3WITAKRS	0.0820	80/20	0.0820
314704	3LAWRENC	0.1680	80/20	0.1680
315115	1S HAMPT1	0.5168	80/20	0.5168
315126	1ROARAP2	0.6444	80/20	0.6444
315128	1ROARAP4	0.6149	80/20	0.6149
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.4765	80/20	3.4765
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.4765	80/20	3.4765
315136	1ROSEMG1	1.0972	80/20	1.0972
315137	1ROSEMS1	0.6804	80/20	0.6804
315138	1ROSEMG2	0.5142	80/20	0.5142
315139	1GASTONA	1.6499	80/20	1.6499
315141	1GASTONB	1.6499	80/20	1.6499
315158	1KERR 1	0.1323	80/20	0.1323
315159	1KERR 2	0.3705	80/20	0.3705
315160	1KERR 3	0.3705	80/20	0.3705
315161	1KERR 4	0.3705	80/20	0.3705
315162	1KERR 5	0.3705	80/20	0.3705
315163	1KERR 6	0.3705	80/20	0.3705
315164	1KERR 7	0.3705	80/20	0.3705
315601	1CONETOE2SOL	0.4715	80/20	0.4715
315602	1HOLLOMANSOL	0.4752	80/20	0.4752
315606	3AA2-053SOLA	0.6700	80/20	0.6700
315607	3AA1-063SOLA	0.6064	80/20	0.6064
315608	3AA2-088SOLA	0.3959	80/20	0.3959
316020	AB2-059 C OP	0.6220	80/20	0.6220
316083	AB2-161 C	3.3256	80/20	3.3256
316087	AB2-174 C	0.6908	80/20	0.6908
316096	AB2-100 C1	0.7243	80/20	0.7243
316098	AB2-100 C2	0.7243	80/20	0.7243
316103	AB2-015 C	3.0230	80/20	3.0230
316129	AC1-054 C	2.9868	80/20	2.9868
316131	AB2-060 C	0.4425	80/20	0.4425
316132	AB2-190 C	-5.3445	Adder	-6.29

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316140	AB2-099 C (Suspended)	0.2156	80/20	0.2156
920591	AA2-165 C	0.0607	80/20	0.0607
922922	AB1-081 C OP	0.5277	80/20	0.5277
923991	AB2-040 C O1	4.4145	80/20	4.4145
924301	AB2-077 C O1 (Suspended)	0.6242	80/20	0.6242
924311	AB2-078 C O1 (Suspended)	0.6242	80/20	0.6242
924321	AB2-079 C O1 (Suspended)	0.6242	80/20	0.6242
925591	AC1-034 C	2.5535	80/20	2.5535
926070	AC1-086 C	11.7602	80/20	11.7602
926201	AC1-098 C	2.4733	80/20	2.4733
926211	AC1-099 C	0.8288	80/20	0.8288
927024	AC1-189 C	2.9487	80/20	2.9487
927145	AC1-208 C	3.8060	80/20	3.8060
932581	AC2-078 C O1	4.0814	80/20	4.0814
932591	AC2-079 C O1	3.7930	80/20	3.7930
932631	AC2-084 C	3.5258	80/20	3.5258
934331	AD1-057 C O1	4.6232	80/20	4.6232
934575	AD1-082 C	7.5788	80/20	7.5788
936361	AD2-046 C O1	3.0304	80/20	3.0304
936401	AD2-051 C O1	2.9994	80/20	2.9994
936661	AD2-085 C	1.7277	80/20	1.7277
936761	AD2-097 C	-0.8094	Adder	-0.95
938221	AE1-035 C	0.1188	80/20	0.1188
938634	AE1-085 C	9.1195	80/20	9.1195
938771	AE1-103 C	1.2128	80/20	1.2128
939181	AE1-148 C	2.9792	80/20	2.9792
939195	AE1-149 C	11.9634	80/20	11.9634
940061	AE2-000BC O1	10.1004	80/20	10.1004
940481	AE2-033 C	15.8714	80/20	15.8714
940541	AE2-040	2.8976	80/20	2.8976
940571	AE2-044 C	1.6724	80/20	1.6724
940651	AE2-052	3.9878	80/20	3.9878
940661	AE2-053 O1	1.1034	80/20	1.1034
941101	AE2-104 C O1	0.9615	80/20	0.9615
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0621	80/20	0.0621
942151	AE2-227 C	-0.6012	Adder	-0.71
942161	AE2-228 C	-1.8376	Adder	-2.16
942341	AE2-247 C	0.7535	80/20	0.7535
942451	AE2-258	0.7362	80/20	0.7362
942471	AE2-260 C O1	11.7682	80/20	11.7682
943171	AE2-346 C	0.5174	80/20	0.5174
943461	AF1-017 C	0.6817	80/20	0.6817
943911	AF1-059	7.9816	80/20	7.9816
944141	AF1-082	1.0751	80/20	1.0751
946011	AF1-266	13.2856	80/20	13.2856
946261	AF1-291 C	-2.3500	Adder	-2.76
946281	AF1-292 C	1.0265	80/20	1.0265
957521	AF2-046 C	6.4102	80/20	6.4102
957861	AF2-080 C	2.6782	80/20	2.6782

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958161	AF2-110 C	0.3964	80/20	0.3964
959511	AF2-242 C	2.2770	80/20	2.2770
959641	AF2-255 C	-0.1503	Adder	-0.18
959651	AF2-256 C	-0.4594	Adder	-0.54
960081	AF2-299 C	1.7301	80/20	1.7301
961091	AF2-400 C	0.1632	80/20	0.1632
961671	AG1-007 C	0.4412	80/20	0.4412
961681	AG1-008 C	6.4230	80/20	6.4230
961851	AG1-027 C	5.1720	80/20	5.1720
961931	AG1-036 C	0.5088	80/20	0.5088
961941	AG1-037 C	0.1848	80/20	0.1848
962331	AG1-082 C	0.7391	80/20	0.7391
962341	AG1-083 C	0.7391	80/20	0.7391
962351	AG1-084 C	0.6355	80/20	0.6355
962361	AG1-085 C	0.6355	80/20	0.6355
962571	AG1-106 C	3.2704	80/20	3.2704
963301	AG1-179 C	3.0785	80/20	3.0785
963311	AG1-180	1.4999	80/20	1.4999
964491	AG1-312 C O1	6.1824	80/20	6.1824
964501	AG1-313 C O1	2.0231	80/20	2.0231
964801	AG1-343 C	2.3257	80/20	2.3257
965291	AG1-394 C	0.8014	80/20	0.8014
965451	AG1-413 C O1	3.3552	80/20	3.3552
965601	AG1-428 C O1	2.5700	80/20	2.5700
965691	AG1-437 C O1	3.0546	80/20	3.0546
965701	AG1-438 C O1	3.0546	80/20	3.0546
965711	AG1-439 C O1	8.4585	80/20	8.4585
965721	AG1-440 C	2.7005	80/20	2.7005
965731	AG1-441 C	2.7005	80/20	2.7005
965741	AG1-442 O1	1.7818	80/20	1.7818
965751	AG1-443 O1	1.7818	80/20	1.7818
965761	AG1-444 O1	4.5112	80/20	4.5112
965771	AG1-445	1.5603	80/20	1.5603
965781	AG1-446	1.5603	80/20	1.5603
966621	AG1-532 C	0.9343	80/20	0.9343
966731	AG1-544 C	7.1223	80/20	7.1223
966741	AG1-545 C	2.3540	80/20	2.3540
966751	AG1-546 C	6.6967	80/20	6.6967
966801	AG1-551 C	0.7228	80/20	0.7228
966811	AG1-552 C	1.0231	80/20	1.0231
WEC	WEC	0.2164	Confirmed LTF	0.2164
LGEE	LGEE	0.4436	Confirmed LTF	0.4436
CPL	CPL	2.3362	Confirmed LTF	2.3362
CBM-W2	CBM-W2	9.5245	Confirmed LTF	9.5245
NY	NY	0.2704	Confirmed LTF	0.2704
TVA	TVA	1.7976	Confirmed LTF	1.7976
SIGE	SIGE	0.1391	Confirmed LTF	0.1391
CBM-S2	CBM-S2	27.3528	Confirmed LTF	27.3528
CBM-S1	CBM-S1	0.4480	Confirmed LTF	0.4480
MEC	MEC	1.2982	Confirmed LTF	1.2982
LAGN	LAGN	2.2365	Confirmed LTF	2.2365
AA2-074	AA2-074	1.5431	LTF	1.5431

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W1	CBM-W1	9.0709	Confirmed LTF	9.0709

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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
163351076	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P7-1: LN 54-2012-A	tower	830.0	163.09	163.65	DC	10.25

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163843882	314554	3BTLEBRO	DVP	304223	3ROCKYMT115T	CPL	1	DVP_P7-1: LN 2058-2181	tower	164.0	327.01	333.97	DC	11.38

