



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-431A
MACKEYS 230 KV
200 MW Capacity / 0 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 solar generating facility located in Washington, North Carolina. This project is an increase to the Interconnection Customer's AF1-236 and AG1-431 project, which will share the same point of interconnection. The AG1-431A queue position is a 200 MW uprate (200 MW Capacity uprate) to the previous project. The total installed facilities will have a capability of 1210 MW with 926 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this uprate project is December 31, 2024. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-431A
Project Name	MACKEYS 230 KV
State	North Carolina
County	Washington
Transmission Owner	Dominion
MFO	1210
MWE	0
MWC	200
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

AG1-431A "Mackeys 230 kV" will interconnect with the Dominion transmission system as an uprate to AF1-236, 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 AF1-236 project being built. Should the AF1-236 project withdraw from the Interconnection Queue, the AG1-431A project will assume the Attachment, Direct Connection, and Non-Direct Connection costs identified in the AF1-236 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

There is no secondary point of interconnection specified for AG1-431A.

5 Cost Summary

The AG1-431A project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$ 0
Total System Network Upgrade Costs	\$ 2,114,247,500 ¹
Total Costs	\$ 2,114,247,500

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

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

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

6 Transmission Owner Scope of Work

The required Attachment Facilities, Direct Connection and Non-Direct Connection work for the interconnection of AG1-431A to the Dominion Transmission System is detailed in the following sections. The associated one-line showing the generation project attachment facilities and primary direct and non-direct connection is shown in Attachment 1.

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

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

Description	Total Cost
Total Physical Interconnection Costs	\$ 0

AG1-431A "Mackeys 230 kV" will interconnect with the Dominion transmission system as an uprate to AF1-236, sharing the POI and Attachment Facilities.

As AG1-431A is sharing the POI and Attachment Facilities with AF1-236, there are no associated interconnection costs for this project. Should the AF1-236 project withdraw from the Interconnection Queue, the AG1-431A project will assume the Attachment, Direct Connection, and Non-Direct Connection costs identified in the AF1-236 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.

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

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

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

8.1 Power Flow Analysis

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

9 Interconnection Customer Requirements

9.1 System Protection

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

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

9.2 Compliance Issues and Interconnection Customer Requirements

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

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

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

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

9.3 Power Factor Requirements

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

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

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

10.2 Interconnected Transmission Owner Requirements

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

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

11 Summer Peak - Load Flow Analysis

The Queue Project AG1-431A was evaluated as a 200 MW (Capacity 200.0 MW) injection as an uprate to AF1-236 & AG1-431 which is a direct connection at the Mackeys 230 kV substation in the Dominion area. Project AG1-431A was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-431A was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

11.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
168520689	313713	6SWAMP	230.0	DVP	314648	6SUNBURY	230.0	DVP	1	DVP_P 1-2: LN 2020	single	984.179992676	91.21	100.06	DC	87.07
168520695	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	DVP_P 1-2: LN 247	single	984.179992676	95.37	103.89	DC	83.84
168825792	314466	6FENTRES	230.0	DVP	934060	AD1-033 TAP	230.0	DVP	1	DVP_P 1-2: LN 2128	single	678.679992676	99.17	101.43	DC	15.34
169034999	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	2	DVP_P 1-2: LN 2034-A	single	241.391983032	95.56	106.73	DC	26.96
169034986	314616	6TRWBRD G	230.0	DVP	314614	3TRWBRD G2	115.0	DVP	1	DVP_P 1-2: LN 2034-A	single	182.36000061	88.47	103.32	DC	27.08
169245317	314639	6TANGLE W	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	DVP_P 1-2: LN 247	single	984.179992676	95.39	103.91	DC	83.84
169245295	314651	6WINFALL	230.0	DVP	314639	6TANGLE W	230.0	DVP	1	DVP_P 1-2: LN 2144	single	898.640014648	97.07	106.4	DC	83.88
169034878	933990	AD1-023 TAP	230.0	DVP	314620	6CASHIE	230.0	DVP	1	Base Case	single	571.520019531	88.73	101.53	DC	73.17

11.2 Multiple Facility Contingency

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
163341981	314525	6KINGFOR K	230.0	DVP	314522	6CHCKTUK	230.0	DVP	1	DVP_P7 -1: LN 223-226	tower	830.0	97.6	100.11	DC	20.83
163341969	314537	6SUFFOLK	230.0	DVP	314525	6KINGFOR K	230.0	DVP	1	DVP_P7 -1: LN 223-226	tower	830.0	99.02	101.53	DC	20.85

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 ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
163341640	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	897.0	225.54	245.7	DC	180.83
168520570	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	DVP_P1-2: LN 2034-C	single	733.200012207	154.87	174.94	DC	147.13
168520571	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012207	150.54	171.49	DC	153.66
168520572	313714	6PERQUIMANS	230.0	DVP	314662	6SHERTFORD	230.0	DVP	1	Base Case	single	733.200012207	130.85	144.64	DC	101.08
166981258	313724	3TERRA	115.0	DVP	314576	3FIVE PT	115.0	DVP	1	DVP_P7-1: LN 2034-A	tower	91.0	221.54	230.95	DC	18.97
163341375	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	AEP_P2-2_#1377_05J. FERR 765_1	bus	459.0	179.07	180.56	DC	15.16
163341376	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	459.0	173.85	175.29	DC	14.62
163341645	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	195.22	196.96	DC	17.69
163341646	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	PL:48:P71:102 649	tower	459.0	172.78	174.22	DC	14.67
168520584	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	single	375.059997559	148.47	152.39	DC	14.67
163830024	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT 230T	230.0	CPL E	1	DVP_P1-2: LN 2181	single	478.0	116.57	120.0	DC	16.42
163830025	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT 230T	230.0	CPL E	1	EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1	single	478.0	107.45	110.88	DC	16.42
163341655	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	897.0	193.95	214.11	DC	180.87
168520595	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	DVP_P1-2: LN 2034-C	single	733.200012207	149.86	169.93	DC	147.18
168520596	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012207	145.5	166.46	DC	153.7
168520597	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	single	733.200012207	125.98	139.77	DC	101.13
163341650	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	895.0	194.36	214.57	DC	180.87
168825634	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	DVP_P1-2: LN 2034-C	single	731.320007324	150.22	170.34	DC	147.18
168825635	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	DVP_P1-2: LN 2034-E	single	731.320007324	145.86	166.87	DC	153.7
168825636	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	single	731.320007324	126.29	140.12	DC	101.13
168825639	314203	6MACKEYS	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 2092	single	789.599975586	120.62	145.94	DC	199.9
168825640	314203	6MACKEYS	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 2131	single	789.599975586	115.68	141.0	DC	199.94
168825593	314209	6SKIFF CREEK	230.0	DVP	314386	6KINGS M	230.0	DVP	1	DVP_P1-2: LN 567	single	441.799987793	168.98	170.34	DC	13.31
168825594	314209	6SKIFF CREEK	230.0	DVP	314386	6KINGS M	230.0	DVP	1	DVP_P1-2: LN 563	single	441.799987793	137.8	138.83	DC	10.17
168825754	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	2	DVP_P1-2: LN 557	single	879.840026855	158.25	159.13	DC	19.89
168825782	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P1-2: LN 557	single	920.918029785	151.9	152.75	DC	19.98
168825909	314225	6CHARCTY	230.0	DVP	314227	6LAKESIDE	230.0	DVP	1	DVP_P1-2: LN 563	single	984.179992676	113.56	113.97	DC	12.2
168825897	314260	6VARINA	230.0	DVP	314225	6CHARCTY	230.0	DVP	1	DVP_P1-2: LN 563	single	984.179992676	116.97	117.38	DC	12.2
168825653	314287	6CHESTF B	230.0	DVP	314276	6BASIN	230.0	DVP	1	DVP_P1-2: LN 563	single	663.640014648	164.31	164.89	DC	12.33
168825890	314287	6CHESTF B	230.0	DVP	314260	6VARINA	230.0	DVP	1	DVP_P1-2: LN 563	single	984.179992676	117.33	117.74	DC	12.2

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC/ DC	MW IMPA CT
168825 601	3142 96	6PENNIMAN	230 .0	DVP	3144 15	6WALR209	230 .0	DVP	1	DVP_P1-2: LN 567	single	441.799987 793	157.08	158.44	DC	13.31
168825 602	3142 96	6PENNIMAN	230 .0	DVP	3144 15	6WALR209	230 .0	DVP	1	DVP_P1-2: LN 563	single	441.799987 793	125.87	126.9	DC	10.17
168825 597	3143 86	6KINGS M	230 .0	DVP	3142 96	6PENNIMA N	230 .0	DVP	1	DVP_P1-2: LN 567	single	441.799987 793	161.04	162.4	DC	13.31
168825 598	3143 86	6KINGS M	230 .0	DVP	3142 96	6PENNIMA N	230 .0	DVP	1	DVP_P1-2: LN 563	single	441.799987 793	129.83	130.86	DC	10.17
168825 611	3144 15	6WALR209	230 .0	DVP	3143 91	6LIGH209	230 .0	DVP	1	DVP_P1-2: LN 567	single	441.799987 793	140.94	142.3	DC	13.31
168825 612	3144 15	6WALR209	230 .0	DVP	3143 91	6LIGH209	230 .0	DVP	1	DVP_P1-2: LN 563	single	441.799987 793	109.73	110.77	DC	10.17
168825 712	3144 66	6FENTRES	230 .0	DVP	3145 08	6THRASHER	230 .0	DVP	1	DVP_P1-2: LN 271-B	single	678.679992 676	115.85	118.71	DC	19.41
168825 713	3144 66	6FENTRES	230 .0	DVP	3145 08	6THRASHER	230 .0	DVP	1	DVP_P1-2: LN 271-A	single	678.679992 676	111.87	114.73	DC	19.41
163341 970	3145 38	6SURREY	230 .0	DVP	3145 22	6CHCKTUK	230 .0	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	101.14	101.93	DC	12.53
169034 869	3145 69	6EARLEYS	230 .0	DVP	3145 75	6NUCO TP	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	209.15	221.57	DC	71.0
169034 870	3145 69	6EARLEYS	230 .0	DVP	3145 75	6NUCO TP	230 .0	DVP	1	DVP_P1-2: LN 2131	single	571.520019 531	206.25	218.68	DC	71.02
169034 872	3145 69	6EARLEYS	230 .0	DVP	3145 75	6NUCO TP	230 .0	DVP	1	Base Case	single	571.520019 531	129.17	133.75	DC	26.17
163829 786	3145 74	6EVERETS	230 .0	DVP	3044 51	6GREENVILE T	230 .0	CPL E	1	DVP_P4-2: 2020T2144	break er	478.0	195.97	204.88	DC	42.57
163829 961	3145 74	6EVERETS	230 .0	DVP	3044 51	6GREENVILE T	230 .0	CPL E	1	DVP_P1-2: LN 2167	single	478.0	126.93	133.44	DC	31.1
163829 962	3145 74	6EVERETS	230 .0	DVP	3044 51	6GREENVILE T	230 .0	CPL E	1	DVP_P1-2: LN 2092	single	478.0	134.55	143.45	DC	42.53
163829 966	3145 74	6EVERETS	230 .0	DVP	3044 51	6GREENVILE T	230 .0	CPL E	1	Base Case	single	478.0	102.58	107.75	DC	24.72
163830 651	3145 74	6EVERETS	230 .0	DVP	3044 51	6GREENVILE T	230 .0	CPL E	1	DVP_P7-1: LN 2058-2181	tower	478.0	200.24	206.4	DC	29.42
169034 887	3145 75	6NUCO TP	230 .0	DVP	9578 20	AF2-076 TAP	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	200.47	212.89	DC	71.0
169034 888	3145 75	6NUCO TP	230 .0	DVP	9578 20	AF2-076 TAP	230 .0	DVP	1	DVP_P1-2: LN 2131	single	571.520019 531	197.57	210.0	DC	71.02
169034 890	3145 75	6NUCO TP	230 .0	DVP	9578 20	AF2-076 TAP	230 .0	DVP	1	Base Case	single	571.520019 531	120.47	125.05	DC	26.17
166981 262	3145 76	3FIVE PT	115 .0	DVP	3146 22	3WHARTON	115 .0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	91.0	204.62	214.03	DC	18.97
163341 670	3145 83	6LAKEVEW	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	179.4	181.14	DC	17.76
168520 600	3145 83	6LAKEVEW	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	DVP_P1-2: LN 2056-A	single	375.059997 559	148.07	152.52	DC	16.69
168520 601	3145 83	6LAKEVEW	230 .0	DVP	3137 25	6DRY BREAD	230 .0	DVP	1	Base Case	single	375.059997 559	132.53	136.46	DC	14.75
163830 012	3145 91	6NASH	230 .0	DVP	3042 26	6PA-RMOUNT#4	230 .0	CPL E	1	DVP_P1-2: LN 2058	single	478.0	116.83	120.33	DC	16.74
166981 288	3145 92	3PANTEGO	115 .0	DVP	3137 24	3TERRA	115 .0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	91.0	161.86	171.28	DC	19.01
169034 949	3145 94	6PLYMOTH	230 .0	DVP	3146 16	6TRWBRDG	230 .0	DVP	1	DVP_P1-2: LN 2092	single	789.599975 586	117.85	143.17	DC	199.9
169034 950	3145 94	6PLYMOTH	230 .0	DVP	3146 16	6TRWBRDG	230 .0	DVP	1	DVP_P1-2: LN 2131	single	789.599975 586	112.91	138.24	DC	199.9 4
169034 922	3145 96	3POPLR C	115 .0	DVP	3145 73	3EVERETS	115 .0	DVP	1	DVP_P1-2: LN 2034-A	single	269.779998 779	130.65	146.84	DC	43.68
169034 923	3145 96	3POPLR C	115 .0	DVP	3145 73	3EVERETS	115 .0	DVP	1	DVP_P1-2: LN 2034-B	single	269.779998 779	119.48	135.67	DC	43.68
169034 931	3146 14	3TRWBRDG 2	115 .0	DVP	3145 96	3POPLR C	115 .0	DVP	1	DVP_P1-2: LN 2034-A	single	285.760009 766	123.0	138.28	DC	43.68
169034 932	3146 14	3TRWBRDG 2	115 .0	DVP	3145 96	3POPLR C	115 .0	DVP	1	DVP_P1-2: LN 2034-B	single	285.760009 766	112.49	127.77	DC	43.68
169034 899	3146 16	6TRWBRDG	230 .0	DVP	9339 90	AD1-023 TAP	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	181.66	207.89	DC	149.9 3

ID	FRO M BUS#	FROM BUS	kV	FRO M BUS ARE A	TO BUS#	TO BUS	kV	TO BUS ARE A	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC/ DC	MW IMPA CT
169034 900	3146 16	6TRWBRDG	230 .0	DVP	9339 90	AD1-023 TAP	230 .0	DVP	1	DVP_P1-2: LN 2131	single	571.520019 531	176.62	202.86	DC	149.9 6
169034 927	3146 16	6TRWBRDG	230 .0	DVP	3146 13	3TRWBRDG	115 .0	DVP	1	DVP_P1-2: LN 2034-E	single	194.861999 512	114.82	138.55	DC	46.24
169034 881	3146 20	6CASHIE	230 .0	DVP	9656 90	AG1-437 TAP	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	190.42	216.65	DC	149.9 3
169034 882	3146 20	6CASHIE	230 .0	DVP	9656 90	AG1-437 TAP	230 .0	DVP	1	DVP_P1-2: LN 2131	single	571.520019 531	185.39	211.63	DC	149.9 6
169035 034	3146 21	3WEYRHA E USER	115 .0	DVP	3146 14	3TRWBRDG 2	115 .0	DVP	1	DVP_P1-2: LN 2034-E	single	269.779998 779	102.96	117.04	DC	37.96
163341 660	3146 37	6EDENTON	230 .0	DVP	3138 85	6WALBMRL	230 .0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	897.0	193.95	214.11	DC	180.8 7
168520 589	3146 37	6EDENTON	230 .0	DVP	3138 85	6WALBMRL	230 .0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012 207	149.86	169.93	DC	147.1 8
168520 590	3146 37	6EDENTON	230 .0	DVP	3138 85	6WALBMRL	230 .0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012 207	145.51	166.47	DC	153.7
168520 591	3146 37	6EDENTON	230 .0	DVP	3138 85	6WALBMRL	230 .0	DVP	1	Base Case	single	733.200012 207	125.99	139.79	DC	101.1 3
169245 199	3146 38	6ELIZ CT	230 .0	DVP	3146 47	6SHAWBRO	230 .0	DVP	1	DVP_P1-2: LN 247	single	571.520019 531	156.09	170.75	DC	83.81
169245 201	3146 38	6ELIZ CT	230 .0	DVP	3146 47	6SHAWBRO	230 .0	DVP	1	DVP_P1-2: LN 2144	single	571.520019 531	137.94	152.61	DC	83.84
169245 202	3146 38	6ELIZ CT	230 .0	DVP	3146 47	6SHAWBRO	230 .0	DVP	1	Base Case	single	568.700012 207	105.96	114.56	DC	48.92
169245 294	3146 51	6WINFALL	230 .0	DVP	3146 39	6TANGLEW	230 .0	DVP	1	DVP_P1-2: LN 247	single	898.640014 648	108.87	118.2	DC	83.85
163341 635	3146 62	6S HERTFORD	230 .0	DVP	3146 51	6WINFALL	230 .0	DVP	1	DVP_P7-1: LN 25-2034-A	tower	897.0	226.26	246.42	DC	180.8 3
169245 210	3146 62	6S HERTFORD	230 .0	DVP	3146 51	6WINFALL	230 .0	DVP	1	DVP_P1-2: LN 2034-C	single	733.200012 207	155.74	175.81	DC	147.1 3
169245 211	3146 62	6S HERTFORD	230 .0	DVP	3146 51	6WINFALL	230 .0	DVP	1	DVP_P1-2: LN 2034-E	single	733.200012 207	151.41	172.37	DC	153.6 6
169245 212	3146 62	6S HERTFORD	230 .0	DVP	3146 51	6WINFALL	230 .0	DVP	1	Base Case	single	733.200012 207	131.71	145.5	DC	101.0 8
163830 069	3149 02	8CARSON	500 .0	DVP	3149 14	8MDLTHAN	500 .0	DVP	1	DVP_P1-2: LN 557	single	3218.56005 859	131.11	131.36	DC	49.15
163830 070	3149 02	8CARSON	500 .0	DVP	3149 14	8MDLTHAN	500 .0	DVP	1	DVP_P1-2: LN 567	single	3218.56005 859	126.86	127.52	DC	49.38
163830 077	3149 02	8CARSON	500 .0	DVP	3149 14	8MDLTHAN	500 .0	DVP	1	Base Case	single	3218.56005 859	107.05	107.56	DC	38.73
163830 001	3149 03	8CHCKAHM	500 .0	DVP	3149 08	8ELMONT	500 .0	DVP	1	DVP_P1-2: LN 563	single	2442.12011 719	184.87	185.09	DC	52.73
163830 002	3149 03	8CHCKAHM	500 .0	DVP	3149 08	8ELMONT	500 .0	DVP	1	DVP_P1-2: LN 576	single	2442.12011 719	180.69	180.88	DC	52.7
163830 010	3149 03	8CHCKAHM	500 .0	DVP	3149 08	8ELMONT	500 .0	DVP	1	Base Case	single	2442.12011 719	146.72	147.09	DC	41.38
168825 626	3149 03	8CHCKAHM	500 .0	DVP	3142 14	6CHCKAHM	230 .0	DVP	1	DVP_P1-2: LN 557	single	934.923950 195	212.1	213.35	DC	14.46
163829 968	3149 08	8ELMONT	500 .0	DVP	3149 11	8LADYSMIT H	500 .0	DVP	1	DVP_P1-2: LN 576	single	2442.12011 719	219.4	219.48	DC	57.21
163829 971	3149 08	8ELMONT	500 .0	DVP	3149 11	8LADYSMIT H	500 .0	DVP	1	DVP_P1-2: LN 563	single	2442.12011 719	195.78	195.85	DC	48.88
163829 978	3149 08	8ELMONT	500 .0	DVP	3149 11	8LADYSMIT H	500 .0	DVP	1	Base Case	single	2442.12011 719	153.29	153.97	DC	36.7
163830 033	3149 14	8MDLTHAN	500 .0	DVP	3149 18	8NO ANNA	500 .0	DVP	1	DVP_P1-2: LN 574	single	2442.12011 719	177.55	177.78	DC	52.16
163830 036	3149 14	8MDLTHAN	500 .0	DVP	3149 18	8NO ANNA	500 .0	DVP	1	DVP_P1-2: LN 557	single	2442.12011 719	155.99	156.33	DC	49.08
163830 043	3149 14	8MDLTHAN	500 .0	DVP	3149 18	8NO ANNA	500 .0	DVP	1	Base Case	single	2442.12011 719	129.63	129.92	DC	39.02
168825 748	3149 14	8MDLTHAN	500 .0	DVP	3143 22	6MDLTHAN	230 .0	DVP	1	DVP_P1-2: LN 576	single	1058.15795 898	144.56	145.15	DC	14.35
163830 164	3149 23	8SEPTA	500 .0	DVP	3149 24	8SURREY	500 .0	DVP	1	DVP_P1-2: LN 563	single	2442.12011 719	103.56	104.02	DC	25.17
163829 817	3149 24	8SURREY	500 .0	DVP	3149 03	8CHCKAHM	500 .0	DVP	1	DVP_P4-2: 562T563	break er	3144.0	125.08	125.81	DC	50.45

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
163829 818	3149 24	8SURREY	500 .0	DVP	3149 03	8CHCKAHM	500 .0	DVP	1	DVP_P4-2: 563T576	breaker	3144.0	121.93	122.47	DC	49.97
163830 100	3149 24	8SURREY	500 .0	DVP	3149 03	8CHCKAHM	500 .0	DVP	1	DVP_P1-2: LN 563	single	2442.12011 719	121.67	123.4	DC	48.85
163830 104	3149 24	8SURREY	500 .0	DVP	3149 03	8CHCKAHM	500 .0	DVP	1	DVP_P1-2: LN 576	single	2442.12011 719	108.87	110.3	DC	46.31
169034 875	9339 90	AD1-023 TAP	230 .0	DVP	3146 20	6CASHIE	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	192.56	218.79	DC	149.9 3
169034 876	9339 90	AD1-023 TAP	230 .0	DVP	3146 20	6CASHIE	230 .0	DVP	1	DVP_P1-2: LN 2131	single	571.520019 531	187.52	213.76	DC	149.9 6
168825 773	9340 60	AD1-033 TAP	230 .0	DVP	3144 81	6LANDSTN	230 .0	DVP	1	DVP_P1-2: LN 2128	single	678.679992 676	104.76	107.02	DC	15.34
168520 699	9343 30	AD1-057 TAP	230 .0	DVP	3138 45	6HATHAWA Y	230 .0	DVP	1	DVP_P1-2: LN 238-B	single	441.799987 793	124.08	126.5	DC	10.69
168520 700	9343 30	AD1-057 TAP	230 .0	DVP	3138 45	6HATHAWA Y	230 .0	DVP	1	DVP_P1-2: LN 2201	single	441.799987 793	106.27	108.55	DC	10.1
168825 581	9578 20	AF2-076 TAP	230 .0	DVP	3145 37	6SUFFOLK	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	204.8	217.23	DC	71.0
168825 582	9578 20	AF2-076 TAP	230 .0	DVP	3145 37	6SUFFOLK	230 .0	DVP	1	DVP_P1-2: LN 2131	single	571.520019 531	201.9	214.33	DC	71.02
168825 584	9578 20	AF2-076 TAP	230 .0	DVP	3145 37	6SUFFOLK	230 .0	DVP	1	Base Case	single	571.520019 531	124.86	129.44	DC	26.17
169034 857	9644 90	AG1-312 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	208.65	234.89	DC	149.9 3
169034 858	9644 90	AG1-312 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DVP	1	DVP_P1-2: LN 2131	single	571.520019 531	203.62	229.86	DC	149.9 6
169034 860	9644 90	AG1-312 TAP	230 .0	DVP	3145 69	6EARLEYS	230 .0	DVP	1	Base Case	single	571.520019 531	103.39	116.19	DC	73.17
170031 023	9656 90	AG1-437 TAP	230 .0	DVP	9644 90	AG1-312 TAP	230 .0	DVP	1	DVP_P1-2: LN 2092	single	571.520019 531	190.42	216.65	DC	149.9 3
170031 024	9656 90	AG1-437 TAP	230 .0	DVP	9644 90	AG1-312 TAP	230 .0	DVP	1	DVP_P1-2: LN 2131	single	571.520019 531	185.39	211.63	DC	149.9 6

11.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC DC	MW IMPA CT
1685206 54	3137 01	6CHINQUAPI N	230. 0	DVP	3146 09	6TARBORO	230. 0	DVP	1	DVP_P1 -2: LN 218	operati on	441.799987 793	124.62	130.08	DC	24.14
1685210 31	3137 11	6MOYOCK	230. 0	DVP	9372 20	AD2-160 TAP	230. 0	DVP	1	DVP_P1 -2: LN 269_1-A	operati on	898.640014 648	96.16	100.81	DC	41.82
1685206 87	3137 13	6SWAMP	230. 0	DVP	3146 48	6SUNBURY	230. 0	DVP	1	DVP_P1 -2: LN 2020	operati on	984.179992 676	153.42	162.27	DC	87.07

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
168520567	313714	6PERQUIMANS	230.0	DVP	314662	6S HERTFORD	230.0	DVP	1	DVP_P1-2: LN 2034-C	operati on	733.200012207	245.33	265.4	DC	147.13
168520569	313714	6PERQUIMANS	230.0	DVP	314662	6S HERTFORD	230.0	DVP	1	Base Case	operati on	733.200012207	193.44	207.23	DC	101.08
168520582	313725	6DRY BREAD	230.0	DVP	314563	6CLUBHSE	230.0	DVP	1	Base Case	operati on	375.059997559	210.53	212.29	DC	14.67
163830022	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT23OT	230.0	CPL E	1	DVP_P1-2: LN 2181	operati on	478.0	160.86	162.41	DC	16.42
168520692	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	DVP_P1-2: LN 247	operati on	984.179992676	153.73	162.25	DC	83.84
168520694	313851	6ECITYDP2	230.0	DVP	314638	6ELIZ CT	230.0	DVP	1	Base Case	operati on	984.179992676	101.18	106.16	DC	48.95
168520916	313857	6WINDSORDP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	547.08001709	104.2	107.91	DC	20.28
168520917	313857	6WINDSORDP	230.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 246-A	operati on	547.08001709	104.2	107.91	DC	20.28
168520592	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	DVP_P1-2: LN 2034-C	operati on	733.200012207	210.42	230.49	DC	147.18
168520594	313885	6WALBMRL	230.0	DVP	313714	6PERQUIMANS	230.0	DVP	1	Base Case	operati on	733.200012207	169.51	183.31	DC	101.13
168825631	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	DVP_P1-2: LN 2034-C	operati on	731.320007324	210.93	231.06	DC	147.18
168825633	314203	6MACKEYS	230.0	DVP	314637	6EDENTON	230.0	DVP	1	Base Case	operati on	731.320007324	169.94	183.76	DC	101.13
168825637	314203	6MACKEYS	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	789.599975586	201.37	226.69	DC	199.9
168825641	314203	6MACKEYS	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	Base Case	operati on	789.599975586	91.83	104.34	DC	98.82
168825591	314209	6SKIFF CREEK	230.0	DVP	314386	6KINGS M	230.0	DVP	1	DVP_P1-2: LN 567	operati on	441.799987793	260.59	261.96	DC	13.31
168825826	314209	6SKIFF CREEK	230.0	DVP	314413	6WALR285	230.0	DVP	1	DVP_P1-2: LN 567	operati on	678.679992676	148.69	149.55	DC	12.72
168825908	314225	6CHARCTY	230.0	DVP	314227	6LAKESIDE	230.0	DVP	1	DVP_P1-2: LN 563	operati on	984.179992676	138.15	138.27	DC	12.2
168825896	314260	6VARINA	230.0	DVP	314225	6CHARCTY	230.0	DVP	1	DVP_P1-2: LN 563	operati on	984.179992676	141.55	141.67	DC	12.2
168825829	314266	6NORTHAMP TON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P1-2: LN 238-A	operati on	571.520019531	138.38	140.08	DC	18.33
168825651	314287	6CHESTF B	230.0	DVP	314276	6BASIN	230.0	DVP	1	DVP_P1-2: LN 563	operati on	663.640014648	204.06	204.9	DC	12.33
168825889	314287	6CHESTF B	230.0	DVP	314260	6VARINA	230.0	DVP	1	DVP_P1-2: LN 563	operati on	984.179992676	141.91	142.04	DC	12.2
168825599	314296	6PENNIMAN	230.0	DVP	314415	6WALR209	230.0	DVP	1	DVP_P1-2: LN 567	operati on	441.799987793	248.68	250.05	DC	13.31
168825595	314386	6KINGS M	230.0	DVP	314296	6PENNIMAN	230.0	DVP	1	DVP_P1-2: LN 567	operati on	441.799987793	252.64	254.01	DC	13.31
168825958	314390	6LIGH285	230.0	DVP	314214	6CHCKAHM	230.0	DVP	1	DVP_P1-2: LN 567	operati on	678.679992676	129.32	130.18	DC	12.72

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
168825823	314391	6LIGH209	230.0	DVP	314388	6LANEXA	230.0	DVP	1	DVP_P1-2: LN 567	operati on	663.640014648	147.08	147.99	DC	13.31
168825893	314413	6WALR285	230.0	DVP	314390	6LIGH285	230.0	DVP	1	DVP_P1-2: LN 567	operati on	678.679992676	139.52	140.38	DC	12.72
168825609	314415	6WALR209	230.0	DVP	314391	6LIGH209	230.0	DVP	1	DVP_P1-2: LN 567	operati on	441.799987793	232.54	233.91	DC	13.31
168825709	314466	6FENTRES	230.0	DVP	314508	6THRASHER	230.0	DVP	1	DVP_P1-2: LN 271-B	operati on	678.679992676	189.42	190.71	DC	19.41
168825711	314466	6FENTRES	230.0	DVP	314508	6THRASHER	230.0	DVP	1	Base Case	operati on	678.679992676	120.06	120.99	DC	13.87
168825790	314466	6FENTRES	230.0	DVP	934060	AD1-033 TAP	230.0	DVP	1	DVP_P1-2: LN 2128	operati on	678.679992676	155.26	156.28	DC	15.34
168826033	314508	6THRASHER	230.0	DVP	314514	6YADKIN	230.0	DVP	1	DVP_P1-2: LN 588	operati on	818.739990234	111.94	115.21	DC	26.77
168826030	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	1	DVP_P1-3: 8SUFFOLK-TX#8	operati on	893.187988281	100.21	104.46	DC	37.92
169035140	314537	6SUFFOLK	230.0	DVP	314928	8SUFFOLK	500.0	DVP	2	DVP_P1-3: 8SUFFOLK-TX#7	operati on	906.253967285	98.98	103.17	DC	38.0
169035037	314550	6HICKORY	230.0	DVP	314466	6FENTRES	230.0	DVP	1	DVP_P1-2: LN 269_1-A	operati on	571.520019531	162.56	169.88	DC	41.82
169034988	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	375.059997559	153.38	160.55	DC	26.9
169034990	314561	6CAROLNA	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	Base Case	operati on	375.059997559	100.39	105.84	DC	20.42
169035062	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	DVP_P1-2: LN 238-A	operati on	548.020019531	142.96	144.74	DC	18.33
169035007	314564	6EDGECOM	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	125.2	130.67	DC	24.14
168520941	314569	6EARLEYS	230.0	DVP	313857	6WINDSORP	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	571.520019531	101.9	105.45	DC	20.28
169034867	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	291.1	303.53	DC	71.0
169034871	314569	6EARLEYS	230.0	DVP	314575	6NUCO TP	230.0	DVP	1	Base Case	operati on	571.520019531	172.6	177.18	DC	26.17
169034997	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	2	DVP_P1-2: LN 2034-A	operati on	241.391983032	155.36	166.53	DC	26.96
169035076	314573	3EVERETS	115.0	DVP	314574	6EVERETS	230.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	274.855987549	123.07	132.43	DC	25.71
163829955	314574	6EVERETS	230.0	DVP	304451	6GREENVILET	230.0	CPL E	1	DVP_P1-2: LN 2092	operati on	478.0	193.82	202.72	DC	42.53
163829960	314574	6EVERETS	230.0	DVP	304451	6GREENVILET	230.0	CPL E	1	Base Case	operati on	478.0	141.92	147.1	DC	24.72
169034885	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	282.42	294.85	DC	71.0
169034889	314575	6NUCO TP	230.0	DVP	957820	AF2-076 TAP	230.0	DVP	1	Base Case	operati on	571.520019531	163.9	168.48	DC	26.17

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
168520598	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P1-2: LN 2056-A	operati on	375.059997559	208.17	210.18	DC	16.69
168520599	314583	6LAKEVEW	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	Base Case	operati on	375.059997559	190.6	192.38	DC	14.75
169034978	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	Base Case	operati on	375.059997559	109.01	114.45	DC	20.42
163830011	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P1-2: LN 2058	operati on	478.0	160.49	162.07	DC	16.74
168825912	314594	6PLYMOTH	230.0	DVP	314203	6MACKEYS	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	789.599975586	107.77	119.29	DC	90.96
169034947	314594	6PLYMOTH	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	789.599975586	198.66	223.98	DC	199.9
169034951	314594	6PLYMOTH	230.0	DVP	314616	6TRWBRDG	230.0	DVP	1	Base Case	operati on	789.599975586	89.09	101.61	DC	98.82
169034920	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	269.779998779	207.57	223.76	DC	43.68
169034924	314596	3POPLR C	115.0	DVP	314573	3EVERETS	115.0	DVP	1	Base Case	operati on	247.220001221	100.32	108.9	DC	21.2
168825793	314599	6ROA VAL	230.0	DVP	314266	6NORTHAMP TON	230.0	DVP	1	DVP_P1-2: LN 238-A	operati on	548.020019531	142.91	144.68	DC	18.33
169035041	314609	6TARBORO	230.0	DVP	314610	6TOTDP4	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	111.19	116.65	DC	24.14
169035045	314610	6TOTDP4	230.0	DVP	314564	6EDGECOM	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	108.72	114.18	DC	24.14
169035115	314613	3TRWBRDG	115.0	DVP	314621	3WEYRHAEU SER	115.0	DVP	1	DVP_P1-2: LN 2034-E	operati on	269.779998779	116.54	130.63	DC	38.01
169035128	314613	3TRWBRDG	115.0	DVP	314616	6TRWBRDG	230.0	DVP	1	DVP_P1-2: LN 2034-E	operati on	194.861999512	91.49	115.23	DC	46.24
169034929	314614	3TRWBRDG2	115.0	DVP	314596	3POPLR C	115.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	285.760009766	195.61	210.9	DC	43.68
169034897	314616	6TRWBRDG	230.0	DVP	933990	AD1-023 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	290.37	316.61	DC	149.93
169034901	314616	6TRWBRDG	230.0	DVP	933990	AD1-023 TAP	230.0	DVP	1	Base Case	operati on	571.520019531	141.25	154.05	DC	73.17
169034925	314616	6TRWBRDG	230.0	DVP	314613	3TRWBRDG	115.0	DVP	1	DVP_P1-2: LN 2034-E	operati on	194.861999512	215.22	238.95	DC	46.24
169034984	314616	6TRWBRDG	230.0	DVP	314614	3TRWBRDG2	115.0	DVP	1	DVP_P1-2: LN 2034-A	operati on	182.36000061	155.16	170.01	DC	27.08
169035091	314616	6TRWBRDG	230.0	DVP	314594	6PLYMOTH	230.0	DVP	1	DVP_P1-2: LN 246-B	operati on	789.599975586	110.51	122.03	DC	90.96
169034879	314620	6CASHIE	230.0	DVP	965690	AG1-437 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	305.08	331.31	DC	149.93
169034883	314620	6CASHIE	230.0	DVP	965690	AG1-437 TAP	230.0	DVP	1	Base Case	operati on	571.520019531	149.77	162.57	DC	73.17
169035033	314621	3WEYRHAEU SER	115.0	DVP	314614	3TRWBRDG2	115.0	DVP	1	DVP_P1-2: LN 2034-E	operati on	269.779998779	164.42	178.49	DC	37.96
168520586	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	DVP_P1-2: LN 2034-C	operati on	733.200012207	210.42	230.49	DC	147.18