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163351080	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	160.88	162.68	DC	14.89

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
169039367	314569	GEARLEYS	DVP	314575	6NUCO TP	DVP	1	DVP_P1-2: LN 2092	single	571.52	240.73	243.61	DC	16.45

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163843885	314574	6EVERETS	DVP	304451	6GREENVILLE	CPL	1	DVP_P7-1: LN 2058-2181	tower	478.0	229.91	234.26	DC	20.76

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169039385	314575	6NUCO TP	DVP	957820	AF2-076 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	232.06	234.93	DC	16.45

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163351030	314583	6LAKEVEW	DVP	313725	6DRY BREAD	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	199.88	203.13	DC	14.91

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169039474	314583	6LAKEVEW	DVP	314561	6CAROLNA	DVP	1	DVP_P1-2: LN 238-B	single	375.06	142.41	144.38	DC	7.37

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

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

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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
163843246	314591	6NASH	DVP	304226	6PA-RMOUNT#4	CPL	1	DVP_P1-2: LN 2058	single	478.0	134.86	139.83	DC	23.77

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

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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
169039541	314609	6TARBORO	DVP	314610	6TOTDP4	DVP	1	DVP_P1-2: LN 218	single	441.8	100.35	111.23	DC	48.07

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1110	80/20	0.1110
314582	3KELFORD	0.1341	80/20	0.1341
314589	3MURPHYS	0.0308	80/20	0.0308
314638	6ELIZ CT	0.0649	80/20	0.0649
314639	6TANGLEW	0.1296	80/20	0.1296
315292	1DOMTR78	1.4959	80/20	1.4959
315293	1DOMTR9	7.7369	80/20	7.7369
315294	1DOMTR10	9.4815	80/20	9.4815
315601	1CONETOE2SOL	5.0246	80/20	5.0246
315602	1HOLLOMANSOL	1.1697	80/20	1.1697
315605	6W1-029WIND	0.3945	80/20	0.3945
315611	6Z1-036WIND	0.5193	80/20	0.5193
315614	AA2-178 C	1.0665	80/20	1.0665
316140	AB2-099 C (Suspended)	0.3213	80/20	0.3213
925121	AB2-169 C	1.5079	80/20	1.5079
925591	AC1-034 C	-4.4790	Adder	-5.27
927024	AC1-189 C	27.7675	80/20	27.7675
933991	AD1-023 C	10.9720	80/20	10.9720
934521	AD1-076 C	45.6132	80/20	45.6132
936401	AD2-051 C O1	7.0515	80/20	7.0515
938221	AE1-035 C	0.2925	80/20	0.2925
940491	AE2-034 C	5.0698	80/20	5.0698
941501	AE2-147 C	5.7708	80/20	5.7708
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1048	80/20	0.1048
943171	AE2-346 C	0.7711	80/20	0.7711
944871	AF1-152 C	1.9236	80/20	1.9236
945711	AF1-236 C O1	55.5025	80/20	55.5025
957521	AF2-046 C	6.6117	80/20	6.6117
957531	AF2-047 C	12.0469	80/20	12.0469
957861	AF2-080 C	25.2195	80/20	25.2195
959511	AF2-242 C	12.6968	80/20	12.6968
961671	AG1-007 C	5.1139	80/20	5.1139
961681	AG1-008 C	6.6250	80/20	6.6250
961931	AG1-036 C	0.6466	80/20	0.6466
961941	AG1-037 C	0.2754	80/20	0.2754
962331	AG1-082 C	1.1016	80/20	1.1016
962341	AG1-083 C	1.1016	80/20	1.1016
962351	AG1-084 C	1.0726	80/20	1.0726
962361	AG1-085 C	1.0726	80/20	1.0726
964491	AG1-312 C O1	15.5355	80/20	15.5355
965631	AG1-431	32.1330	80/20	32.1330

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

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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
168528157	314637	6EDENTON	DVP	313885	6WALBMRL	DVP	1	Base Case	single	733.2	148.94	150.04	DC	8.04

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
169250750	314638	6ELIZ CT	DVP	314647	6SHAWBRO	DVP	1	DVP_P1-2: LN 247	single	571.52	180.64	181.83	DC	6.83

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169250763	314662	6S HERTFORD	DVP	314651	6WINFALL	DVP	1	Base Case	single	733.2	154.64	155.74	DC	8.02

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
163351060	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	167.6	169.4	DC	14.89

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168833303	957820	AF2-076 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2092	single	571.52	236.39	239.27	DC	16.45

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

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

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

11.7 Queue Dependencies

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

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA1-063A	Carolina–Seaboard 115kV	In Service
AA1-065	Earleys 230kV	In Service
AA1-067	Everetts 34.5kV	In Service
AA2-053	Carolina-Jackson 115kV	In Service
AA2-057	Hornertown-Whitakers 115kV	In Service
AA2-074	CPL- PJM	Confirmed
AA2-088	Boykins-Handsome 115kV	In Service
AA2-165	Hornertown-Whitakers 115kV	In Service
AA2-178	Mackeys 230kV	Partially in Service - Under Construction
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
AB1-132	Thelma 230kV	Suspended
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-015	Franklin 115kV	Engineering and Procurement
AB2-022	Elizabeth City 34.5kV	Engineering and Procurement
AB2-025	Sapony 34.5kV	In Service
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-059	Benson-Dunbar 115kV	Partially in Service - Under Construction
AB2-060	Chase City-Lunenburg 115kV	In Service
AB2-077	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
AB2-161	Waverly #2 DP 115kV	Engineering and Procurement
AB2-169	Pantago-Five Points 115kV	Partially in Service - Under Construction
AB2-174	Emporia-Trego 115kV	In Service
AB2-190	Hopewell-Surry 230kV	Engineering and Procurement
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-054	Kerr Dam–Eatons Ferry 115 kV	Engineering and Procurement
AC1-083	Smith Mountain-Bearskin 138kV	Active
AC1-086	Thelma 230kV	Active
AC1-098	Dawson-South Justice 115kV	Engineering and Procurement
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-131	PJM-CPL	Confirmed
AC1-189	Chinquapin-Everetts 230kV	Active

Queue Number	Project Name	Status
AC1-208	Cox-Whitakers 115kV	Engineering and Procurement
AC1-221	Halifax-Person 230kV	Engineering and Procurement
AC1-222	Crystal Hill-Halifax 115kV	Engineering and Procurement
AC2-078	Disputanta-Waverly 115kV	Engineering and Procurement
AC2-079	Ivor-Oak Ridge 115kV	Engineering and Procurement
AC2-084	Dawson-South Justice 115kV	Active
AC2-100	Halifax-Person 230kV	Engineering and Procurement
AD1-017	Smith Mountain-Bearskin 138 kV	Active
AD1-023	Cashie-Trowbridge 230 kV	Active
AD1-055	Crystal Hill-Halifax 115 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-058	Halifax-Person 230 kV	Engineering and Procurement
AD1-076	Trowbridge 230 kV	Active
AD1-082	Bakers Pond-Ivor 115kV	Engineering and Procurement
AD1-087	Clover-Sedge Hill 230 kV	Active
AD1-088	Briery-Clover 230 kV	Active
AD1-131	Sedge Hill-Person 230 kV	Engineering and Procurement
AD1-152	Clover-Sedge Hill 230 kV	Active
AD2-022	East Danville-Roxborough 230 kV	Active
AD2-023	E. Danville-Roxborough 230 kV	Active
AD2-033	Chase City-Lunenburg 115 kV	Active
AD2-046	Boydton DP-Kerr Dam 115 kV	Active
AD2-051	Earleys – Northampton 230kV	Active
AD2-063	Central-Chase City 115kV	Active
AD2-085	Myrtle-Windsor DP 115kV	Active
AD2-097	Spruance NUG 230kV	In Service
AD2-202	Clover-Sedge Hill 230kV	Active
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-072	Shawboro-Sligo 230 kV	Active
AE1-085	Bakers Pond-Bell Ave 115 kV	Active
AE1-103	Holland-Union Camp 115 kV	Active
AE1-148	Kerr Dam-Ridge Rd 115 kV	Active
AE1-149	Disputanta-Poe 115 kV	Active
AE1-250	Smith Mountain-E. Danville 138 kV	Active
AE2-000B	N/A	N/A
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
AE2-052	Disputanta-Poe 115 kV	Active
AE2-053	Kerr Dam-Ridge Road 115 kV	Active
AE2-104	Suffolk 115 kV	Active
AE2-147	Swamp 230 kV	Active
AE2-151	Earleys 34.5kV	Withdrawn
AE2-182	Briery-Clover 230 kV	Active
AE2-225	Suffolk 34 kV	Engineering and Procurement
AE2-227	Iron Bridge 34 kV	Engineering and Procurement
AE2-228	Tyler 34 kV	Engineering and Procurement
AE2-229	Suffolk 34 kV	Engineering and Procurement
AE2-247	Myrtle-Windsor 115 kV	Active
AE2-258	Chase City 115 kV	Active
AE2-260	Clubhouse 230 kV	Active