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
168520588	314637	6EDENTON	230.0	DVP	313885	6WALBMRL	230.0	DVP	1	Base Case	operati on	733.200012207	169.53	183.32	DC	101.13
169245197	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	DVP_P1-2: LN 247	operati on	571.520019531	258.33	272.99	DC	83.81
169245200	314638	6ELIZ CT	230.0	DVP	314647	6SHAWBRO	230.0	DVP	1	Base Case	operati on	568.700012207	166.49	175.1	DC	48.92
169245314	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	DVP_P1-2: LN 247	operati on	984.179992676	153.75	162.27	DC	83.84
169245316	314639	6TANGLEW	230.0	DVP	313851	6ECITYDP2	230.0	DVP	1	Base Case	operati on	984.179992676	101.19	106.17	DC	48.95
169245365	314645	6SLIGO L269	230.0	DVP	963820	AG1-235 TAP	230.0	DVP	1	3145506HICKORY 230 937220 AD2-160 TAP 230 1	operati on	571.520019531	133.0	140.22	DC	41.29
169245440	314647	6SHAWBRO	230.0	DVP	938530	AE1-072_TAP	230.0	DVP	1	DVP_P1-2: LN 2087-B	operati on	571.520019531	117.73	124.96	DC	41.29
169245530	314647	6SHAWBRO	230.0	DVP	313717	6SLIGO L2192	230.0	DVP	1	DVP_P1-2: LN 269 1-A	operati on	749.179992676	96.03	101.63	DC	41.9
169245319	314648	6SUNBURY	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2020	operati on	984.179992676	152.49	161.34	DC	87.07
169245291	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	DVP_P1-2: LN 247	operati on	898.640014648	172.46	181.8	DC	83.85
169245293	314651	6WINFALL	230.0	DVP	314639	6TANGLEW	230.0	DVP	1	Base Case	operati on	823.440002441	125.42	131.37	DC	48.96
169245405	314651	6WINFALL	230.0	DVP	313713	6SWAMP	230.0	DVP	1	DVP_P1-2: LN 2020	operati on	984.179992676	118.35	127.21	DC	87.11
169245207	314662	6S HERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	DVP_P1-2: LN 2034-C	operati on	733.200012207	246.2	266.27	DC	147.13
169245209	314662	6S HERTFORD	230.0	DVP	314651	6WINFALL	230.0	DVP	1	Base Case	operati on	733.200012207	194.3	208.09	DC	101.08
168825625	314903	8CHCKAHM	500.0	DVP	314214	6CHCKAHM	230.0	DVP	1	DVP_P1-2: LN 557	operati on	934.923950195	237.06	237.26	DC	14.46
163830246	314909	8FENTRES	500.0	DVP	314927	8YADKIN	500.0	DVP	1	DVP_P1-2: LN 247	operati on	3218.56005859	101.24	102.49	DC	40.54
163830098	314924	8SURREY	500.0	DVP	314903	8CHCKAHM	500.0	DVP	1	DVP_P1-2: LN 563	operati on	2442.12011719	147.35	147.45	DC	48.85
163830105	314924	8SURREY	500.0	DVP	314903	8CHCKAHM	500.0	DVP	1	Base Case	operati on	2442.12011719	104.44	104.58	DC	37.27
163830170	314927	8YADKIN	500.0	DVP	314928	8SUFFOLK	500.0	DVP	1	DVP_P1-2: LN 579	operati on	2442.12011719	133.58	134.21	DC	36.96
163830218	314928	8SUFFOLK	500.0	DVP	314924	8SURREY	500.0	DVP	1	DVP_P1-2: LN 579	operati on	2442.12011719	113.28	113.96	DC	47.33
168520871	927020	AC1-189 TAP	230.0	DVP	313701	6CHINQUAPI N	230.0	DVP	1	DVP_P1-2: LN 218	operati on	441.799987793	107.23	112.7	DC	24.2
169034873	933990	AD1-023 TAP	230.0	DVP	314620	6CASHIE	230.0	DVP	1	DVP_P1-2: LN 2092	operati on	571.520019531	307.21	333.44	DC	149.93
169034877	933990	AD1-023 TAP	230.0	DVP	314620	6CASHIE	230.0	DVP	1	Base Case	operati on	571.520019531	151.9	164.7	DC	73.17

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
168825771	934060	AD1-033 TAP	230.0	DVP	314481	6LANDSTN	230.0	DVP	1	DVP_P1-2: LN 2128	operation	678.679992676	162.45	163.47	DC	15.34
169035054	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 238-A	operation	571.520019531	146.95	148.65	DC	18.33
169748688	937220	AD2-160 TAP	230.0	DVP	314550	6HICKORY	230.0	DVP	1	DVP_P1-2: LN 269_1-A	operation	898.640014648	103.75	108.4	DC	41.82
169748463	938530	AE1-072_TAP	230.0	DVP	314645	6SLIGO L269	230.0	DVP	1	3145506HICKORY 230 937220 AD2-160 TAP 230 1	operation	571.520019531	134.05	141.27	DC	41.29
168825579	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	289.02	301.44	DC	71.0
168825583	957820	AF2-076 TAP	230.0	DVP	314537	6SUFFOLK	230.0	DVP	1	Base Case	operation	571.520019531	169.89	174.47	DC	26.17
170031196	963820	AG1-235 TAP	230.0	DVP	314466	6FENTRES	230.0	DVP	1	3145506HICKORY 230 937220 AD2-160 TAP 230 1	operation	571.520019531	166.81	174.04	DC	41.29
170031198	963820	AG1-235 TAP	230.0	DVP	314466	6FENTRES	230.0	DVP	1	Base Case	operation	571.520019531	98.95	103.13	DC	23.89
169034855	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	327.87	354.11	DC	149.93
169034859	964490	AG1-312 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	Base Case	operation	571.520019531	166.31	179.11	DC	73.17
170031021	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	DVP_P1-2: LN 2092	operation	571.520019531	305.08	331.31	DC	149.93
170031025	965690	AG1-437 TAP	230.0	DVP	964490	AG1-312 TAP	230.0	DVP	1	Base Case	operation	571.520019531	148.47	161.27	DC	73.17

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
169034999	4	3EVERETS 115.0 kV - 6EVERETS 230.0 kV Ckt 2	<u>DVP</u> dom-316 (1874) : Add additional 230/115 kV transformer at Everetts substation. Project Type : CON Cost : \$7,000,000 Time Estimate : 16-18 Months	\$7,000,000
169034872,169034870,169034869	30	6EARLEYS 230.0 kV - 6NUCO TP 230.0 kV Ckt 1	<u>DVP</u> n6138 (1722) : 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 (1873) : 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
168520595,168520597,163341655,168520596	15	6WALBMRL 230.0 kV - 6PERQUIMANS 230.0 kV Ckt 1	<u>DVP</u> dom-203 (1761) : 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
163341660,168520591,168520590,168520589	44	6EDENTON 230.0 kV - 6WALBMRL 230.0 kV Ckt 1		
168825636,168825634,168825635,163341650	16	6MACKEYS 230.0 kV - 6EDENTON 230.0 kV Ckt 1		
169245317	6	6TANGLEW 230.0 kV - 6CITYDP2 230.0 kV Ckt 1	<u>DVP</u> dom-200 (1758) : Wreck and rebuild 5.6 miles of existing single circuit line 2020 between Elizabeth City to Pasquotank 230 kV. Add new circuit between Elizabeth City to Pasquotank 230 kV, constructed as a double circuit line. Utilize 2-636 ACSR for all new and modified circuits. Add a three breaker station at Pasquotank and Elizabeth City DP 230 kV. Project Type : CON Cost : \$27,000,000 Time Estimate : 36-40 Months	\$27,000,000
168520695	2	6CITYDP2 230.0 kV - 6ELIZ CT 230.0 kV Ckt 1		
168825897	22	6VARINA 230.0 kV - 6CHARCTY 230.0 kV Ckt 1	<u>DVP</u> dom-294 (1852) : Rebuild 1.38 mi miles of 230 kV Line 217 from Varina to Charles City with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$2,070,000 Time Estimate : 30-36 Months	\$2,070,000

ID	Idx	Facility	Upgrade Description	Cost
168825582,168 825581,168825 584	57	AF2-076 TAP 230.0 kV - 6SUFFOLK 230.0 kV Ckt 1	<u>DVP</u> dom-243 (1801) : 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 (1966) : 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
168825713,168 825712	28	6FENTRES 230.0 kV - 6THRASHER 230.0 kV Ckt 1	<u>DVP</u> dom-213 (1771) : Rebuild 5.86 miles of 230 kV Line 2128 from Fentress to Thrasher with 2-636 ACSR. Replace Line Lead at Fentress 230 kV. Project Type : FAC Cost : \$8,790,000 Time Estimate : 30-36 Months	\$8,790,000
163830002,163 830010,163830 001	48	8CHCKAHM 500.0 kV - 8ELMONT 500.0 kV Ckt 1	<u>DVP</u> dom-183 (1692) : Build new 500 kV Line from Rawlings to Morrisville Substation 110 miles Project Type : CON Cost : \$400,000,000 Time Estimate : 60-72 Months n6207 (1750) : Rebuild 27.72 miles of 500 kV Line 557 from Chickahominy to Elmont with 3-1351.5 113C ACSR. Project Type : FAC Cost : \$85,932,000 Time Estimate : 48-60 Months	\$485,932,000
163829968,163 829978,163829 971	50	8ELMONT 500.0 kV - 8LADYSMITH 500.0 kV Ckt 1	<u>DVP</u> b3020 (1494) : PJM baseline upgrade b3020: Rebuild 500kV Line #574 Ladysmith to Elmont - 26.2 miles long. The baseline project has an projected in-service date of 12/31/2022. Project Type : FAC Cost : \$0 Time Estimate : N/A Months dom-183 (1692) : Build new 500 kV Line from Rawlings to Morrisville Substation 110 miles Project Type : CON Cost : \$400,000,000 Time Estimate : 60-72 Months	\$400,000,000

ID	Idx	Facility	Upgrade Description	Cost
168520601,163 341670,168520 600	34	6LAKEVIEW 230.0 kV - 6DRY BREAD 230.0 kV Ckt 1	<u>DVP</u> b3121 (1500) : 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 Time Estimate : N/A Months	\$0
169034875,169 034876,169034 878	8	AD1-023 TAP 230.0 kV - 6CASHIE 230.0 kV Ckt 1	<u>DVP</u> dom-233 (1791) : Rebuild 5.3 miles of 230 kV line 2034 from AD1-023 Tap to Cashie with 2-795 ACSR. Project Type : FAC Cost : \$7,950,000 Time Estimate : 36-42 Months dom-390 (1948) : Rebuild 5.3 miles of 230 kV line 2034 from AD1-023 Tap to Cashie with 2-768.2 ACSS 250 C. Replace Line Switch and Line Lead at Cashie terminal. Project Type : FAC Cost : \$13,500,000 Time Estimate : 36-40 Months	\$21,450,000
168825890	24	6CHESTF B 230.0 kV - 6VARINA 230.0 kV Ckt 1	DVP: dom-300 (1526) : Rebuild 9.46 miles of 230 kV Line 217 from Chesterfield to Varina with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$14,190,000 Time Estimate : 36-40 Months	\$14,190,000
169245212,163 341635,169245 211,169245210	46	6S HERTFORD 230.0 kV - 6WINFALL 230.0 kV Ckt 1	<u>DVP</u> n6439 (1613) : 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 dom-257 (1815): 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	\$28,550,000

ID	Idx	Facility	Upgrade Description	Cost
168520572,163 341640,168520 571,168520570	11	6PERQUIMANS 230.0 kV - 6S HERTFORD 230.0 kV Ckt 1	<u>DVP</u> n6438 (1608) : 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 dom-257 (1815) : 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	\$30,575,000
168825639,168 825640	17	6MACKEYS 230.0 kV - 6PLYMOTH 230.0 kV Ckt 1	<u>DVP</u> dom-292 (1850) : Rebuild 8.51 mi miles of 230 kV Line 2126 from Mackeys to Plymouth with 2-768.2 ACS 250 C. Replace Line Switch at Plymouth terminal. Replace wave trap at Mackeys terminal. Project Type : FAC Cost : \$13,215,000 Time Estimate : 36-40 Months	\$13,215,000
168825612,168 825611	27	6WALR209 230.0 kV - 6LIGH209 230.0 kV Ckt 1	<u>DVP</u> b3056 (1498) : PJM Baseline Upgrade b3056. Partial Rebuild 230 kV Line #2113 Waller to Lightfoot. The baseline project has an projected in-service date of 12/30/2024. Project Type : FAC Cost : \$0 Time Estimate : N/A Months	\$0
166981262	33	3FIVE PT 115.0 kV - 3WHARTON 115.0 kV Ckt 1	<u>DVP</u> n6143 (1726) : Rebuild 5.88 miles of 115 kV Line 189 from Five Points DP to Wharton with 636 ACSR. Project Type : FAC Cost : \$7,644,000 Time Estimate : 30-36 Months	\$7,644,000
168825909	21	6CHARCTY 230.0 kV - 6LAKESIDE 230.0 kV Ckt 1	<u>DVP</u> dom-150 (1660) : Rebuild 10.36 miles of 230 kV Line 217 from Charles City to Lakeside with 2-795 ACSR Project Type : FAC Cost : \$15,860,000 Time Estimate : 30-36 Months	\$15,860,000

ID	Idx	Facility	Upgrade Description	Cost
168825593,168 825594	18	6SKIFF CREEK 230.0 kV - 6KINGS M 230.0 kV Ckt 1	<u>DVP</u> n6443 (1581) : Rebuild 1.55 miles of 230 kV Line 2154 from Skiffes Creek to Kings Mill with 2-636 ACSR. Project Type : FAC Cost : \$3,875,000 Time Estimate : 30-36 Months	\$3,875,000
163341969	10	6SUFFOLK 230.0 kV - 6KINGFORK 230.0 kV Ckt 1	<u>DVP</u> dom-311 (1869) : Rebuild 6.8 miles of 230 kV Line 289 from Suffolk to Kings Fork with 2-636 ACSS 150 C Project Type : FAC Cost : \$17,000,000 Time Estimate : 36-40 Months	\$17,000,000
168825598,168 825597	26	6KINGS M 230.0 kV - 6PENNIMAN 230.0 kV Ckt 1	<u>DVP</u> b3057 (1499) : PJM Baseline Upgrade b3057. Rebuild 6.1 miles of Waller-Skiff's Creek 230 kV Line (#2154) between Waller and Kings Mill to current standards with a minimum summer emergency rating of 1047 MVA utilizing single circuit steel structures. Remove this 6.1 mile section of Line #58 between Waller and Kings Mill. Rebuild the 1.6 miles of Line #2154 and #19 between Kings Mill and Skiffs Creek to current standards with a minimum summer emergency rating of 1047 MVA at 230 kV for Line #2154 and 261 MVA at 115 kV for Line #19, utilizing double circuit steel structures. The baseline project has an projected in-service date of 12/30/2024. Project Type : CON Cost : \$0 Time Estimate : N/A Months	\$0
168825601,168 825602	25	6PENNIMAN 230.0 kV - 6WALR209 230.0 kV Ckt 1		
170031023,170 031024	59	AG1-437 TAP 230.0 kV - AG1- 312 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-419 (1977) : Rebuild 15.2 miles of 230 kV Line 2034 from AG1-437 Tap to AG1-312 Tap with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$22,800,000 Time Estimate : 36-40 Months	\$22,800,000
166981258	12	3TERRA 115.0 kV - 3FIVE PT 115.0 kV Ckt 1	<u>DVP</u> dom-269 (1827) : Reconnector 5.04 miles of 115 kV line 189 from Terra to Five Point with 636 ACSR 150 C Project Type : FAC Cost : \$3,024,000 Time Estimate : 30-36 Months	\$3,024,000

ID	Idx	Facility	Upgrade Description	Cost
169034931,169034932	39	3TRWBRDG2 115.0 kV - 3POPLR C 115.0 kV Ckt 1	<u>DVP</u> dom-176 (1686) : Reconductor 7.4 miles of 115 kV Line 25 from Trowbridge to Poplar Chapel with 768 ACSS. Replace Wave trap, relay, circuit breaker switch, and circuit breaker lead at Trowbridge. Project Type : FAC Cost : \$4,910,000 Time Estimate : 30-36 Months dom-254 (1812) : Reconductor 7.4 miles of 115 kV Line 25 from Trowbridge to Poplar Chapel with 2-768.2 ACSS 250C. Upgrade Breaker Lead, Wave trap, Relay (Secondary CT) and Line Lead at Trowbridge 115 kV. Upgrade Line Lead at Poplar Chapel 115 kV. Project Type : FAC Cost : \$4,710,000 Time Estimate : 36-40 Months	\$9,620,000
168825792	3	6FENTRES 230.0 kV - AD1-033 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-214 (1772) : Rebuild 1.5 miles of 230 kV Line 271 from Fentress to AD1-033 Tap with 2-636 ACSR. Replace Relays (CT) at both terminals and Line Lead at Fentress 230 kV. Project Type : FAC Cost : \$2,490,000 Time Estimate : 30-36 Months	\$2,490,000
163830024,163830025	14	6HATHAWAY 230.0 kV - 6ROCKYMT230T 230.0 kV Ckt 1	<u>DVP</u> n6441 (1505) : 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	\$10,325,000
169034923,169034922	38	3POPLR C 115.0 kV - 3EVERETS 115.0 kV Ckt 1	<u>DVP</u> dom-175 (1685) : Reconductor 13.4 miles of 115 kV Line 25 from Poplar Chapel to Everetts with 2-636 ACSR. Replace Wave trap, relay, circuit breaker switch, and circuit breaker lead at Everetts. Project Type : FAC Cost : \$8,510,000 Time Estimate : 30-36 Months	\$8,510,000
163829786,163829961,163829966,163830651,163829962	31	6EVERETS 230.0 kV - 6GREENVILLE T 230.0 kV Ckt 1	<u>DVP</u> dom-173 (1683) : 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	\$30,480,000

ID	Idx	Facility	Upgrade Description	Cost
163830012	35	6NASH 230.0 kV - 6PA- R MOUNT#4 230.0 kV Ckt 1	<u>DVP</u> n6444 (1508) : 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	\$8,250,000
168825754	19	6ELMONT 230.0 kV - 8ELMONT 500.0 kV Ckt 2	<u>DVP</u> dom-155 (1664) : Replace existing 500/230 kV transformer No 2 at Elmont. Project Type : FAC Cost : \$20,000,000 Time Estimate : 30-36 Months n6127 (1718) : Add additional 500/230 kV transformer at Elmont Substation Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$42,000,000
168825782	20	6ELMONT 230.0 kV - 8ELMONT 500.0 kV Ckt 1	<u>DVP</u> n6127 (1718) : Add additional 500/230 kV transformer at Elmont Substation Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
163830164	53	8SEPTA 500.0 kV - 8SURRY 500.0 kV Ckt 1	<u>DVP</u> dom-380 (1938) : Rebuild 11.46 miles of 500 kV Line 578 from Septa to Surry with 3-1351.5 113C ACSR. Replace wave traps at both terminals. Project Type : FAC Cost : \$36,126,000 Time Estimate : 48-60 Months	\$36,126,000
169034881,169 034882	42	6CASHIE 230.0 kV - AG1-437 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-329 (1887) : Rebuild 2.0 miles of 230 kV Line 2034 from Cashie to AG1-437 Tap with 2-768.2 ACSS 250 C. Replace Line Switch and Line Lead at Cashie terminal. Project Type : FAC Cost : \$5,250,000 Time Estimate : 30-36 Months	\$5,250,000
168520700,168 520699	56	AD1-057 TAP 230.0 kV - 6HATHAWAY 230.0 kV Ckt 1	<u>DVP</u> n6223 (1753) : Rebuild 12.8 miles of 230 KV Line 2056 from AD1-057 Tap to Hathaway with 2-636 ACSR. Project Type : FAC Cost : \$19,200,000 Time Estimate : 30-36 Months	\$19,200,000

ID	Idx	Facility	Upgrade Description	Cost
168825748	52	8MDLTHAN 500.0 kV - 6MDLTHAN 230.0 kV Ckt 1	<u>DVP</u> dom-378 (1936) : Add additional 500/230 kV transformer at Midlothian Substation Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
168825626	49	8CHCKAHM 500.0 kV - 6CHCKAHM 230.0 kV Ckt 1	<u>DVP</u> dom-022 (1528) : Add additional 500/230 kV transformer at Chickahominy substation. Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
169034888,169 034890,169034 887	32	6NUCO TP 230.0 kV - AF2-076 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-317 (1875) : 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
163341970	29	6SURREY 230.0 kV - 6CHCKTUK 230.0 kV Ckt 1	<u>DVP</u> dom-217 (1775) : Rebuild 23.36 miles of 230 kV Line 290 from Surry to Chuckatuck with 2-636 ACSR. Project Type : FAC Cost : \$35,040,000 Time Estimate : 36-40 Months	\$35,040,000
163829817,163 830104,163830 100,163829818	54	8SURREY 500.0 kV - 8CHCKAHM 500.0 kV Ckt 1	<u>DVP</u> n6324 (1549) : Replace Terminal Equipment at Surry and Chickahominy Substations Project Type : FAC Cost : \$4,000,000 Time Estimate : 16-18 Months dom-258 (1816) : Rebuild 44.44 miles of 500 kV Line 567 from Surry to Chickahominy with 3-1351.5 ACSR. Project Type : FAC Cost : \$137,764,000 Time Estimate : 48-60 Months	\$141,764,000
169034927	41	6TRWBRDG 230.0 kV - 3TRWBRDG 115.0 kV Ckt 1	<u>DVP</u> dom-324 (1882) : Add an additional 115/230 kV transformer at Trowbridge Project Type : CON Cost : \$7,000,000 Time Estimate : 16-18 Months	\$7,000,000

ID	Idx	Facility	Upgrade Description	Cost
163341645,168 520584,163341 646,163341375, 163341376	13	6DRY BREAD 230.0 kV - 6CLUBHSE 230.0 kV Ckt 1	<u>DVP</u> dom-270 (1828) : 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
169035034	43	3WEYRHAUSE R 115.0 kV - 3TRWBRDG2 115.0 kV Ckt 1	<u>DVP</u> dom-330 (1888) : Reconnector 0.82 miles of 115 kV Line 168 from Weyerhaeuser to drawbridge with 768.2 ACSS 250 C. Replace breaker switch at Weyerhaeuser terminal. Project Type : FAC Cost : \$692,000 Time Estimate : 30-36 Months	\$692,000
163830077,163 830069,163830 070	47	8CARSON 500.0 kV - 8MDLTHAN 500.0 kV Ckt 1	<u>DVP</u> n6172 (1740) : Rebuild 37.41 miles of 500 kV Line 563 from Carson to Midlothian with 3-1351.5 125C ACSR. Project Type : FAC Cost : \$115,971,000 Time Estimate : 48-60 Months	\$115,971,000
163830033,163 830043,163830 036	51	8MDLTHAN 500.0 kV - 8NO ANNA 500.0 kV Ckt 1	<u>DVP</u> n5609 (1706) : Rebuild 41.13 miles of 500 kV Line 576 from Midlothian to North Anna with 3-1351.5 125C ACSR. Project Type : FAC Cost : \$127,503,000 Time Estimate : 48-60 Months n6055 (1711) : Replace Wave traps at Midlothian and North Anna 500kV substations Project Type : FAC Cost : \$300,000 Time Estimate : 16-18 Months	\$127,803,000
168825773	55	AD1-033 TAP 230.0 kV - 6LANDSTN 230.0 kV Ckt 1	<u>DVP</u> dom-101 (1624) : Rebuild 8.2 miles of 230 kV Line 271 from Landstown to AD1-033 Tap with 2-636 ACSR. Project Type : FAC Cost : \$20,500,000 Time Estimate : 30-36 Months	\$20,500,000
168520689	1	6SWAMP 230.0 kV - 6SUNBURY 230.0 kV Ckt 1	<u>DVP</u> dom-267 (1825) : 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

ID	Idx	Facility	Upgrade Description	Cost
169034986	5	6TRWBRDG 230.0 kV - 3TRWBRDG2 115.0 kV Ckt 1	<u>DVP</u> dom-325 (1883) : Replace the 115/230 kV Transformer at Trowbridge Project Type : CON Cost : \$4,500,000 Time Estimate : 16-18 Months	\$4,500,000
169245295,169 245294	7	6WINFALL 230.0 kV - 6TANGLEW 230.0 kV Ckt 1	<u>DVP</u> n6440 (1628) : Rebuild 9.97 miles of 230 kV Line 2020 from Winfall to Tanglewood DP with 2-795 150C ACSR. Project Type : FAC Cost : \$14,955,000 Time Estimate : 30-36 Months	\$14,955,000
169034858,169 034857,169034 860	58	AG1-312 TAP 230.0 kV - 6EARLEYS 230.0 kV Ckt 1	<u>DVP</u> dom-417 (1975) : Wreck and Rebuild 3.5 miles of 230 kV Line 2034 from AG1-312 to Earleys as a double circuit (6 wire) with 2-636 ACSR on each circuit. Replace Wave Trap, Relay (Secondary CT), Line lead at Earleys terminal. Project Type : FAC Cost : \$9,070,000 Time Estimate : 30-36 Months	\$9,070,000
163341981	9	6KINGFORK 230.0 kV - 6CHCKTUK 230.0 kV Ckt 1	<u>DVP</u> dom-216 (1774) : Rebuild 7.8 miles of 230 kV Line 289 from Kings Fork to Chuckatuck with 2-636 ACSR. Project Type : FAC Cost : \$11,700,000 Time Estimate : 30-36 Months	\$11,700,000
169034900,169 034899	40	6TRWBRDG 230.0 kV - AD1- 023 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-223 (1781) : Rebuild 9.2 miles of 230 kV Line 2034 from Trowbridge to AD1-023 with 2-636 ACSR. Project Type : FAC Cost : \$13,800,000 Time Estimate : 30-36 Months dom-326 (1884) : Rebuild 9.137 miles of 230 kV Line 2034 from Trowbridge to AD1-023 with 2-768.2 ACSS 250 C. Replace Wave Trap, Relay (Secondary CT), Line Lead at Trowbridge terminal Project Type : FAC Cost : \$23,162,500 Time Estimate : 36-40 Months	\$36,962,500
169034949,169 034950	37	6PLYMOTH 230.0 kV - 6TRWBRDG 230.0 kV Ckt 1	<u>DVP:</u> dom-321 (1879) : Rebuild 1.67 miles of 230 kV Line 2126 from Plymouth to Trowbridge with 2-636 ACSR 150 C. Replace Line Switch at Plymouth terminal. Project Type : FAC Cost : \$2,755,000 Time Estimate : 30-36 Months	\$2,755,000

ID	Idx	Facility	Upgrade Description	Cost
169245201,169245202,169245199	45	6ELIZ CT 230.0 kV - 6SHAWBRO 230.0 kV Ckt 1	<u>DVP</u> n6218 (1516) : 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	\$15,420,000
166981288	36	3PANTEGO 115.0 kV - 3TERRA 115.0 kV Ckt 1	<u>DVP</u> dom-320 (1878) : Reconnector 8.59 miles of 115 kV Line 1031 from Pantego to Terra with 636 ACSR 150 C Project Type : FAC Cost : \$5,154,000 Time Estimate : 30-36 Months	\$5,154,000
168825653	23	6CHESTF B 230.0 kV - 6BASIN 230.0 kV Ckt 1	<u>DVP</u> n6130 (1719) : Rebuild 12.4 miles of 230 kV Line 259 from Chesterfield to Basin with 2-636 ACSR. Project Type : FAC Cost : \$31,000,000 Time Estimate : 30-36 Months dom-301 (1859) : Rebuild 12.4 miles of 230 kV Line 259 from Chesterfield to Basin with 2-795 ACSR 150 C. Replace Breaker Switch and Wave Trap at Basin terminal Project Type : FAC Cost : \$31,450,000 Time Estimate : 36-40 Months	\$62,450,000
			TOTAL COST	\$2,114,247,500

11.6 Flow Gate Details

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

11.6.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168520689	313713	6SWAMP	DVP	314648	6SUNBURY	DVP	1	DVP_P1-2: LN 2020	single	984.18	91.21	100.06	DC	87.07

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

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

11.6.2 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
168520695	313851	6ECITYDP2	DVP	314638	6ELIZ CT	DVP	1	DVP_P1-2: LN 247	single	984.18	95.37	103.89	DC	83.84

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

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

11.6.3 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
168825792	314466	6FENTRES	DVP	934060	AD1-033 TAP	DVP	1	DVP_P1-2: LN 2128	single	678.68	99.17	101.43	DC	15.34

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.4247	80/20	0.4247
314638	6ELIZ CT	0.2483	80/20	0.2483
314639	6TANGLEW	0.3936	80/20	0.3936
314643	3O INLET	0.6250	80/20	0.6250
315603	6AA1-139SOLA	3.5290	80/20	3.5290
315605	6W1-029WIND	0.6558	80/20	0.6558
315611	6Z1-036WIND	0.6690	80/20	0.6690
315614	AA2-178 C	0.6777	80/20	0.6777
933731	AC2-196 C	0.5255	80/20	0.5255
934061	AD1-033 C	-21.8527	Adder	-25.71
934521	AD1-076 C	18.5140	80/20	18.5140
937221	AD2-160 C O1	9.7836	80/20	9.7836
938535	AE1-072 C	26.6825	80/20	26.6825
940491	AE2-034 C	3.2218	80/20	3.2218
941501	AE2-147 C	9.5922	80/20	9.5922
942401	AE2-253 C	10.2907	80/20	10.2907
944581	AF1-123 C O1	28.1142	80/20	28.1142
944591	AF1-124 C O1	28.1142	80/20	28.1142
944601	AF1-125 C O1	28.1142	80/20	28.1142
944871	AF1-152 C	3.1974	80/20	3.1974
945711	AF1-236 C O1	35.2713	80/20	35.2713
957531	AF2-047 C	7.6557	80/20	7.6557
957871	AF2-081 C	15.9163	80/20	15.9163
963821	AG1-235 C O1	42.7464	80/20	42.7464
964951	AG1-359 O1	49.9665	80/20	49.9665
965181	AG1-383 C	4.9470	80/20	4.9470
965631	AG1-431	20.4202	80/20	20.4202
966931	AG1-431A	15.3420	80/20	15.3420
WEC	WEC	0.0394	Confirmed LTF	0.0394
LGEE	LGEE	0.0798	Confirmed LTF	0.0798
CPLE	CPLE	0.3249	Confirmed LTF	0.3249
CBM-W2	CBM-W2	1.5142	Confirmed LTF	1.5142
NY	NY	0.0055	Confirmed LTF	0.0055
TVA	TVA	0.2730	Confirmed LTF	0.2730
SIGE	SIGE	0.0160	Confirmed LTF	0.0160
CBM-S2	CBM-S2	3.7375	Confirmed LTF	3.7375
CBM-S1	CBM-S1	0.0692	Confirmed LTF	0.0692
MEC	MEC	0.2225	Confirmed LTF	0.2225
LAGN	LAGN	0.3395	Confirmed LTF	0.3395
CBM-W1	CBM-W1	1.6824	Confirmed LTF	1.6824

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
169034999	314573	3EVERETS	DVP	314574	6EVERETS	DVP	2	DVP_P1-2: LN 2034-A	single	241.39	95.56	106.73	DC	26.96

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315292	1DOMTR78	1.8204	80/20	1.8204
315293	1DOMTR9	9.4154	80/20	9.4154
315294	1DOMTR10	11.5385	80/20	11.5385
315605	6W1-029WIND	0.3180	80/20	0.3180
315611	6Z1-036WIND	0.5044	80/20	0.5044
315614	AA2-178 C	1.1910	80/20	1.1910
925121	AB2-169 C	1.8853	80/20	1.8853
933991	AD1-023 C	12.9060	80/20	12.9060
934521	AD1-076 C	53.2715	80/20	53.2715
940491	AE2-034 C	5.6616	80/20	5.6616
941501	AE2-147 C	4.6512	80/20	4.6512
944871	AF1-152 C	1.5504	80/20	1.5504
945711	AF1-236 C O1	61.9810	80/20	61.9810
957531	AF2-047 C	13.4530	80/20	13.4530
959511	AF2-242 C	16.0650	80/20	16.0650
964491	AG1-312 C O1	18.6032	80/20	18.6032
965631	AG1-431	35.8838	80/20	35.8838
965691	AG1-437 C O1	9.9660	80/20	9.9660
965701	AG1-438 C O1	9.9660	80/20	9.9660
965741	AG1-442 O1	5.8135	80/20	5.8135
965751	AG1-443 O1	5.8135	80/20	5.8135
966801	AG1-551 C	5.6297	80/20	5.6297
966931	AG1-431A	26.9600	80/20	26.9600
G-007A	G-007A	0.1966	Confirmed LTF	0.1966
VFT	VFT	0.5289	Confirmed LTF	0.5289
CALDERWOOD	CALDERWOOD	0.2097	Confirmed LTF	0.2097
PRAIRIE	PRAIRIE	0.7181	Confirmed LTF	0.7181
CHEOAH	CHEOAH	0.2152	Confirmed LTF	0.2152
CBM-N	CBM-N	0.0960	Confirmed LTF	0.0960
COTTONWOOD	COTTONWOOD	0.7812	Confirmed LTF	0.7812
HAMLET	HAMLET	0.4712	Confirmed LTF	0.4712
GIBSON	GIBSON	0.1250	Confirmed LTF	0.1250
BLUEG	BLUEG	0.3854	Confirmed LTF	0.3854
TRIMBLE	TRIMBLE	0.1224	Confirmed LTF	0.1224
CATAWBA	CATAWBA	0.2254	Confirmed LTF	0.2254

11.6.5 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
169034986	314616	6TRWBRDG	DVP	314614	3TRWBRDG2	DVP	1	DVP_P1-2: LN 2034-A	single	182.36	88.47	103.32	DC	27.08

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315293	1DOMTR9	-9.0955	Adder	-10.7
315294	1DOMTR10	-11.1465	Adder	-13.11
315605	6W1-029WIND	0.3202	80/20	0.3202
315611	6Z1-036WIND	0.5071	80/20	0.5071
315614	AA2-178 C	1.1961	80/20	1.1961
933991	AD1-023 C	12.9573	80/20	12.9573
934521	AD1-076 C	53.4799	80/20	53.4799
940491	AE2-034 C	5.6860	80/20	5.6860
941501	AE2-147 C	4.6836	80/20	4.6836
944871	AF1-152 C	1.5612	80/20	1.5612
945711	AF1-236 C O1	62.2477	80/20	62.2477
957531	AF2-047 C	13.5109	80/20	13.5109
964491	AG1-312 C O1	18.6771	80/20	18.6771
965631	AG1-431	36.0382	80/20	36.0382
965691	AG1-437 C O1	10.0056	80/20	10.0056
965701	AG1-438 C O1	10.0056	80/20	10.0056
965741	AG1-442 O1	5.8366	80/20	5.8366
965751	AG1-443 O1	5.8366	80/20	5.8366
966931	AG1-431A	27.0760	80/20	27.0760
G-007A	G-007A	0.2541	Confirmed LTF	0.2541
VFT	VFT	0.6772	Confirmed LTF	0.6772
CALDERWOOD	CALDERWOOD	0.1988	Confirmed LTF	0.1988
PRAIRIE	PRAIRIE	0.6612	Confirmed LTF	0.6612
CHEOAH	CHEOAH	0.2042	Confirmed LTF	0.2042
CBM-N	CBM-N	0.1236	Confirmed LTF	0.1236
COTTONWOOD	COTTONWOOD	0.7350	Confirmed LTF	0.7350
HAMLET	HAMLET	0.4591	Confirmed LTF	0.4591
GIBSON	GIBSON	0.1130	Confirmed LTF	0.1130
BLUEG	BLUEG	0.3472	Confirmed LTF	0.3472
TRIMBLE	TRIMBLE	0.1096	Confirmed LTF	0.1096
CATAWBA	CATAWBA	0.2177	Confirmed LTF	0.2177

11.6.6 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
169245317	314639	6TANGLEW	DVP	313851	6ECITYDP2	DVP	1	DVP_P1-2: LN 247	single	984.18	95.39	103.91	DC	83.84

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

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

11.6.7 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
169245294	314651	6WINFALL	DVP	314639	6TANGLEW	DVP	1	DVP_P1-2: LN 247	single	898.64	108.87	118.2	DC	83.85

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

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

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
169034875	933990	AD1-023 TAP	DVP	314620	6CASHIE	DVP	1	DVP_P1-2: LN 2092	single	571.52	192.56	218.79	DC	149.93

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

11.6.9 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
163341981	314525	6KINGFORK	DVP	314522	6CHCKTUK	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	97.6	100.11	DC	20.83

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

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

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

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

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
163341969	314537	6SUFFOLK	DVP	314525	6KINGFORK	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	99.02	101.53	DC	20.85

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

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

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

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

11.6.11 Index 11

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163341640	313714	6PERQUIMANS	DVP	314662	6S HERTFORD	DVP	1	DVP_P7-1: LN 25-2034-A	tower	897.0	225.54	245.7	DC	180.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.4747	50/50	0.4747
315292	1DOMTR78	6.2491	50/50	6.2491
315293	1DOMTR9	32.3209	50/50	32.3209
315294	1DOMTR10	39.6090	50/50	39.6090
315611	6Z1-036WIND	5.7922	50/50	5.7922
315614	AA2-178 C	7.9883	50/50	7.9883
916042	Z1-036 E (Suspended)	245.9800	50/50	245.9800
920692	AA2-178 E	21.6998	50/50	21.6998
925121	AB2-169 C	2.8947	50/50	2.8947
925122	AB2-169 E	16.4658	50/50	16.4658
934521	AD1-076 C	282.8959	50/50	282.8959
934522	AD1-076 E	144.0502	50/50	144.0502
940491	AE2-034 C	37.9747	50/50	37.9747
940492	AE2-034 E	16.2749	50/50	16.2749
945711	AF1-236 C O1	415.7328	50/50	415.7328
945712	AF1-236 E O1	256.7814	50/50	256.7814
957531	AF2-047 C	90.2352	50/50	90.2352
957532	AF2-047 E	45.3888	50/50	45.3888
959511	AF2-242 C	11.7972	50/50	11.7972
959512	AF2-242 E	9.1756	50/50	9.1756
965631	AG1-431	240.6874	50/50	240.6874
966931	AG1-431A	180.8320	50/50	180.8320
WEC	WEC	0.0214	Confirmed LTF	0.0214
LGEE	LGEE	0.0446	Confirmed LTF	0.0446
CPL	CPL	0.4409	Confirmed LTF	0.4409
CBM-W2	CBM-W2	1.2096	Confirmed LTF	1.2096
NY	NY	0.0730	Confirmed LTF	0.0730
TVA	TVA	0.2422	Confirmed LTF	0.2422
O-066	O-066	0.9826	Confirmed LTF	0.9826
SIGE	SIGE	0.0237	Confirmed LTF	0.0237
CBM-S2	CBM-S2	4.5101	Confirmed LTF	4.5101
CBM-S1	CBM-S1	0.0589	Confirmed LTF	0.0589
G-007	G-007	0.1544	Confirmed LTF	0.1544
MEC	MEC	0.1446	Confirmed LTF	0.1446
LAGN	LAGN	0.3028	Confirmed LTF	0.3028
CBM-W1	CBM-W1	0.8552	Confirmed LTF	0.8552

11.6.12 Index 12

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
166981258	313724	3TERRA	DVP	314576	3FIVE PT	DVP	1	DVP_P7-1: LN 25-2034-A	tower	91.0	221.54	230.95	DC	18.97

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.0608	50/50	0.0608
315292	1DOMTR78	1.6317	50/50	1.6317
315293	1DOMTR9	8.4395	50/50	8.4395
315294	1DOMTR10	10.3425	50/50	10.3425
916042	Z1-036 E (Suspended)	12.8066	Adder	15.07
920692	AA2-178 E	1.9353	Adder	2.28
925121	AB2-169 C	3.2524	50/50	3.2524
925122	AB2-169 E	18.5003	50/50	18.5003
934521	AD1-076 C	37.4962	50/50	37.4962
934522	AD1-076 E	19.0930	50/50	19.0930
940491	AE2-034 C	3.3869	Adder	3.98
940492	AE2-034 E	1.4515	Adder	1.71
945711	AF1-236 C O1	37.0780	Adder	43.62
945712	AF1-236 E O1	22.9016	Adder	26.94
957531	AF2-047 C	8.0478	Adder	9.47
957532	AF2-047 E	4.0481	Adder	4.76
965631	AG1-431	11.3771	Adder	25.25
966931	AG1-431A	8.5478	Adder	18.97
G-007A	G-007A	0.1199	Confirmed LTF	0.1199
VFT	VFT	0.3161	Confirmed LTF	0.3161
CALDERWOOD	CALDERWOOD	0.1521	Confirmed LTF	0.1521
PRAIRIE	PRAIRIE	0.5269	Confirmed LTF	0.5269
CHEOAH	CHEOAH	0.1557	Confirmed LTF	0.1557
CBM-N	CBM-N	0.0576	Confirmed LTF	0.0576
COTTONWOOD	COTTONWOOD	0.5670	Confirmed LTF	0.5670
HAMLET	HAMLET	0.3367	Confirmed LTF	0.3367
GIBSON	GIBSON	0.0928	Confirmed LTF	0.0928
BLUEG	BLUEG	0.2864	Confirmed LTF	0.2864
TRIMBLE	TRIMBLE	0.0907	Confirmed LTF	0.0907
CATAWBA	CATAWBA	0.1617	Confirmed LTF	0.1617

11.6.13 Index 13

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163341645	313725	6DRY BREAD	DVP	314563	6CLUBHSE	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	195.22	196.96	DC	17.69

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	1CONETOESOL	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		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
163830024	313845	6HATHAWAY	DVP	304222	6ROCKYMT230T	CPL	1	DVP_P1-2: LN 2181	single	478.0	116.57	120.0	DC	16.42

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
965631	AG1-431	21.8577	80/20	21.8577

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
163341655	313885	6WALBMRL	DVP	313714	6PERQUIMANS	DVP	1	DVP_P7-1: LN 25-2034-A	tower	897.0	193.95	214.11	DC	180.87

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.4748	50/50	0.4748
315292	1DOMTR78	6.2507	50/50	6.2507
315293	1DOMTR9	32.3295	50/50	32.3295
315294	1DOMTR10	39.6195	50/50	39.6195
315614	AA2-178 C	7.9902	50/50	7.9902
920692	AA2-178 E	21.7049	50/50	21.7049
925121	AB2-169 C	2.8960	50/50	2.8960
925122	AB2-169 E	16.4731	50/50	16.4731
934521	AD1-076 C	282.9600	50/50	282.9600
934522	AD1-076 E	144.0829	50/50	144.0829
940491	AE2-034 C	37.9835	50/50	37.9835
940492	AE2-034 E	16.2787	50/50	16.2787
945711	AF1-236 C O1	415.8293	50/50	415.8293
945712	AF1-236 E O1	256.8411	50/50	256.8411
957531	AF2-047 C	90.2561	50/50	90.2561
957532	AF2-047 E	45.3994	50/50	45.3994
959511	AF2-242 C	11.8062	50/50	11.8062
959512	AF2-242 E	9.1826	50/50	9.1826
965631	AG1-431	240.7433	50/50	240.7433
966931	AG1-431A	180.8740	50/50	180.8740
WEC	WEC	0.0277	Confirmed LTF	0.0277
LGEE	LGEE	0.0572	Confirmed LTF	0.0572
CPL	CPL	0.4545	Confirmed LTF	0.4545
CBM-W2	CBM-W2	1.3888	Confirmed LTF	1.3888
NY	NY	0.0619	Confirmed LTF	0.0619
TVA	TVA	0.2702	Confirmed LTF	0.2702
O-066	O-066	0.8480	Confirmed LTF	0.8480
SIGE	SIGE	0.0237	Confirmed LTF	0.0237
CBM-S2	CBM-S2	4.7189	Confirmed LTF	4.7189
CBM-S1	CBM-S1	0.0665	Confirmed LTF	0.0665
G-007	G-007	0.1334	Confirmed LTF	0.1334
MEC	MEC	0.1764	Confirmed LTF	0.1764
LAGN	LAGN	0.3378	Confirmed LTF	0.3378
CBM-W1	CBM-W1	1.1356	Confirmed LTF	1.1356

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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
163341650	314203	6MACKEYS	DVP	314637	6EDENTON	DVP	1	DVP_P7-1: LN 25-2034-A	tower	895.0	194.36	214.57	DC	180.87

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.4748	50/50	0.4748
315292	1DOMTR78	6.2507	50/50	6.2507
315293	1DOMTR9	32.3295	50/50	32.3295
315294	1DOMTR10	39.6195	50/50	39.6195
315614	AA2-178 C	7.9902	50/50	7.9902
920692	AA2-178 E	21.7049	50/50	21.7049
925121	AB2-169 C	2.8960	50/50	2.8960
925122	AB2-169 E	16.4731	50/50	16.4731
934521	AD1-076 C	282.9600	50/50	282.9600
934522	AD1-076 E	144.0829	50/50	144.0829
940491	AE2-034 C	37.9835	50/50	37.9835
940492	AE2-034 E	16.2787	50/50	16.2787
945711	AF1-236 C O1	415.8293	50/50	415.8293
945712	AF1-236 E O1	256.8411	50/50	256.8411
957531	AF2-047 C	90.2561	50/50	90.2561
957532	AF2-047 E	45.3994	50/50	45.3994
959511	AF2-242 C	11.8062	50/50	11.8062
959512	AF2-242 E	9.1826	50/50	9.1826
965631	AG1-431	240.7433	50/50	240.7433
966931	AG1-431A	180.8740	50/50	180.8740
WEC	WEC	0.0277	Confirmed LTF	0.0277
LGEE	LGEE	0.0572	Confirmed LTF	0.0572
CPLE	CPLE	0.4545	Confirmed LTF	0.4545
CBM-W2	CBM-W2	1.3888	Confirmed LTF	1.3888
NY	NY	0.0619	Confirmed LTF	0.0619
TVA	TVA	0.2702	Confirmed LTF	0.2702
O-066	O-066	0.8480	Confirmed LTF	0.8480
SIGE	SIGE	0.0237	Confirmed LTF	0.0237
CBM-S2	CBM-S2	4.7189	Confirmed LTF	4.7189
CBM-S1	CBM-S1	0.0665	Confirmed LTF	0.0665
G-007	G-007	0.1334	Confirmed LTF	0.1334
MEC	MEC	0.1764	Confirmed LTF	0.1764
LAGN	LAGN	0.3378	Confirmed LTF	0.3378
CBM-W1	CBM-W1	1.1356	Confirmed LTF	1.1356

11.6.17 Index 17

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168825639	314203	6MACKEYS	DVP	314594	6PLYMOTH	DVP	1	DVP_P1-2: LN 2092	single	789.6	120.62	145.94	DC	199.9

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315611	6Z1-036WIND	6.1499	80/20	6.1499
315614	AA2-178 C	8.8307	80/20	8.8307
940491	AE2-034 C	41.9790	80/20	41.9790
945711	AF1-236 C O1	459.5701	80/20	459.5701
957531	AF2-047 C	99.7501	80/20	99.7501
965631	AG1-431	266.0669	80/20	266.0669
966931	AG1-431A	199.9000	80/20	199.9000
CALDERWOOD	CALDERWOOD	0.0249	Confirmed LTF	0.0249
NY	NY	0.0277	Confirmed LTF	0.0277
PRAIRIE	PRAIRIE	0.1292	Confirmed LTF	0.1292
CHEOAH	CHEOAH	0.0250	Confirmed LTF	0.0250
COTTONWOOD	COTTONWOOD	0.1050	Confirmed LTF	0.1050
HAMLET	HAMLET	0.0289	Confirmed LTF	0.0289
GIBSON	GIBSON	0.0273	Confirmed LTF	0.0273
BLUEG	BLUEG	0.0868	Confirmed LTF	0.0868
TRIMBLE	TRIMBLE	0.0278	Confirmed LTF	0.0278
CATAWBA	CATAWBA	0.0175	Confirmed LTF	0.0175

11.6.18 Index 18

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168825593	314209	6SKIFF CREEK	DVP	314386	6KINGS M	DVP	1	DVP_P1-2: LN 567	single	441.8	168.98	170.34	DC	13.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1610	80/20	0.1610
314295	6BIRDNECK	0.0194	80/20	0.0194
314421	6WINCHST	0.1065	80/20	0.1065
314491	3PENDLTN	0.1449	80/20	0.1449
314507	3THOMPSN	0.1454	80/20	0.1454
314638	6ELIZ CT	0.0941	80/20	0.0941
314639	6TANGLEW	0.1715	80/20	0.1715
314643	3O INLET	0.1897	80/20	0.1897
315092	1YORKTN3	19.6878	80/20	19.6878
315098	1CHESPKA	0.1923	80/20	0.1923
315099	1CHESPKB (Deactivation : 31/05/2019)	1.3332	80/20	1.3332
315108	1ELIZAR1	1.4176	80/20	1.4176
315109	1ELIZAR2	1.3929	80/20	1.3929
315110	1ELIZAR3	1.4357	80/20	1.4357
315116	1SURREY 1	9.3889	80/20	9.3889
315120	1GRAVEL4	0.9660	80/20	0.9660
315122	1GRAVEL6	0.9649	80/20	0.9649
315233	1SURREY 2	14.2114	80/20	14.2114
315260	1GOSPORTA	0.1535	80/20	0.1535
315261	1GOSPORTB	0.1961	80/20	0.1961
315262	1GOSPORTC	0.1664	80/20	0.1664
315293	1DOMTR9	2.0576	Adder	2.42
315294	1DOMTR10	2.5215	Adder	2.97
315603	6AA1-139SOLA	1.0029	80/20	1.0029
315605	6W1-029WIND	0.4711	80/20	0.4711
315611	6Z1-036WIND	0.4492	80/20	0.4492
316103	AB2-015 C	2.6142	Adder	3.08
316140	AB2-099 C (Suspended)	0.1612	Adder	0.19
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.1324	80/20	0.1324
316258	AE1-162 C	0.1417	80/20	0.1417
925863	AC1-065 C	-5.0524	Adder	-5.94
926661	AC1-147 C	0.1626	80/20	0.1626
926754	AC1-161 C	15.4929	80/20	15.4929
926784	AC1-164 C	-14.7667	Adder	-17.37
932044	AC2-012 C	4.6632	80/20	4.6632
933294	AC2-141 C	15.4929	80/20	15.4929
933731	AC2-196 C	0.1297	80/20	0.1297
933991	AD1-023 C	4.0400	Adder	4.75
934061	AD1-033 C	3.4520	80/20	3.4520
934141	AD1-041 C	-3.3367	Adder	-3.93

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934521	AD1-076 C	17.0999	Adder	20.12
935111	AD1-144 C	0.1311	80/20	0.1311
936401	AD2-051 C O1	2.5103	Adder	2.95
936661	AD2-085 C	0.9742	Adder	1.15
937221	AD2-160 C O1	2.6630	80/20	2.6630
938535	AE1-072 C	7.9537	80/20	7.9537
938771	AE1-103 C	1.1504	Adder	1.35
939414	AE1-173_C1	9.2677	Adder	10.9
939415	AE1-173_C2	7.9438	Adder	9.35
939416	AE1-173_C3	9.2677	Adder	10.9
939431	AE1-175 C	1.2929	80/20	1.2929
940231	AE2-005 C	-0.9186	Adder	-1.08
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	79.4303	80/20	79.4303
940491	AE2-034 C	2.3762	Adder	2.8
940641	AE2-051 C O1	4.5013	Adder	5.3
940891	AE2-078 C	1.0890	80/20	1.0890
940901	AE2-079 C	1.0890	80/20	1.0890
941101	AE2-104 C O1	1.3615	80/20	1.3615
941281	AE2-122 C O1	13.0346	80/20	13.0346
941291	AE2-123 C O1	13.3955	80/20	13.3955
941301	AE2-124 C O1	12.1844	80/20	12.1844
941501	AE2-147 C	6.8913	80/20	6.8913
941591	AE2-156 O1	8.1940	80/20	8.1940
942131	AE2-225 C	0.9659	80/20	0.9659
942171	AE2-229 C	0.7244	80/20	0.7244
942341	AE2-247 C	0.4210	Adder	0.5
942401	AE2-253 C	2.8011	80/20	2.8011
943171	AE2-346 C	0.3868	Adder	0.46
943461	AF1-017 C	0.3809	Adder	0.45
943611	AF1-032 C	0.7888	80/20	0.7888
943621	AF1-033 C	1.0890	80/20	1.0890
944581	AF1-123 C O1	22.4486	80/20	22.4486
944591	AF1-124 C O1	22.4486	80/20	22.4486
944601	AF1-125 C O1	22.4486	80/20	22.4486
944871	AF1-152 C	2.2971	80/20	2.2971
945361	AF1-201 C O1	6.4395	80/20	6.4395
945711	AF1-236 C O1	26.0136	Adder	30.6
957491	AF2-043 C	0.9659	80/20	0.9659
957521	AF2-046 C	4.6173	Adder	5.43
957531	AF2-047 C	5.6463	Adder	6.64
957631	AF2-057	1.6362	80/20	1.6362
957821	AF2-076 C	2.3502	80/20	2.3502
957871	AF2-081 C	4.5231	80/20	4.5231
958161	AF2-110 C	0.5613	80/20	0.5613
959511	AF2-242 C	2.0146	Adder	2.37
961091	AF2-400 C	0.1412	Adder	0.17
961611	AG1-000B C	2.5440	Adder	5.65
961681	AG1-008 C	2.4521	Adder	5.44
961851	AG1-027 C	3.0032	Adder	6.67
961931	AG1-036 C	0.1981	Adder	0.44
961941	AG1-037 C	0.0732	Adder	0.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.9900	80/20	0.9900
962331	AG1-082 C	0.2929	Adder	0.65
962341	AG1-083 C	0.2929	Adder	0.65
962351	AG1-084 C	0.2558	Adder	0.57
962361	AG1-085 C	0.2558	Adder	0.57
962961	AG1-145 C	1.1665	80/20	1.1665
963291	AG1-178 C O1	9.0334	Adder	20.05
963351	AG1-184 O1	4.8667	Adder	10.8
963821	AG1-235 C O1	11.0336	80/20	11.0336
964491	AG1-312 C O1	2.8942	Adder	6.42
964801	AG1-343 C	0.8615	Adder	1.91
964951	AG1-359 O1	12.3330	80/20	12.3330
965001	AG1-364 C O1	3.2768	80/20	3.2768
965181	AG1-383 C	1.2629	80/20	1.2629
965291	AG1-394 C	0.2955	Adder	0.66
965631	AG1-431	7.9821	Adder	17.72
965691	AG1-437 C O1	1.6202	Adder	3.6
965701	AG1-438 C O1	1.6202	Adder	3.6
965741	AG1-442 O1	0.9451	Adder	2.1
965751	AG1-443 O1	0.9451	Adder	2.1
966491	AG1-518 O1	4.0245	80/20	4.0245
966611	AG1-531 C	4.0435	80/20	4.0435
966801	AG1-551 C	0.3172	Adder	0.7
966931	AG1-431A	5.9971	Adder	13.31
WEC	WEC	0.1241	Confirmed LTF	0.1241
LGEE	LGEE	0.2582	Confirmed LTF	0.2582
CPLE	CPLE	1.8905	Confirmed LTF	1.8905
CBM-W2	CBM-W2	6.5139	Confirmed LTF	6.5139
NY	NY	0.3711	Confirmed LTF	0.3711
TVA	TVA	1.2908	Confirmed LTF	1.2908
SIGE	SIGE	0.1260	Confirmed LTF	0.1260
CBM-S2	CBM-S2	21.8196	Confirmed LTF	21.8196
CBM-S1	CBM-S1	0.3150	Confirmed LTF	0.3150
MEC	MEC	0.8088	Confirmed LTF	0.8088
LAGN	LAGN	1.6048	Confirmed LTF	1.6048
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

11.6.19 Index 19

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168825754	314218	6ELMONT	DVP	314908	8ELMONT	DVP	2	DVP_P1-2: LN 557	single	879.84	158.25	159.13	DC	19.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314229	6MT RD221	0.1393	80/20	0.1393
314236	6NRTHEST	0.1832	80/20	0.1832
314241	6OLDCHRC	0.8548	80/20	0.8548
314250	6ROCKVILLE	0.3145	80/20	0.3145
314309	6IRON208	0.3968	80/20	0.3968
315043	1FOUR RIVERA	3.0873	80/20	3.0873
315044	1FOUR RIVERB	3.0873	80/20	3.0873
315045	1FOUR RIVERC	3.7734	80/20	3.7734
315046	1FOUR RIVERD	3.0873	80/20	3.0873
315047	1FOUR RIVERE	3.0873	80/20	3.0873
315048	1FOUR RIVERF	3.7734	80/20	3.7734
315050	1FOURRIVERG	4.6210	80/20	4.6210
315051	1AA1-145 CT1	4.8597	80/20	4.8597
315052	1AA1-145 CT2	4.8597	80/20	4.8597
315058	1CHESTF3 (Deactivation : 13/12/2018)	16.7010	80/20	16.7010
315059	1CHESTF4 (Deactivation : 13/12/2018)	27.0723	80/20	27.0723
315060	1CHESTF5 (Deactivation : 31/05/2023)	56.0665	80/20	56.0665
315061	1CHESTG7	3.3032	80/20	3.3032
315062	1CHESTS7	1.5164	80/20	1.5164
315063	1CHESTG8	3.2501	80/20	3.2501
315064	1CHESTS8	1.6731	80/20	1.6731
315065	1CHESTF6 (Deactivation : 31/05/2023)	91.6222	Adder	107.79
315067	1DARBY 1	2.4661	80/20	2.4661
315068	1DARBY 2	2.4690	80/20	2.4690
315069	1DARBY 3	2.4776	80/20	2.4776
315070	1DARBY 4	2.4805	80/20	2.4805
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0129	Adder	0.02
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0129	Adder	0.02
315083	1SPRUNCA (Deactivation : 12/01/2021)	7.8772	Adder	9.27
315084	1SPRUNCB (Deactivation : 12/01/2021)	7.8772	Adder	9.27
316075	AC2-137 C	0.2994	80/20	0.2994
316083	AB2-161 C	2.1134	Adder	2.49
316103	AB2-015 C	4.3635	Adder	5.13
316108	AB2-160 C	3.7946	Adder	4.46

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	31.7658	Adder	37.37
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	31.7658	Adder	37.37
316114	AB2-068 ST (Withdrawn : 01/11/2021)	55.0309	Adder	64.74
316132	AB2-190 C	13.4527	Adder	15.83
316134	AC1-107 G1	59.6504	Adder	70.18
316135	AC1-107 G2	59.6504	Adder	70.18
316136	AC1-107 G3	59.6616	Adder	70.19
925863	AC1-065 C	4.9550	Adder	5.83
926754	AC1-161 C	15.6838	Adder	18.45
926784	AC1-164 C	29.3625	Adder	34.54
927044	AC1-191 C	11.0570	80/20	11.0570
932044	AC2-012 C	5.4501	Adder	6.41
932501	AC2-070 C (Withdrawn : 01/22/2021)	0.2809	80/20	0.2809
932581	AC2-078 C O1	2.5477	Adder	3.0
932591	AC2-079 C O1	3.3547	Adder	3.95
933294	AC2-141 C	15.6838	Adder	18.45
933991	AD1-023 C	6.3205	Adder	7.44
934014	AD1-025 C	11.0985	Adder	13.06
934061	AD1-033 C	3.9598	Adder	4.66
934141	AD1-041 C	3.5032	Adder	4.12
934521	AD1-076 C	26.3163	Adder	30.96
934575	AD1-082 C	4.8163	Adder	5.67
934781	AD1-105 C	7.4723	80/20	7.4723
935164	AD1-151 C	10.8102	Adder	12.72
936041	AD2-007 C	0.5302	Adder	0.62
936051	AD2-008 C	1.9322	Adder	2.27
936151	AD2-021	0.0341	80/20	0.0341
936581	AD2-073 C	1.1747	Adder	1.38
936591	AD2-074 C	3.3545	Adder	3.95
936661	AD2-085 C	1.9427	Adder	2.29
936761	AD2-097 C	1.4939	Adder	1.76
937221	AD2-160 C O1	3.0701	Adder	3.61
938535	AE1-072 C	9.2178	Adder	10.84
938634	AE1-085 C	5.6087	Adder	6.6
938771	AE1-103 C	1.8803	Adder	2.21
939195	AE1-149 C	6.8610	Adder	8.07
939245	AE1-155 C	7.6706	Adder	9.02
939414	AE1-173_C1	14.0087	Adder	16.48
939415	AE1-173_C2	12.0074	Adder	14.13
939416	AE1-173_C3	14.0087	Adder	16.48
939431	AE1-175 C	1.5371	Adder	1.81
939611	AE1-191 C	7.0064	Adder	8.24
939755	AE1-206 C	33.2373	80/20	33.2373
940061	AE2-000BC O1	6.6229	Adder	7.79
940231	AE2-005 C	0.9009	Adder	1.06
940251	AE2-007_O1 (Withdrawn : 12/11/2020)	92.3294	Adder	108.62
940431	AE2-027 C O1	9.4713	Adder	11.14
940481	AE2-033 C	8.3782	Adder	9.86

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940491	AE2-034 C	3.5500	Adder	4.18
940541	AE2-040	1.4982	Adder	1.76
940551	AE2-041	4.7631	Adder	5.6
940651	AE2-052	2.2870	Adder	2.69
940891	AE2-078 C	1.4322	Adder	1.68
940901	AE2-079 C	1.4322	Adder	1.68
941101	AE2-104 C O1	1.8038	Adder	2.12
941281	AE2-122 C O1	15.0624	Adder	17.72
941291	AE2-123 C O1	15.4795	Adder	18.21
941301	AE2-124 C O1	14.0640	Adder	16.55
941501	AE2-147 C	8.1916	Adder	9.64
941581	AE2-155 C	0.1069	80/20	0.1069
941591	AE2-156 O1	9.5557	Adder	11.24
942001	AE2-212 C	1.5155	Adder	1.78
942131	AE2-225 C	1.1264	Adder	1.33
942151	AE2-227 C	2.0256	80/20	2.0256
942161	AE2-228 C	1.5941	Adder	1.88
942171	AE2-229 C	0.8448	Adder	0.99
942191	AE2-231 C O1	2.2128	Adder	2.6
942341	AE2-247 C	0.8426	Adder	0.99
942371	AE2-250 C O1	6.7404	Adder	7.93
942401	AE2-253 C	3.2293	Adder	3.8
942471	AE2-260 C O1	7.1645	Adder	8.43
942551	AE2-270	17.8270	Adder	20.97
943431	AF1-014 C	0.8535	Adder	1.0
943461	AF1-017 C	0.7623	Adder	0.9
943471	AF1-018	4.7631	Adder	5.6
943601	AF1-031 C	9.9823	80/20	9.9823
943611	AF1-032 C	0.9199	Adder	1.08
943621	AF1-033 C	1.4322	Adder	1.68
943741	AF1-042 C	1.7552	Adder	2.06
943991	AF1-067 C	4.9344	80/20	4.9344
944581	AF1-123 C O1	25.0863	Adder	29.51
944591	AF1-124 C O1	25.0863	Adder	29.51
944601	AF1-125 C O1	25.0863	Adder	29.51
944631	AF1-128 O1	49.1623	80/20	49.1623
944641	AF1-129	76.8810	Adder	90.45
944871	AF1-152 C	2.7305	Adder	3.21
945361	AF1-201 C O1	9.8494	Adder	11.59
945711	AF1-236 C O1	38.8641	Adder	45.72
946001	AF1-265	29.1555	80/20	29.1555
946011	AF1-266	7.0132	Adder	8.25
946261	AF1-291 C	1.5947	Adder	1.88
957411	AF2-035 C	4.0233	Adder	4.73
957491	AF2-043 C	1.1264	Adder	1.33
957531	AF2-047 C	8.4355	Adder	9.92
957601	AF2-054 C	1.3669	Adder	1.61
957631	AF2-057	1.9123	Adder	2.25
957711	AF2-065 C	9.0918	Adder	10.7
957821	AF2-076 C	2.7764	Adder	3.27
957831	AF2-077 C	1.3275	Adder	1.56
957871	AF2-081 C	5.2284	Adder	6.15

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957911	AF2-085	2.0584	Adder	2.42
958141	AF2-108	1.1888	Adder	1.4
958161	AF2-110 C	0.7436	Adder	0.87
958261	AF2-120 C	3.7568	Adder	4.42
959641	AF2-255 C	0.5064	80/20	0.5064
959651	AF2-256 C	0.3985	Adder	0.47
959661	AF2-257 C	0.3987	Adder	0.47
959671	AF2-258 C	0.3789	Adder	0.45
959681	AF2-259 C	1.7832	Adder	2.1
960091	AF2-300 C	1.0058	Adder	1.18
961091	AF2-400 C	0.2356	Adder	0.28
961611	AG1-000B C	5.2231	Adder	11.59
961711	AG1-011	9.9910	Adder	22.18
961851	AG1-027 C	4.7644	Adder	10.58
961951	AG1-038 C	1.0282	Adder	2.28
962131	AG1-057	1.2622	Adder	2.8
962191	AG1-064 C	1.4123	80/20	1.4123
962201	AG1-065 C	1.4123	80/20	1.4123
962271	AG1-075 C O1	6.1657	Adder	13.69
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.6901	Adder	1.53
962531	AG1-102 C	0.3612	Adder	0.8
962851	AG1-134 C	9.8688	80/20	9.8688
962861	AG1-135 C	1.9402	Adder	4.31
962961	AG1-145 C	0.7351	Adder	1.63
962971	AG1-146 C	1.0114	Adder	2.25
962981	AG1-147 C	2.3598	Adder	5.24
963221	AG1-171 C	0.7639	Adder	1.7
963231	AG1-172 C	0.7639	Adder	1.7
963241	AG1-173 C	0.7639	Adder	1.7
963251	AG1-174 C	0.7639	Adder	1.7
963261	AG1-175 C	0.7639	Adder	1.7
963291	AG1-178 C O1	8.9012	Adder	19.76
963341	AG1-183 C	1.5779	Adder	3.5
963351	AG1-184 O1	7.5174	Adder	16.69
963381	AG1-187	0.6433	Adder	1.43
963611	AG1-210 C	0.2021	Adder	0.45
963621	AG1-213 C	0.1777	Adder	0.39
963821	AG1-235 C O1	6.7197	Adder	14.92
964021	AG1-256 C	0.3910	Adder	0.87
964211	AG1-282 C	0.6321	Adder	1.4
964801	AG1-343 C	1.5171	Adder	3.37
964951	AG1-359 O1	7.4887	Adder	16.62
965001	AG1-364 C O1	2.0260	Adder	4.5
965181	AG1-383 C	0.7686	Adder	1.71
965231	AG1-388 C	0.6321	Adder	1.4
965291	AG1-394 C	0.5215	Adder	1.16
965631	AG1-431	11.9252	Adder	26.47
966491	AG1-518 O1	2.4874	Adder	5.52
966611	AG1-531 C	2.0603	Adder	4.57
966661	AG1-536 C	1.7118	Adder	3.8
966711	AG1-541 C	1.4216	Adder	3.16
966731	AG1-544 C	2.3216	Adder	5.15

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966741	AG1-545 C	0.7727	Adder	1.72
966871	AG1-558 C	2.4847	80/20	2.4847
966881	AG1-559 C	0.5331	Adder	1.18
966931	AG1-431A	8.9595	Adder	19.89
WEC	WEC	0.0702	Confirmed LTF	0.0702
LGEE	LGEE	0.1502	Confirmed LTF	0.1502
CPL	CPL	3.2692	Confirmed LTF	3.2692
CBM-W2	CBM-W2	7.4816	Confirmed LTF	7.4816
NY	NY	0.7001	Confirmed LTF	0.7001
TVA	TVA	1.6660	Confirmed LTF	1.6660
SIGE	SIGE	0.1751	Confirmed LTF	0.1751
CBM-S2	CBM-S2	35.9554	Confirmed LTF	35.9554
CBM-S1	CBM-S1	0.3865	Confirmed LTF	0.3865
MEC	MEC	0.6896	Confirmed LTF	0.6896
LAGN	LAGN	2.0825	Confirmed LTF	2.0825
AA2-074	AA2-074	2.1551	LTF	2.1551
CBM-W1	CBM-W1	2.3133	Confirmed LTF	2.3133