Queue Number	Project Name	Status
AE2-346	Ahoskie 34.5 kV	Active
AF1-017	Myrtle-Windsor 115 kV	Active
AF1-032	Suffolk 34.5 kV	Engineering and Procurement
AF1-058	Welco 34.5 kV	Engineering and Procurement
AF1-059	Brodnax-South Hill 115 kV	Active
AF1-082	Heartsease-Mayo Dunbar DP	Active
AF1-152	Swamp 230 kV	Active
AF1-236	Mackeys 230 kV	Active
AF1-246	Clover-Rawlings 500 kV	Active
AF1-266	Clubhouse-Sapony 230 kV	Active
AF1-291	Tyler 34.5 kV	Engineering and Procurement
AF1-292	Fields 34.5kV	Active
AF1-294	Jetersville-Ponton 115 kV	Active
AF2-042	Clover-Rawlings 500 kV	Active
AF2-043	Suffolk 34.5 kV	Engineering and Procurement
AF2-046	Tunis-Mapleton 115 kV	Active
AF2-047	Creswell-Riders Creek 115 kV	Active
AF2-076	Suffolk-Nucor Steel 230 kV	Active
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-110	Suffolk 115 kV	Active
AF2-115	Jetersville-Ponton 115 kV	Active
AF2-171	Madisonville 115 kV	Active
AF2-222	Madisonville DP-Twitty's Creek 115 kV	Active
AF2-242	Wharton 115 kV	Active
AF2-255	Iron Bridge 34.5 kV	Engineering and Procurement
AF2-256	Tyler 34.5 kV	Engineering and Procurement
AF2-266	Clover 230 kV	Active
AF2-297	Sedge Hill 115 kV	Active
AF2-299	Fields 34.5 kV	Active
AF2-400	Franklin 13.2 kV	Engineering and Procurement
AG1-007	Tar River 12.5 kV	Active
AG1-008	Tunis-Mapleton 115 kV	Active
AG1-021	Jetersville-Ponton 115 kV	Active
AG1-027	Suffolk-Holland 115 kV	Active
AG1-030	Victoria DP-Martin DP 115 kV	Active
AG1-036	Tunis 34.5 kV	Active
AG1-037	Ahoskie 34.5 kV	Active
AG1-048	Jetersville-Ponton 115 kV	Active
AG1-082	Ahoskie 34.5 kV	Active
AG1-083	Ahoskie 34.5 kV	Active
AG1-084	Earlys 34.5 kV	Active
AG1-085	Earlys 34.5	Active
AG1-093	Halifax-Chase City 115 kV	Active
AG1-098	Briery-Clover 230 kV	Active
AG1-105	Clover-Sedge Hill 230 kV	Active
AG1-106	Thelma 230 kV	Active
AG1-166	Lone Pine 115 kV	Active
AG1-167	Lone Pine 115 kV	Active
AG1-168	Lone Pine 115 kV	Active
AG1-169	Lone Pine 115 kV	Active
AG1-170	Lone Pine 115 kV	Active
AG1-179	Brunswick 69 kV	Active

Queue Number	Project Name	Status
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 kV	Active
AG1-185	Pamplin-Chase City 115 kV	Active
AG1-215	Fort Pickett 13.2 kV	Active
AG1-272	Twitty's Creek 115 kV	Active
AG1-273	Twitty's Creek 115 kV	Active
AG1-274	Twitty's Creek 115 kV	Active
AG1-285	Chase City-Central 115 kV	Active
AG1-287	South Boston 12.5 kV	Active
AG1-310	Crystal Hill-Perth 115 kV	Active
AG1-312	Earleys-Cashie 230 kV	Active
AG1-313	Jackson DP-Occoneechee 115 kV	Active
AG1-342	Dryburg 115 kV	Active
AG1-343	Boykins-Murphy 115 kV	Active
AG1-345	Crewe 12.5 kV	Active
AG1-357	Clover-Rawlings 500 kV	Active
AG1-384	Twitty's Creek 115 kV	Active
AG1-393	Fort Pickett DP 34.5 kV	Active
AG1-394	Boykins 34.5 kV	Active
AG1-413	South Hill-Bordnax 115 kV	Active
AG1-427	Chase City-Drakes Branch 115 kV	Active
AG1-428	Danieltown 69 kV	Active
AG1-431	Mackeys 230 kV	Active
AG1-431A	Mackeys 230 kV	Active
AG1-437	Cashie-Earleys 230 kV	Active
AG1-438	Cashie-Earleys 230 kV	Active
AG1-439	Chinquapin 230 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 kV	Active
AG1-442	Cashie-Earleys 230 kV	Active
AG1-443	Cashie-Earleys 230 kV	Active
AG1-444	Chinquapin 230 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-532	Fields 34.5 kV	Active
AG1-544	Bakers Pond DP 115 kV	Active
AG1-545	W. Quaker Rd-Disputanta 34.5 kV	Active
AG1-546	Ebony-Elams Road 115 kV	Active
AG1-551	Parmele 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
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
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 249	CONTINGENCY 'DVP_P1-2: LN 249' OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 /* 6CARSON 230.00 - 6CHRL249 230.00 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 /* 6CHRL249 230.00 - 6LOCKS 230.00 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 /* 3LOCKS 115.00 - 6LOCKS 230.00 OPEN BUS 314285 /* ISLAND: 6CHRL249 230.00 END
DVP_P1-2: LN 247	CONTINGENCY 'DVP_P1-2: LN 247' OPEN BRANCH FROM BUS 313713 TO BUS 314648 CKT 1 /* 6SWAMP 230.00 - 6SUNBURY 230.00 OPEN BRANCH FROM BUS 314537 TO BUS 314648 CKT 1 /* 6SUFFOLK 230.00 - 6SUNBURY 230.00 OPEN BUS 314648 /* ISLAND: 6SUNBURY 230.00 END

Contingency Name	Contingency Definition
DVP_P2-2: BREMO B1	CONTINGENCY 'DVP_P2-2: BREMO B1' /* BREMO 230 KV OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END
DVP_P1-2: LN 2131	CONTINGENCY 'DVP_P1-2: LN 2131' OPEN BRANCH FROM BUS 313714 TO BUS 313885 CKT 1 /* 6PERQUIMANS 230.00 - 6WALBMRL 230.00 OPEN BRANCH FROM BUS 313885 TO BUS 314637 CKT 1 /* 6WALBMRL 230.00 - 6EDENTON 230.00 OPEN BRANCH FROM BUS 314203 TO BUS 314637 CKT 1 /* 6MACKEYS 230.00 - 6EDENTON 230.00 OPEN BUS 313885 /* ISLAND: 6WALBMRL 230.00 OPEN BUS 314637 /* ISLAND: 6EDENTON 230.00 END
DVP_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_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 - 6EDGECOM 230.00 END
DVP_P1-2: LN 2181	CONTINGENCY 'DVP_P1-2: LN 2181' OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 /* 6DRY BREAD 230.00 - 6CLUBHSE 230.00 END
314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1	CONTINGENCY '314266 6NORTHAMPTON 230 936400 AD2-051 TAP 230 1' OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 END
314574 6EVERETS 230 927020 AC1-189 TAP 230 1	CONTINGENCY '314574 6EVERETS 230 927020 AC1-189 TAP 230 1' OPEN BRANCH FROM BUS 314574 TO BUS 927020 CKT 1 END

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_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END
DVP_P7-1: LN 54-2012-B	CONTINGENCY 'DVP_P7-1: LN 54-2012-B' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* AD2-051 TAP - 6EARLEYS 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 54-2012-A	CONTINGENCY 'DVP_P7-1: LN 54-2012-A' /* . OPEN BRANCH FROM BUS 964500 TO BUS 314581 CKT 1 /* AG1-313 TAP115.00 - 3JACKSON 115.00 OPEN BRANCH FROM BUS 314568 TO BUS 314625 CKT 1 /* 3EARLEYS 115.00 - 3AULANDR 115.00 OPEN BRANCH FROM BUS 314581 TO BUS 314626 CKT 1 /* 3JACKSON 115.00 - 3WOODLND 115.00 OPEN BRANCH FROM BUS 314625 TO BUS 314626 CKT 1 /* 3AULANDR 115.00 - 3WOODLND 115.00 OPEN BUS 314581 /* ISLAND: 3JACKSON 115.00 OPEN BUS 314625 /* ISLAND: 3AULANDR 115.00 OPEN BUS 314626 /* ISLAND: 3WOODLND 115.00 OPEN BRANCH FROM BUS 314266 TO BUS 936400 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 OPEN BRANCH FROM BUS 314266 TO BUS 314599 CKT 1 /* 6NORTHAMPTON230.00 - 6ROA VAL 230.00 OPEN BUS 314266 /* ISLAND: 6NORTHAMPTON230.00 END
DVP_P1-2: LN 2056-A	CONTINGENCY 'DVP_P1-2: LN 2056-A' OPEN BRANCH FROM BUS 313845 TO BUS 934330 CKT 1 /* 6HATHAWAY 230.00 - AD1-057 TAP 230.00 END
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 /* 6GREENVILLE T230.00 - 6EVERETS 230.00 END