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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
168825782	314218	6ELMONT	DVP	314908	8ELMONT	DVP	1	DVP_P1-2: LN 557	single	920.92	151.9	152.75	DC	19.98

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314229	6MT RD221	0.1400	80/20	0.1400
314236	6NRTHEST	0.1840	80/20	0.1840
314241	6OLDCHRC	0.8588	80/20	0.8588
314250	6ROCKVILLE	0.3160	80/20	0.3160
314309	6IRON208	0.3986	80/20	0.3986
315043	1FOUR RIVERA	3.1016	80/20	3.1016
315044	1FOUR RIVERB	3.1016	80/20	3.1016
315045	1FOUR RIVERC	3.7909	80/20	3.7909
315046	1FOUR RIVERD	3.1016	80/20	3.1016
315047	1FOUR RIVERE	3.1016	80/20	3.1016
315048	1FOUR RIVERF	3.7909	80/20	3.7909
315050	1FOURRIVERG	4.6424	80/20	4.6424
315051	1AA1-145 CT1	4.8822	80/20	4.8822
315052	1AA1-145 CT2	4.8822	80/20	4.8822
315058	1CHESTF3 (Deactivation : 13/12/2018)	16.7790	80/20	16.7790
315059	1CHESTF4 (Deactivation : 13/12/2018)	27.1988	80/20	27.1988
315060	1CHESTF5 (Deactivation : 31/05/2023)	56.3255	80/20	56.3255
315061	1CHESTG7	3.3185	80/20	3.3185
315062	1CHESTS7	1.5234	80/20	1.5234
315063	1CHESTG8	3.2651	80/20	3.2651
315064	1CHESTS8	1.6808	80/20	1.6808
315065	1CHESTF6 (Deactivation : 31/05/2023)	92.0429	Adder	108.29
315067	1DARBY 1	2.4776	80/20	2.4776
315068	1DARBY 2	2.4805	80/20	2.4805
315069	1DARBY 3	2.4892	80/20	2.4892
315070	1DARBY 4	2.4921	80/20	2.4921
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0130	Adder	0.02
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0130	Adder	0.02
315083	1SPRUNCA (Deactivation : 12/01/2021)	7.9136	Adder	9.31
315084	1SPRUNCB (Deactivation : 12/01/2021)	7.9136	Adder	9.31
316075	AC2-137 C	0.3008	80/20	0.3008
316083	AB2-161 C	2.1232	Adder	2.5
316103	AB2-015 C	4.3839	Adder	5.16
316108	AB2-160 C	3.8122	Adder	4.48

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	31.9131	Adder	37.54
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	31.9131	Adder	37.54
316114	AB2-068 ST (Withdrawn : 01/11/2021)	55.2860	Adder	65.04
316132	AB2-190 C	13.5146	Adder	15.9
316134	AC1-107 G1	59.9269	Adder	70.5
316135	AC1-107 G2	59.9269	Adder	70.5
316136	AC1-107 G3	59.9382	Adder	70.52
925863	AC1-065 C	4.9781	Adder	5.86
926754	AC1-161 C	15.7567	Adder	18.54
926784	AC1-164 C	29.4977	Adder	34.7
927044	AC1-191 C	11.1083	80/20	11.1083
932044	AC2-012 C	5.4753	Adder	6.44
932501	AC2-070 C (Withdrawn : 01/22/2021)	0.2822	80/20	0.2822
932581	AC2-078 C O1	2.5595	Adder	3.01
932591	AC2-079 C O1	3.3704	Adder	3.97
933294	AC2-141 C	15.7567	Adder	18.54
933991	AD1-023 C	6.3502	Adder	7.47
934014	AD1-025 C	11.1497	Adder	13.12
934061	AD1-033 C	3.9781	Adder	4.68
934141	AD1-041 C	3.5195	Adder	4.14
934521	AD1-076 C	26.4390	Adder	31.1
934575	AD1-082 C	4.8388	Adder	5.69
934781	AD1-105 C	7.5069	80/20	7.5069
935164	AD1-151 C	10.8599	Adder	12.78
936041	AD2-007 C	0.5326	Adder	0.63
936051	AD2-008 C	1.9411	Adder	2.28
936151	AD2-021	0.0343	80/20	0.0343
936581	AD2-073 C	1.1801	Adder	1.39
936591	AD2-074 C	3.3700	Adder	3.96
936661	AD2-085 C	1.9517	Adder	2.3
936761	AD2-097 C	1.5009	Adder	1.77
937221	AD2-160 C O1	3.0844	Adder	3.63
938535	AE1-072 C	9.2607	Adder	10.89
938634	AE1-085 C	5.6346	Adder	6.63
938771	AE1-103 C	1.8889	Adder	2.22
939195	AE1-149 C	6.8932	Adder	8.11
939245	AE1-155 C	7.7061	Adder	9.07
939414	AE1-173_C1	14.0744	Adder	16.56
939415	AE1-173_C2	12.0637	Adder	14.19
939416	AE1-173_C3	14.0744	Adder	16.56
939431	AE1-175 C	1.5443	Adder	1.82
939611	AE1-191 C	7.0390	Adder	8.28
939755	AE1-206 C	33.3912	80/20	33.3912
940061	AE2-000BC O1	6.6535	Adder	7.83
940231	AE2-005 C	0.9051	Adder	1.06
940251	AE2-007_O1 (Withdrawn : 12/11/2020)	92.7570	Adder	109.13
940431	AE2-027 C O1	9.5148	Adder	11.19
940481	AE2-033 C	8.4168	Adder	9.9

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940491	AE2-034 C	3.5664	Adder	4.2
940541	AE2-040	1.5052	Adder	1.77
940551	AE2-041	4.7852	Adder	5.63
940651	AE2-052	2.2977	Adder	2.7
940891	AE2-078 C	1.4390	Adder	1.69
940901	AE2-079 C	1.4390	Adder	1.69
941101	AE2-104 C O1	1.8121	Adder	2.13
941281	AE2-122 C O1	15.1327	Adder	17.8
941291	AE2-123 C O1	15.5517	Adder	18.3
941301	AE2-124 C O1	14.1296	Adder	16.62
941501	AE2-147 C	8.2299	Adder	9.68
941581	AE2-155 C	0.1074	80/20	0.1074
941591	AE2-156 O1	9.5999	Adder	11.29
942001	AE2-212 C	1.5226	Adder	1.79
942131	AE2-225 C	1.1317	Adder	1.33
942151	AE2-227 C	2.0350	80/20	2.0350
942161	AE2-228 C	1.6015	Adder	1.88
942171	AE2-229 C	0.8488	Adder	1.0
942191	AE2-231 C O1	2.2229	Adder	2.62
942341	AE2-247 C	0.8465	Adder	1.0
942371	AE2-250 C O1	6.7716	Adder	7.97
942401	AE2-253 C	3.2442	Adder	3.82
942471	AE2-260 C O1	7.1975	Adder	8.47
942551	AE2-270	17.9099	Adder	21.07
943431	AF1-014 C	0.8575	Adder	1.01
943461	AF1-017 C	0.7659	Adder	0.9
943471	AF1-018	4.7852	Adder	5.63
943601	AF1-031 C	10.0284	80/20	10.0284
943611	AF1-032 C	0.9242	Adder	1.09
943621	AF1-033 C	1.4390	Adder	1.69
943741	AF1-042 C	1.7634	Adder	2.07
943991	AF1-067 C	4.9572	80/20	4.9572
944581	AF1-123 C O1	25.2045	Adder	29.65
944591	AF1-124 C O1	25.2045	Adder	29.65
944601	AF1-125 C O1	25.2045	Adder	29.65
944631	AF1-128 O1	49.3894	80/20	49.3894
944641	AF1-129	77.2341	Adder	90.86
944871	AF1-152 C	2.7433	Adder	3.23
945361	AF1-201 C O1	9.8953	Adder	11.64
945711	AF1-236 C O1	39.0439	Adder	45.93
946001	AF1-265	29.2905	80/20	29.2905
946011	AF1-266	7.0455	Adder	8.29
946261	AF1-291 C	1.6021	Adder	1.88
957411	AF2-035 C	4.0416	Adder	4.75
957491	AF2-043 C	1.1317	Adder	1.33
957531	AF2-047 C	8.4745	Adder	9.97
957601	AF2-054 C	1.3733	Adder	1.62
957631	AF2-057	1.9212	Adder	2.26
957711	AF2-065 C	9.1341	Adder	10.75
957821	AF2-076 C	2.7894	Adder	3.28
957831	AF2-077 C	1.3337	Adder	1.57
957871	AF2-081 C	5.2522	Adder	6.18

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957911	AF2-085	2.0679	Adder	2.43
958141	AF2-108	1.1942	Adder	1.4
958161	AF2-110 C	0.7471	Adder	0.88
958261	AF2-120 C	3.7742	Adder	4.44
959641	AF2-255 C	0.5087	80/20	0.5087
959651	AF2-256 C	0.4004	Adder	0.47
959661	AF2-257 C	0.4005	Adder	0.47
959671	AF2-258 C	0.3806	Adder	0.45
959681	AF2-259 C	1.7914	Adder	2.11
960091	AF2-300 C	1.0104	Adder	1.19
961091	AF2-400 C	0.2367	Adder	0.28
961611	AG1-000B C	5.2476	Adder	11.65
961711	AG1-011	10.0371	Adder	22.28
961851	AG1-027 C	4.7866	Adder	10.63
961951	AG1-038 C	1.0330	Adder	2.29
962131	AG1-057	1.2681	Adder	2.81
962191	AG1-064 C	1.4189	80/20	1.4189
962201	AG1-065 C	1.4189	80/20	1.4189
962271	AG1-075 C O1	6.1943	Adder	13.75
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.6933	Adder	1.54
962531	AG1-102 C	0.3628	Adder	0.81
962851	AG1-134 C	9.9144	80/20	9.9144
962861	AG1-135 C	1.9491	Adder	4.33
962961	AG1-145 C	0.7385	Adder	1.64
962971	AG1-146 C	1.0161	Adder	2.26
962981	AG1-147 C	2.3708	Adder	5.26
963221	AG1-171 C	0.7674	Adder	1.7
963231	AG1-172 C	0.7674	Adder	1.7
963241	AG1-173 C	0.7674	Adder	1.7
963251	AG1-174 C	0.7674	Adder	1.7
963261	AG1-175 C	0.7674	Adder	1.7
963291	AG1-178 C O1	8.9423	Adder	19.85
963341	AG1-183 C	1.5851	Adder	3.52
963351	AG1-184 O1	7.5521	Adder	16.76
963381	AG1-187	0.6462	Adder	1.43
963611	AG1-210 C	0.2030	Adder	0.45
963621	AG1-213 C	0.1785	Adder	0.4
963821	AG1-235 C O1	6.7507	Adder	14.98
964021	AG1-256 C	0.3928	Adder	0.87
964211	AG1-282 C	0.6351	Adder	1.41
964801	AG1-343 C	1.5242	Adder	3.38
964951	AG1-359 O1	7.5231	Adder	16.7
965001	AG1-364 C O1	2.0355	Adder	4.52
965181	AG1-383 C	0.7721	Adder	1.71
965231	AG1-388 C	0.6351	Adder	1.41
965291	AG1-394 C	0.5238	Adder	1.16
965631	AG1-431	11.9803	Adder	26.59
966491	AG1-518 O1	2.4991	Adder	5.55
966611	AG1-531 C	2.0699	Adder	4.59
966661	AG1-536 C	1.7197	Adder	3.82
966711	AG1-541 C	1.4280	Adder	3.17
966731	AG1-544 C	2.3324	Adder	5.18

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966741	AG1-545 C	0.7762	Adder	1.72
966871	AG1-558 C	2.4962	80/20	2.4962
966881	AG1-559 C	0.5355	Adder	1.19
966931	AG1-431A	9.0010	Adder	19.98
WEC	WEC	0.0706	Confirmed LTF	0.0706
LGEE	LGEE	0.1508	Confirmed LTF	0.1508
CPL	CPL	3.2849	Confirmed LTF	3.2849
CBM-W2	CBM-W2	7.5085	Confirmed LTF	7.5085
NY	NY	0.7034	Confirmed LTF	0.7034
TVA	TVA	1.6744	Confirmed LTF	1.6744
SIGE	SIGE	0.1759	Confirmed LTF	0.1759
CBM-S2	CBM-S2	36.1224	Confirmed LTF	36.1224
CBM-S1	CBM-S1	0.3884	Confirmed LTF	0.3884
MEC	MEC	0.6912	Confirmed LTF	0.6912
LAGN	LAGN	2.0913	Confirmed LTF	2.0913
AA2-074	AA2-074	2.1654	LTF	2.1654
CBM-W1	CBM-W1	2.3273	Confirmed LTF	2.3273

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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
168825909	314225	6CHARCTY	DVP	314227	6LAKESIDE	DVP	1	DVP_P1-2: LN 563	single	984.18	113.56	113.97	DC	12.2

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.1055	80/20	3.1055
314314	3LOCKS	0.2000	80/20	0.2000
314435	6SAPONY	0.2483	80/20	0.2483
314572	3EMPORIA	0.2029	80/20	0.2029
314704	3LAWRENC	0.1265	80/20	0.1265
315065	1CHESTF6 (Deactivation : 31/05/2023)	157.0208	80/20	157.0208
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0126	80/20	0.0126
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0126	80/20	0.0126
315076	1HOPPOLC	1.0533	80/20	1.0533
315077	1HOPHCF1	1.6464	80/20	1.6464
315078	1HOPHCF2	1.6464	80/20	1.6464
315079	1HOPHCF3	1.6464	80/20	1.6464
315080	1HOPHCF4	2.4994	80/20	2.4994
315083	1SPRUNCA (Deactivation : 12/01/2021)	2.8328	Adder	3.33
315084	1SPRUNCB (Deactivation : 12/01/2021)	2.8328	Adder	3.33
315116	1SURRY 1	10.4803	80/20	10.4803
315117	1GRAVELC	0.3673	80/20	0.3673
315119	1GRAVEL3	1.0647	80/20	1.0647
315120	1GRAVEL4	1.0783	80/20	1.0783
315121	1GRAVEL5	1.0647	80/20	1.0647
315122	1GRAVEL6	1.0771	80/20	1.0771
315126	1ROARAP2	0.5492	80/20	0.5492
315128	1ROARAP4	0.5240	80/20	0.5240
315136	1ROSEMG1	0.8839	80/20	0.8839
315137	1ROSEMS1	0.5481	80/20	0.5481
315138	1ROSEMG2	0.4143	80/20	0.4143
315139	1GASTONA	1.3091	80/20	1.3091
315141	1GASTONB	1.3091	80/20	1.3091
315293	1DOMTR9	2.0936	Adder	2.46
315294	1DOMTR10	2.5657	Adder	3.02
315607	3AA1-063SOLA	0.5527	80/20	0.5527
316033	AB2-134 C	1.1304	80/20	1.1304
316083	AB2-161 C	2.3374	80/20	2.3374
316087	AB2-174 C	0.5198	80/20	0.5198
316096	AB2-100 C1	0.4933	80/20	0.4933
316098	AB2-100 C2	0.4933	80/20	0.4933
316103	AB2-015 C	3.4445	80/20	3.4445

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316108	AB2-160 C	3.8535	80/20	3.8535
316129	AC1-054 C	2.2540	Adder	2.65
316132	AB2-190 C	11.7734	80/20	11.7734
316140	AB2-099 C (Suspended)	0.1933	Adder	0.23
316258	AE1-162 C	0.1353	80/20	0.1353
923991	AB2-040 C O1	3.3823	80/20	3.3823
926070	AC1-086 C	9.3307	80/20	9.3307
926201	AC1-098 C	2.0020	Adder	2.36
926211	AC1-099 C	0.6709	Adder	0.79
927145	AC1-208 C	2.9657	Adder	3.49
927225	AC1-216 C	0.8629	80/20	0.8629
932044	AC2-012 C	2.9065	Adder	3.42
932581	AC2-078 C O1	2.8436	80/20	2.8436
932591	AC2-079 C O1	3.1774	80/20	3.1774
932631	AC2-084 C	2.8539	Adder	3.36
933991	AD1-023 C	4.0849	Adder	4.81
934014	AD1-025 C	9.4002	80/20	9.4002
934061	AD1-033 C	2.0956	Adder	2.47
934331	AD1-057 C O1	3.3811	Adder	3.98
934521	AD1-076 C	16.7128	Adder	19.66
934575	AD1-082 C	5.3268	80/20	5.3268
935164	AD1-151 C	9.4608	80/20	9.4608
936041	AD2-007 C	0.4491	80/20	0.4491
936051	AD2-008 C	1.6366	80/20	1.6366
936401	AD2-051 C O1	2.8363	Adder	3.34
936661	AD2-085 C	1.6719	80/20	1.6719
936761	AD2-097 C	0.5373	Adder	0.63
937221	AD2-160 C O1	1.6419	Adder	1.93
938494	AE1-068_C1	8.5011	Adder	10.0
938497	AE1-068_C2	8.5011	Adder	10.0
938504	AE1-069_C1	6.4788	Adder	7.62
938507	AE1-069_C2	6.9857	Adder	8.22
938535	AE1-072 C	4.9749	Adder	5.85
938634	AE1-085 C	6.3085	80/20	6.3085
938771	AE1-103 C	1.4524	80/20	1.4524
939195	AE1-149 C	8.0064	80/20	8.0064
939414	AE1-173_C1	8.7893	Adder	10.34
939415	AE1-173_C2	7.5337	Adder	8.86
939416	AE1-173_C3	8.7893	Adder	10.34
940061	AE2-000BC O1	7.2096	80/20	7.2096
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	49.0351	Adder	57.69
940431	AE2-027 C O1	6.5470	80/20	6.5470
940471	AE2-031 C	9.2526	Adder	10.89
940481	AE2-033 C	9.9066	80/20	9.9066
940491	AE2-034 C	2.1784	Adder	2.56
940541	AE2-040	1.7903	80/20	1.7903
940641	AE2-051 C O1	4.7958	Adder	5.64
940651	AE2-052	2.6688	80/20	2.6688
940891	AE2-078 C	0.9776	80/20	0.9776
940901	AE2-079 C	0.9776	80/20	0.9776
941031	AE2-094 C	11.1325	Adder	13.1
941101	AE2-104 C O1	1.3219	80/20	1.3219

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941281	AE2-122 C O1	8.0026	Adder	9.41
941291	AE2-123 C O1	8.2242	Adder	9.68
941301	AE2-124 C O1	7.4687	Adder	8.79
941501	AE2-147 C	4.6206	Adder	5.44
941591	AE2-156 O1	5.0864	Adder	5.98
942001	AE2-212 C	2.3497	80/20	2.3497
942131	AE2-225 C	0.6231	Adder	0.73
942161	AE2-228 C	2.6681	80/20	2.6681
942171	AE2-229 C	0.4673	Adder	0.55
942341	AE2-247 C	0.7267	80/20	0.7267
942371	AE2-250 C O1	6.8450	80/20	6.8450
942401	AE2-253 C	1.7269	Adder	2.03
942471	AE2-260 C O1	7.9028	80/20	7.9028
942551	AE2-270	15.3270	80/20	15.3270
942931	AE2-313 C	10.0023	Adder	11.77
943171	AE2-346 C	0.4638	Adder	0.55
943461	AF1-017 C	0.6575	80/20	0.6575
943611	AF1-032 C	0.5089	Adder	0.6
943621	AF1-033 C	0.9776	80/20	0.9776
943911	AF1-059	5.3990	Adder	6.35
944011	AF1-069 C	3.6374	Adder	4.28
944641	AF1-129	131.7576	80/20	131.7576
944871	AF1-152 C	1.5402	Adder	1.81
945711	AF1-236 C O1	23.8484	Adder	28.06
946011	AF1-266	8.2926	80/20	8.2926
946261	AF1-291 C	2.6858	80/20	2.6858
946281	AF1-292 C	0.7377	80/20	0.7377
957491	AF2-043 C	0.6231	Adder	0.73
957521	AF2-046 C	5.6522	Adder	6.65
957531	AF2-047 C	5.1763	Adder	6.09
957631	AF2-057	1.0198	Adder	1.2
957711	AF2-065 C	7.8168	80/20	7.8168
957821	AF2-076 C	1.5632	Adder	1.84
957871	AF2-081 C	2.8084	Adder	3.3
958141	AF2-108	1.6576	80/20	1.6576
958161	AF2-110 C	0.5450	80/20	0.5450
959511	AF2-242 C	2.2392	Adder	2.63
959651	AF2-256 C	0.6670	80/20	0.6670
959661	AF2-257 C	0.6715	80/20	0.6715
959671	AF2-258 C	0.5874	80/20	0.5874
959681	AF2-259 C	2.4864	80/20	2.4864
960081	AF2-299 C	1.2434	80/20	1.2434
961091	AF2-400 C	0.1860	80/20	0.1860
961611	AG1-000B C	7.4164	80/20	7.4164
961681	AG1-008 C	3.0017	Adder	6.66
961711	AG1-011	15.9664	80/20	15.9664
961851	AG1-027 C	6.7224	80/20	6.7224
961931	AG1-036 C	0.2399	Adder	0.53
961941	AG1-037 C	0.0878	Adder	0.19
962271	AG1-075 C O1	11.8140	80/20	11.8140
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.8887	80/20	0.8887
962331	AG1-082 C	0.3512	Adder	0.78

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962341	AG1-083 C	0.3512	Adder	0.78
962351	AG1-084 C	0.3041	Adder	0.68
962361	AG1-085 C	0.3041	Adder	0.68
962571	AG1-106 C	2.5948	80/20	2.5948
963041	AG1-153 C	0.8210	Adder	1.82
963111	AG1-160 C	0.8317	Adder	1.85
963221	AG1-171 C	1.2614	80/20	1.2614
963231	AG1-172 C	1.2614	80/20	1.2614
963241	AG1-173 C	1.2614	80/20	1.2614
963251	AG1-174 C	1.2614	80/20	1.2614
963261	AG1-175 C	1.2614	80/20	1.2614
963291	AG1-178 C O1	9.0130	Adder	20.01
963301	AG1-179 C	2.3555	80/20	2.3555
963311	AG1-180	1.1477	80/20	1.1477
963351	AG1-184 O1	4.8557	Adder	10.78
963821	AG1-235 C O1	3.5724	Adder	7.93
964491	AG1-312 C O1	3.1863	Adder	7.07
964501	AG1-313 C O1	0.8370	Adder	1.86
964801	AG1-343 C	1.0727	Adder	2.38
964951	AG1-359 O1	3.9606	Adder	8.79
965001	AG1-364 C O1	1.0787	Adder	2.39
965181	AG1-383 C	0.4081	Adder	0.91
965291	AG1-394 C	0.3690	Adder	0.82
965451	AG1-413 C O1	1.2029	Adder	2.67
965601	AG1-428 C O1	1.9664	80/20	1.9664
965631	AG1-431	7.3177	Adder	16.24
965691	AG1-437 C O1	1.6832	Adder	3.74
965701	AG1-438 C O1	1.6832	Adder	3.74
965741	AG1-442 O1	0.9818	Adder	2.18
965751	AG1-443 O1	0.9818	Adder	2.18
965811	AG1-449	3.4384	Adder	7.63
966361	AG1-505 C	2.3990	Adder	5.33
966371	AG1-506 C	2.3990	Adder	5.33
966491	AG1-518 O1	1.3761	Adder	3.05
966611	AG1-531 C	1.0165	Adder	2.26
966621	AG1-532 C	0.6714	80/20	0.6714
966731	AG1-544 C	4.9269	80/20	4.9269
966741	AG1-545 C	1.6339	80/20	1.6339
966751	AG1-546 C	2.6651	Adder	5.92
966801	AG1-551 C	0.3651	Adder	0.81
966811	AG1-552 C	0.8719	80/20	0.8719
966931	AG1-431A	5.4979	Adder	12.2
WEC	WEC	0.1972	Confirmed LTF	0.1972
LGEE	LGEE	0.4090	Confirmed LTF	0.4090
CPL	CPL	2.5573	Confirmed LTF	2.5573
CBM-W2	CBM-W2	9.5514	Confirmed LTF	9.5514
NY	NY	0.4568	Confirmed LTF	0.4568
TVA	TVA	1.8564	Confirmed LTF	1.8564
SIGE	SIGE	0.1720	Confirmed LTF	0.1720
CBM-S2	CBM-S2	29.8480	Confirmed LTF	29.8480
CBM-S1	CBM-S1	0.4571	Confirmed LTF	0.4571
MEC	MEC	1.2378	Confirmed LTF	1.2378

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	2.3065	Confirmed LTF	2.3065
AA2-074	AA2-074	1.6884	LTF	1.6884
CBM-W1	CBM-W1	8.1036	Confirmed LTF	8.1036

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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
168825897	314260	6VARINA	DVP	314225	6CHARCTY	DVP	1	DVP_P1-2: LN 563	single	984.18	116.97	117.38	DC	12.2

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.1055	80/20	3.1055
314314	3LOCKS	0.2000	80/20	0.2000
314435	6SAPONY	0.2483	80/20	0.2483
314572	3EMPORIA	0.2029	80/20	0.2029
314704	3LAWRENC	0.1265	80/20	0.1265
315065	1CHESTF6 (Deactivation : 31/05/2023)	157.0208	80/20	157.0208
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0126	80/20	0.0126
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0126	80/20	0.0126
315076	1HOPPOLC	1.0533	80/20	1.0533
315077	1HOPHCF1	1.6464	80/20	1.6464
315078	1HOPHCF2	1.6464	80/20	1.6464
315079	1HOPHCF3	1.6464	80/20	1.6464
315080	1HOPHCF4	2.4994	80/20	2.4994
315083	1SPRUNCA (Deactivation : 12/01/2021)	2.8328	Adder	3.33
315084	1SPRUNCB (Deactivation : 12/01/2021)	2.8328	Adder	3.33
315116	1SURRY 1	10.4803	80/20	10.4803
315117	1GRAVELC	0.3673	80/20	0.3673
315119	1GRAVEL3	1.0647	80/20	1.0647
315120	1GRAVEL4	1.0783	80/20	1.0783
315121	1GRAVEL5	1.0647	80/20	1.0647
315122	1GRAVEL6	1.0771	80/20	1.0771
315126	1ROARAP2	0.5492	80/20	0.5492
315128	1ROARAP4	0.5240	80/20	0.5240
315136	1ROSEMG1	0.8839	80/20	0.8839
315137	1ROSEMS1	0.5481	80/20	0.5481
315138	1ROSEMG2	0.4143	80/20	0.4143
315139	1GASTONA	1.3091	80/20	1.3091
315141	1GASTONB	1.3091	80/20	1.3091
315293	1DOMTR9	2.0936	Adder	2.46
315294	1DOMTR10	2.5657	Adder	3.02
315607	3AA1-063SOLA	0.5527	80/20	0.5527
316033	AB2-134 C	1.1304	80/20	1.1304
316083	AB2-161 C	2.3374	80/20	2.3374
316087	AB2-174 C	0.5198	80/20	0.5198
316096	AB2-100 C1	0.4933	80/20	0.4933
316098	AB2-100 C2	0.4933	80/20	0.4933
316103	AB2-015 C	3.4445	80/20	3.4445

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316108	AB2-160 C	3.8535	80/20	3.8535
316129	AC1-054 C	2.2540	Adder	2.65
316132	AB2-190 C	11.7734	80/20	11.7734
316140	AB2-099 C (Suspended)	0.1933	Adder	0.23
316258	AE1-162 C	0.1353	80/20	0.1353
923991	AB2-040 C O1	3.3823	80/20	3.3823
926070	AC1-086 C	9.3307	80/20	9.3307
926201	AC1-098 C	2.0020	Adder	2.36
926211	AC1-099 C	0.6709	Adder	0.79
927145	AC1-208 C	2.9657	Adder	3.49
927225	AC1-216 C	0.8629	80/20	0.8629
932044	AC2-012 C	2.9065	Adder	3.42
932581	AC2-078 C O1	2.8436	80/20	2.8436
932591	AC2-079 C O1	3.1774	80/20	3.1774
932631	AC2-084 C	2.8539	Adder	3.36
933991	AD1-023 C	4.0849	Adder	4.81
934014	AD1-025 C	9.4002	80/20	9.4002
934061	AD1-033 C	2.0956	Adder	2.47
934331	AD1-057 C O1	3.3811	Adder	3.98
934521	AD1-076 C	16.7128	Adder	19.66
934575	AD1-082 C	5.3268	80/20	5.3268
935164	AD1-151 C	9.4608	80/20	9.4608
936041	AD2-007 C	0.4491	80/20	0.4491
936051	AD2-008 C	1.6366	80/20	1.6366
936401	AD2-051 C O1	2.8363	Adder	3.34
936661	AD2-085 C	1.6719	80/20	1.6719
936761	AD2-097 C	0.5373	Adder	0.63
937221	AD2-160 C O1	1.6419	Adder	1.93
938494	AE1-068_C1	8.5011	Adder	10.0
938497	AE1-068_C2	8.5011	Adder	10.0
938504	AE1-069_C1	6.4788	Adder	7.62
938507	AE1-069_C2	6.9857	Adder	8.22
938535	AE1-072 C	4.9749	Adder	5.85
938634	AE1-085 C	6.3085	80/20	6.3085
938771	AE1-103 C	1.4524	80/20	1.4524
939195	AE1-149 C	8.0064	80/20	8.0064
939414	AE1-173_C1	8.7893	Adder	10.34
939415	AE1-173_C2	7.5337	Adder	8.86
939416	AE1-173_C3	8.7893	Adder	10.34
940061	AE2-000BC O1	7.2096	80/20	7.2096
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	49.0351	Adder	57.69
940431	AE2-027 C O1	6.5470	80/20	6.5470
940471	AE2-031 C	9.2526	Adder	10.89
940481	AE2-033 C	9.9066	80/20	9.9066
940491	AE2-034 C	2.1784	Adder	2.56
940541	AE2-040	1.7903	80/20	1.7903
940641	AE2-051 C O1	4.7958	Adder	5.64
940651	AE2-052	2.6688	80/20	2.6688
940891	AE2-078 C	0.9776	80/20	0.9776
940901	AE2-079 C	0.9776	80/20	0.9776
941031	AE2-094 C	11.1325	Adder	13.1
941101	AE2-104 C O1	1.3219	80/20	1.3219

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941281	AE2-122 C O1	8.0026	Adder	9.41
941291	AE2-123 C O1	8.2242	Adder	9.68
941301	AE2-124 C O1	7.4687	Adder	8.79
941501	AE2-147 C	4.6206	Adder	5.44
941591	AE2-156 O1	5.0864	Adder	5.98
942001	AE2-212 C	2.3497	80/20	2.3497
942131	AE2-225 C	0.6231	Adder	0.73
942161	AE2-228 C	2.6681	80/20	2.6681
942171	AE2-229 C	0.4673	Adder	0.55
942341	AE2-247 C	0.7267	80/20	0.7267
942371	AE2-250 C O1	6.8450	80/20	6.8450
942401	AE2-253 C	1.7269	Adder	2.03
942471	AE2-260 C O1	7.9028	80/20	7.9028
942551	AE2-270	15.3270	80/20	15.3270
942931	AE2-313 C	10.0023	Adder	11.77
943171	AE2-346 C	0.4638	Adder	0.55
943461	AF1-017 C	0.6575	80/20	0.6575
943611	AF1-032 C	0.5089	Adder	0.6
943621	AF1-033 C	0.9776	80/20	0.9776
943911	AF1-059	5.3990	Adder	6.35
944011	AF1-069 C	3.6374	Adder	4.28
944641	AF1-129	131.7576	80/20	131.7576
944871	AF1-152 C	1.5402	Adder	1.81
945711	AF1-236 C O1	23.8484	Adder	28.06
946011	AF1-266	8.2926	80/20	8.2926
946261	AF1-291 C	2.6858	80/20	2.6858
946281	AF1-292 C	0.7377	80/20	0.7377
957491	AF2-043 C	0.6231	Adder	0.73
957521	AF2-046 C	5.6522	Adder	6.65
957531	AF2-047 C	5.1763	Adder	6.09
957631	AF2-057	1.0198	Adder	1.2
957711	AF2-065 C	7.8168	80/20	7.8168
957821	AF2-076 C	1.5632	Adder	1.84
957871	AF2-081 C	2.8084	Adder	3.3
958141	AF2-108	1.6576	80/20	1.6576
958161	AF2-110 C	0.5450	80/20	0.5450
959511	AF2-242 C	2.2392	Adder	2.63
959651	AF2-256 C	0.6670	80/20	0.6670
959661	AF2-257 C	0.6715	80/20	0.6715
959671	AF2-258 C	0.5874	80/20	0.5874
959681	AF2-259 C	2.4864	80/20	2.4864
960081	AF2-299 C	1.2434	80/20	1.2434
961091	AF2-400 C	0.1860	80/20	0.1860
961611	AG1-000B C	7.4164	80/20	7.4164
961681	AG1-008 C	3.0017	Adder	6.66
961711	AG1-011	15.9664	80/20	15.9664
961851	AG1-027 C	6.7224	80/20	6.7224
961931	AG1-036 C	0.2399	Adder	0.53
961941	AG1-037 C	0.0878	Adder	0.19
962271	AG1-075 C O1	11.8140	80/20	11.8140
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.8887	80/20	0.8887
962331	AG1-082 C	0.3512	Adder	0.78