Contingency Name	Contingency Definition
DVP_P4-2: 2020T2144	CONTINGENCY 'DVP_P4-2: 2020T2144' /* WINFALL 230 KV OPEN BRANCH FROM BUS 313851 TO BUS 314638 CKT 1 /* 6ECITYDP2 230.00 - 6ELIZ CT 230.00 OPEN BRANCH FROM BUS 313851 TO BUS 314639 CKT 1 /* 6ECITYDP2 230.00 - 6TANGLEW 230.00 OPEN BRANCH FROM BUS 314639 TO BUS 314651 CKT 1 /* 6TANGLEW 230.00 - 6WINFALL 230.00 OPEN BUS 313851 /* ISLAND: 6ECITYDP2 230.00 OPEN BUS 314639 /* ISLAND: 6TANGLEW 230.00 OPEN BUS 917122 /* ISLAND: Z2-027 E 230.00 OPEN BRANCH FROM BUS 313713 TO BUS 314651 CKT 1 /* 6SWAMP 230.00 - 6WINFALL 230.00 END
DVP_P1-2: LN 2021	CONTINGENCY 'DVP_P1-2: LN 2021' OPEN BRANCH FROM BUS 314638 TO BUS 314647 CKT 1 /* 6ELIZ CT 230.00 - 6SHAWBRO 230.00 OPEN BRANCH FROM BUS 314647 TO BUS 314833 CKT 1 /* 6SHAWBRO 230.00 - 6SHAWB_1 230.00 OPEN BUS 314833 /* ISLAND: 6SHAWB_1 230.00 END
AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	CONTINGENCY 'AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1' OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 END
Base Case	
DVP_P1-2: LN 2144	CONTINGENCY 'DVP_P1-2: LN 2144' OPEN BRANCH FROM BUS 313713 TO BUS 314651 CKT 1 /* 6SWAMP 230.00 - 6WINFALL 230.00 END
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

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 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
DVP_P1-2: LN 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' OPEN BRANCH FROM BUS 936400 TO BUS 314569 CKT 1 /* 6NORTHAMPTON230.00 - AD2-051 TAP 230.00 END
DVP_P1-2: LN 2034-E	CONTINGENCY 'DVP_P1-2: LN 2034-E' OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 933990 TO BUS 314616 CKT 1 /* AD1-023 TAP 230.00 - 6TRWBRDG 230.00 END

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 AG1-444 was evaluated as a 80.0 MW (Capacity 80.0 MW) injection as an uprate to AG1-439 which is a direct connection at the Bethel-Carolina 115 kV substation in the Dominion area. Project AG1-444 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-444 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
169039509	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	314574 6EVERETS 230 927020 AC1-189 TAP 230 1	single	441.799987793	84.98	103.08	DC	79.98
169039545	314610	6TOTDP4	230.0	DVP	314564	6EDGECOM	230.0	DVP	1	DVP_P1-2: LN 218	single	441.799987793	97.89	108.77	DC	48.07
169039584	927020	AC1-189 TAP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 2167	single	441.799987793	84.98	103.08	DC	79.98

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
174097946	313701	6CHINQUAPIN	230.0	DVP	927020	AC1-189 TAP	230.0	DVP	1	DVP_P4-2: 254T2141	breaker	541.0	95.3	102.76	DC	40.43

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
168242037	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	138.24	139.81	DC	6.38
168242039	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	single	275.0	129.57	131.39	DC	5.05
174097736	313701	6CHINQUAPIN	230.0	DVP	314609	6TARBORO	230.0	DVP	1	DVP_P4-2: H2T218	breaker	541.0	139.17	148.1	DC	48.31
168528138	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	single	733.200012207	153.79	154.88	DC	8.02
163350735	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	459.0	194.56	196.93	DC	10.85
163350736	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	188.94	191.25	DC	10.58
163350737	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:08:P22:102799	bus	459.0	187.76	190.06	DC	10.58
163350738	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:11:P22:000176	bus	459.0	187.73	190.04	DC	10.58

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 PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
163351005	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	214.66	217.91	DC	14.88
163351007	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 81-2056-A	tower	459.0	185.68	186.26	DC	5.92
168528150	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	375.059997559	164.58	167.4	DC	10.58
171598547	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:08:P22:102801	bus	459.0	187.71	190.02	DC	10.58
166985072	313844	3HATHAWAY	115.0	DVP	314554	3BTLEBRO	115.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	301.0	109.27	113.9	DC	13.91
163843258	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT230T	230.0	CPL E	1	DVP_P1-2: LN 2181	single	478.0	135.65	140.39	DC	22.69
163843259	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT230T	230.0	CPL E	1	EXT_3042226ROCKYMT230T 230 3042266PA-RMOUNT#4 230 1	single	478.0	126.52	131.27	DC	22.69
174306792	313857	6WINDSOR DP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P4-2: 246T247	breaker	669.0	107.16	109.27	DC	14.09
168528163	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	single	733.200012207	148.93	150.03	DC	8.04
168833358	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	single	731.320007324	149.29	150.39	DC	8.04
174306627	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P4-2: 24972-4	breaker	830.0	136.68	137.15	DC	8.65
168833462	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 249	single	441.799987793	123.15	124.17	DC	4.51
174306514	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	185.02	185.63	DC	7.26
168833458	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 249	single	441.799987793	123.17	124.2	DC	4.51
174306513	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	185.04	185.65	DC	7.26
168833382	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	164.01	165.55	DC	10.43
168833384	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	single	678.679992676	147.25	148.86	DC	10.92
163843882	314554	3BTLEBRO	115.0	DVP	304223	3ROCKYMT115T	115.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	164.0	326.99	333.96	DC	11.38
163350821	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	830.0	152.37	152.97	DC	11.08
163350822	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	830.0	147.56	148.17	DC	11.25
163351080	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	162.13	163.92	DC	14.89
163351081	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	830.0	152.02	153.44	DC	11.79
169039503	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	135.71	137.19	DC	10.44
169039504	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	single	678.679992676	124.46	125.98	DC	10.92
174097723	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P4-2: 201262	breaker	830.0	148.84	149.41	DC	10.39
169039367	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	242.73	245.61	DC	16.45
169039370	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	single	571.520019531	147.44	149.7	DC	12.89
174306811	314569	6EARLEYS	230.0	DVP	313857	6WINDSOR DP	230.0	DVP	1	DVP_P4-2: 246T247	breaker	699.0	104.31	106.33	DC	14.09
174306558	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	2	DVP_P4-2: H2T2014	breaker	289.299987793	160.96	164.3	DC	9.66
174306607	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P4-2: H4T2014	breaker	328.700012207	140.11	143.03	DC	9.57

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
163843020	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P4-2: 2020T2144	breaker	478.0	226.03	229.27	DC	15.49
163843195	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2167	single	478.0	152.43	159.45	DC	33.54
163843196	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P1-2: LN 2092	single	478.0	157.27	160.51	DC	15.48
163843200	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	Base Case	single	478.0	119.1	122.04	DC	14.07
163843885	314574	6EVERETS	230.0	DVP	304451	6GREENVILLE	230.0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	478.0	229.93	234.27	DC	20.76
169039385	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	234.05	236.93	DC	16.45
169039388	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	single	571.520019531	138.75	141.0	DC	12.89
175943168	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 238-B	single	571.520019531	181.18	183.86	DC	15.72
163350755	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	AEP_P2-2_#1377_05J.FERR 765_1	bus	459.0	178.36	180.73	DC	10.88
163350756	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	172.6	174.91	DC	10.61
163351030	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	199.87	203.13	DC	14.91
168528167	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	single	375.059997559	148.69	151.51	DC	10.61
169039474	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 238-B	single	375.059997559	142.41	144.38	DC	7.37
171598834	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P7-1: LN 22-90	tower	459.0	180.22	182.63	DC	11.08
163843246	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	single	478.0	136.45	141.42	DC	23.77
163843251	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 218	single	478.0	108.92	112.34	DC	16.33
169039541	314609	6TARBORO	230.0	DVP	314610	6TOTDP4	230.0	DVP	1	DVP_P1-2: LN 218	single	441.799987793	100.35	111.23	DC	48.07
168528157	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	single	733.200012207	148.95	150.04	DC	8.04
174097641	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P4-2: 246T247	breaker	699.0	280.67	282.11	DC	10.1
175126454	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 247-B	single	571.520019531	179.59	180.79	DC	6.83
169250763	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	single	733.200012207	154.65	155.74	DC	8.02
163351060	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	181.41	183.2	DC	14.89
169756112	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	single	678.679992676	161.06	162.53	DC	10.44
169756114	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	single	678.679992676	144.08	145.68	DC	10.92
168833303	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	single	571.520019531	238.38	241.26	DC	16.45
168833306	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	single	571.520019531	143.13	145.39	DC	12.89
175943162	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 238-B	single	571.520019531	185.58	188.26	DC	15.72