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962341	AG1-083 C	0.3512	Adder	0.78
962351	AG1-084 C	0.3041	Adder	0.68
962361	AG1-085 C	0.3041	Adder	0.68
962571	AG1-106 C	2.5948	80/20	2.5948
963041	AG1-153 C	0.8210	Adder	1.82
963111	AG1-160 C	0.8317	Adder	1.85
963221	AG1-171 C	1.2614	80/20	1.2614
963231	AG1-172 C	1.2614	80/20	1.2614
963241	AG1-173 C	1.2614	80/20	1.2614
963251	AG1-174 C	1.2614	80/20	1.2614
963261	AG1-175 C	1.2614	80/20	1.2614
963291	AG1-178 C O1	9.0130	Adder	20.01
963301	AG1-179 C	2.3555	80/20	2.3555
963311	AG1-180	1.1477	80/20	1.1477
963351	AG1-184 O1	4.8557	Adder	10.78
963821	AG1-235 C O1	3.5724	Adder	7.93
964491	AG1-312 C O1	3.1863	Adder	7.07
964501	AG1-313 C O1	0.8370	Adder	1.86
964801	AG1-343 C	1.0727	Adder	2.38
964951	AG1-359 O1	3.9606	Adder	8.79
965001	AG1-364 C O1	1.0787	Adder	2.39
965181	AG1-383 C	0.4081	Adder	0.91
965291	AG1-394 C	0.3690	Adder	0.82
965451	AG1-413 C O1	1.2029	Adder	2.67
965601	AG1-428 C O1	1.9664	80/20	1.9664
965631	AG1-431	7.3177	Adder	16.24
965691	AG1-437 C O1	1.6832	Adder	3.74
965701	AG1-438 C O1	1.6832	Adder	3.74
965741	AG1-442 O1	0.9818	Adder	2.18
965751	AG1-443 O1	0.9818	Adder	2.18
965811	AG1-449	3.4384	Adder	7.63
966361	AG1-505 C	2.3990	Adder	5.33
966371	AG1-506 C	2.3990	Adder	5.33
966491	AG1-518 O1	1.3761	Adder	3.05
966611	AG1-531 C	1.0165	Adder	2.26
966621	AG1-532 C	0.6714	80/20	0.6714
966731	AG1-544 C	4.9269	80/20	4.9269
966741	AG1-545 C	1.6339	80/20	1.6339
966751	AG1-546 C	2.6651	Adder	5.92
966801	AG1-551 C	0.3651	Adder	0.81
966811	AG1-552 C	0.8719	80/20	0.8719
966931	AG1-431A	5.4979	Adder	12.2
WEC	WEC	0.1972	Confirmed LTF	0.1972
LGEE	LGEE	0.4090	Confirmed LTF	0.4090
CPL	CPL	2.5573	Confirmed LTF	2.5573
CBM-W2	CBM-W2	9.5514	Confirmed LTF	9.5514
NY	NY	0.4568	Confirmed LTF	0.4568
TVA	TVA	1.8564	Confirmed LTF	1.8564
SIGE	SIGE	0.1720	Confirmed LTF	0.1720
CBM-S2	CBM-S2	29.8480	Confirmed LTF	29.8480
CBM-S1	CBM-S1	0.4571	Confirmed LTF	0.4571
MEC	MEC	1.2378	Confirmed LTF	1.2378

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	2.3065	Confirmed LTF	2.3065
AA2-074	AA2-074	1.6884	LTF	1.6884
CBM-W1	CBM-W1	8.1036	Confirmed LTF	8.1036

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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
168825653	314287	6CHESTF B	DVP	314276	6BASIN	DVP	1	DVP_P1-2: LN 563	single	663.64	164.31	164.89	DC	12.33

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.1609	80/20	3.1609
314314	3LOCKS	0.1812	80/20	0.1812
314435	6SAPONY	0.2595	80/20	0.2595
314572	3EMPORIA	0.2071	80/20	0.2071
314704	3LAWRENC	0.1265	80/20	0.1265
315065	1CHESTF6 (Deactivation : 31/05/2023)	171.7627	80/20	171.7627
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0130	80/20	0.0130
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0130	80/20	0.0130
315076	1HOPPOLC	1.0898	80/20	1.0898
315077	1HOPHCF1	1.7034	80/20	1.7034
315078	1HOPHCF2	1.7034	80/20	1.7034
315079	1HOPHCF3	1.7034	80/20	1.7034
315080	1HOPHCF4	2.5859	80/20	2.5859
315116	1SURRY 1	10.5895	80/20	10.5895
315117	1GRAVELC	0.3711	80/20	0.3711
315119	1GRAVEL3	1.0758	80/20	1.0758
315120	1GRAVEL4	1.0895	80/20	1.0895
315121	1GRAVEL5	1.0758	80/20	1.0758
315122	1GRAVEL6	1.0883	80/20	1.0883
315126	1ROARAP2	0.5558	80/20	0.5558
315128	1ROARAP4	0.5304	80/20	0.5304
315136	1ROSEMG1	0.9037	80/20	0.9037
315137	1ROSEMS1	0.5604	80/20	0.5604
315138	1ROSEMG2	0.4235	80/20	0.4235
315139	1GASTONA	1.3401	80/20	1.3401
315141	1GASTONB	1.3401	80/20	1.3401
315293	1DOMTR9	2.1172	Adder	2.49
315294	1DOMTR10	2.5946	Adder	3.05
316033	AB2-134 C	1.1577	80/20	1.1577
316083	AB2-161 C	2.4206	80/20	2.4206
316087	AB2-174 C	0.5296	80/20	0.5296
316096	AB2-100 C1	0.5104	80/20	0.5104
316098	AB2-100 C2	0.5104	80/20	0.5104
316103	AB2-015 C	3.4915	80/20	3.4915
316108	AB2-160 C	3.4917	80/20	3.4917
316132	AB2-190 C	12.0882	80/20	12.0882
316140	AB2-099 C (Suspended)	0.1958	Adder	0.23
316258	AE1-162 C	0.1367	80/20	0.1367
923991	AB2-040 C O1	3.4426	80/20	3.4426

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926070	AC1-086 C	9.5521	80/20	9.5521
926201	AC1-098 C	2.0259	Adder	2.38
926211	AC1-099 C	0.6789	Adder	0.8
927145	AC1-208 C	3.0006	Adder	3.53
927225	AC1-216 C	0.8837	80/20	0.8837
932581	AC2-078 C O1	2.9460	80/20	2.9460
932591	AC2-079 C O1	3.2684	80/20	3.2684
932631	AC2-084 C	2.8880	Adder	3.4
933991	AD1-023 C	4.1331	Adder	4.86
934014	AD1-025 C	9.6272	80/20	9.6272
934331	AD1-057 C O1	3.4410	Adder	4.05
934521	AD1-076 C	16.9036	Adder	19.89
934575	AD1-082 C	5.5164	80/20	5.5164
935164	AD1-151 C	9.7137	80/20	9.7137
936041	AD2-007 C	0.4599	80/20	0.4599
936051	AD2-008 C	1.6761	80/20	1.6761
936401	AD2-051 C O1	2.8751	Adder	3.38
936661	AD2-085 C	1.7118	80/20	1.7118
936761	AD2-097 C	-2.4572	Adder	-2.89
938494	AE1-068_C1	8.5914	Adder	10.11
938497	AE1-068_C2	8.5914	Adder	10.11
938504	AE1-069_C1	6.5476	Adder	7.7
938507	AE1-069_C2	7.0599	Adder	8.31
938634	AE1-085 C	6.5375	80/20	6.5375
938771	AE1-103 C	1.4727	80/20	1.4727
939195	AE1-149 C	8.3088	80/20	8.3088
939414	AE1-173_C1	8.9050	Adder	10.48
939415	AE1-173_C2	7.6329	Adder	8.98
939416	AE1-173_C3	8.9050	Adder	10.48
940061	AE2-000BC O1	7.4610	80/20	7.4610
940471	AE2-031 C	9.3340	Adder	10.98
940481	AE2-033 C	10.3427	80/20	10.3427
940491	AE2-034 C	2.2016	Adder	2.59
940541	AE2-040	1.8713	80/20	1.8713
940641	AE2-051 C O1	4.8662	Adder	5.72
940651	AE2-052	2.7696	80/20	2.7696
940891	AE2-078 C	0.9797	80/20	0.9797
940901	AE2-079 C	0.9797	80/20	0.9797
941031	AE2-094 C	11.2699	Adder	13.26
941101	AE2-104 C O1	1.3412	80/20	1.3412
941501	AE2-147 C	4.6611	Adder	5.48
942001	AE2-212 C	2.5230	80/20	2.5230
942131	AE2-225 C	0.6279	Adder	0.74
942161	AE2-228 C	2.9064	80/20	2.9064
942171	AE2-229 C	0.4709	Adder	0.55
942341	AE2-247 C	0.7441	80/20	0.7441
942371	AE2-250 C O1	6.2024	80/20	6.2024
942471	AE2-260 C O1	8.1865	80/20	8.1865
942551	AE2-270	15.7155	80/20	15.7155
942931	AE2-313 C	10.0888	Adder	11.87
943171	AE2-346 C	0.4698	Adder	0.55
943461	AF1-017 C	0.6732	80/20	0.6732

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943611	AF1-032 C	0.5128	Adder	0.6
943621	AF1-033 C	0.9797	80/20	0.9797
943911	AF1-059	5.2683	Adder	6.2
944011	AF1-069 C	3.6823	Adder	4.33
944641	AF1-129	144.1277	80/20	144.1277
944871	AF1-152 C	1.5537	Adder	1.83
945711	AF1-236 C O1	24.1025	Adder	28.36
946011	AF1-266	8.6576	80/20	8.6576
946261	AF1-291 C	2.9323	80/20	2.9323
946281	AF1-292 C	0.7536	80/20	0.7536
957491	AF2-043 C	0.6279	Adder	0.74
957521	AF2-046 C	5.7260	Adder	6.74
957531	AF2-047 C	5.2315	Adder	6.15
957711	AF2-065 C	8.0149	80/20	8.0149
957821	AF2-076 C	1.5759	Adder	1.85
958141	AF2-108	1.7404	80/20	1.7404
958161	AF2-110 C	0.5529	80/20	0.5529
959651	AF2-256 C	0.7266	80/20	0.7266
959661	AF2-257 C	0.7331	80/20	0.7331
959671	AF2-258 C	0.6308	80/20	0.6308
959681	AF2-259 C	2.6106	80/20	2.6106
960081	AF2-299 C	1.2701	80/20	1.2701
961091	AF2-400 C	0.1885	80/20	0.1885
961611	AG1-000B C	7.5214	80/20	7.5214
961681	AG1-008 C	3.0409	Adder	6.75
961711	AG1-011	16.3520	80/20	16.3520
961851	AG1-027 C	6.8190	80/20	6.8190
961931	AG1-036 C	0.2430	Adder	0.54
961941	AG1-037 C	0.0889	Adder	0.2
962271	AG1-075 C O1	10.7050	80/20	10.7050
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.8906	80/20	0.8906
962331	AG1-082 C	0.3557	Adder	0.79
962341	AG1-083 C	0.3557	Adder	0.79
962351	AG1-084 C	0.3080	Adder	0.68
962361	AG1-085 C	0.3080	Adder	0.68
962571	AG1-106 C	2.6564	80/20	2.6564
963041	AG1-153 C	0.8277	Adder	1.84
963111	AG1-160 C	0.8397	Adder	1.86
963221	AG1-171 C	1.2952	80/20	1.2952
963231	AG1-172 C	1.2952	80/20	1.2952
963241	AG1-173 C	1.2952	80/20	1.2952
963251	AG1-174 C	1.2952	80/20	1.2952
963261	AG1-175 C	1.2952	80/20	1.2952
963291	AG1-178 C O1	9.1403	Adder	20.29
963301	AG1-179 C	1.0536	Adder	2.34
963311	AG1-180	0.5133	Adder	1.14
963351	AG1-184 O1	4.9243	Adder	10.93
964491	AG1-312 C O1	3.2282	Adder	7.17
964501	AG1-313 C O1	0.8475	Adder	1.88
964801	AG1-343 C	1.0867	Adder	2.41
965291	AG1-394 C	0.3738	Adder	0.83
965451	AG1-413 C O1	1.1737	Adder	2.61

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965601	AG1-428 C O1	0.8796	Adder	1.95
965631	AG1-431	7.3957	Adder	16.42
965691	AG1-437 C O1	1.7037	Adder	3.78
965701	AG1-438 C O1	1.7037	Adder	3.78
965741	AG1-442 O1	0.9938	Adder	2.21
965751	AG1-443 O1	0.9938	Adder	2.21
965811	AG1-449	3.4686	Adder	7.7
966491	AG1-518 O1	1.3866	Adder	3.08
966611	AG1-531 C	0.9927	Adder	2.2
966621	AG1-532 C	0.6858	80/20	0.6858
966731	AG1-544 C	5.1058	80/20	5.1058
966741	AG1-545 C	1.6929	80/20	1.6929
966811	AG1-552 C	0.8825	80/20	0.8825
966931	AG1-431A	5.5565	Adder	12.33
WEC	WEC	0.1978	Confirmed LTF	0.1978
LGEE	LGEE	0.4097	Confirmed LTF	0.4097
CPL	CPL	2.5471	Confirmed LTF	2.5471
CBM-W2	CBM-W2	9.5424	Confirmed LTF	9.5424
NY	NY	0.4474	Confirmed LTF	0.4474
TVA	TVA	1.8522	Confirmed LTF	1.8522
SIGE	SIGE	0.1700	Confirmed LTF	0.1700
CBM-S2	CBM-S2	29.7227	Confirmed LTF	29.7227
CBM-S1	CBM-S1	0.4564	Confirmed LTF	0.4564
MEC	MEC	1.2378	Confirmed LTF	1.2378
LAGN	LAGN	2.3013	Confirmed LTF	2.3013
AA2-074	AA2-074	1.6817	LTF	1.6817
CBM-W1	CBM-W1	8.1316	Confirmed LTF	8.1316

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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
168825890	314287	6CHESTF B	DVP	314260	6VARINA	DVP	1	DVP_P1-2: LN 563	single	984.18	117.33	117.74	DC	12.2

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.1055	80/20	3.1055
314314	3LOCKS	0.2000	80/20	0.2000
314435	6SAPONY	0.2483	80/20	0.2483
314572	3EMPORIA	0.2029	80/20	0.2029
314704	3LAWRENC	0.1265	80/20	0.1265
315065	1CHESTF6 (Deactivation : 31/05/2023)	157.0208	80/20	157.0208
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0126	80/20	0.0126
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0126	80/20	0.0126
315076	1HOPPOLC	1.0533	80/20	1.0533
315077	1HOPHCF1	1.6464	80/20	1.6464
315078	1HOPHCF2	1.6464	80/20	1.6464
315079	1HOPHCF3	1.6464	80/20	1.6464
315080	1HOPHCF4	2.4994	80/20	2.4994
315083	1SPRUNCA (Deactivation : 12/01/2021)	2.8328	Adder	3.33
315084	1SPRUNCB (Deactivation : 12/01/2021)	2.8328	Adder	3.33
315116	1SURRY 1	10.4803	80/20	10.4803
315117	1GRAVELC	0.3673	80/20	0.3673
315119	1GRAVEL3	1.0647	80/20	1.0647
315120	1GRAVEL4	1.0783	80/20	1.0783
315121	1GRAVEL5	1.0647	80/20	1.0647
315122	1GRAVEL6	1.0771	80/20	1.0771
315126	1ROARAP2	0.5492	80/20	0.5492
315128	1ROARAP4	0.5240	80/20	0.5240
315136	1ROSEMG1	0.8839	80/20	0.8839
315137	1ROSEMS1	0.5481	80/20	0.5481
315138	1ROSEMG2	0.4143	80/20	0.4143
315139	1GASTONA	1.3091	80/20	1.3091
315141	1GASTONB	1.3091	80/20	1.3091
315293	1DOMTR9	2.0936	Adder	2.46
315294	1DOMTR10	2.5657	Adder	3.02
315607	3AA1-063SOLA	0.5527	80/20	0.5527
316033	AB2-134 C	1.1304	80/20	1.1304
316083	AB2-161 C	2.3374	80/20	2.3374
316087	AB2-174 C	0.5198	80/20	0.5198
316096	AB2-100 C1	0.4933	80/20	0.4933
316098	AB2-100 C2	0.4933	80/20	0.4933
316103	AB2-015 C	3.4445	80/20	3.4445

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316108	AB2-160 C	3.8535	80/20	3.8535
316129	AC1-054 C	2.2540	Adder	2.65
316132	AB2-190 C	11.7734	80/20	11.7734
316140	AB2-099 C (Suspended)	0.1933	Adder	0.23
316258	AE1-162 C	0.1353	80/20	0.1353
923991	AB2-040 C O1	3.3823	80/20	3.3823
926070	AC1-086 C	9.3307	80/20	9.3307
926201	AC1-098 C	2.0020	Adder	2.36
926211	AC1-099 C	0.6709	Adder	0.79
927145	AC1-208 C	2.9657	Adder	3.49
927225	AC1-216 C	0.8629	80/20	0.8629
932044	AC2-012 C	2.9065	Adder	3.42
932581	AC2-078 C O1	2.8436	80/20	2.8436
932591	AC2-079 C O1	3.1774	80/20	3.1774
932631	AC2-084 C	2.8539	Adder	3.36
933991	AD1-023 C	4.0849	Adder	4.81
934014	AD1-025 C	9.4002	80/20	9.4002
934061	AD1-033 C	2.0956	Adder	2.47
934331	AD1-057 C O1	3.3811	Adder	3.98
934521	AD1-076 C	16.7128	Adder	19.66
934575	AD1-082 C	5.3268	80/20	5.3268
935164	AD1-151 C	9.4608	80/20	9.4608
936041	AD2-007 C	0.4491	80/20	0.4491
936051	AD2-008 C	1.6366	80/20	1.6366
936401	AD2-051 C O1	2.8363	Adder	3.34
936661	AD2-085 C	1.6719	80/20	1.6719
936761	AD2-097 C	0.5373	Adder	0.63
937221	AD2-160 C O1	1.6419	Adder	1.93
938494	AE1-068_C1	8.5011	Adder	10.0
938497	AE1-068_C2	8.5011	Adder	10.0
938504	AE1-069_C1	6.4788	Adder	7.62
938507	AE1-069_C2	6.9857	Adder	8.22
938535	AE1-072 C	4.9749	Adder	5.85
938634	AE1-085 C	6.3085	80/20	6.3085
938771	AE1-103 C	1.4524	80/20	1.4524
939195	AE1-149 C	8.0064	80/20	8.0064
939414	AE1-173_C1	8.7893	Adder	10.34
939415	AE1-173_C2	7.5337	Adder	8.86
939416	AE1-173_C3	8.7893	Adder	10.34
940061	AE2-000BC O1	7.2096	80/20	7.2096
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	49.0351	Adder	57.69
940431	AE2-027 C O1	6.5470	80/20	6.5470
940471	AE2-031 C	9.2526	Adder	10.89
940481	AE2-033 C	9.9066	80/20	9.9066
940491	AE2-034 C	2.1784	Adder	2.56
940541	AE2-040	1.7903	80/20	1.7903
940641	AE2-051 C O1	4.7958	Adder	5.64
940651	AE2-052	2.6688	80/20	2.6688
940891	AE2-078 C	0.9776	80/20	0.9776
940901	AE2-079 C	0.9776	80/20	0.9776
941031	AE2-094 C	11.1325	Adder	13.1
941101	AE2-104 C O1	1.3219	80/20	1.3219

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941281	AE2-122 C O1	8.0026	Adder	9.41
941291	AE2-123 C O1	8.2242	Adder	9.68
941301	AE2-124 C O1	7.4687	Adder	8.79
941501	AE2-147 C	4.6206	Adder	5.44
941591	AE2-156 O1	5.0864	Adder	5.98
942001	AE2-212 C	2.3497	80/20	2.3497
942131	AE2-225 C	0.6231	Adder	0.73
942161	AE2-228 C	2.6681	80/20	2.6681
942171	AE2-229 C	0.4673	Adder	0.55
942341	AE2-247 C	0.7267	80/20	0.7267
942371	AE2-250 C O1	6.8450	80/20	6.8450
942401	AE2-253 C	1.7269	Adder	2.03
942471	AE2-260 C O1	7.9028	80/20	7.9028
942551	AE2-270	15.3270	80/20	15.3270
942931	AE2-313 C	10.0023	Adder	11.77
943171	AE2-346 C	0.4638	Adder	0.55
943461	AF1-017 C	0.6575	80/20	0.6575
943611	AF1-032 C	0.5089	Adder	0.6
943621	AF1-033 C	0.9776	80/20	0.9776
943911	AF1-059	5.3990	Adder	6.35
944011	AF1-069 C	3.6374	Adder	4.28
944641	AF1-129	131.7576	80/20	131.7576
944871	AF1-152 C	1.5402	Adder	1.81
945711	AF1-236 C O1	23.8484	Adder	28.06
946011	AF1-266	8.2926	80/20	8.2926
946261	AF1-291 C	2.6858	80/20	2.6858
946281	AF1-292 C	0.7377	80/20	0.7377
957491	AF2-043 C	0.6231	Adder	0.73
957521	AF2-046 C	5.6522	Adder	6.65
957531	AF2-047 C	5.1763	Adder	6.09
957631	AF2-057	1.0198	Adder	1.2
957711	AF2-065 C	7.8168	80/20	7.8168
957821	AF2-076 C	1.5632	Adder	1.84
957871	AF2-081 C	2.8084	Adder	3.3
958141	AF2-108	1.6576	80/20	1.6576
958161	AF2-110 C	0.5450	80/20	0.5450
959511	AF2-242 C	2.2392	Adder	2.63
959651	AF2-256 C	0.6670	80/20	0.6670
959661	AF2-257 C	0.6715	80/20	0.6715
959671	AF2-258 C	0.5874	80/20	0.5874
959681	AF2-259 C	2.4864	80/20	2.4864
960081	AF2-299 C	1.2434	80/20	1.2434
961091	AF2-400 C	0.1860	80/20	0.1860
961611	AG1-000B C	7.4164	80/20	7.4164
961681	AG1-008 C	3.0017	Adder	6.66
961711	AG1-011	15.9664	80/20	15.9664
961851	AG1-027 C	6.7224	80/20	6.7224
961931	AG1-036 C	0.2399	Adder	0.53
961941	AG1-037 C	0.0878	Adder	0.19
962271	AG1-075 C O1	11.8140	80/20	11.8140
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.8887	80/20	0.8887
962331	AG1-082 C	0.3512	Adder	0.78

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962341	AG1-083 C	0.3512	Adder	0.78
962351	AG1-084 C	0.3041	Adder	0.68
962361	AG1-085 C	0.3041	Adder	0.68
962571	AG1-106 C	2.5948	80/20	2.5948
963041	AG1-153 C	0.8210	Adder	1.82
963111	AG1-160 C	0.8317	Adder	1.85
963221	AG1-171 C	1.2614	80/20	1.2614
963231	AG1-172 C	1.2614	80/20	1.2614
963241	AG1-173 C	1.2614	80/20	1.2614
963251	AG1-174 C	1.2614	80/20	1.2614
963261	AG1-175 C	1.2614	80/20	1.2614
963291	AG1-178 C O1	9.0130	Adder	20.01
963301	AG1-179 C	2.3555	80/20	2.3555
963311	AG1-180	1.1477	80/20	1.1477
963351	AG1-184 O1	4.8557	Adder	10.78
963821	AG1-235 C O1	3.5724	Adder	7.93
964491	AG1-312 C O1	3.1863	Adder	7.07
964501	AG1-313 C O1	0.8370	Adder	1.86
964801	AG1-343 C	1.0727	Adder	2.38
964951	AG1-359 O1	3.9606	Adder	8.79
965001	AG1-364 C O1	1.0787	Adder	2.39
965181	AG1-383 C	0.4081	Adder	0.91
965291	AG1-394 C	0.3690	Adder	0.82
965451	AG1-413 C O1	1.2029	Adder	2.67
965601	AG1-428 C O1	1.9664	80/20	1.9664
965631	AG1-431	7.3177	Adder	16.24
965691	AG1-437 C O1	1.6832	Adder	3.74
965701	AG1-438 C O1	1.6832	Adder	3.74
965741	AG1-442 O1	0.9818	Adder	2.18
965751	AG1-443 O1	0.9818	Adder	2.18
965811	AG1-449	3.4384	Adder	7.63
966361	AG1-505 C	2.3990	Adder	5.33
966371	AG1-506 C	2.3990	Adder	5.33
966491	AG1-518 O1	1.3761	Adder	3.05
966611	AG1-531 C	1.0165	Adder	2.26
966621	AG1-532 C	0.6714	80/20	0.6714
966731	AG1-544 C	4.9269	80/20	4.9269
966741	AG1-545 C	1.6339	80/20	1.6339
966751	AG1-546 C	2.6651	Adder	5.92
966801	AG1-551 C	0.3651	Adder	0.81
966811	AG1-552 C	0.8719	80/20	0.8719
966931	AG1-431A	5.4979	Adder	12.2
WEC	WEC	0.1972	Confirmed LTF	0.1972
LGEE	LGEE	0.4090	Confirmed LTF	0.4090
CPL	CPL	2.5573	Confirmed LTF	2.5573
CBM-W2	CBM-W2	9.5514	Confirmed LTF	9.5514
NY	NY	0.4568	Confirmed LTF	0.4568
TVA	TVA	1.8564	Confirmed LTF	1.8564
SIGE	SIGE	0.1720	Confirmed LTF	0.1720
CBM-S2	CBM-S2	29.8480	Confirmed LTF	29.8480
CBM-S1	CBM-S1	0.4571	Confirmed LTF	0.4571
MEC	MEC	1.2378	Confirmed LTF	1.2378

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	2.3065	Confirmed LTF	2.3065
AA2-074	AA2-074	1.6884	LTF	1.6884
CBM-W1	CBM-W1	8.1036	Confirmed LTF	8.1036

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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
168825601	314296	6PENNIMAN	DVP	314415	6WALR209	DVP	1	DVP_P1-2: LN 567	single	441.8	157.08	158.44	DC	13.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1610	80/20	0.1610
314295	6BIRDNECK	0.0194	80/20	0.0194
314421	6WINCHST	0.1065	80/20	0.1065
314491	3PENDLTN	0.1449	80/20	0.1449
314507	3THOMPSN	0.1454	80/20	0.1454
314638	6ELIZ CT	0.0941	80/20	0.0941
314639	6TANGLEW	0.1715	80/20	0.1715
314643	3O INLET	0.1897	80/20	0.1897
315092	1YORKTN3	19.6878	80/20	19.6878
315098	1CHESPKA	0.1923	80/20	0.1923
315099	1CHESPKB (Deactivation : 31/05/2019)	1.3332	80/20	1.3332
315108	1ELIZAR1	1.4176	80/20	1.4176
315109	1ELIZAR2	1.3929	80/20	1.3929
315110	1ELIZAR3	1.4357	80/20	1.4357
315116	1SURRY 1	9.3889	80/20	9.3889
315120	1GRAVEL4	0.9660	80/20	0.9660
315122	1GRAVEL6	0.9649	80/20	0.9649
315233	1SURRY 2	14.2114	80/20	14.2114
315260	1GOSPORTA	0.1535	80/20	0.1535
315261	1GOSPORTB	0.1961	80/20	0.1961
315262	1GOSPORTC	0.1664	80/20	0.1664
315293	1DOMTR9	2.0576	Adder	2.42
315294	1DOMTR10	2.5215	Adder	2.97
315603	6AA1-139SOLA	1.0029	80/20	1.0029
315605	6W1-029WIND	0.4711	80/20	0.4711
315611	6Z1-036WIND	0.4492	80/20	0.4492
316103	AB2-015 C	2.6142	Adder	3.08
316140	AB2-099 C (Suspended)	0.1612	Adder	0.19
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.1324	80/20	0.1324
316258	AE1-162 C	0.1417	80/20	0.1417
925863	AC1-065 C	-5.0524	Adder	-5.94
926661	AC1-147 C	0.1626	80/20	0.1626
926754	AC1-161 C	15.4929	80/20	15.4929
926784	AC1-164 C	-14.7667	Adder	-17.37
932044	AC2-012 C	4.6632	80/20	4.6632
933294	AC2-141 C	15.4929	80/20	15.4929
933731	AC2-196 C	0.1297	80/20	0.1297
933991	AD1-023 C	4.0400	Adder	4.75
934061	AD1-033 C	3.4520	80/20	3.4520
934141	AD1-041 C	-3.3367	Adder	-3.93

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934521	AD1-076 C	17.0999	Adder	20.12
935111	AD1-144 C	0.1311	80/20	0.1311
936401	AD2-051 C O1	2.5103	Adder	2.95
936661	AD2-085 C	0.9742	Adder	1.15
937221	AD2-160 C O1	2.6630	80/20	2.6630
938535	AE1-072 C	7.9537	80/20	7.9537
938771	AE1-103 C	1.1504	Adder	1.35
939414	AE1-173_C1	9.2677	Adder	10.9
939415	AE1-173_C2	7.9438	Adder	9.35
939416	AE1-173_C3	9.2677	Adder	10.9
939431	AE1-175 C	1.2929	80/20	1.2929
940231	AE2-005 C	-0.9186	Adder	-1.08
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	79.4303	80/20	79.4303
940491	AE2-034 C	2.3762	Adder	2.8
940641	AE2-051 C O1	4.5013	Adder	5.3
940891	AE2-078 C	1.0890	80/20	1.0890
940901	AE2-079 C	1.0890	80/20	1.0890
941101	AE2-104 C O1	1.3615	80/20	1.3615
941281	AE2-122 C O1	13.0346	80/20	13.0346
941291	AE2-123 C O1	13.3955	80/20	13.3955
941301	AE2-124 C O1	12.1844	80/20	12.1844
941501	AE2-147 C	6.8913	80/20	6.8913
941591	AE2-156 O1	8.1940	80/20	8.1940
942131	AE2-225 C	0.9659	80/20	0.9659
942171	AE2-229 C	0.7244	80/20	0.7244
942341	AE2-247 C	0.4210	Adder	0.5
942401	AE2-253 C	2.8011	80/20	2.8011
943171	AE2-346 C	0.3868	Adder	0.46
943461	AF1-017 C	0.3809	Adder	0.45
943611	AF1-032 C	0.7888	80/20	0.7888
943621	AF1-033 C	1.0890	80/20	1.0890
944581	AF1-123 C O1	22.4486	80/20	22.4486
944591	AF1-124 C O1	22.4486	80/20	22.4486
944601	AF1-125 C O1	22.4486	80/20	22.4486
944871	AF1-152 C	2.2971	80/20	2.2971
945361	AF1-201 C O1	6.4395	80/20	6.4395
945711	AF1-236 C O1	26.0136	Adder	30.6
957491	AF2-043 C	0.9659	80/20	0.9659
957521	AF2-046 C	4.6173	Adder	5.43
957531	AF2-047 C	5.6463	Adder	6.64
957631	AF2-057	1.6362	80/20	1.6362
957821	AF2-076 C	2.3502	80/20	2.3502
957871	AF2-081 C	4.5231	80/20	4.5231
958161	AF2-110 C	0.5613	80/20	0.5613
959511	AF2-242 C	2.0146	Adder	2.37
961091	AF2-400 C	0.1412	Adder	0.17
961611	AG1-000B C	2.5440	Adder	5.65
961681	AG1-008 C	2.4521	Adder	5.44
961851	AG1-027 C	3.0032	Adder	6.67
961931	AG1-036 C	0.1981	Adder	0.44
961941	AG1-037 C	0.0732	Adder	0.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.9900	80/20	0.9900
962331	AG1-082 C	0.2929	Adder	0.65
962341	AG1-083 C	0.2929	Adder	0.65
962351	AG1-084 C	0.2558	Adder	0.57
962361	AG1-085 C	0.2558	Adder	0.57
962961	AG1-145 C	1.1665	80/20	1.1665
963291	AG1-178 C O1	9.0334	Adder	20.05
963351	AG1-184 O1	4.8667	Adder	10.8
963821	AG1-235 C O1	11.0336	80/20	11.0336
964491	AG1-312 C O1	2.8942	Adder	6.42
964801	AG1-343 C	0.8615	Adder	1.91
964951	AG1-359 O1	12.3330	80/20	12.3330
965001	AG1-364 C O1	3.2768	80/20	3.2768
965181	AG1-383 C	1.2629	80/20	1.2629
965291	AG1-394 C	0.2955	Adder	0.66
965631	AG1-431	7.9821	Adder	17.72
965691	AG1-437 C O1	1.6202	Adder	3.6
965701	AG1-438 C O1	1.6202	Adder	3.6
965741	AG1-442 O1	0.9451	Adder	2.1
965751	AG1-443 O1	0.9451	Adder	2.1
966491	AG1-518 O1	4.0245	80/20	4.0245
966611	AG1-531 C	4.0435	80/20	4.0435
966801	AG1-551 C	0.3172	Adder	0.7
966931	AG1-431A	5.9971	Adder	13.31
WEC	WEC	0.1241	Confirmed LTF	0.1241
LGEE	LGEE	0.2582	Confirmed LTF	0.2582
CPLE	CPLE	1.8905	Confirmed LTF	1.8905
CBM-W2	CBM-W2	6.5139	Confirmed LTF	6.5139
NY	NY	0.3711	Confirmed LTF	0.3711
TVA	TVA	1.2908	Confirmed LTF	1.2908
SIGE	SIGE	0.1260	Confirmed LTF	0.1260
CBM-S2	CBM-S2	21.8196	Confirmed LTF	21.8196
CBM-S1	CBM-S1	0.3150	Confirmed LTF	0.3150
MEC	MEC	0.8088	Confirmed LTF	0.8088
LAGN	LAGN	1.6048	Confirmed LTF	1.6048
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168825597	314386	6KINGS M	DVP	314296	6PENNIMAN	DVP	1	DVP_P1-2: LN 567	single	441.8	161.04	162.4	DC	13.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1610	80/20	0.1610
314295	6BIRDNECK	0.0194	80/20	0.0194
314421	6WINCHST	0.1065	80/20	0.1065
314491	3PENDLTN	0.1449	80/20	0.1449
314507	3THOMPSN	0.1454	80/20	0.1454
314638	6ELIZ CT	0.0941	80/20	0.0941
314639	6TANGLEW	0.1715	80/20	0.1715
314643	3O INLET	0.1897	80/20	0.1897
315092	1YORKTN3	19.6878	80/20	19.6878
315098	1CHESPKA	0.1923	80/20	0.1923
315099	1CHESPKB (Deactivation : 31/05/2019)	1.3332	80/20	1.3332
315108	1ELIZAR1	1.4176	80/20	1.4176
315109	1ELIZAR2	1.3929	80/20	1.3929
315110	1ELIZAR3	1.4357	80/20	1.4357
315116	1SURRY 1	9.3889	80/20	9.3889
315120	1GRAVEL4	0.9660	80/20	0.9660
315122	1GRAVEL6	0.9649	80/20	0.9649
315233	1SURRY 2	14.2114	80/20	14.2114
315260	1GOSPORTA	0.1535	80/20	0.1535
315261	1GOSPORTB	0.1961	80/20	0.1961
315262	1GOSPORTC	0.1664	80/20	0.1664
315293	1DOMTR9	2.0576	Adder	2.42
315294	1DOMTR10	2.5215	Adder	2.97
315603	6AA1-139SOLA	1.0029	80/20	1.0029
315605	6W1-029WIND	0.4711	80/20	0.4711
315611	6Z1-036WIND	0.4492	80/20	0.4492
316103	AB2-015 C	2.6142	Adder	3.08
316140	AB2-099 C (Suspended)	0.1612	Adder	0.19
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.1324	80/20	0.1324
316258	AE1-162 C	0.1417	80/20	0.1417
925863	AC1-065 C	-5.0524	Adder	-5.94
926661	AC1-147 C	0.1626	80/20	0.1626
926754	AC1-161 C	15.4929	80/20	15.4929
926784	AC1-164 C	-14.7667	Adder	-17.37
932044	AC2-012 C	4.6632	80/20	4.6632
933294	AC2-141 C	15.4929	80/20	15.4929
933731	AC2-196 C	0.1297	80/20	0.1297
933991	AD1-023 C	4.0400	Adder	4.75
934061	AD1-033 C	3.4520	80/20	3.4520
934141	AD1-041 C	-3.3367	Adder	-3.93