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/D C	MW IMPACT
168242238	242620	05DANVL2	138.0	AEP	242631	05EDAN 1	138.0	AEP	1	Base Case	operation	275.0	105.3	106.27	DC	5.05
168242036	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	Base Case	operation	275.0	143.18	144.01	DC	5.05
175309034	242631	05EDAN 1	138.0	AEP	242620	05DANVL2	138.0	AEP	1	AEP_P2-1_242520 05J.FER R 500 306719 8ANTIO CH 500 1	operation	402.0	162.72	163.44	DC	6.38
168528221	313701	6CHINQUAPIN	230.0	DVP	314609	6TARBORO	230.0	DVP	1	314574 6EVERE TS 230 927020 AC1-189 TAP 230 1	operation	441.799987793	113.7	131.8	DC	79.98
168528531	313701	6CHINQUAPIN	230.0	DVP	927020	AC1-189 TAP	230.0	DVP	1	DVP_P1-2: LN 2167	operation	441.799987793	96.84	114.94	DC	79.98
168528135	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	operation	733.200012207	220.73	221.82	DC	8.02
168528148	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operation	375.059997559	229.01	231.84	DC	10.58
163843256	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT230T	230.0	CPL E	1	DVP_P1-2: LN 2181	operation	478.0	184.25	189.0	DC	22.69
168528482	313857	6WINDSORP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	547.08001709	118.11	120.74	DC	14.42
168528160	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	operation	733.200012207	196.83	197.92	DC	8.04
168833355	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	operation	731.320007324	197.31	198.4	DC	8.04
168833363	314203	6MACKEYS	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	Base Case	operation	789.599975586	106.77	107.79	DC	8.06
168833461	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P1-2: LN 249	operation	441.799987793	147.34	147.8	DC	4.51
168833457	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P1-2: LN 249	operation	441.799987793	147.36	147.82	DC	4.51
168833379	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	214.09	214.78	DC	10.43
168833381	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operation	678.679992676	192.04	192.76	DC	10.92
169039656	314561	6CAROLNA	230.0	DVP	314559	3CAROLNA	115.0	DVP	1	DVP_P1-2: LN 2201	operation	239.888000488	102.64	103.72	DC	5.78
169039500	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	178.43	179.12	DC	10.44
169039501	314563	6CLUBHSE	230.0	DVP	940480	AE2-033 TAP	230.0	DVP	1	Base Case	operation	678.679992676	174.96	175.68	DC	10.92

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC/D C	MW IMPA CT
169039506	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	314574 6EVERETS 230 927020 AC1-189 TAP 230 1	operati on	441.799987793	130.74	148.84	DC	79.98
169039508	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	Base Case	operati on	441.799987793	94.4	103.95	DC	42.2
168528507	314569	6EARLEYS	230.0	DVP	313857	6WINDSORP	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	571.520019531	115.21	117.73	DC	14.42
169039365	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	331.13	334.01	DC	16.45
169039369	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	operati on	571.520019531	196.87	199.13	DC	12.89
163843189	314574	6EVERETS	230.0	DVP	304451	6GREENVILET	230.0	CPL E	1	DVP_P1-2: LN 2092	operati on	478.0	223.85	227.09	DC	15.48
163843194	314574	6EVERETS	230.0	DVP	304451	6GREENVILET	230.0	CPL E	1	Base Case	operati on	478.0	164.57	167.52	DC	14.07
169039650	314574	6EVERETS	230.0	DVP	927020	AC1-189 TAP	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	103.66	110.88	DC	31.91
169039383	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	322.45	325.33	DC	16.45
169039387	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	operati on	571.520019531	188.18	190.44	DC	12.89
169039520	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	Base Case	operati on	441.799987793	97.96	100.57	DC	11.5
169039664	314579	6HORNRTN	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	314574 6EVERETS 230 927020 AC1-189 TAP 230 1	operati on	441.799987793	100.84	105.96	DC	22.63
175126589	314579	6HORNRTN	230.0	DVP	934330	AD1-057 TAP	230.0	DVP	1	DVP_P1-2: LN 238-B	operati on	441.799987793	149.39	150.3	DC	7.56
168528165	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	operati on	375.059997559	209.14	211.97	DC	10.61
169039472	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	DVP_P1-2: LN 238-B	operati on	375.059997559	209.91	210.8	DC	7.37
169039595	314583	6LAKEVEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	314435 6SAPON Y 230 940480 AE2-033 TAP 230 1	operati on	441.799987793	138.65	140.48	DC	8.04
163843245	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	operati on	478.0	184.74	189.72	DC	23.77
168833634	314594	6PLYMOTH	230.0	DVP	314203	6MACKEYS	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	789.599975586	135.95	137.46	DC	11.93
169039449	314594	6PLYMOTH	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	Base Case	operati on	789.599975586	104.04	105.06	DC	8.06
169039418	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	269.779998779	250.69	251.76	DC	5.47
169039422	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	Base Case	operati on	247.220001221	112.51	113.53	DC	4.74

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
169039539	314609	6TARBORO	230.0	DVP	314610	6TOTDP4	230.0	DVP	1	DVP_P1-2: LN 218	operation	441.79998793	159.24	170.12	DC	48.07
169039543	314610	6TOTDP4	230.0	DVP	314564	6EDGECOM	230.0	DVP	1	DVP_P1-2: LN 218	operation	441.79998793	156.77	167.65	DC	48.07
169039613	314613	3TRWBRDG	115.0	DVP	314621	3WEYRHAUSER	115.0	DVP	1	DVP_P1-2: LN 2034-E	operation	269.779998779	130.63	131.56	DC	4.74
169039626	314613	3TRWBRDG	115.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 2034-E	operation	194.861999512	119.39	120.72	DC	5.76
169039427	314614	3TRWBRDG2	115.0	DVP	314596	3POPLR C	115.0	DVP	1	DVP_P1-2: LN 2034-A	operation	285.760009766	236.32	237.33	DC	5.47
169039423	314616	6TRWBRDG	230.0	DVP	314613	3TRWBRDG	115.0	DVP	1	DVP_P1-2: LN 2034-E	operation	194.861999512	238.95	240.52	DC	5.76
169039589	314616	6TRWBRDG	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	789.599975586	138.69	140.2	DC	11.93
169039591	314616	6TRWBRDG	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	Base Case	operation	789.599975586	100.55	101.57	DC	8.06
169039658	314620	6CASHIE	230.0	DVP	933990	AD1-023 TAP	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	107.75	108.23	DC	6.11
169039531	314621	3WEYRHAUSER	115.0	DVP	314614	3TRWBRDG2	115.0	DVP	1	DVP_P1-2: LN 2034-E	operation	269.779998779	178.49	179.42	DC	4.76
168528154	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	operation	733.200012207	196.84	197.94	DC	8.04
169250760	314662	6SHERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	operation	733.200012207	221.59	222.68	DC	8.02
168528437	927020	AC1-189 TAP	230.0	DVP	313701	6CHINQUAPIN	230.0	DVP	1	DVP_P1-2: LN 218	operation	441.79998793	121.3	128.53	DC	31.91
169039582	927020	AC1-189 TAP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 2167	operation	441.79998793	130.74	148.84	DC	79.98
169039630	933990	AD1-023 TAP	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	118.04	118.53	DC	6.11
168528263	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 238-B	operation	441.79998793	162.63	163.54	DC	7.56
168528267	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	Base Case	operation	441.79998793	109.08	111.69	DC	11.5
169756109	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P1-2: LN 2012-B	operation	678.679992676	215.21	215.91	DC	10.44
169756111	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operation	678.679992676	196.47	197.2	DC	10.92
168833301	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	327.9	330.78	DC	16.45
168833305	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	operation	571.520019531	194.18	196.44	DC	12.89
169039654	965690	AG1-437 TAP	230.0	DVP	314620	6CASHIE	230.0	DVP	1	DVP_P1-2: LN 246-B	operation	571.520019531	109.86	110.35	DC	6.11

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
169039509	314564	6EDGECOM	DVP	313845	6HATHAWAY	DVP	1	314574 6EVERETS 230 927020 AC1-189 TAP 230 1	single	441.8	84.98	103.08	DC	79.98

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315131	1EDGECEMA (Deactivation : 22/04/2019)	57.9838	80/20	57.9838
315132	1EDGECEMB (Deactivation : 22/04/2019)	57.9838	80/20	57.9838
315601	1CONETOE2SOL	8.3594	80/20	8.3594
927024	AC1-189 C	53.3851	80/20	53.3851
957861	AF2-080 C	48.4864	80/20	48.4864
961671	AG1-007 C	7.6978	80/20	7.6978
965711	AG1-439 C O1	149.9580	80/20	149.9580
965761	AG1-444 O1	79.9776	80/20	79.9776
CALDERWOOD	CALDERWOOD	0.0139	Confirmed LTF	0.0139
NY	NY	0.0155	Confirmed LTF	0.0155
PRAIRIE	PRAIRIE	0.0723	Confirmed LTF	0.0723
CHEOAH	CHEOAH	0.0140	Confirmed LTF	0.0140
COTTONWOOD	COTTONWOOD	0.0588	Confirmed LTF	0.0588
HAMLET	HAMLET	0.0162	Confirmed LTF	0.0162
GIBSON	GIBSON	0.0153	Confirmed LTF	0.0153
BLUEG	BLUEG	0.0486	Confirmed LTF	0.0486
TRIMBLE	TRIMBLE	0.0156	Confirmed LTF	0.0156
CATAWBA	CATAWBA	0.0098	Confirmed LTF	0.0098

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
169039545	314610	6TOTDP4	DVP	314564	6EDGECOM	DVP	1	DVP_P1-2: LN 218	single	441.8	97.89	108.77	DC	48.07

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1110	80/20	0.1110
314582	3KELFORD	0.1341	80/20	0.1341
314589	3MURPHYS	0.0308	80/20	0.0308
314638	6ELIZ CT	0.0649	80/20	0.0649
314639	6TANGLEW	0.1296	80/20	0.1296
315292	1DOMTR78	1.4959	80/20	1.4959
315293	1DOMTR9	7.7369	80/20	7.7369
315294	1DOMTR10	9.4815	80/20	9.4815
315601	1CONETOE2SOL	5.0246	80/20	5.0246
315602	1HOLLOMANSOL	1.1697	80/20	1.1697
315605	6W1-029WIND	0.3945	80/20	0.3945
315611	6Z1-036WIND	0.5193	80/20	0.5193
315614	AA2-178 C	1.0665	80/20	1.0665
316140	AB2-099 C (Suspended)	0.3213	80/20	0.3213
925121	AB2-169 C	1.5079	80/20	1.5079
925591	AC1-034 C	-4.4790	Adder	-5.27
927024	AC1-189 C	27.7675	80/20	27.7675
933991	AD1-023 C	10.9720	80/20	10.9720
934521	AD1-076 C	45.6132	80/20	45.6132
936401	AD2-051 C O1	7.0515	80/20	7.0515
938221	AE1-035 C	0.2925	80/20	0.2925
940491	AE2-034 C	5.0698	80/20	5.0698
941501	AE2-147 C	5.7708	80/20	5.7708
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1048	80/20	0.1048
943171	AE2-346 C	0.7711	80/20	0.7711
944871	AF1-152 C	1.9236	80/20	1.9236
945711	AF1-236 C O1	55.5025	80/20	55.5025
957521	AF2-046 C	6.6117	80/20	6.6117
957531	AF2-047 C	12.0469	80/20	12.0469
957861	AF2-080 C	25.2195	80/20	25.2195
959511	AF2-242 C	12.6968	80/20	12.6968
961671	AG1-007 C	5.1139	80/20	5.1139
961681	AG1-008 C	6.6250	80/20	6.6250
961931	AG1-036 C	0.6466	80/20	0.6466
961941	AG1-037 C	0.2754	80/20	0.2754
962331	AG1-082 C	1.1016	80/20	1.1016
962341	AG1-083 C	1.1016	80/20	1.1016
962351	AG1-084 C	1.0726	80/20	1.0726
962361	AG1-085 C	1.0726	80/20	1.0726
964491	AG1-312 C O1	15.5355	80/20	15.5355
965631	AG1-431	32.1330	80/20	32.1330

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

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
169039584	927020	AC1-189 TAP	DVP	314574	6EVERETS	DVP	1	DVP_P1-2: LN 2167	single	441.8	84.98	103.08	DC	79.98

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315131	1EDGECSMA (Deactivation : 22/04/2019)	57.9838	80/20	57.9838
315132	1EDGECSMB (Deactivation : 22/04/2019)	57.9838	80/20	57.9838
315601	1CONETOE2SOL	8.3594	80/20	8.3594
927024	AC1-189 C	53.3851	80/20	53.3851
957861	AF2-080 C	48.4864	80/20	48.4864
961671	AG1-007 C	7.6978	80/20	7.6978
965711	AG1-439 C O1	149.9580	80/20	149.9580
965761	AG1-444 O1	79.9776	80/20	79.9776
CALDERWOOD	CALDERWOOD	0.0139	Confirmed LTF	0.0139
NY	NY	0.0155	Confirmed LTF	0.0155
PRAIRIE	PRAIRIE	0.0723	Confirmed LTF	0.0723
CHEOAH	CHEOAH	0.0140	Confirmed LTF	0.0140
COTTONWOOD	COTTONWOOD	0.0588	Confirmed LTF	0.0588
HAMLET	HAMLET	0.0162	Confirmed LTF	0.0162
GIBSON	GIBSON	0.0153	Confirmed LTF	0.0153
BLUEG	BLUEG	0.0486	Confirmed LTF	0.0486
TRIMBLE	TRIMBLE	0.0156	Confirmed LTF	0.0156
CATAWBA	CATAWBA	0.0098	Confirmed LTF	0.0098

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
174097946	313701	6CHINQUAPIN	DVP	927020	AC1-189 TAP	DVP	1	DVP_P4-2: 254T2141	breaker	541.0	95.3	102.76	DC	40.43

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313719	3CHESTNUT	0.7510	50/50	0.7510
314623	3WITAKRS	0.1837	50/50	0.1837
315131	1EDGECEMA (Deactivation : 22/04/2019)	13.1213	50/50	13.1213
315132	1EDGECEMB (Deactivation : 22/04/2019)	13.1213	50/50	13.1213
315136	1ROSEMG1	2.6295	50/50	2.6295
315137	1ROSEMS1	1.6306	50/50	1.6306
315138	1ROSEMG2	1.2324	50/50	1.2324
315139	1GASTONA	3.7758	50/50	3.7758
315141	1GASTONB	3.7758	50/50	3.7758
315293	1DOMTR9	-4.2060	Adder	-4.95
315294	1DOMTR10	-5.1544	Adder	-6.06
315601	1CONETOE2SOL	4.2254	50/50	4.2254
316020	AB2-059 C OP	1.8813	50/50	1.8813
917342	Z2-044 E	0.4991	50/50	0.4991
917512	Z2-088 E OP1	25.0639	50/50	25.0639
919702	AA2-057 E OP	2.2469	50/50	2.2469
920591	AA2-165 C	0.1008	50/50	0.1008
920592	AA2-165 E	0.3088	50/50	0.3088
922922	AB1-081 C OP	1.5962	50/50	1.5962
922923	AB1-081 E OP	4.3361	50/50	4.3361
923262	AB1-132 C OP (Suspended)	18.2759	50/50	18.2759
923263	AB1-132 E OP (Suspended)	7.8325	50/50	7.8325
924152	AB2-059 E OP	6.1428	50/50	6.1428
925591	AC1-034 C	7.7236	50/50	7.7236
925592	AC1-034 E	5.8266	50/50	5.8266
926070	AC1-086 C	26.9134	50/50	26.9134
926071	AC1-086 E	12.2492	50/50	12.2492
934331	AD1-057 C O1	13.3383	50/50	13.3383
934332	AD1-057 E O1	7.1152	50/50	7.1152
940571	AE2-044 C	5.0588	50/50	5.0588
940572	AE2-044 E	2.1680	50/50	2.1680
944141	AF1-082	3.2521	50/50	3.2521
961671	AG1-007 C	3.3364	50/50	3.3364
961672	AG1-007 E	1.8632	50/50	1.8632
962571	AG1-106 C	7.4844	50/50	7.4844
962572	AG1-106 E	3.3941	50/50	3.3941
964493	AG1-312 BAT	3.6332	Merchant Transmission	3.6332
965711	AG1-439 C O1	75.7980	50/50	75.7980

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965712	AG1-439 E O1	50.5320	50/50	50.5320
965742	AG1-442 BAT	1.7904	Merchant Transmission	1.7904
965752	AG1-443 BAT	1.7904	Merchant Transmission	1.7904
965761	AG1-444 O1	40.4256	50/50	40.4256
966932	AG1-431A BAT	8.5902	Merchant Transmission	8.5902
WEC	WEC	0.1361	Confirmed LTF	0.1361
LGEE	LGEE	0.2790	Confirmed LTF	0.2790
CPLE	CPLE	1.1910	Confirmed LTF	1.1910
CBM-W2	CBM-W2	5.6090	Confirmed LTF	5.6090
NY	NY	0.1217	Confirmed LTF	0.1217
TVA	TVA	1.0388	Confirmed LTF	1.0388
O-066	O-066	1.7834	Confirmed LTF	1.7834
SIGE	SIGE	0.0771	Confirmed LTF	0.0771
CBM-S2	CBM-S2	14.8666	Confirmed LTF	14.8666
CBM-S1	CBM-S1	0.2614	Confirmed LTF	0.2614
G-007	G-007	0.2814	Confirmed LTF	0.2814
MEC	MEC	0.7929	Confirmed LTF	0.7929
LAGN	LAGN	1.2880	Confirmed LTF	1.2880
CBM-W1	CBM-W1	5.7482	Confirmed LTF	5.7482