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934521	AD1-076 C	17.0999	Adder	20.12
935111	AD1-144 C	0.1311	80/20	0.1311
936401	AD2-051 C O1	2.5103	Adder	2.95
936661	AD2-085 C	0.9742	Adder	1.15
937221	AD2-160 C O1	2.6630	80/20	2.6630
938535	AE1-072 C	7.9537	80/20	7.9537
938771	AE1-103 C	1.1504	Adder	1.35
939414	AE1-173_C1	9.2677	Adder	10.9
939415	AE1-173_C2	7.9438	Adder	9.35
939416	AE1-173_C3	9.2677	Adder	10.9
939431	AE1-175 C	1.2929	80/20	1.2929
940231	AE2-005 C	-0.9186	Adder	-1.08
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	79.4303	80/20	79.4303
940491	AE2-034 C	2.3762	Adder	2.8
940641	AE2-051 C O1	4.5013	Adder	5.3
940891	AE2-078 C	1.0890	80/20	1.0890
940901	AE2-079 C	1.0890	80/20	1.0890
941101	AE2-104 C O1	1.3615	80/20	1.3615
941281	AE2-122 C O1	13.0346	80/20	13.0346
941291	AE2-123 C O1	13.3955	80/20	13.3955
941301	AE2-124 C O1	12.1844	80/20	12.1844
941501	AE2-147 C	6.8913	80/20	6.8913
941591	AE2-156 O1	8.1940	80/20	8.1940
942131	AE2-225 C	0.9659	80/20	0.9659
942171	AE2-229 C	0.7244	80/20	0.7244
942341	AE2-247 C	0.4210	Adder	0.5
942401	AE2-253 C	2.8011	80/20	2.8011
943171	AE2-346 C	0.3868	Adder	0.46
943461	AF1-017 C	0.3809	Adder	0.45
943611	AF1-032 C	0.7888	80/20	0.7888
943621	AF1-033 C	1.0890	80/20	1.0890
944581	AF1-123 C O1	22.4486	80/20	22.4486
944591	AF1-124 C O1	22.4486	80/20	22.4486
944601	AF1-125 C O1	22.4486	80/20	22.4486
944871	AF1-152 C	2.2971	80/20	2.2971
945361	AF1-201 C O1	6.4395	80/20	6.4395
945711	AF1-236 C O1	26.0136	Adder	30.6
957491	AF2-043 C	0.9659	80/20	0.9659
957521	AF2-046 C	4.6173	Adder	5.43
957531	AF2-047 C	5.6463	Adder	6.64
957631	AF2-057	1.6362	80/20	1.6362
957821	AF2-076 C	2.3502	80/20	2.3502
957871	AF2-081 C	4.5231	80/20	4.5231
958161	AF2-110 C	0.5613	80/20	0.5613
959511	AF2-242 C	2.0146	Adder	2.37
961091	AF2-400 C	0.1412	Adder	0.17
961611	AG1-000B C	2.5440	Adder	5.65
961681	AG1-008 C	2.4521	Adder	5.44
961851	AG1-027 C	3.0032	Adder	6.67
961931	AG1-036 C	0.1981	Adder	0.44
961941	AG1-037 C	0.0732	Adder	0.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.9900	80/20	0.9900
962331	AG1-082 C	0.2929	Adder	0.65
962341	AG1-083 C	0.2929	Adder	0.65
962351	AG1-084 C	0.2558	Adder	0.57
962361	AG1-085 C	0.2558	Adder	0.57
962961	AG1-145 C	1.1665	80/20	1.1665
963291	AG1-178 C O1	9.0334	Adder	20.05
963351	AG1-184 O1	4.8667	Adder	10.8
963821	AG1-235 C O1	11.0336	80/20	11.0336
964491	AG1-312 C O1	2.8942	Adder	6.42
964801	AG1-343 C	0.8615	Adder	1.91
964951	AG1-359 O1	12.3330	80/20	12.3330
965001	AG1-364 C O1	3.2768	80/20	3.2768
965181	AG1-383 C	1.2629	80/20	1.2629
965291	AG1-394 C	0.2955	Adder	0.66
965631	AG1-431	7.9821	Adder	17.72
965691	AG1-437 C O1	1.6202	Adder	3.6
965701	AG1-438 C O1	1.6202	Adder	3.6
965741	AG1-442 O1	0.9451	Adder	2.1
965751	AG1-443 O1	0.9451	Adder	2.1
966491	AG1-518 O1	4.0245	80/20	4.0245
966611	AG1-531 C	4.0435	80/20	4.0435
966801	AG1-551 C	0.3172	Adder	0.7
966931	AG1-431A	5.9971	Adder	13.31
WEC	WEC	0.1241	Confirmed LTF	0.1241
LGEE	LGEE	0.2582	Confirmed LTF	0.2582
CPLE	CPLE	1.8905	Confirmed LTF	1.8905
CBM-W2	CBM-W2	6.5139	Confirmed LTF	6.5139
NY	NY	0.3711	Confirmed LTF	0.3711
TVA	TVA	1.2908	Confirmed LTF	1.2908
SIGE	SIGE	0.1260	Confirmed LTF	0.1260
CBM-S2	CBM-S2	21.8196	Confirmed LTF	21.8196
CBM-S1	CBM-S1	0.3150	Confirmed LTF	0.3150
MEC	MEC	0.8088	Confirmed LTF	0.8088
LAGN	LAGN	1.6048	Confirmed LTF	1.6048
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168825611	314415	6WALR209	DVP	314391	6LIGH209	DVP	1	DVP_P1-2: LN 567	single	441.8	140.94	142.3	DC	13.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1610	80/20	0.1610
314295	6BIRDNECK	0.0194	80/20	0.0194
314421	6WINCHST	0.1065	80/20	0.1065
314491	3PENDLTN	0.1449	80/20	0.1449
314507	3THOMPSN	0.1454	80/20	0.1454
314638	6ELIZ CT	0.0941	80/20	0.0941
314639	6TANGLEW	0.1715	80/20	0.1715
314643	3O INLET	0.1897	80/20	0.1897
315092	1YORKTN3	19.6878	80/20	19.6878
315098	1CHESPKA	0.1923	80/20	0.1923
315099	1CHESPKB (Deactivation : 31/05/2019)	1.3332	80/20	1.3332
315108	1ELIZAR1	1.4176	80/20	1.4176
315109	1ELIZAR2	1.3929	80/20	1.3929
315110	1ELIZAR3	1.4357	80/20	1.4357
315116	1SURRY 1	9.3889	80/20	9.3889
315120	1GRAVEL4	0.9660	80/20	0.9660
315122	1GRAVEL6	0.9649	80/20	0.9649
315233	1SURRY 2	14.2114	80/20	14.2114
315260	1GOSPORTA	0.1535	80/20	0.1535
315261	1GOSPORTB	0.1961	80/20	0.1961
315262	1GOSPORTC	0.1664	80/20	0.1664
315293	1DOMTR9	2.0576	Adder	2.42
315294	1DOMTR10	2.5215	Adder	2.97
315603	6AA1-139SOLA	1.0029	80/20	1.0029
315605	6W1-029WIND	0.4711	80/20	0.4711
315611	6Z1-036WIND	0.4492	80/20	0.4492
316103	AB2-015 C	2.6142	Adder	3.08
316140	AB2-099 C (Suspended)	0.1612	Adder	0.19
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.1324	80/20	0.1324
316258	AE1-162 C	0.1417	80/20	0.1417
925863	AC1-065 C	-5.0524	Adder	-5.94
926661	AC1-147 C	0.1626	80/20	0.1626
926754	AC1-161 C	15.4929	80/20	15.4929
926784	AC1-164 C	-14.7667	Adder	-17.37
932044	AC2-012 C	4.6632	80/20	4.6632
933294	AC2-141 C	15.4929	80/20	15.4929
933731	AC2-196 C	0.1297	80/20	0.1297
933991	AD1-023 C	4.0400	Adder	4.75
934061	AD1-033 C	3.4520	80/20	3.4520
934141	AD1-041 C	-3.3367	Adder	-3.93

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934521	AD1-076 C	17.0999	Adder	20.12
935111	AD1-144 C	0.1311	80/20	0.1311
936401	AD2-051 C O1	2.5103	Adder	2.95
936661	AD2-085 C	0.9742	Adder	1.15
937221	AD2-160 C O1	2.6630	80/20	2.6630
938535	AE1-072 C	7.9537	80/20	7.9537
938771	AE1-103 C	1.1504	Adder	1.35
939414	AE1-173_C1	9.2677	Adder	10.9
939415	AE1-173_C2	7.9438	Adder	9.35
939416	AE1-173_C3	9.2677	Adder	10.9
939431	AE1-175 C	1.2929	80/20	1.2929
940231	AE2-005 C	-0.9186	Adder	-1.08
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	79.4303	80/20	79.4303
940491	AE2-034 C	2.3762	Adder	2.8
940641	AE2-051 C O1	4.5013	Adder	5.3
940891	AE2-078 C	1.0890	80/20	1.0890
940901	AE2-079 C	1.0890	80/20	1.0890
941101	AE2-104 C O1	1.3615	80/20	1.3615
941281	AE2-122 C O1	13.0346	80/20	13.0346
941291	AE2-123 C O1	13.3955	80/20	13.3955
941301	AE2-124 C O1	12.1844	80/20	12.1844
941501	AE2-147 C	6.8913	80/20	6.8913
941591	AE2-156 O1	8.1940	80/20	8.1940
942131	AE2-225 C	0.9659	80/20	0.9659
942171	AE2-229 C	0.7244	80/20	0.7244
942341	AE2-247 C	0.4210	Adder	0.5
942401	AE2-253 C	2.8011	80/20	2.8011
943171	AE2-346 C	0.3868	Adder	0.46
943461	AF1-017 C	0.3809	Adder	0.45
943611	AF1-032 C	0.7888	80/20	0.7888
943621	AF1-033 C	1.0890	80/20	1.0890
944581	AF1-123 C O1	22.4486	80/20	22.4486
944591	AF1-124 C O1	22.4486	80/20	22.4486
944601	AF1-125 C O1	22.4486	80/20	22.4486
944871	AF1-152 C	2.2971	80/20	2.2971
945361	AF1-201 C O1	6.4395	80/20	6.4395
945711	AF1-236 C O1	26.0136	Adder	30.6
957491	AF2-043 C	0.9659	80/20	0.9659
957521	AF2-046 C	4.6173	Adder	5.43
957531	AF2-047 C	5.6463	Adder	6.64
957631	AF2-057	1.6362	80/20	1.6362
957821	AF2-076 C	2.3502	80/20	2.3502
957871	AF2-081 C	4.5231	80/20	4.5231
958161	AF2-110 C	0.5613	80/20	0.5613
959511	AF2-242 C	2.0146	Adder	2.37
961091	AF2-400 C	0.1412	Adder	0.17
961611	AG1-000B C	2.5440	Adder	5.65
961681	AG1-008 C	2.4521	Adder	5.44
961851	AG1-027 C	3.0032	Adder	6.67
961931	AG1-036 C	0.1981	Adder	0.44
961941	AG1-037 C	0.0732	Adder	0.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.9900	80/20	0.9900
962331	AG1-082 C	0.2929	Adder	0.65
962341	AG1-083 C	0.2929	Adder	0.65
962351	AG1-084 C	0.2558	Adder	0.57
962361	AG1-085 C	0.2558	Adder	0.57
962961	AG1-145 C	1.1665	80/20	1.1665
963291	AG1-178 C O1	9.0334	Adder	20.05
963351	AG1-184 O1	4.8667	Adder	10.8
963821	AG1-235 C O1	11.0336	80/20	11.0336
964491	AG1-312 C O1	2.8942	Adder	6.42
964801	AG1-343 C	0.8615	Adder	1.91
964951	AG1-359 O1	12.3330	80/20	12.3330
965001	AG1-364 C O1	3.2768	80/20	3.2768
965181	AG1-383 C	1.2629	80/20	1.2629
965291	AG1-394 C	0.2955	Adder	0.66
965631	AG1-431	7.9821	Adder	17.72
965691	AG1-437 C O1	1.6202	Adder	3.6
965701	AG1-438 C O1	1.6202	Adder	3.6
965741	AG1-442 O1	0.9451	Adder	2.1
965751	AG1-443 O1	0.9451	Adder	2.1
966491	AG1-518 O1	4.0245	80/20	4.0245
966611	AG1-531 C	4.0435	80/20	4.0435
966801	AG1-551 C	0.3172	Adder	0.7
966931	AG1-431A	5.9971	Adder	13.31
WEC	WEC	0.1241	Confirmed LTF	0.1241
LGEE	LGEE	0.2582	Confirmed LTF	0.2582
CPLE	CPLE	1.8905	Confirmed LTF	1.8905
CBM-W2	CBM-W2	6.5139	Confirmed LTF	6.5139
NY	NY	0.3711	Confirmed LTF	0.3711
TVA	TVA	1.2908	Confirmed LTF	1.2908
SIGE	SIGE	0.1260	Confirmed LTF	0.1260
CBM-S2	CBM-S2	21.8196	Confirmed LTF	21.8196
CBM-S1	CBM-S1	0.3150	Confirmed LTF	0.3150
MEC	MEC	0.8088	Confirmed LTF	0.8088
LAGN	LAGN	1.6048	Confirmed LTF	1.6048
CBM-W1	CBM-W1	5.0332	Confirmed LTF	5.0332

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168825712	314466	6FENTRES	DVP	314508	6THRASHER	DVP	1	DVP_P1-2: LN 271-B	single	678.68	115.85	118.71	DC	19.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.5534	80/20	0.5534
314638	6ELIZ CT	0.3235	80/20	0.3235
314639	6TANGLEW	0.5109	80/20	0.5109
314643	3O INLET	0.8183	80/20	0.8183
315292	1DOMTR78	0.4777	80/20	0.4777
315293	1DOMTR9	2.4708	80/20	2.4708
315294	1DOMTR10	3.0280	80/20	3.0280
315603	6AA1-139SOLA	4.6267	80/20	4.6267
315605	6W1-029WIND	0.8351	80/20	0.8351
315611	6Z1-036WIND	0.8556	80/20	0.8556
315614	AA2-178 C	0.8576	80/20	0.8576
933731	AC2-196 C	0.6907	80/20	0.6907
933991	AD1-023 C	4.5353	80/20	4.5353
934061	AD1-033 C	18.3872	80/20	18.3872
934521	AD1-076 C	23.1513	80/20	23.1513
937221	AD2-160 C O1	12.8366	80/20	12.8366
938535	AE1-072 C	34.9500	80/20	34.9500
940491	AE2-034 C	4.0769	80/20	4.0769
941501	AE2-147 C	12.2148	80/20	12.2148
942401	AE2-253 C	13.5019	80/20	13.5019
944581	AF1-123 C O1	37.3885	80/20	37.3885
944591	AF1-124 C O1	37.3885	80/20	37.3885
944601	AF1-125 C O1	37.3885	80/20	37.3885
944871	AF1-152 C	4.0716	80/20	4.0716
945711	AF1-236 C O1	44.6328	80/20	44.6328
957531	AF2-047 C	9.6876	80/20	9.6876
957871	AF2-081 C	20.8673	80/20	20.8673
963821	AG1-235 C O1	56.1384	80/20	56.1384
964951	AG1-359 O1	65.6685	80/20	65.6685
965181	AG1-383 C	6.4980	80/20	6.4980
965631	AG1-431	25.8400	80/20	25.8400
966931	AG1-431A	19.4140	80/20	19.4140
WEC	WEC	0.0454	Confirmed LTF	0.0454
LGEE	LGEE	0.0924	Confirmed LTF	0.0924
CPL	CPL	0.3795	Confirmed LTF	0.3795
CBM-W2	CBM-W2	1.7562	Confirmed LTF	1.7562
NY	NY	0.0083	Confirmed LTF	0.0083
TVA	TVA	0.3164	Confirmed LTF	0.3164
SIGE	SIGE	0.0188	Confirmed LTF	0.0188
CBM-S2	CBM-S2	4.3639	Confirmed LTF	4.3639
CBM-S1	CBM-S1	0.0806	Confirmed LTF	0.0806

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
MEC	MEC	0.2574	Confirmed LTF	0.2574
LAGN	LAGN	0.3955	Confirmed LTF	0.3955
CBM-W1	CBM-W1	1.9488	Confirmed LTF	1.9488

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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
163341970	314538	6SURREY	DVP	314522	6CHCKTUK	DVP	1	DVP_P7-1: LN 223-226	tower	830.0	101.14	101.93	DC	12.53

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314539	3UNCAMP	-1.9260	Adder	-2.27
314541	3WATKINS	-0.2063	Adder	-0.24
315073	1STONECA	3.4977	Adder	4.11
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0091	Adder	0.01
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0091	Adder	0.01
315078	1HOPHCF2	1.4032	50/50	1.4032
315079	1HOPHCF3	1.4032	50/50	1.4032
315080	1HOPHCF4	2.1302	50/50	2.1302
315116	1SURREY 1	44.0038	50/50	44.0038
315117	1GRAVELC	1.5422	50/50	1.5422
315119	1GRAVEL3	4.4702	50/50	4.4702
315120	1GRAVEL4	4.5275	50/50	4.5275
315121	1GRAVEL5	4.4702	50/50	4.4702
315122	1GRAVEL6	4.5223	50/50	4.5223
315293	1DOMTR9	-1.8894	Adder	-2.22
315294	1DOMTR10	-2.3154	Adder	-2.72
316033	AB2-134 C	2.6060	50/50	2.6060
316132	AB2-190 C	22.9376	50/50	22.9376
924814	AB2-134 E	16.2415	50/50	16.2415
925332	AB2-190 E	9.8304	50/50	9.8304
927225	AC1-216 C	1.9892	50/50	1.9892
927226	AC1-216 E	9.9152	50/50	9.9152
934014	AD1-025 C	21.6707	50/50	21.6707
934015	AD1-025 E	12.8368	50/50	12.8368
934061	AD1-033 C	-2.0663	Adder	-2.43
935164	AD1-151 C	18.4320	50/50	18.4320
935165	AD1-151 E	12.2880	50/50	12.2880
936041	AD2-007 C	1.0352	50/50	1.0352
936042	AD2-007 E	0.7132	50/50	0.7132
936051	AD2-008 C	3.7728	50/50	3.7728
936052	AD2-008 E	8.2128	50/50	8.2128
940891	AE2-078 C	3.7708	50/50	3.7708
940892	AE2-078 E	1.9426	50/50	1.9426
940901	AE2-079 C	3.7708	50/50	3.7708
940902	AE2-079 E	1.9426	50/50	1.9426
942131	AE2-225 C	-0.9854	Adder	-1.16
942171	AE2-229 C	-0.7391	Adder	-0.87
942551	AE2-270	32.8110	50/50	32.8110
943611	AF1-032 C	-0.8048	Adder	-0.95
943621	AF1-033 C	3.7708	50/50	3.7708

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943622	AF1-033 E	1.9426	50/50	1.9426
957491	AF2-043 C	-0.9854	Adder	-1.16
957632	AF2-057 BAT	1.1110	Merchant Transmission	1.1110
957711	AF2-065 C	16.7336	50/50	16.7336
957712	AF2-065 E	16.0774	50/50	16.0774
961091	AF2-400 C	-0.1432	Adder	-0.17
961611	AG1-000B C	27.4156	50/50	27.4156
961711	AG1-011	36.8080	50/50	36.8080
961853	AG1-028 BAT	4.7840	Merchant Transmission	4.7840
962321	AG1-081 C (Withdrawn : 01/15/2021)	3.4280	50/50	3.4280
962322	AG1-081 E (Withdrawn : 01/15/2021)	2.2854	50/50	2.2854
963221	AG1-171 C	2.4576	50/50	2.4576
963222	AG1-171 E	1.6384	50/50	1.6384
963231	AG1-172 C	2.4576	50/50	2.4576
963232	AG1-172 E	1.6384	50/50	1.6384
963241	AG1-173 C	2.4576	50/50	2.4576
963242	AG1-173 E	1.6384	50/50	1.6384
963251	AG1-174 C	2.4576	50/50	2.4576
963252	AG1-174 E	1.6384	50/50	1.6384
963261	AG1-175 C	2.4576	50/50	2.4576
963262	AG1-175 E	1.6384	50/50	1.6384
964493	AG1-312 BAT	1.9989	Merchant Transmission	1.9989
964952	AG1-359 BAT	4.5943	Merchant Transmission	4.5943
965003	AG1-364 BAT	2.9219	Merchant Transmission	2.9219
965183	AG1-383 BAT	0.2665	Merchant Transmission	0.2665
965742	AG1-442 BAT	1.0423	Merchant Transmission	1.0423
965752	AG1-443 BAT	1.0423	Merchant Transmission	1.0423
966492	AG1-518 BAT	2.5602	Merchant Transmission	2.5602
966611	AG1-531 C	6.3108	50/50	6.3108
966612	AG1-531 E	4.2072	50/50	4.2072
966932	AG1-431A BAT	6.6430	Merchant Transmission	6.6430
G-007A	G-007A	0.0048	Confirmed LTF	0.0048
VFT	VFT	0.0064	Confirmed LTF	0.0064
CALDERWOOD	CALDERWOOD	0.4046	Confirmed LTF	0.4046
NY	NY	0.0177	Confirmed LTF	0.0177
PRAIRIE	PRAIRIE	1.5033	Confirmed LTF	1.5033
CHEOAH	CHEOAH	0.4134	Confirmed LTF	0.4134
COTTONWOOD	COTTONWOOD	1.5309	Confirmed LTF	1.5309
HAMLET	HAMLET	0.8224	Confirmed LTF	0.8224
GIBSON	GIBSON	0.2763	Confirmed LTF	0.2763
BLUEG	BLUEG	0.8593	Confirmed LTF	0.8593
TRIMBLE	TRIMBLE	0.2732	Confirmed LTF	0.2732
CATAWBA	CATAWBA	0.4109	Confirmed LTF	0.4109

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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
169034869	314569	6EARLEYS	DVP	314575	6NUCO TP	DVP	1	DVP_P1-2: LN 2092	single	571.52	209.15	221.57	DC	71.0

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	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	4.9392	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
163830651	314574	6EVERETS	DVP	304451	6GREENVILLE	CPL	1	DVP_P7-1: LN 2058-2181	tower	478.0	200.24	206.4	DC	29.42

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	1EDGECEMA (Deactivation : 22/04/2019)	9.5990	50/50	9.5990
315132	1EDGECEMB (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	1CONETOESOL	2.1704	50/50	2.1704
315602	1HOLLOMANSOL	1.5332	50/50	1.5332
315606	3AA2-053SOLA	0.9398	50/50	0.9398
315611	6Z1-036WIND	0.6573	50/50	0.6573
315614	AA2-178 C	1.2997	50/50	1.2997
316088	AB2-174 E	2.7352	Adder	3.22
316097	AB2-100 E1	1.2133	Adder	1.43
316099	AB2-100 E2	1.2133	Adder	1.43
316103	AB2-015 C	3.5908	Adder	4.22
316104	AB2-015 E	2.9445	Adder	3.46
316140	AB2-099 C (Suspended)	0.5180	50/50	0.5180
316141	AB2-099 E (Suspended)	0.2220	50/50	0.2220
900672	V4-068 E	0.2092	50/50	0.2092
901082	W1-029 E	18.7397	Adder	22.05
913392	Y1-086 E	0.7676	Adder	0.9
916042	Z1-036 E (Suspended)	27.9147	50/50	27.9147
917122	Z2-027 E	0.3981	Adder	0.47
917332	Z2-043 E	0.8838	50/50	0.8838
917342	Z2-044 E	0.2085	Adder	0.25
917512	Z2-088 E OP1	12.8742	50/50	12.8742
918492	AA1-063AE OP	2.0182	Adder	2.37

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
169034887	314575	6NUCO TP	DVP	957820	AF2-076 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	200.47	212.89	DC	71.0

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	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	4.9392	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

11.6.33 Index 33

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
166981262	314576	3FIVE PT	DVP	314622	3WHARTON	DVP	1	DVP_P7-1: LN 25-2034-A	tower	91.0	204.62	214.03	DC	18.97

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.0608	50/50	0.0608
315292	1DOMTR78	1.6317	50/50	1.6317
315293	1DOMTR9	8.4395	50/50	8.4395
315294	1DOMTR10	10.3425	50/50	10.3425
916042	Z1-036 E (Suspended)	12.8066	Adder	15.07
920692	AA2-178 E	1.9353	Adder	2.28
925121	AB2-169 C	3.2524	50/50	3.2524
925122	AB2-169 E	18.5003	50/50	18.5003
934521	AD1-076 C	37.4962	50/50	37.4962
934522	AD1-076 E	19.0930	50/50	19.0930
940491	AE2-034 C	3.3869	Adder	3.98
940492	AE2-034 E	1.4515	Adder	1.71
945711	AF1-236 C O1	37.0780	Adder	43.62
945712	AF1-236 E O1	22.9016	Adder	26.94
957531	AF2-047 C	8.0478	Adder	9.47
957532	AF2-047 E	4.0481	Adder	4.76
965631	AG1-431	11.3771	Adder	25.25
966931	AG1-431A	8.5478	Adder	18.97
G-007A	G-007A	0.1199	Confirmed LTF	0.1199
VFT	VFT	0.3161	Confirmed LTF	0.3161
CALDERWOOD	CALDERWOOD	0.1521	Confirmed LTF	0.1521
PRAIRIE	PRAIRIE	0.5269	Confirmed LTF	0.5269
CHEOAH	CHEOAH	0.1557	Confirmed LTF	0.1557
CBM-N	CBM-N	0.0576	Confirmed LTF	0.0576
COTTONWOOD	COTTONWOOD	0.5670	Confirmed LTF	0.5670
HAMLET	HAMLET	0.3367	Confirmed LTF	0.3367
GIBSON	GIBSON	0.0928	Confirmed LTF	0.0928
BLUEG	BLUEG	0.2864	Confirmed LTF	0.2864
TRIMBLE	TRIMBLE	0.0907	Confirmed LTF	0.0907
CATAWBA	CATAWBA	0.1617	Confirmed LTF	0.1617

11.6.34 Index 34

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163341670	314583	6LAKEVEW	DVP	313725	6DRY BREAD	DVP	1	DVP_P7-1: LN 2058-2181	tower	459.0	179.4	181.14	DC	17.76

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163830012	314591	6NASH	DVP	304226	6PA-RMOUNT#4	CPL	1	DVP_P1-2: LN 2058	single	478.0	116.83	120.33	DC	16.74

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
965601	AG1-428 C O1	2.3208	80/20	2.3208

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

11.6.36 Index 36

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
166981288	314592	3PANTEGO	DVP	313724	3TERRA	DVP	1	DVP_P7-1: LN 25-2034-A	tower	91.0	161.86	171.28	DC	19.01

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.0609	50/50	0.0609
315292	1DOMTR78	1.6333	50/50	1.6333
315293	1DOMTR9	8.4476	50/50	8.4476
315294	1DOMTR10	10.3525	50/50	10.3525
916042	Z1-036 E (Suspended)	12.8532	Adder	15.12
920692	AA2-178 E	1.9394	Adder	2.28
934521	AD1-076 C	37.5604	50/50	37.5604
934522	AD1-076 E	19.1257	50/50	19.1257
940491	AE2-034 C	3.3940	Adder	3.99
940492	AE2-034 E	1.4546	Adder	1.71
945711	AF1-236 C O1	37.1562	Adder	43.71
945712	AF1-236 E O1	22.9499	Adder	27.0
957531	AF2-047 C	8.0648	Adder	9.49
957532	AF2-047 E	4.0566	Adder	4.77
965631	AG1-431	11.4011	Adder	25.31
966931	AG1-431A	8.5658	Adder	19.01
G-007A	G-007A	0.1702	Confirmed LTF	0.1702
VFT	VFT	0.4515	Confirmed LTF	0.4515
CALDERWOOD	CALDERWOOD	0.1416	Confirmed LTF	0.1416
PRAIRIE	PRAIRIE	0.4727	Confirmed LTF	0.4727
CHEOAH	CHEOAH	0.1451	Confirmed LTF	0.1451
CBM-N	CBM-N	0.0828	Confirmed LTF	0.0828
COTTONWOOD	COTTONWOOD	0.5229	Confirmed LTF	0.5229
HAMLET	HAMLET	0.3246	Confirmed LTF	0.3246
GIBSON	GIBSON	0.0814	Confirmed LTF	0.0814
BLUEG	BLUEG	0.2500	Confirmed LTF	0.2500
TRIMBLE	TRIMBLE	0.0790	Confirmed LTF	0.0790
CATAWBA	CATAWBA	0.1544	Confirmed LTF	0.1544

11.6.37 Index 37

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169034949	314594	6PLYMOTH	DVP	314616	6TRWBRDG	DVP	1	DVP_P1-2: LN 2092	single	789.6	117.85	143.17	DC	199.9

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315611	6Z1-036WIND	6.1499	80/20	6.1499
315614	AA2-178 C	8.8307	80/20	8.8307
940491	AE2-034 C	41.9790	80/20	41.9790
945711	AF1-236 C O1	459.5701	80/20	459.5701
957531	AF2-047 C	99.7501	80/20	99.7501
965631	AG1-431	266.0669	80/20	266.0669
966931	AG1-431A	199.9000	80/20	199.9000
CALDERWOOD	CALDERWOOD	0.0249	Confirmed LTF	0.0249
NY	NY	0.0277	Confirmed LTF	0.0277
PRAIRIE	PRAIRIE	0.1292	Confirmed LTF	0.1292
CHEOAH	CHEOAH	0.0250	Confirmed LTF	0.0250
COTTONWOOD	COTTONWOOD	0.1050	Confirmed LTF	0.1050
HAMLET	HAMLET	0.0289	Confirmed LTF	0.0289
GIBSON	GIBSON	0.0273	Confirmed LTF	0.0273
BLUEG	BLUEG	0.0868	Confirmed LTF	0.0868
TRIMBLE	TRIMBLE	0.0278	Confirmed LTF	0.0278
CATAWBA	CATAWBA	0.0175	Confirmed LTF	0.0175

11.6.38 Index 38

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169034922	314596	3POPLR C	DVP	314573	3EVERETS	DVP	1	DVP_P1-2: LN 2034-A	single	269.78	130.65	146.84	DC	43.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1359	80/20	0.1359
314638	6ELIZ CT	0.0795	80/20	0.0795
314639	6TANGLEW	0.1666	80/20	0.1666
315292	1DOMTR78	2.9489	80/20	2.9489
315293	1DOMTR9	15.2523	80/20	15.2523
315294	1DOMTR10	18.6915	80/20	18.6915
315605	6W1-029WIND	0.5154	80/20	0.5154
315611	6Z1-036WIND	0.8173	80/20	0.8173
315614	AA2-178 C	1.9294	80/20	1.9294
925121	AB2-169 C	0.7408	80/20	0.7408
933991	AD1-023 C	20.9075	80/20	20.9075
934521	AD1-076 C	86.2940	80/20	86.2940
940491	AE2-034 C	9.1720	80/20	9.1720
941501	AE2-147 C	7.5384	80/20	7.5384
944871	AF1-152 C	2.5128	80/20	2.5128
945711	AF1-236 C O1	100.4111	80/20	100.4111
957531	AF2-047 C	21.7943	80/20	21.7943
964491	AG1-312 C O1	30.1370	80/20	30.1370
965631	AG1-431	58.1328	80/20	58.1328
965691	AG1-437 C O1	16.1448	80/20	16.1448
965701	AG1-438 C O1	16.1448	80/20	16.1448
965741	AG1-442 O1	9.4178	80/20	9.4178
965751	AG1-443 O1	9.4178	80/20	9.4178
966931	AG1-431A	43.6760	80/20	43.6760
G-007A	G-007A	0.3356	Confirmed LTF	0.3356
VFT	VFT	0.8965	Confirmed LTF	0.8965
CALDERWOOD	CALDERWOOD	0.3365	Confirmed LTF	0.3365
PRAIRIE	PRAIRIE	1.1443	Confirmed LTF	1.1443
CHEOAH	CHEOAH	0.3453	Confirmed LTF	0.3453
CBM-N	CBM-N	0.1632	Confirmed LTF	0.1632
COTTONWOOD	COTTONWOOD	1.2495	Confirmed LTF	1.2495
HAMLET	HAMLET	0.7588	Confirmed LTF	0.7588
GIBSON	GIBSON	0.1993	Confirmed LTF	0.1993
BLUEG	BLUEG	0.6128	Confirmed LTF	0.6128
TRIMBLE	TRIMBLE	0.1942	Confirmed LTF	0.1942
CATAWBA	CATAWBA	0.3626	Confirmed LTF	0.3626

11.6.39 Index 39

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169034931	314614	3TRWBRDG2	DVP	314596	3POPLR C	DVP	1	DVP_P1-2: LN 2034-A	single	285.76	123.0	138.28	DC	43.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1359	80/20	0.1359
314638	6ELIZ CT	0.0795	80/20	0.0795
314639	6TANGLEW	0.1666	80/20	0.1666
315292	1DOMTR78	2.9489	80/20	2.9489
315293	1DOMTR9	15.2523	80/20	15.2523
315294	1DOMTR10	18.6915	80/20	18.6915
315605	6W1-029WIND	0.5154	80/20	0.5154
315611	6Z1-036WIND	0.8173	80/20	0.8173
315614	AA2-178 C	1.9294	80/20	1.9294
925121	AB2-169 C	0.7408	80/20	0.7408
933991	AD1-023 C	20.9075	80/20	20.9075
934521	AD1-076 C	86.2940	80/20	86.2940
940491	AE2-034 C	9.1720	80/20	9.1720
941501	AE2-147 C	7.5384	80/20	7.5384
944871	AF1-152 C	2.5128	80/20	2.5128
945711	AF1-236 C O1	100.4111	80/20	100.4111
957531	AF2-047 C	21.7943	80/20	21.7943
964491	AG1-312 C O1	30.1370	80/20	30.1370
965631	AG1-431	58.1328	80/20	58.1328
965691	AG1-437 C O1	16.1448	80/20	16.1448
965701	AG1-438 C O1	16.1448	80/20	16.1448
965741	AG1-442 O1	9.4178	80/20	9.4178
965751	AG1-443 O1	9.4178	80/20	9.4178
966931	AG1-431A	43.6760	80/20	43.6760
G-007A	G-007A	0.3356	Confirmed LTF	0.3356
VFT	VFT	0.8965	Confirmed LTF	0.8965
CALDERWOOD	CALDERWOOD	0.3365	Confirmed LTF	0.3365
PRAIRIE	PRAIRIE	1.1443	Confirmed LTF	1.1443
CHEOAH	CHEOAH	0.3453	Confirmed LTF	0.3453
CBM-N	CBM-N	0.1632	Confirmed LTF	0.1632
COTTONWOOD	COTTONWOOD	1.2495	Confirmed LTF	1.2495
HAMLET	HAMLET	0.7588	Confirmed LTF	0.7588
GIBSON	GIBSON	0.1993	Confirmed LTF	0.1993
BLUEG	BLUEG	0.6128	Confirmed LTF	0.6128
TRIMBLE	TRIMBLE	0.1942	Confirmed LTF	0.1942
CATAWBA	CATAWBA	0.3626	Confirmed LTF	0.3626

11.6.40 Index 40

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169034899	314616	6TRWBRDG	DVP	933990	AD1-023 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	181.66	207.89	DC	149.93

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

11.6.41 Index 41

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169034927	314616	6TRWBRDG	DVP	314613	3TRWBRDG	DVP	1	DVP_P1-2: LN 2034-E	single	194.86	114.82	138.55	DC	46.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1444	80/20	0.1444
314638	6ELIZ CT	0.0844	80/20	0.0844
314639	6TANGLEW	0.1769	80/20	0.1769
314643	3O INLET	0.1214	80/20	0.1214
315293	1DOMTR9	-16.8358	Adder	-19.81
315294	1DOMTR10	-20.6321	Adder	-24.27
315605	6W1-029WIND	0.5469	80/20	0.5469
315611	6Z1-036WIND	0.8661	80/20	0.8661
315614	AA2-178 C	2.0426	80/20	2.0426
934521	AD1-076 C	91.3322	80/20	91.3322
940491	AE2-034 C	9.7100	80/20	9.7100
941501	AE2-147 C	7.9992	80/20	7.9992
944871	AF1-152 C	2.6664	80/20	2.6664
945711	AF1-236 C O1	106.3012	80/20	106.3012
957531	AF2-047 C	23.0728	80/20	23.0728
965631	AG1-431	61.5428	80/20	61.5428
966931	AG1-431A	46.2380	80/20	46.2380
G-007A	G-007A	0.4363	Confirmed LTF	0.4363
VFT	VFT	1.1610	Confirmed LTF	1.1610
CALDERWOOD	CALDERWOOD	0.3390	Confirmed LTF	0.3390
PRAIRIE	PRAIRIE	1.1236	Confirmed LTF	1.1236
CHEOAH	CHEOAH	0.3478	Confirmed LTF	0.3478
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	1.2495	Confirmed LTF	1.2495
HAMLET	HAMLET	0.7831	Confirmed LTF	0.7831
GIBSON	GIBSON	0.1922	Confirmed LTF	0.1922
BLUEG	BLUEG	0.5902	Confirmed LTF	0.5902
TRIMBLE	TRIMBLE	0.1870	Confirmed LTF	0.1870
CATAWBA	CATAWBA	0.3714	Confirmed LTF	0.3714

11.6.42 Index 42

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169034881	314620	6CASHIE	DVP	965690	AG1-437 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	190.42	216.65	DC	149.93

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

11.6.43 Index 43

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169035034	314621	3WEYRHAUSER	DVP	314614	3TRWBDRG2	DVP	1	DVP_P1-2: LN 2034-E	single	269.78	102.96	117.04	DC	37.96

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1181	80/20	0.1181
314638	6ELIZ CT	0.0690	80/20	0.0690
314639	6TANGLEW	0.1447	80/20	0.1447
315292	1DOMTR78	3.3858	80/20	3.3858
315293	1DOMTR9	17.5118	80/20	17.5118
315294	1DOMTR10	21.4605	80/20	21.4605
315605	6W1-029WIND	0.4478	80/20	0.4478
315611	6Z1-036WIND	0.7102	80/20	0.7102
315614	AA2-178 C	1.6769	80/20	1.6769
925121	AB2-169 C	0.9740	80/20	0.9740
934521	AD1-076 C	75.0021	80/20	75.0021
940491	AE2-034 C	7.9716	80/20	7.9716
941501	AE2-147 C	6.5502	80/20	6.5502
944871	AF1-152 C	2.1834	80/20	2.1834
945711	AF1-236 C O1	87.2700	80/20	87.2700
957531	AF2-047 C	18.9420	80/20	18.9420
965631	AG1-431	50.5248	80/20	50.5248
966931	AG1-431A	37.9600	80/20	37.9600
G-007A	G-007A	0.2829	Confirmed LTF	0.2829
VFT	VFT	0.7546	Confirmed LTF	0.7546
CALDERWOOD	CALDERWOOD	0.2947	Confirmed LTF	0.2947
PRAIRIE	PRAIRIE	1.0048	Confirmed LTF	1.0048
CHEOAH	CHEOAH	0.3018	Confirmed LTF	0.3018
CBM-N	CBM-N	0.1380	Confirmed LTF	0.1380
COTTONWOOD	COTTONWOOD	1.0941	Confirmed LTF	1.0941
HAMLET	HAMLET	0.6618	Confirmed LTF	0.6618
GIBSON	GIBSON	0.1753	Confirmed LTF	0.1753
BLUEG	BLUEG	0.5399	Confirmed LTF	0.5399
TRIMBLE	TRIMBLE	0.1708	Confirmed LTF	0.1708
CATAWBA	CATAWBA	0.3164	Confirmed LTF	0.3164

11.6.44 Index 44

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163341660	314637	6EDENTON	DVP	313885	6WALBMRL	DVP	1	DVP_P7-1: LN 25-2034-A	tower	897.0	193.95	214.11	DC	180.87

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.4748	50/50	0.4748
315292	1DOMTR78	6.2507	50/50	6.2507
315293	1DOMTR9	32.3295	50/50	32.3295
315294	1DOMTR10	39.6195	50/50	39.6195
315614	AA2-178 C	7.9902	50/50	7.9902
920692	AA2-178 E	21.7049	50/50	21.7049
925121	AB2-169 C	2.8960	50/50	2.8960
925122	AB2-169 E	16.4731	50/50	16.4731
934521	AD1-076 C	282.9600	50/50	282.9600
934522	AD1-076 E	144.0829	50/50	144.0829
940491	AE2-034 C	37.9835	50/50	37.9835
940492	AE2-034 E	16.2787	50/50	16.2787
945711	AF1-236 C O1	415.8293	50/50	415.8293
945712	AF1-236 E O1	256.8411	50/50	256.8411
957531	AF2-047 C	90.2561	50/50	90.2561
957532	AF2-047 E	45.3994	50/50	45.3994
959511	AF2-242 C	11.8062	50/50	11.8062
959512	AF2-242 E	9.1826	50/50	9.1826
965631	AG1-431	240.7433	50/50	240.7433
966931	AG1-431A	180.8740	50/50	180.8740
WEC	WEC	0.0277	Confirmed LTF	0.0277
LGEE	LGEE	0.0572	Confirmed LTF	0.0572
CPL	CPL	0.4545	Confirmed LTF	0.4545
CBM-W2	CBM-W2	1.3888	Confirmed LTF	1.3888
NY	NY	0.0619	Confirmed LTF	0.0619
TVA	TVA	0.2702	Confirmed LTF	0.2702
O-066	O-066	0.8480	Confirmed LTF	0.8480
SIGE	SIGE	0.0237	Confirmed LTF	0.0237
CBM-S2	CBM-S2	4.7189	Confirmed LTF	4.7189
CBM-S1	CBM-S1	0.0665	Confirmed LTF	0.0665
G-007	G-007	0.1334	Confirmed LTF	0.1334
MEC	MEC	0.1764	Confirmed LTF	0.1764
LAGN	LAGN	0.3378	Confirmed LTF	0.3378
CBM-W1	CBM-W1	1.1356	Confirmed LTF	1.1356

11.6.45 Index 45

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169245199	314638	6ELIZ CT	DVP	314647	6SHAWBRO	DVP	1	DVP_P1-2: LN 247	single	571.52	156.09	170.75	DC	83.81

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

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

11.6.46 Index 46

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163341635	314662	6S HERTFORD	DVP	314651	6WINFALL	DVP	1	DVP_P7-1: LN 25-2034-A	tower	897.0	226.26	246.42	DC	180.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314594	6PLYMOTH	0.4747	50/50	0.4747
315292	1DOMTR78	6.2491	50/50	6.2491
315293	1DOMTR9	32.3209	50/50	32.3209
315294	1DOMTR10	39.6090	50/50	39.6090
315611	6Z1-036WIND	5.7922	50/50	5.7922
315614	AA2-178 C	7.9883	50/50	7.9883
916042	Z1-036 E (Suspended)	245.9800	50/50	245.9800
920692	AA2-178 E	21.6998	50/50	21.6998
925121	AB2-169 C	2.8947	50/50	2.8947
925122	AB2-169 E	16.4658	50/50	16.4658
934521	AD1-076 C	282.8959	50/50	282.8959
934522	AD1-076 E	144.0502	50/50	144.0502
940491	AE2-034 C	37.9747	50/50	37.9747
940492	AE2-034 E	16.2749	50/50	16.2749
945711	AF1-236 C O1	415.7328	50/50	415.7328
945712	AF1-236 E O1	256.7814	50/50	256.7814
957531	AF2-047 C	90.2352	50/50	90.2352
957532	AF2-047 E	45.3888	50/50	45.3888
959511	AF2-242 C	11.7972	50/50	11.7972
959512	AF2-242 E	9.1756	50/50	9.1756
965631	AG1-431	240.6874	50/50	240.6874
966931	AG1-431A	180.8320	50/50	180.8320
WEC	WEC	0.0214	Confirmed LTF	0.0214
LGEE	LGEE	0.0446	Confirmed LTF	0.0446
CPL	CPL	0.4409	Confirmed LTF	0.4409
CBM-W2	CBM-W2	1.2096	Confirmed LTF	1.2096
NY	NY	0.0730	Confirmed LTF	0.0730
TVA	TVA	0.2422	Confirmed LTF	0.2422
O-066	O-066	0.9826	Confirmed LTF	0.9826
SIGE	SIGE	0.0237	Confirmed LTF	0.0237
CBM-S2	CBM-S2	4.5101	Confirmed LTF	4.5101
CBM-S1	CBM-S1	0.0589	Confirmed LTF	0.0589
G-007	G-007	0.1544	Confirmed LTF	0.1544
MEC	MEC	0.1446	Confirmed LTF	0.1446
LAGN	LAGN	0.3028	Confirmed LTF	0.3028
CBM-W1	CBM-W1	0.8552	Confirmed LTF	0.8552

11.6.47 Index 47

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163830069	314902	8CARSON	DVP	314914	8MDLTHAN	DVP	1	DVP_P1-2: LN 557	single	3218.56	131.11	131.36	DC	49.15

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	7.5500	Adder	8.88
313526	AB2-022 C	0.5366	80/20	0.5366
314295	6BIRDNECK	0.0630	80/20	0.0630
314491	3PENDLTN	0.4697	80/20	0.4697
314507	3THOMPSN	0.4699	80/20	0.4699
314572	3EMPORIA	0.4676	Adder	0.55
314638	6ELIZ CT	0.3137	80/20	0.3137
314639	6TANGLEW	0.5749	80/20	0.5749
314643	3O INLET	0.6257	80/20	0.6257
315098	1CHESPKA	0.6212	80/20	0.6212
315099	1CHESPKB (Deactivation : 31/05/2019)	4.3068	80/20	4.3068
315102	1BRUNSWICKG1	14.1679	80/20	14.1679
315103	1BRUNSWICKG2	14.1679	80/20	14.1679
315104	1BRUNSWICKG3	14.1679	80/20	14.1679
315105	1BRUNSWICKS1	29.4337	80/20	29.4337
315108	1ELIZAR1	4.5829	80/20	4.5829
315109	1ELIZAR2	4.5033	80/20	4.5033
315110	1ELIZAR3	4.6415	80/20	4.6415
315131	1EDGECEMA (Deactivation : 22/04/2019)	10.3333	Adder	12.16
315132	1EDGECEMB (Deactivation : 22/04/2019)	10.3333	Adder	12.16
315153	1CLOVER1	17.7913	80/20	17.7913
315154	1CLOVER2	17.6140	80/20	17.6140
315233	1SURREY 2	34.8453	80/20	34.8453
315241	1Z1-086 GT1	18.2796	80/20	18.2796
315242	1Z1-086 GT2	18.2796	80/20	18.2796
315243	1Z1-086 GT3	18.2796	80/20	18.2796
315244	1Z1-086 ST	31.7767	80/20	31.7767
315260	1GOSPORTA	0.4960	80/20	0.4960
315261	1GOSPORTB	0.6335	80/20	0.6335
315262	1GOSPORTC	0.5377	80/20	0.5377
315293	1DOMTR9	8.1893	Adder	9.63
315294	1DOMTR10	10.0359	Adder	11.81
315603	6AA1-139SOLA	3.2950	80/20	3.2950
315605	6W1-029WIND	1.5878	80/20	1.5878
316103	AB2-015 C	10.1762	Adder	11.97
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	7.5604	Adder	8.89
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	7.5604	Adder	8.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316114	AB2-068 ST (Withdrawn : 01/11/2021)	13.0977	Adder	15.41
316134	AC1-107 G1	94.2512	Adder	110.88
316135	AC1-107 G2	94.2512	Adder	110.88
316136	AC1-107 G3	94.2689	Adder	110.9
316140	AB2-099 C (Suspended)	0.6881	Adder	0.81
923991	AB2-040 C O1	8.2228	Adder	9.67
925591	AC1-034 C	7.6131	Adder	8.96
926070	AC1-086 C	23.5230	Adder	27.67
926201	AC1-098 C	7.0213	Adder	8.26
926211	AC1-099 C	2.3529	Adder	2.77
926661	AC1-147 C	0.5253	80/20	0.5253
926754	AC1-161 C	47.6426	80/20	47.6426
927024	AC1-189 C	9.8124	Adder	11.54
927145	AC1-208 C	10.2195	Adder	12.02
932044	AC2-012 C	15.0634	80/20	15.0634
932591	AC2-079 C O1	6.1233	Adder	7.2
932631	AC2-084 C	10.0091	Adder	11.78
933294	AC2-141 C	47.6426	80/20	47.6426
933731	AC2-196 C	0.4224	80/20	0.4224
933991	AD1-023 C	15.7986	Adder	18.59
934061	AD1-033 C	11.2346	80/20	11.2346
934331	AD1-057 C O1	11.2396	Adder	13.22
934521	AD1-076 C	65.6872	Adder	77.28
934615	AD1-087 C	9.4738	Adder	11.15
935171	AD1-152 C O1	10.4060	Adder	12.24
936401	AD2-051 C O1	10.4201	Adder	12.26
936661	AD2-085 C	3.8675	Adder	4.55
937221	AD2-160 C O1	8.7264	80/20	8.7264
937481	AD2-202 C O1	2.7749	Adder	3.26
938494	AE1-068_C1	54.8688	80/20	54.8688
938497	AE1-068_C2	54.8688	80/20	54.8688
938504	AE1-069_C1	41.8162	80/20	41.8162
938507	AE1-069_C2	45.0878	80/20	45.0878
938535	AE1-072 C	26.2013	80/20	26.2013
938771	AE1-103 C	4.3304	Adder	5.09
939414	AE1-173_C1	55.3526	80/20	55.3526
939415	AE1-173_C2	47.4451	80/20	47.4451
939416	AE1-173_C3	55.3526	80/20	55.3526
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	256.7623	80/20	256.7623
940471	AE2-031 C	59.8386	80/20	59.8386
940481	AE2-033 C	17.7013	Adder	20.83
940491	AE2-034 C	8.7736	Adder	10.32
940541	AE2-040	3.1353	Adder	3.69
940571	AE2-044 C	4.9863	Adder	5.87
940641	AE2-051 C O1	31.4739	80/20	31.4739
940891	AE2-078 C	2.3856	Adder	2.81
940901	AE2-079 C	2.3856	Adder	2.81
941031	AE2-094 C	72.1636	80/20	72.1636
941101	AE2-104 C O1	4.0319	Adder	4.74
941281	AE2-122 C O1	42.2912	80/20	42.2912
941291	AE2-123 C O1	43.4623	80/20	43.4623

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941301	AE2-124 C O1	39.5500	80/20	39.5500
941501	AE2-147 C	23.2245	80/20	23.2245
941591	AE2-156 O1	26.4740	80/20	26.4740
942131	AE2-225 C	3.1327	80/20	3.1327
942171	AE2-229 C	2.3495	80/20	2.3495
942341	AE2-247 C	1.6747	Adder	1.97
942401	AE2-253 C	9.1787	80/20	9.1787
942471	AE2-260 C O1	16.0617	Adder	18.9
942931	AE2-313 C	64.6683	80/20	64.6683
943171	AE2-346 C	1.6513	Adder	1.94
943461	AF1-017 C	1.5152	Adder	1.78
943611	AF1-032 C	2.5584	80/20	2.5584
943621	AF1-033 C	2.3856	Adder	2.81
944011	AF1-069 C	23.5786	80/20	23.5786
944141	AF1-082	3.2055	Adder	3.77
944581	AF1-123 C O1	73.0944	80/20	73.0944
944591	AF1-124 C O1	73.0944	80/20	73.0944
944601	AF1-125 C O1	73.0944	80/20	73.0944
944871	AF1-152 C	7.7415	80/20	7.7415
945711	AF1-236 C O1	96.0504	Adder	113.0
945811	AF1-246 C O1	11.8096	80/20	11.8096
946011	AF1-266	14.8174	Adder	17.43
946281	AF1-292 C	1.6652	Adder	1.96
957481	AF2-042 C	84.3540	80/20	84.3540
957491	AF2-043 C	3.1327	80/20	3.1327
957521	AF2-046 C	19.6526	Adder	23.12
957531	AF2-047 C	20.8478	Adder	24.53
957631	AF2-057	5.2854	80/20	5.2854
957821	AF2-076 C	7.7589	80/20	7.7589
957861	AF2-080 C	8.9120	Adder	10.48
957871	AF2-081 C	14.8607	80/20	14.8607
958161	AF2-110 C	1.6622	Adder	1.96
959511	AF2-242 C	8.6717	Adder	10.2
959751	AF2-266	10.8553	Adder	12.77
960081	AF2-299 C	2.8065	Adder	3.3
961091	AF2-400 C	0.5495	Adder	0.65
961671	AG1-007 C	0.7398	Adder	1.64
961681	AG1-008 C	10.4367	Adder	23.17
961851	AG1-027 C	10.7721	Adder	23.91
961931	AG1-036 C	0.8446	Adder	1.87
961941	AG1-037 C	0.3126	Adder	0.69
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.1494	Adder	2.55
962331	AG1-082 C	1.2503	Adder	2.78
962341	AG1-083 C	1.2503	Adder	2.78
962351	AG1-084 C	1.0933	Adder	2.43
962361	AG1-085 C	1.0933	Adder	2.43
962491	AG1-098 C O1	7.6127	Adder	16.9
962561	AG1-105 C O1	6.6772	Adder	14.82
962571	AG1-106 C	3.4670	Adder	7.7
963041	AG1-153 C	9.9411	80/20	9.9411
963111	AG1-160 C	10.1043	80/20	10.1043
963291	AG1-178 C O1	111.7729	80/20	111.7729

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963351	AG1-184 O1	60.2171	80/20	60.2171
963821	AG1-235 C O1	36.0356	80/20	36.0356
964491	AG1-312 C O1	11.8526	Adder	26.31
964501	AG1-313 C O1	2.7845	Adder	6.18
964801	AG1-343 C	3.6581	Adder	8.12
964931	AG1-357 C	35.9940	80/20	35.9940
964951	AG1-359 O1	40.1595	80/20	40.1595
965001	AG1-364 C O1	10.5864	80/20	10.5864
965181	AG1-383 C	4.1217	80/20	4.1217
965291	AG1-394 C	1.2544	Adder	2.78
965631	AG1-431	29.4723	Adder	65.42
965691	AG1-437 C O1	6.4283	Adder	14.27
965701	AG1-438 C O1	6.4283	Adder	14.27
965711	AG1-439 C O1	14.4982	Adder	32.18
965741	AG1-442 O1	3.7498	Adder	8.32
965751	AG1-443 O1	3.7498	Adder	8.32
965761	AG1-444 O1	7.7324	Adder	17.16
965811	AG1-449	41.9558	80/20	41.9558
966361	AG1-505 C	28.8882	80/20	28.8882
966371	AG1-506 C	28.8882	80/20	28.8882
966491	AG1-518 O1	13.0530	80/20	13.0530
966611	AG1-531 C	3.4792	Adder	7.72
966621	AG1-532 C	0.8032	Adder	1.78
966801	AG1-551 C	1.4086	Adder	3.13
966811	AG1-552 C	1.2461	Adder	2.77
966931	AG1-431A	22.1430	Adder	49.15
WEC	WEC	1.0011	Confirmed LTF	1.0011
LGEE	LGEE	2.0809	Confirmed LTF	2.0809
CPLE	CPLE	11.8380	Confirmed LTF	11.8380
CBM-W2	CBM-W2	47.0221	Confirmed LTF	47.0221
NY	NY	2.2175	Confirmed LTF	2.2175
TVA	TVA	9.0608	Confirmed LTF	9.0608
SIGE	SIGE	0.8511	Confirmed LTF	0.8511
CBM-S2	CBM-S2	140.9087	Confirmed LTF	140.9087
CBM-S1	CBM-S1	2.2412	Confirmed LTF	2.2412
MEC	MEC	6.1892	Confirmed LTF	6.1892
LAGN	LAGN	11.2437	Confirmed LTF	11.2437
AA2-074	AA2-074	7.8165	LTF	7.8165
CBM-W1	CBM-W1	41.2609	Confirmed LTF	41.2609

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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
163830001	314903	8CHCKAHM	DVP	314908	8ELMONT	DVP	1	DVP_P1-2: LN 563	single	2442.12	184.87	185.09	DC	52.73

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.6083	80/20	0.6083
314295	6BIRDNECK	0.0728	80/20	0.0728
314421	6WINCHST	0.2201	80/20	0.2201
314491	3PENDLTN	0.5432	80/20	0.5432
314507	3THOMPSN	0.5459	80/20	0.5459
314638	6ELIZ CT	0.3556	80/20	0.3556
314639	6TANGLEW	0.6491	80/20	0.6491
314643	3O INLET	0.7144	80/20	0.7144
315092	1YORKTN3	39.1963	80/20	39.1963
315098	1CHESPKA	0.7220	80/20	0.7220
315099	1CHESPKB (Deactivation : 31/05/2019)	5.0053	80/20	5.0053
315108	1ELIZAR1	5.3195	80/20	5.3195
315109	1ELIZAR2	5.2271	80/20	5.2271
315110	1ELIZAR3	5.3876	80/20	5.3876
315116	1SURRY 1	36.1526	80/20	36.1526
315120	1GRAVEL4	3.7197	80/20	3.7197
315233	1SURRY 2	48.5856	80/20	48.5856
315260	1GOSPORTA	0.5763	80/20	0.5763
315261	1GOSPORTB	0.7361	80/20	0.7361
315262	1GOSPORTC	0.6247	80/20	0.6247
315293	1DOMTR9	8.4474	Adder	9.94
315294	1DOMTR10	10.3521	Adder	12.18
315603	6AA1-139SOLA	3.7714	80/20	3.7714
315605	6W1-029WIND	1.7838	80/20	1.7838
315611	6Z1-036WIND	1.7276	80/20	1.7276
316103	AB2-015 C	10.8609	Adder	12.78
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	165.2340	80/20	165.2340
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	165.2340	80/20	165.2340
316114	AB2-068 ST (Withdrawn : 01/11/2021)	286.2505	80/20	286.2505
316132	AB2-190 C	21.8808	Adder	25.74
316134	AC1-107 G1	310.2793	80/20	310.2793
316135	AC1-107 G2	310.2793	80/20	310.2793
316136	AC1-107 G3	310.3375	80/20	310.3375
316140	AB2-099 C (Suspended)	0.6942	Adder	0.82
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.4566	80/20	0.4566
316258	AE1-162 C	0.5400	80/20	0.5400
925863	AC1-065 C	8.9827	Adder	10.57

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926661	AC1-147 C	0.6105	80/20	0.6105
926754	AC1-161 C	56.7826	80/20	56.7826
926784	AC1-164 C	50.7130	Adder	59.66
932044	AC2-012 C	17.5064	80/20	17.5064
932591	AC2-079 C O1	6.8775	Adder	8.09
933294	AC2-141 C	56.7826	80/20	56.7826
933731	AC2-196 C	0.4864	80/20	0.4864
933991	AD1-023 C	16.4881	Adder	19.4
934014	AD1-025 C	19.0719	Adder	22.44
934061	AD1-033 C	12.9436	80/20	12.9436
934141	AD1-041 C	6.4875	Adder	7.63
934521	AD1-076 C	69.1001	Adder	81.29
934575	AD1-082 C	0.5273	Adder	0.62
935111	AD1-144 C	0.4519	80/20	0.4519
935164	AD1-151 C	17.5828	Adder	20.69
936041	AD2-007 C	0.9111	Adder	1.07
936051	AD2-008 C	3.3204	Adder	3.91
936401	AD2-051 C O1	10.6005	Adder	12.47
936661	AD2-085 C	4.3566	Adder	5.13
937221	AD2-160 C O1	10.0056	80/20	10.0056
938494	AE1-068_C1	34.5957	Adder	40.7
938497	AE1-068_C2	34.5957	Adder	40.7
938504	AE1-069_C1	26.3658	Adder	31.02
938507	AE1-069_C2	28.4286	Adder	33.45
938535	AE1-072 C	29.9356	80/20	29.9356
938771	AE1-103 C	4.7010	Adder	5.53
939414	AE1-173_C1	48.4949	80/20	48.4949
939415	AE1-173_C2	41.5670	80/20	41.5670
939416	AE1-173_C3	48.4949	80/20	48.4949
939431	AE1-175 C	4.0622	80/20	4.0622
939611	AE1-191 C	12.9749	Adder	15.26
940061	AE2-000BC O1	11.4939	Adder	13.52
940231	AE2-005 C	1.6332	Adder	1.92
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	298.0885	80/20	298.0885
940471	AE2-031 C	37.7130	Adder	44.37
940491	AE2-034 C	9.4119	Adder	11.07
940551	AE2-041	8.8624	Adder	10.43
940641	AE2-051 C O1	25.3584	80/20	25.3584
940891	AE2-078 C	3.6585	80/20	3.6585
940901	AE2-079 C	3.6585	80/20	3.6585
941031	AE2-094 C	45.4213	Adder	53.44
941101	AE2-104 C O1	5.3617	80/20	5.3617
941281	AE2-122 C O1	48.8761	80/20	48.8761
941291	AE2-123 C O1	50.2294	80/20	50.2294
941301	AE2-124 C O1	45.6816	80/20	45.6816
941501	AE2-147 C	26.0919	80/20	26.0919
941591	AE2-156 O1	30.7590	80/20	30.7590
942131	AE2-225 C	3.5741	80/20	3.5741
942171	AE2-229 C	2.6806	80/20	2.6806
942341	AE2-247 C	1.8863	Adder	2.22
942401	AE2-253 C	10.5242	80/20	10.5242
942551	AE2-270	29.8924	Adder	35.17

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942931	AE2-313 C	40.7636	Adder	47.96
943171	AE2-346 C	1.6661	Adder	1.96
943431	AF1-014 C	1.5473	Adder	1.82
943461	AF1-017 C	1.7067	Adder	2.01
943471	AF1-018	8.8624	Adder	10.43
943611	AF1-032 C	2.9188	80/20	2.9188
943621	AF1-033 C	3.6585	80/20	3.6585
944011	AF1-069 C	14.8409	Adder	17.46
944581	AF1-123 C O1	84.0753	80/20	84.0753
944591	AF1-124 C O1	84.0753	80/20	84.0753
944601	AF1-125 C O1	84.0753	80/20	84.0753
944871	AF1-152 C	8.6973	80/20	8.6973
945361	AF1-201 C O1	26.6814	80/20	26.6814
945711	AF1-236 C O1	103.0384	Adder	121.22
957491	AF2-043 C	3.5741	80/20	3.5741
957521	AF2-046 C	19.9647	Adder	23.49
957531	AF2-047 C	22.3646	Adder	26.31
957601	AF2-054 C	2.6029	Adder	3.06
957631	AF2-057	6.1426	80/20	6.1426
957711	AF2-065 C	15.2451	Adder	17.94
957821	AF2-076 C	8.7747	80/20	8.7747
957831	AF2-077 C	3.4444	80/20	3.4444
957871	AF2-081 C	17.0094	80/20	17.0094
958161	AF2-110 C	2.2104	80/20	2.2104
959511	AF2-242 C	8.5768	Adder	10.09
961091	AF2-400 C	0.5865	Adder	0.69
961611	AG1-000B C	10.5837	Adder	23.49
961681	AG1-008 C	10.6025	Adder	23.53
961711	AG1-011	17.1687	Adder	38.11
961851	AG1-027 C	26.6172	80/20	26.6172
961931	AG1-036 C	0.8549	Adder	1.9
961941	AG1-037 C	0.3154	Adder	0.7
962131	AG1-057	2.3485	Adder	5.21
962321	AG1-081 C (Withdrawn : 01/15/2021)	3.3259	80/20	3.3259
962331	AG1-082 C	1.2615	Adder	2.8
962341	AG1-083 C	1.2615	Adder	2.8
962351	AG1-084 C	1.1000	Adder	2.44
962361	AG1-085 C	1.1000	Adder	2.44
962531	AG1-102 C	1.7681	80/20	1.7681
962961	AG1-145 C	3.6652	80/20	3.6652
962971	AG1-146 C	1.8384	Adder	4.08
962981	AG1-147 C	4.2896	Adder	9.52
963041	AG1-153 C	3.3297	Adder	7.39
963111	AG1-160 C	3.3798	Adder	7.5
963221	AG1-171 C	1.2425	Adder	2.76
963231	AG1-172 C	1.2425	Adder	2.76
963241	AG1-173 C	1.2425	Adder	2.76
963251	AG1-174 C	1.2425	Adder	2.76
963261	AG1-175 C	1.2425	Adder	2.76
963291	AG1-178 C O1	93.1181	80/20	93.1181
963351	AG1-184 O1	50.1669	80/20	50.1669
963821	AG1-235 C O1	41.4126	80/20	41.4126

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964491	AG1-312 C O1	12.1221	Adder	26.91
964801	AG1-343 C	3.7374	Adder	8.3
964931	AG1-357 C	12.1894	Adder	27.06
964951	AG1-359 O1	46.2435	80/20	46.2435
965001	AG1-364 C O1	12.3004	80/20	12.3004
965181	AG1-383 C	4.7390	80/20	4.7390
965291	AG1-394 C	1.2828	Adder	2.85
965631	AG1-431	31.6165	Adder	70.18
965691	AG1-437 C O1	6.6656	Adder	14.8
965701	AG1-438 C O1	6.6656	Adder	14.8
965741	AG1-442 O1	3.8883	Adder	8.63
965751	AG1-443 O1	3.8883	Adder	8.63
965811	AG1-449	14.0145	Adder	31.11
966361	AG1-505 C	9.7134	Adder	21.56
966371	AG1-506 C	9.7134	Adder	21.56
966491	AG1-518 O1	14.8920	80/20	14.8920
966611	AG1-531 C	10.5001	80/20	10.5001
966931	AG1-431A	23.7540	Adder	52.73
WEC	WEC	0.5714	Confirmed LTF	0.5714
LGEE	LGEE	1.1894	Confirmed LTF	1.1894
CPL	CPL	9.3434	Confirmed LTF	9.3434
CBM-W2	CBM-W2	31.1539	Confirmed LTF	31.1539
NY	NY	1.8006	Confirmed LTF	1.8006
TVA	TVA	6.2356	Confirmed LTF	6.2356
SIGE	SIGE	0.5991	Confirmed LTF	0.5991
CBM-S2	CBM-S2	107.7304	Confirmed LTF	107.7304
CBM-S1	CBM-S1	1.5158	Confirmed LTF	1.5158
MEC	MEC	3.7945	Confirmed LTF	3.7945
LAGN	LAGN	7.7578	Confirmed LTF	7.7578
AA2-074	AA2-074	6.1659	LTF	6.1659
CBM-W1	CBM-W1	22.9648	Confirmed LTF	22.9648

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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
168825626	314903	8CHCKAHM	DVP	314214	6CHCKAHM	DVP	1	DVP_P1-2: LN 557	single	934.92	212.1	213.35	DC	14.46

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.1798	80/20	0.1798
314295	6BIRDNECK	0.0219	80/20	0.0219
314491	3PENDLTN	0.1632	80/20	0.1632
314507	3THOMPSN	0.1614	80/20	0.1614
314638	6ELIZ CT	0.1051	80/20	0.1051
314639	6TANGLEW	0.1903	80/20	0.1903
314643	3O INLET	0.2146	80/20	0.2146
315098	1CHESPKA	0.2139	80/20	0.2139
315099	1CHESPKB (Deactivation : 31/05/2019)	1.4832	80/20	1.4832
315108	1ELIZAR1	1.5929	80/20	1.5929
315109	1ELIZAR2	1.5653	80/20	1.5653
315110	1ELIZAR3	1.6133	80/20	1.6133
315115	1S HAMPT1	0.5234	80/20	0.5234
315233	1SURREY 2	19.8580	80/20	19.8580
315242	1Z1-086 GT2	3.1663	80/20	3.1663
315243	1Z1-086 GT3	3.1663	80/20	3.1663
315244	1Z1-086 ST	5.5042	80/20	5.5042
315260	1GOSPORTA	0.1706	80/20	0.1706
315261	1GOSPORTB	0.2180	80/20	0.2180
315262	1GOSPORTC	0.1850	80/20	0.1850
315292	1DOMTR78	0.5064	80/20	0.5064
315293	1DOMTR9	2.6190	80/20	2.6190
315294	1DOMTR10	3.2095	80/20	3.2095
315602	1HOLLOMANSOL	0.5115	80/20	0.5115
315603	6AA1-139SOLA	1.1387	80/20	1.1387
315605	6W1-029WIND	0.5141	80/20	0.5141
315611	6Z1-036WIND	0.4911	80/20	0.4911
315614	AA2-178 C	0.6388	80/20	0.6388
316103	AB2-015 C	3.1900	80/20	3.1900
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	119.3964	80/20	119.3964
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	119.3964	80/20	119.3964
316114	AB2-068 ST (Withdrawn : 01/11/2021)	206.8417	80/20	206.8417
316134	AC1-107 G1	224.2047	80/20	224.2047
316135	AC1-107 G2	224.2047	80/20	224.2047
316136	AC1-107 G3	224.2467	80/20	224.2467
316150	AD2-215 C (Withdrawn : 01/14/2021)	0.1161	80/20	0.1161
316258	AE1-162 C	0.1123	80/20	0.1123