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
168242037	242631	05EDAN 1	AEP	242620	05DANVL2	AEP	1	AEP_P2-1_242520 05J.FERR 500 306719 8ANTIOCH 500 1	single	402.0	138.24	139.81	DC	6.38

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

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

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

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

13.5.6 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
174097736	313701	6CHINQUAPIN	DVP	314609	6TARBORO	DVP	1	DVP_P4-2: H2T218	breaker	541.0	139.17	148.1	DC	48.31

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

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

13.5.7 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
168528138	313714	6PERQUIMANS	DVP	314662	6S HERTFORD	DVP	1	Base Case	single	733.2	153.79	154.88	DC	8.02

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 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

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
163351005	313725	6DRY BREAD	DVP	314563	6CLUBHSE	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	214.66	217.91	DC	14.88

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	8.7881	50/50	8.7881
927146	AC1-208 E	3.8864	50/50	3.8864
932631	AC2-084 C	8.3857	50/50	8.3857
932632	AC2-084 E	4.1303	50/50	4.1303
933991	AD1-023 C	9.2587	50/50	9.2587
933992	AD1-023 E	5.0405	50/50	5.0405
934331	AD1-057 C O1	18.0112	50/50	18.0112
934332	AD1-057 E O1	9.6079	50/50	9.6079
934521	AD1-076 C	29.3748	Adder	34.56
934522	AD1-076 E	14.9576	Adder	17.6
936401	AD2-051 C O1	8.2336	50/50	8.2336
936402	AD2-051 E O1	3.5354	50/50	3.5354
938221	AE1-035 C	0.3200	50/50	0.3200
938222	AE1-035 E	0.9990	50/50	0.9990
940491	AE2-034 C	3.1570	Adder	3.71
940492	AE2-034 E	1.3530	Adder	1.59
940542	AE2-040 BAT	2.8696	50/50	2.8696
940571	AE2-044 C	4.6810	50/50	4.6810
940572	AE2-044 E	2.0062	50/50	2.0062
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1531	50/50	0.1531
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.5226	50/50	0.5226
943171	AE2-346 C	1.2036	50/50	1.2036
943172	AE2-346 E	0.5158	50/50	0.5158
944141	AF1-082	3.0092	50/50	3.0092
945711	AF1-236 C O1	34.5611	Adder	40.66
945712	AF1-236 E O1	21.3470	Adder	25.11

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

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

13.5.9 Index 9

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166985072	313844	3HATHAWAY	DVP	314554	3BTLEBRO	DVP	1	DVP_P7-1: LN 2058-2181	tower	301.0	109.27	113.9	DC	13.91

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

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

13.5.10 Index 10

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
163843258	313845	6HATHAWAY	DVP	304222	6ROCKYMT230T	CPL	1	DVP_P1-2: LN 2181	single	478.0	135.65	140.39	DC	22.69

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
174306792	313857	6WINDSORDP	DVP	314574	6EVERETS	DVP	1	DVP_P4-2: 246T247	breaker	669.0	107.16	109.27	DC	14.09

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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

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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
168528163	313885	6WALBMRL	DVP	313714	6PERQUIMANS	DVP	1	Base Case	single	733.2	148.93	150.03	DC	8.04

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 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
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
168833358	314203	6MACKEYS	DVP	314637	6EDENTON	DVP	1	Base Case	single	731.32	149.29	150.39	DC	8.04

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 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
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
174306627	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P4-2: 24972-4	breaker	830.0	136.68	137.15	DC	8.65

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174306514	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	185.02	185.63	DC	7.26

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
315138	1ROSEMG2	1.0095	50/50	1.0095
315139	1GASTONA	3.2852	50/50	3.2852
315141	1GASTONB	3.2852	50/50	3.2852
315606	3AA2-053SOLA	1.2534	50/50	1.2534
315607	3AA1-063SOLA	1.1137	50/50	1.1137
315608	3AA2-088SOLA	0.6785	50/50	0.6785
316083	AB2-161 C	5.1370	50/50	5.1370
316084	AB2-161 E	8.3815	50/50	8.3815
316087	AB2-174 C	1.4069	50/50	1.4069
316088	AB2-174 E	8.0682	50/50	8.0682
316096	AB2-100 C1	1.5598	50/50	1.5598
316097	AB2-100 E1	4.8696	50/50	4.8696
316098	AB2-100 C2	1.5598	50/50	1.5598
316099	AB2-100 E2	4.8696	50/50	4.8696
316103	AB2-015 C	4.1157	Adder	4.84
316104	AB2-015 E	3.3749	Adder	3.97
316129	AC1-054 C	5.2595	50/50	5.2595
316140	AB2-099 C (Suspended)	0.3706	50/50	0.3706
316141	AB2-099 E (Suspended)	0.1588	50/50	0.1588
900672	V4-068 E	0.1979	50/50	0.1979
917332	Z2-043 E	0.6912	50/50	0.6912
917342	Z2-044 E	0.3738	50/50	0.3738

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174306513	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P4-2: 24972-4	breaker	541.0	185.04	185.65	DC	7.26

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168833382	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P1-2: LN 2012-B	single	678.68	164.01	165.55	DC	10.43

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163843882	314554	3BTLEBRO	DVP	304223	3ROCKYMT115T	CPL	1	DVP_P7-1: LN 2058-2181	tower	164.0	326.99	333.96	DC	11.38

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
163351080	314563	6CLUBHSE	DVP	940480	AE2-033 TAP	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	162.13	163.92	DC	14.89

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169039367	314569	GEARLEYS	DVP	314575	6NUCO TP	DVP	1	DVP_P1-2: LN 2092	single	571.52	242.73	245.61	DC	16.45

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
174306811	314569	6EARLEYS	DVP	313857	6WINDSORDP	DVP	1	DVP_P4-2: 246T247	breaker	699.0	104.31	106.33	DC	14.09

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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

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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
174306558	314573	3EVERETS	DVP	314574	6EVERETS	DVP	2	DVP_P4-2: H2T2014	breaker	289.3	160.96	164.3	DC	9.66

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
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

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

13.5.23 Index 23

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174306607	314573	3EVERETS	DVP	314574	6EVERETS	DVP	1	DVP_P4-2: H4T2014	breaker	328.7	140.11	143.03	DC	9.57

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
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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

13.5.24 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
163843885	314574	6EVERETS	DVP	304451	6GREENVILLE	CPL	1	DVP_P7-1: LN 2058-2181	tower	478.0	229.93	234.27	DC	20.76

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

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

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

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

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
169039385	314575	6NUCO TP	DVP	957820	AF2-076 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	234.05	236.93	DC	16.45

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163351030	314583	6LAKEVEW	DVP	313725	6DRY BREAD	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	199.87	203.13	DC	14.91

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

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

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

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

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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
169039474	314583	6LAKEVEW	DVP	314561	6CAROLNA	DVP	1	DVP_P1-2: LN 238-B	single	375.06	142.41	144.38	DC	7.37

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163843246	314591	6NASH	DVP	304226	6PA-RMOUNT#4	CPL	1	DVP_P1-2: LN 2058	single	478.0	136.45	141.42	DC	23.77

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

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

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

13.5.29 Index 29

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169039541	314609	6TARBORO	DVP	314610	6TOTDP4	DVP	1	DVP_P1-2: LN 218	single	441.8	100.35	111.23	DC	48.07

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1110	80/20	0.1110
314582	3KELFORD	0.1341	80/20	0.1341
314589	3MURPHYS	0.0308	80/20	0.0308
314638	6ELIZ CT	0.0649	80/20	0.0649
314639	6TANGLEW	0.1296	80/20	0.1296
315292	1DOMTR78	1.4959	80/20	1.4959
315293	1DOMTR9	7.7369	80/20	7.7369
315294	1DOMTR10	9.4815	80/20	9.4815
315601	1CONETOE2SOL	5.0246	80/20	5.0246
315602	1HOLLOMANSOL	1.1697	80/20	1.1697
315605	6W1-029WIND	0.3945	80/20	0.3945
315611	6Z1-036WIND	0.5193	80/20	0.5193
315614	AA2-178 C	1.0665	80/20	1.0665
316140	AB2-099 C (Suspended)	0.3213	80/20	0.3213
925121	AB2-169 C	1.5079	80/20	1.5079
925591	AC1-034 C	-4.4790	Adder	-5.27
927024	AC1-189 C	27.7675	80/20	27.7675
933991	AD1-023 C	10.9720	80/20	10.9720
934521	AD1-076 C	45.6132	80/20	45.6132
936401	AD2-051 C O1	7.0515	80/20	7.0515
938221	AE1-035 C	0.2925	80/20	0.2925
940491	AE2-034 C	5.0698	80/20	5.0698
941501	AE2-147 C	5.7708	80/20	5.7708
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1048	80/20	0.1048
943171	AE2-346 C	0.7711	80/20	0.7711
944871	AF1-152 C	1.9236	80/20	1.9236
945711	AF1-236 C O1	55.5025	80/20	55.5025
957521	AF2-046 C	6.6117	80/20	6.6117
957531	AF2-047 C	12.0469	80/20	12.0469
957861	AF2-080 C	25.2195	80/20	25.2195
959511	AF2-242 C	12.6968	80/20	12.6968
961671	AG1-007 C	5.1139	80/20	5.1139
961681	AG1-008 C	6.6250	80/20	6.6250
961931	AG1-036 C	0.6466	80/20	0.6466
961941	AG1-037 C	0.2754	80/20	0.2754
962331	AG1-082 C	1.1016	80/20	1.1016
962341	AG1-083 C	1.1016	80/20	1.1016
962351	AG1-084 C	1.0726	80/20	1.0726
962361	AG1-085 C	1.0726	80/20	1.0726
964491	AG1-312 C O1	15.5355	80/20	15.5355
965631	AG1-431	32.1330	80/20	32.1330

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

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
168528157	314637	6EDENTON	DVP	313885	6WALBMRL	DVP	1	Base Case	single	733.2	148.95	150.04	DC	8.04

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 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
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

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
174097641	314638	6ELIZ CT	DVP	314647	6SHAWBRO	DVP	1	DVP_P4-2: 246T247	breaker	699.0	280.67	282.11	DC	10.1

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169250763	314662	6S HERTFORD	DVP	314651	6WINFALL	DVP	1	Base Case	single	733.2	154.65	155.74	DC	8.02

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 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
163351060	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	181.41	183.2	DC	14.89

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	1EDGE CMA (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315132	1EDGE CMB (Deactivation : 22/04/2019)	13.3075	50/50	13.3075
315136	1ROSEMG1	4.0488	50/50	4.0488
315137	1ROSEMS1	2.5107	50/50	2.5107
315138	1ROSEMG2	1.8975	50/50	1.8975
315139	1GASTONA	6.0660	50/50	6.0660
315141	1GASTONB	6.0660	50/50	6.0660
315293	1DOMTR9	4.0274	Adder	4.74
315294	1DOMTR10	4.9355	Adder	5.81
315601	1CONETOE2SOL	1.5563	50/50	1.5563
315606	3AA2-053SOLA	2.1783	50/50	2.1783
315607	3AA1-063SOLA	1.8411	50/50	1.8411
316020	AB2-059 C OP	1.8615	50/50	1.8615
316087	AB2-174 C	2.5142	50/50	2.5142
316088	AB2-174 E	14.4183	50/50	14.4183
316096	AB2-100 C1	2.8368	50/50	2.8368
316097	AB2-100 E1	8.8562	50/50	8.8562
316098	AB2-100 C2	2.8368	50/50	2.8368
316099	AB2-100 E2	8.8562	50/50	8.8562
316103	AB2-015 C	4.5989	Adder	5.41
316104	AB2-015 E	3.7711	Adder	4.44
316129	AC1-054 C	8.9401	50/50	8.9401
316140	AB2-099 C (Suspended)	0.5074	Adder	0.6
316141	AB2-099 E (Suspended)	0.2175	Adder	0.26
900672	V4-068 E	0.2536	Adder	0.3
917332	Z2-043 E	1.1590	50/50	1.1590
917342	Z2-044 E	0.6574	50/50	0.6574
917512	Z2-088 E OP1	9.2316	50/50	9.2316
918492	AA1-063AE OP	5.5022	50/50	5.5022
918512	AA1-065 E OP	3.1563	Adder	3.71

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168833303	957820	AF2-076 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2092	single	571.52	238.38	241.26	DC	16.45

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

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

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

13.6 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 249	CONTINGENCY 'DVP_P1-2: LN 249' / 1030 OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 / 314282 6CARSON 230 314285 6CHRL249 230 1 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 / 314285 6CHRL249 230 314316 6LOCKS 230 1 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 / 314314 3LOCKS 115 314316 6LOCKS 230 2 END
DVP_P7-1: LN 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_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_P1-2: LN 2167	CONTINGENCY 'DVP_P1-2: LN 2167' OPEN BRANCH FROM BUS 313845 TO BUS 314564 CKT 1 /* 6HATHAWAY 230.00 - 6EDGECOM 230.00 END
DVP_P4-2: 201262	CONTINGENCY 'DVP_P4-2: 201262' / 173 OPEN BRANCH FROM BUS 314569 TO BUS 936400 CKT 1 / 314569 6EARLEYS 230 936400 AD2-051 TAP 230 1 OPEN BRANCH FROM BUS 314568 TO BUS 314569 CKT 1 / 314568 3EARLEYS 115 314569 6EARLEYS 230 1 END

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
DVP_P1-2: LN 2201	CONTINGENCY 'DVP_P1-2: LN 2201' / 187 OPEN BRANCH FROM BUS 313725 TO BUS 314563 CKT 1 / 313725 6DRY BREAD 230 314563 6CLUBHSE 230 1 END
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
PL:08:P22:102801	CONTINGENCY 'PL:08:P22:102801' /* FREEDOM 500KV BUS DISCONNECT BUS 200082 /* /* FRDM BUS END

Contingency Name	Contingency Definition
314574 6EVERETS 230 927020 AC1-189 TAP 230 1	CONTINGENCY '314574 6EVERETS 230 927020 AC1-189 TAP 230 1' / 494 OPEN BRANCH FROM BUS 314574 TO BUS 927020 CKT 1 / 314574 6EVERETS 230 927020 AC1-189 TAP 230 1 END
DVP_P4-2: H2T218	CONTINGENCY 'DVP_P4-2: H2T218' /* EVERETS 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: 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 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
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

Contingency Name	Contingency Definition
DVP_P4-2: 2020T2144	CONTINGENCY 'DVP_P4-2: 2020T2144' /* WINFALL 230 KV OPEN BRANCH FROM BUS 313851 TO BUS 314638 CKT 1 /* 6ECITYDP2 230.00 - 6ELIZ CT 230.00 OPEN BRANCH FROM BUS 313851 TO BUS 314639 CKT 1 /* 6ECITYDP2 230.00 - 6TANGLEW 230.00 OPEN BRANCH FROM BUS 314639 TO BUS 314651 CKT 1 /* 6TANGLEW 230.00 - 6WINFALL 230.00 OPEN BUS 313851 /* ISLAND: 6ECITYDP2 230.00 OPEN BUS 314639 /* ISLAND: 6TANGLEW 230.00 OPEN BUS 917122 /* ISLAND: Z2-027 E 230.00 OPEN BRANCH FROM BUS 313713 TO BUS 314651 CKT 1 /* 6SWAMP 230.00 - 6WINFALL 230.00 END
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
Base Case	
DVP_P4-2: 254T2141	CONTINGENCY 'DVP_P4-2: 254T2141' / 38 OPEN BRANCH FROM BUS 313725 TO BUS 314583 CKT 1 / 313725 6DRY BREAD 230 314583 6LAKEVEW 230 1 OPEN BRANCH FROM BUS 314561 TO BUS 314583 CKT 1 / 314561 6CAROLNA 230 314583 6LAKEVEW 230 1 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
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

Contingency Name	Contingency Definition
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_P1-2: LN 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' / 1410 OPEN BRANCH FROM BUS 314569 TO BUS 936400 CKT 1 / 314569 6EARLEYS 230 936400 AD2-051 TAP 230 1 END
DVP_P4-2: 24972-4	CONTINGENCY 'DVP_P4-2: 24972-4' / 1024 OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 / 314282 6CARSON 230 314285 6CHRL249 230 1 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 / 314285 6CHRL249 230 314316 6LOCKS 230 1 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 / 314314 3LOCKS 115 314316 6LOCKS 230 2 OPEN BRANCH FROM BUS 314902 TO BUS 314282 CKT 1 / 314902 8CARSON 500 314282 6CARSON 230 1 OPEN BRANCH FROM BUS 314282 TO BUS 314455 CKT 1 / 314282 6CARSON 230 314455 6CARSO_1 230 1 END
DVP_P1-2: LN 2034-E	CONTINGENCY 'DVP_P1-2: LN 2034-E' OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 933990 TO BUS 314616 CKT 1 /* AD1-023 TAP 230.00 - 6TRWBRDG 230.00 END
DVP_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

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