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925121	AB2-169 C	0.3687	80/20	0.3687
925863	AC1-065 C	-2.9120	Adder	-3.43
926661	AC1-147 C	0.1809	80/20	0.1809
926754	AC1-161 C	20.8232	80/20	20.8232
926784	AC1-164 C	-31.4326	Adder	-36.98
932044	AC2-012 C	5.1876	80/20	5.1876
933294	AC2-141 C	20.8232	80/20	20.8232
933731	AC2-196 C	0.1487	80/20	0.1487
933991	AD1-023 C	5.1228	80/20	5.1228
934061	AD1-033 C	3.9488	80/20	3.9488
934141	AD1-041 C	-1.9518	Adder	-2.3
934521	AD1-076 C	21.7595	80/20	21.7595
935111	AD1-144 C	0.1149	80/20	0.1149
936401	AD2-051 C O1	3.1450	80/20	3.1450
937221	AD2-160 C O1	3.0320	80/20	3.0320
938221	AE1-035 C	0.1279	80/20	0.1279
938494	AE1-068_C1	9.4974	80/20	9.4974
938497	AE1-068_C2	9.4974	80/20	9.4974
938504	AE1-069_C1	7.2381	80/20	7.2381
938507	AE1-069_C2	7.8044	80/20	7.8044
938535	AE1-072 C	9.0031	80/20	9.0031
938771	AE1-103 C	1.4009	80/20	1.4009
939414	AE1-173_C1	13.3510	80/20	13.3510
939415	AE1-173_C2	11.4437	80/20	11.4437
939416	AE1-173_C3	13.3510	80/20	13.3510
940231	AE2-005 C	-0.5295	Adder	-0.62
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	89.1450	80/20	89.1450
940471	AE2-031 C	10.3460	80/20	10.3460
940491	AE2-034 C	3.0366	80/20	3.0366
940641	AE2-051 C O1	6.6699	80/20	6.6699
941031	AE2-094 C	12.4755	80/20	12.4755
941101	AE2-104 C O1	1.4033	80/20	1.4033
941281	AE2-122 C O1	14.7284	80/20	14.7284
941291	AE2-123 C O1	15.1363	80/20	15.1363
941301	AE2-124 C O1	13.7882	80/20	13.7882
941501	AE2-147 C	7.5195	80/20	7.5195
941591	AE2-156 O1	9.1500	80/20	9.1500
942131	AE2-225 C	1.0211	80/20	1.0211
942151	AE2-227 C	-0.7842	Adder	-0.92
942171	AE2-229 C	0.7658	80/20	0.7658
942401	AE2-253 C	3.1892	80/20	3.1892
942931	AE2-313 C	11.1815	80/20	11.1815
943611	AF1-032 C	0.8339	80/20	0.8339
944011	AF1-069 C	4.0762	80/20	4.0762
944581	AF1-123 C O1	26.7901	80/20	26.7901
944591	AF1-124 C O1	26.7901	80/20	26.7901
944601	AF1-125 C O1	26.7901	80/20	26.7901
944871	AF1-152 C	2.5065	80/20	2.5065
945711	AF1-236 C O1	33.2435	80/20	33.2435
957491	AF2-043 C	1.0211	80/20	1.0211
957531	AF2-047 C	7.2155	80/20	7.2155
957631	AF2-057	1.8202	80/20	1.8202

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957821	AF2-076 C	2.4858	80/20	2.4858
957871	AF2-081 C	5.1358	80/20	5.1358
958161	AF2-110 C	0.5785	80/20	0.5785
959641	AF2-255 C	-0.1960	Adder	-0.23
961091	AF2-400 C	0.1723	80/20	0.1723
961851	AG1-027 C	6.8827	80/20	6.8827
963291	AG1-178 C O1	25.4753	80/20	25.4753
963351	AG1-184 O1	13.7247	80/20	13.7247
963821	AG1-235 C O1	12.6090	80/20	12.6090
964491	AG1-312 C O1	6.8566	80/20	6.8566
964951	AG1-359 O1	14.1390	80/20	14.1390
965001	AG1-364 C O1	3.6568	80/20	3.6568
965181	AG1-383 C	1.4444	80/20	1.4444
965631	AG1-431	19.2463	80/20	19.2463
965691	AG1-437 C O1	3.8640	80/20	3.8640
965701	AG1-438 C O1	3.8640	80/20	3.8640
965741	AG1-442 O1	2.2540	80/20	2.2540
965751	AG1-443 O1	2.2540	80/20	2.2540
965811	AG1-449	7.2541	80/20	7.2541
966491	AG1-518 O1	4.2545	80/20	4.2545
966931	AG1-431A	14.4600	80/20	14.4600
WEC	WEC	0.1695	Confirmed LTF	0.1695
LGEE	LGEE	0.3493	Confirmed LTF	0.3493
CPL	CPL	2.1983	Confirmed LTF	2.1983
CBM-W2	CBM-W2	8.1894	Confirmed LTF	8.1894
NY	NY	0.3534	Confirmed LTF	0.3534
TVA	TVA	1.5890	Confirmed LTF	1.5890
SIGE	SIGE	0.1392	Confirmed LTF	0.1392
CBM-S2	CBM-S2	25.6720	Confirmed LTF	25.6720
CBM-S1	CBM-S1	0.3914	Confirmed LTF	0.3914
MEC	MEC	1.0615	Confirmed LTF	1.0615
LAGN	LAGN	1.9775	Confirmed LTF	1.9775
AA2-074	AA2-074	1.4512	LTF	1.4512
CBM-W1	CBM-W1	6.9820	Confirmed LTF	6.9820

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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
163829968	314908	8ELMONT	DVP	314911	8LADYSMITH	DVP	1	DVP_P1-2: LN 576	single	2442.12	219.4	219.48	DC	57.21

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314229	6MT RD221	0.2111	80/20	0.2111
314236	6NRTHEST	0.3205	80/20	0.3205
314241	6OLDCHRC	1.4851	80/20	1.4851
314250	6ROCKVILLE	0.5532	80/20	0.5532
314309	6IRON208	0.7631	80/20	0.7631
314421	6WINCHST	0.2285	80/20	0.2285
315058	1CHESTF3 (Deactivation : 13/12/2018)	32.0440	80/20	32.0440
315059	1CHESTF4 (Deactivation : 13/12/2018)	51.9433	80/20	51.9433
315060	1CHESTF5 (Deactivation : 31/05/2023)	114.1420	80/20	114.1420
315061	1CHESTG7	6.7247	80/20	6.7247
315062	1CHESTS7	3.0871	80/20	3.0871
315063	1CHESTG8	6.6167	80/20	6.6167
315064	1CHESTS8	3.4061	80/20	3.4061
315065	1CHESTF6 (Deactivation : 31/05/2023)	182.6276	Adder	214.86
315067	1DARBY 1	4.4333	80/20	4.4333
315068	1DARBY 2	4.4384	80/20	4.4384
315069	1DARBY 3	4.4540	80/20	4.4540
315070	1DARBY 4	4.4592	80/20	4.4592
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0320	80/20	0.0320
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0320	80/20	0.0320
315076	1HOPPOLC	2.6791	80/20	2.6791
315077	1HOPHCF1	4.1877	80/20	4.1877
315078	1HOPHCF2	4.1877	80/20	4.1877
315079	1HOPHCF3	4.1877	80/20	4.1877
315080	1HOPHCF4	6.3573	80/20	6.3573
315083	1SPRUNCA (Deactivation : 12/01/2021)	15.5433	Adder	18.29
315084	1SPRUNCB (Deactivation : 12/01/2021)	15.5433	Adder	18.29
315092	1YORKTN3	40.1074	80/20	40.1074
315233	1SURRY 2	43.8786	80/20	43.8786
316033	AB2-134 C	3.6034	80/20	3.6034
316075	AC2-137 C	0.5978	80/20	0.5978
316083	AB2-161 C	4.9845	Adder	5.86
316103	AB2-015 C	12.2332	Adder	14.39
316108	AB2-160 C	8.0636	Adder	9.49

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	112.2311	80/20	112.2311
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	112.2311	80/20	112.2311
316114	AB2-068 ST (Withdrawn : 01/11/2021)	194.4286	80/20	194.4286
316132	AB2-190 C	35.6664	80/20	35.6664
316134	AC1-107 G1	210.7495	80/20	210.7495
316135	AC1-107 G2	210.7495	80/20	210.7495
316136	AC1-107 G3	210.7890	80/20	210.7890
925863	AC1-065 C	10.6892	Adder	12.58
926754	AC1-161 C	53.7550	80/20	53.7550
926784	AC1-164 C	73.8929	80/20	73.8929
927044	AC1-191 C	14.0019	Adder	16.47
927225	AC1-216 C	2.7506	80/20	2.7506
932044	AC2-012 C	15.1881	Adder	17.87
932501	AC2-070 C (Withdrawn : 01/22/2021)	0.4880	80/20	0.4880
932581	AC2-078 C O1	5.9830	Adder	7.04
932591	AC2-079 C O1	8.4424	Adder	9.93
933294	AC2-141 C	53.7550	80/20	53.7550
934014	AD1-025 C	29.9650	80/20	29.9650
934061	AD1-033 C	11.1488	Adder	13.12
934141	AD1-041 C	7.5903	Adder	8.93
934575	AD1-082 C	11.3595	Adder	13.36
935164	AD1-151 C	28.6605	80/20	28.6605
936041	AD2-007 C	1.4315	80/20	1.4315
936051	AD2-008 C	5.2168	80/20	5.2168
936151	AD2-021	0.0682	80/20	0.0682
936661	AD2-085 C	5.0562	Adder	5.95
936761	AD2-097 C	2.9479	Adder	3.47
937221	AD2-160 C O1	8.6556	Adder	10.18
938535	AE1-072 C	26.0023	Adder	30.59
938634	AE1-085 C	13.1232	Adder	15.44
938771	AE1-103 C	5.2299	Adder	6.15
939195	AE1-149 C	15.7651	Adder	18.55
939414	AE1-173_C1	42.9257	Adder	50.5
939415	AE1-173_C2	36.7934	Adder	43.29
939416	AE1-173_C3	42.9257	Adder	50.5
939431	AE1-175 C	4.3577	80/20	4.3577
939611	AE1-191 C	15.1807	Adder	17.86
940061	AE2-000BC O1	15.7340	Adder	18.51
940231	AE2-005 C	1.9435	Adder	2.29
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	257.8906	Adder	303.4
940431	AE2-027 C O1	19.2994	Adder	22.71
940481	AE2-033 C	21.7350	Adder	25.57
940491	AE2-034 C	10.2123	Adder	12.01
940541	AE2-040	3.8606	Adder	4.54
940551	AE2-041	10.3397	Adder	12.16
940641	AE2-051 C O1	22.6991	Adder	26.7
940651	AE2-052	5.2550	Adder	6.18
940891	AE2-078 C	4.1910	80/20	4.1910

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940901	AE2-079 C	4.1910	80/20	4.1910
941031	AE2-094 C	49.8737	Adder	58.67
941101	AE2-104 C O1	4.9241	Adder	5.79
941281	AE2-122 C O1	42.2321	Adder	49.68
941291	AE2-123 C O1	43.4015	Adder	51.06
941301	AE2-124 C O1	39.4579	Adder	46.42
941501	AE2-147 C	23.1382	Adder	27.22
941581	AE2-155 C	0.1857	80/20	0.1857
941591	AE2-156 O1	26.6526	Adder	31.36
942001	AE2-212 C	3.1840	Adder	3.75
942131	AE2-225 C	3.1468	Adder	3.7
942151	AE2-227 C	3.8953	80/20	3.8953
942161	AE2-228 C	3.2195	Adder	3.79
942171	AE2-229 C	2.3601	Adder	2.78
942341	AE2-247 C	2.1916	Adder	2.58
942371	AE2-250 C O1	14.3236	Adder	16.85
942401	AE2-253 C	9.1042	Adder	10.71
942551	AE2-270	47.7375	80/20	47.7375
943431	AF1-014 C	1.8412	Adder	2.17
943461	AF1-017 C	1.9829	Adder	2.33
943471	AF1-018	10.3397	Adder	12.16
943611	AF1-032 C	2.5699	Adder	3.02
943621	AF1-033 C	4.1910	80/20	4.1910
944011	AF1-069 C	16.2956	Adder	19.17
944581	AF1-123 C O1	71.3344	Adder	83.92
944591	AF1-124 C O1	71.3344	Adder	83.92
944601	AF1-125 C O1	71.3344	Adder	83.92
944631	AF1-128 O1	100.0862	80/20	100.0862
944641	AF1-129	153.2445	Adder	180.29
944871	AF1-152 C	7.7127	Adder	9.07
945361	AF1-201 C O1	23.9575	Adder	28.19
945711	AF1-236 C O1	111.8008	Adder	131.53
946011	AF1-266	18.1939	Adder	21.4
946261	AF1-291 C	3.2203	Adder	3.79
957491	AF2-043 C	3.1468	Adder	3.7
957531	AF2-047 C	24.2665	Adder	28.55
957601	AF2-054 C	2.9790	Adder	3.5
957631	AF2-057	5.3292	Adder	6.27
957711	AF2-065 C	24.3461	80/20	24.3461
957821	AF2-076 C	7.7829	Adder	9.16
957831	AF2-077 C	3.1471	Adder	3.7
957871	AF2-081 C	14.7441	Adder	17.35
957911	AF2-085	5.0310	Adder	5.92
958141	AF2-108	2.6198	Adder	3.08
958161	AF2-110 C	2.0300	Adder	2.39
959641	AF2-255 C	0.9738	80/20	0.9738
959651	AF2-256 C	0.8049	Adder	0.95
959661	AF2-257 C	0.8051	Adder	0.95
959671	AF2-258 C	0.7960	Adder	0.94
959681	AF2-259 C	3.9297	Adder	4.62
961091	AF2-400 C	0.6606	Adder	0.78
961611	AG1-000B C	12.7108	Adder	28.21

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961711	AG1-011	50.8960	80/20	50.8960
961851	AG1-027 C	13.0994	Adder	29.08
962131	AG1-057	2.7400	Adder	6.08
962191	AG1-064 C	2.5838	80/20	2.5838
962201	AG1-065 C	2.5838	80/20	2.5838
962271	AG1-075 C O1	13.1023	Adder	29.08
962321	AG1-081 C (Withdrawn : 01/15/2021)	3.8100	80/20	3.8100
962531	AG1-102 C	0.8562	Adder	1.9
962961	AG1-145 C	3.9318	80/20	3.9318
963221	AG1-171 C	3.8214	80/20	3.8214
963231	AG1-172 C	3.8214	80/20	3.8214
963241	AG1-173 C	3.8214	80/20	3.8214
963251	AG1-174 C	3.8214	80/20	3.8214
963261	AG1-175 C	3.8214	80/20	3.8214
963291	AG1-178 C O1	43.7239	Adder	97.06
963351	AG1-184 O1	23.5560	Adder	52.29
963821	AG1-235 C O1	18.9380	Adder	42.04
964951	AG1-359 O1	21.0983	Adder	46.83
965001	AG1-364 C O1	5.6502	Adder	12.54
965181	AG1-383 C	2.1659	Adder	4.81
965631	AG1-431	34.3052	Adder	76.15
965811	AG1-449	0.7051	Adder	1.57
966491	AG1-518 O1	6.9492	Adder	15.43
966611	AG1-531 C	11.4998	80/20	11.4998
966731	AG1-544 C	5.4321	Adder	12.06
966741	AG1-545 C	1.8110	Adder	4.02
966871	AG1-558 C	1.6676	Adder	3.7
966931	AG1-431A	25.7740	Adder	57.21
WEC	WEC	1.7334	Confirmed LTF	1.7334
LGEE	LGEE	3.6649	Confirmed LTF	3.6649
CPLE	CPLE	12.6624	Confirmed LTF	12.6624
CBM-W2	CBM-W2	69.0010	Confirmed LTF	69.0010
NY	NY	3.9622	Confirmed LTF	3.9622
TVA	TVA	12.6700	Confirmed LTF	12.6700
SIGE	SIGE	1.5098	Confirmed LTF	1.5098
CBM-S2	CBM-S2	160.4524	Confirmed LTF	160.4524
CBM-S1	CBM-S1	3.2167	Confirmed LTF	3.2167
MEC	MEC	9.9678	Confirmed LTF	9.9678
LAGN	LAGN	15.5628	Confirmed LTF	15.5628
AA2-074	AA2-074	8.3718	LTF	8.3718
CBM-W1	CBM-W1	72.3572	Confirmed LTF	72.3572

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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
163830033	314914	8MDLTHAN	DVP	314918	8NO ANNA	DVP	1	DVP_P1-2: LN 574	single	2442.12	177.55	177.78	DC	52.16

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

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940651	AE2-052	5.3424	80/20	5.3424
940891	AE2-078 C	2.9568	Adder	3.48
940901	AE2-079 C	2.9568	Adder	3.48
941031	AE2-094 C	65.4234	80/20	65.4234
941101	AE2-104 C O1	5.1652	80/20	5.1652
941281	AE2-122 C O1	44.2187	80/20	44.2187
941291	AE2-123 C O1	45.4431	80/20	45.4431
941301	AE2-124 C O1	41.3261	80/20	41.3261
941501	AE2-147 C	24.4512	80/20	24.4512
941591	AE2-156 O1	27.8230	80/20	27.8230
942001	AE2-212 C	2.6624	Adder	3.13
942131	AE2-225 C	3.3056	80/20	3.3056
942161	AE2-228 C	2.6023	Adder	3.06
942171	AE2-229 C	2.4792	80/20	2.4792
942341	AE2-247 C	2.2803	80/20	2.2803
942371	AE2-250 C O1	11.9267	Adder	14.03
942401	AE2-253 C	9.5665	80/20	9.5665
942471	AE2-260 C O1	18.4328	Adder	21.69
942551	AE2-270	32.8963	Adder	38.7
942931	AE2-313 C	58.9598	80/20	58.9598
943171	AE2-346 C	1.7909	Adder	2.11
943461	AF1-017 C	2.0631	80/20	2.0631
943611	AF1-032 C	2.6996	80/20	2.6996
943621	AF1-033 C	2.9568	Adder	3.48
944011	AF1-069 C	21.3763	80/20	21.3763
944581	AF1-123 C O1	75.0792	80/20	75.0792
944591	AF1-124 C O1	75.0792	80/20	75.0792
944601	AF1-125 C O1	75.0792	80/20	75.0792
944641	AF1-129	122.4021	Adder	144.0
944871	AF1-152 C	8.1504	80/20	8.1504
945711	AF1-236 C O1	101.9285	Adder	119.92
945811	AF1-246 C O1	11.5823	80/20	11.5823
946011	AF1-266	20.3661	80/20	20.3661
946261	AF1-291 C	2.6015	Adder	3.06
946281	AF1-292 C	1.9090	Adder	2.25
957481	AF2-042 C	82.7310	80/20	82.7310
957491	AF2-043 C	3.3056	80/20	3.3056
957521	AF2-046 C	21.4450	Adder	25.23
957531	AF2-047 C	22.1237	Adder	26.03
957631	AF2-057	5.5612	80/20	5.5612
957711	AF2-065 C	16.7771	Adder	19.74
957821	AF2-076 C	8.1999	80/20	8.1999
957871	AF2-081 C	15.5008	80/20	15.5008
957911	AF2-085	6.6022	80/20	6.6022
958141	AF2-108	2.6769	80/20	2.6769
958161	AF2-110 C	2.1294	80/20	2.1294
958501	AF2-144 C	2.2982	Adder	2.7
959531	AF2-244 C (Withdrawn : 01/06/2021)	2.1180	Adder	2.49
959651	AF2-256 C	0.6506	Adder	0.77
959661	AF2-257 C	0.6504	Adder	0.77
959671	AF2-258 C	0.6656	Adder	0.78
959681	AF2-259 C	4.0154	80/20	4.0154

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959751	AF2-266	11.0755	Adder	13.03
960081	AF2-299 C	3.2173	Adder	3.79
961091	AF2-400 C	0.6012	Adder	0.71
961611	AG1-000B C	10.5561	Adder	23.43
961681	AG1-008 C	11.3886	Adder	25.28
961711	AG1-011	18.6449	Adder	41.39
961851	AG1-027 C	26.0714	80/20	26.0714
961931	AG1-036 C	0.9186	Adder	2.04
961941	AG1-037 C	0.3390	Adder	0.75
962271	AG1-075 C O1	10.9098	Adder	24.22
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.4246	Adder	3.16
962331	AG1-082 C	1.3560	Adder	3.01
962341	AG1-083 C	1.3560	Adder	3.01
962351	AG1-084 C	1.1827	Adder	2.63
962361	AG1-085 C	1.1827	Adder	2.63
962491	AG1-098 C O1	8.4219	Adder	18.69
962561	AG1-105 C O1	6.8494	Adder	15.2
963041	AG1-153 C	9.1158	80/20	9.1158
963111	AG1-160 C	9.2304	80/20	9.2304
963221	AG1-171 C	1.3903	Adder	3.09
963231	AG1-172 C	1.3903	Adder	3.09
963241	AG1-173 C	1.3903	Adder	3.09
963251	AG1-174 C	1.3903	Adder	3.09
963261	AG1-175 C	1.3903	Adder	3.09
963291	AG1-178 C O1	102.6810	80/20	102.6810
963351	AG1-184 O1	55.3190	80/20	55.3190
963821	AG1-235 C O1	37.5219	80/20	37.5219
964491	AG1-312 C O1	12.7300	Adder	28.26
964801	AG1-343 C	4.0122	Adder	8.91
964931	AG1-357 C	34.4172	80/20	34.4172
964951	AG1-359 O1	41.7780	80/20	41.7780
965001	AG1-364 C O1	11.1280	80/20	11.1280
965181	AG1-383 C	4.2908	80/20	4.2908
965291	AG1-394 C	1.3770	Adder	3.06
965631	AG1-431	31.2759	Adder	69.42
965691	AG1-437 C O1	6.8756	Adder	15.26
965701	AG1-438 C O1	6.8756	Adder	15.26
965741	AG1-442 O1	4.0108	Adder	8.9
965751	AG1-443 O1	4.0108	Adder	8.9
965811	AG1-449	38.2324	80/20	38.2324
966361	AG1-505 C	26.9271	80/20	26.9271
966371	AG1-506 C	26.9271	80/20	26.9271
966491	AG1-518 O1	13.7735	80/20	13.7735
966611	AG1-531 C	4.2316	Adder	9.39
966621	AG1-532 C	0.9208	Adder	2.04
966731	AG1-544 C	10.4572	80/20	10.4572
966741	AG1-545 C	3.4875	80/20	3.4875
966931	AG1-431A	23.4981	Adder	52.16
WEC	WEC	1.4011	Confirmed LTF	1.4011
LGEE	LGEE	2.9461	Confirmed LTF	2.9461
CPLE	CPLE	12.4679	Confirmed LTF	12.4679
CBM-W2	CBM-W2	59.3331	Confirmed LTF	59.3331

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168825748	314914	8MDLTHAN	DVP	314322	6MDLTHAN	DVP	1	DVP_P1-2: LN 576	single	1058.16	144.56	145.15	DC	14.35

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926754	AC1-161 C	14.1944	80/20	14.1944
927024	AC1-189 C	3.0702	Adder	3.61
927145	AC1-208 C	3.0886	Adder	3.63
927251	AC1-221 C	0.8116	Adder	0.95
927261	AC1-222 C	1.1675	Adder	1.37
932044	AC2-012 C	4.2294	80/20	4.2294
932631	AC2-084 C	3.0202	Adder	3.55
932761	AC2-100 C	1.8678	Adder	2.2
933294	AC2-141 C	14.1944	80/20	14.1944
933731	AC2-196 C	0.1214	80/20	0.1214
933991	AD1-023 C	4.6496	Adder	5.47
934061	AD1-033 C	3.2231	80/20	3.2231
934311	AD1-055 C	0.8106	Adder	0.95
934331	AD1-057 C O1	3.4483	Adder	4.06
934341	AD1-058 C	2.0346	Adder	2.39
934521	AD1-076 C	19.3134	Adder	22.72
934615	AD1-087 C	3.8963	80/20	3.8963
934991	AD1-131 C	0.6671	Adder	0.78
935171	AD1-152 C O1	4.2797	80/20	4.2797
936401	AD2-051 C O1	3.0750	Adder	3.62
936761	AD2-097 C	-1.1969	Adder	-1.41
937221	AD2-160 C O1	2.5076	80/20	2.5076
937481	AD2-202 C O1	1.1412	80/20	1.1412
938494	AE1-068_C1	22.0989	80/20	22.0989
938497	AE1-068_C2	22.0989	80/20	22.0989
938504	AE1-069_C1	16.8418	80/20	16.8418
938507	AE1-069_C2	18.1595	80/20	18.1595
938535	AE1-072 C	7.5289	80/20	7.5289
938771	AE1-103 C	1.1972	Adder	1.41
939414	AE1-173_C1	20.5380	80/20	20.5380
939415	AE1-173_C2	17.6040	80/20	17.6040
939416	AE1-173_C3	20.5380	80/20	20.5380
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	72.4636	80/20	72.4636
940471	AE2-031 C	24.0764	80/20	24.0764
940481	AE2-033 C	4.8272	Adder	5.68
940491	AE2-034 C	2.5622	Adder	3.01
940541	AE2-040	0.8513	Adder	1.0
940571	AE2-044 C	1.5860	Adder	1.87
940641	AE2-051 C O1	12.3417	80/20	12.3417
941031	AE2-094 C	29.2048	80/20	29.2048
941101	AE2-104 C O1	1.0920	Adder	1.28
941281	AE2-122 C O1	12.0319	80/20	12.0319
941291	AE2-123 C O1	12.3651	80/20	12.3651
941301	AE2-124 C O1	11.2667	80/20	11.2667
941501	AE2-147 C	5.6641	Adder	6.66
941591	AE2-156 O1	7.4480	80/20	7.4480
942131	AE2-225 C	0.7536	Adder	0.89
942151	AE2-227 C	-0.6853	Adder	-0.81
942171	AE2-229 C	0.5652	Adder	0.66
942401	AE2-253 C	2.6375	80/20	2.6375
942471	AE2-260 C O1	4.4919	Adder	5.28
942931	AE2-313 C	26.0067	80/20	26.0067

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943171	AE2-346 C	0.4832	Adder	0.57
943611	AF1-032 C	0.6154	Adder	0.72
943901	AF1-058 C	0.6520	Adder	0.77
944011	AF1-069 C	9.5423	80/20	9.5423
944141	AF1-082	1.0196	Adder	1.2
944581	AF1-123 C O1	21.4027	80/20	21.4027
944591	AF1-124 C O1	21.4027	80/20	21.4027
944601	AF1-125 C O1	21.4027	80/20	21.4027
944871	AF1-152 C	1.8880	Adder	2.22
945711	AF1-236 C O1	28.0499	Adder	33.0
945811	AF1-246 C O1	4.3558	80/20	4.3558
946011	AF1-266	4.0408	Adder	4.75
946281	AF1-292 C	0.4646	Adder	0.55
957481	AF2-042 C	31.1130	80/20	31.1130
957491	AF2-043 C	0.7536	Adder	0.89
957521	AF2-046 C	5.6683	Adder	6.67
957531	AF2-047 C	6.0882	Adder	7.16
957631	AF2-057	1.4840	80/20	1.4840
957821	AF2-076 C	1.8730	Adder	2.2
957861	AF2-080 C	2.7885	Adder	3.28
957871	AF2-081 C	4.2700	80/20	4.2700
958161	AF2-110 C	0.4502	Adder	0.53
959511	AF2-242 C	2.6400	Adder	3.11
959641	AF2-255 C	-0.1713	Adder	-0.2
959751	AF2-266	4.4655	80/20	4.4655
960061	AF2-297 C	2.6079	Adder	3.07
960081	AF2-299 C	0.7830	Adder	0.92
961091	AF2-400 C	0.1532	Adder	0.18
961671	AG1-007 C	0.2333	Adder	0.52
961681	AG1-008 C	3.0102	Adder	6.68
961851	AG1-027 C	2.9410	Adder	6.53
961931	AG1-036 C	0.2455	Adder	0.54
961941	AG1-037 C	0.0915	Adder	0.2
962331	AG1-082 C	0.3659	Adder	0.81
962341	AG1-083 C	0.3659	Adder	0.81
962351	AG1-084 C	0.3218	Adder	0.71
962361	AG1-085 C	0.3218	Adder	0.71
962441	AG1-093 C O1	2.4913	Adder	5.53
962491	AG1-098 C O1	2.3182	Adder	5.15
962561	AG1-105 C O1	5.1594	80/20	5.1594
962571	AG1-106 C	1.0148	Adder	2.25
963041	AG1-153 C	3.9783	80/20	3.9783
963111	AG1-160 C	4.0587	80/20	4.0587
963291	AG1-178 C O1	43.0805	80/20	43.0805
963351	AG1-184 O1	23.2095	80/20	23.2095
963821	AG1-235 C O1	10.3545	80/20	10.3545
964261	AG1-287 C	0.2592	Adder	0.58
964471	AG1-310 C	0.3524	Adder	0.78
964491	AG1-312 C O1	3.4971	Adder	7.76
964501	AG1-313 C O1	0.8118	Adder	1.8
964801	AG1-343 C	1.0422	Adder	2.31
964931	AG1-357 C	13.7052	80/20	13.7052

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
163830164	314923	8SEPTA	DVP	314924	8SURREY	DVP	1	DVP_P1-2: LN 563	single	2442.12	103.56	104.02	DC	25.17

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.2606	Adder	5.01
314295	6BIRDNECK	0.0396	80/20	0.0396
314491	3PENDLTN	0.2951	80/20	0.2951
314507	3THOMPSN	0.2933	80/20	0.2933
314572	3EMPORIA	0.2664	Adder	0.31
315098	1CHESPKA	0.3912	80/20	0.3912
315099	1CHESPKB (Deactivation : 31/05/2019)	2.7120	80/20	2.7120
315102	1BRUNSWICKG1	10.1352	80/20	10.1352
315103	1BRUNSWICKG2	10.1352	80/20	10.1352
315104	1BRUNSWICKG3	10.1352	80/20	10.1352
315105	1BRUNSWICKS1	21.0558	80/20	21.0558
315108	1ELIZAR1	2.9439	80/20	2.9439
315109	1ELIZAR2	2.8927	80/20	2.8927
315110	1ELIZAR3	2.9815	80/20	2.9815
315131	1EDGECEMA (Deactivation : 22/04/2019)	6.1388	Adder	7.22
315132	1EDGECEMB (Deactivation : 22/04/2019)	6.1388	Adder	7.22
315153	1CLOVER1	12.7023	80/20	12.7023
315154	1CLOVER2	12.5757	80/20	12.5757
315241	1Z1-086 GT1	13.0884	80/20	13.0884
315242	1Z1-086 GT2	13.0884	80/20	13.0884
315243	1Z1-086 GT3	13.0884	80/20	13.0884
315244	1Z1-086 ST	22.7525	80/20	22.7525
315260	1GOSPORTA	0.3109	80/20	0.3109
315261	1GOSPORTB	0.3971	80/20	0.3971
315262	1GOSPORTC	0.3371	80/20	0.3371
315293	1DOMTR9	4.2729	Adder	5.03
315294	1DOMTR10	5.2364	Adder	6.16
315603	6AA1-139SOLA	2.0185	80/20	2.0185
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-35.3241	Adder	-41.56
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-35.3241	Adder	-41.56
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-61.1952	Adder	-71.99
316118	AC1-105 C	3.8782	Adder	4.56
316129	AC1-054 C	4.5889	Adder	5.4
316140	AB2-099 C (Suspended)	0.3496	Adder	0.41
923991	AB2-040 C O1	4.6402	Adder	5.46

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924301	AB2-077 C O1 (Suspended)	1.2123	Adder	1.43
924311	AB2-078 C O1 (Suspended)	1.2123	Adder	1.43
924321	AB2-079 C O1 (Suspended)	1.2123	Adder	1.43
925591	AC1-034 C	4.5204	Adder	5.32
926070	AC1-086 C	13.0863	Adder	15.4
926201	AC1-098 C	3.8857	Adder	4.57
926211	AC1-099 C	1.3021	Adder	1.53
926661	AC1-147 C	0.3308	80/20	0.3308
926754	AC1-161 C	88.0847	80/20	88.0847
927024	AC1-189 C	5.5698	Adder	6.55
927145	AC1-208 C	5.7610	Adder	6.78
927251	AC1-221 C	1.6036	Adder	1.89
927261	AC1-222 C	2.5001	Adder	2.94
932044	AC2-012 C	9.4854	80/20	9.4854
932631	AC2-084 C	5.5392	Adder	6.52
932761	AC2-100 C	3.6905	Adder	4.34
933294	AC2-141 C	88.0847	80/20	88.0847
933731	AC2-196 C	0.2715	80/20	0.2715
933991	AD1-023 C	8.0700	Adder	9.49
934061	AD1-033 C	7.1959	80/20	7.1959
934311	AD1-055 C	1.7359	Adder	2.04
934331	AD1-057 C O1	6.4881	Adder	7.63
934341	AD1-058 C	4.0200	Adder	4.73
934521	AD1-076 C	33.7009	Adder	39.65
934615	AD1-087 C	7.9560	80/20	7.9560
934625	AD1-088 C	8.7885	Adder	10.34
934991	AD1-131 C	1.3180	Adder	1.55
935171	AD1-152 C O1	8.7389	80/20	8.7389
936265	AD2-033 C	7.3268	Adder	8.62
936361	AD2-046 C O1	5.6148	Adder	6.61
936401	AD2-051 C O1	5.2677	Adder	6.2
936485	AD2-063 C	8.7638	Adder	10.31
937221	AD2-160 C O1	5.4222	80/20	5.4222
937481	AD2-202 C O1	2.3304	80/20	2.3304
938494	AE1-068_C1	39.3130	80/20	39.3130
938497	AE1-068_C2	39.3130	80/20	39.3130
938504	AE1-069_C1	29.9609	80/20	29.9609
938507	AE1-069_C2	32.3050	80/20	32.3050
938535	AE1-072 C	15.8113	80/20	15.8113
939181	AE1-148 C	5.5287	Adder	6.5
939414	AE1-173_C1	32.6962	80/20	32.6962
939415	AE1-173_C2	28.0253	80/20	28.0253
939416	AE1-173_C3	32.6962	80/20	32.6962
939431	AE1-175 C	-1.7110	Adder	-2.01
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	164.5307	80/20	164.5307
940471	AE2-031 C	42.9293	80/20	42.9293
940481	AE2-033 C	10.0599	Adder	11.84
940491	AE2-034 C	4.4928	Adder	5.29
940541	AE2-040	1.7834	Adder	2.1

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940571	AE2-044 C	2.9607	Adder	3.48
940641	AE2-051 C O1	27.9441	80/20	27.9441
940661	AE2-053 O1	2.0476	Adder	2.41
941031	AE2-094 C	51.7668	80/20	51.7668
941281	AE2-122 C O1	26.6269	80/20	26.6269
941291	AE2-123 C O1	27.3642	80/20	27.3642
941301	AE2-124 C O1	24.9020	80/20	24.9020
941501	AE2-147 C	9.7553	Adder	11.48
941591	AE2-156 O1	16.8230	80/20	16.8230
941791	AE2-182 C	1.4278	Adder	1.68
942401	AE2-253 C	5.7032	80/20	5.7032
942451	AE2-258	1.4173	Adder	1.67
942471	AE2-260 C O1	9.0814	Adder	10.68
942931	AE2-313 C	46.3916	80/20	46.3916
943171	AE2-346 C	0.8389	Adder	0.99
943901	AF1-058 C	1.3860	Adder	1.63
943911	AF1-059	10.2601	Adder	12.07
944011	AF1-069 C	16.9142	80/20	16.9142
944141	AF1-082	1.9033	Adder	2.24
944581	AF1-123 C O1	52.0448	80/20	52.0448
944591	AF1-124 C O1	52.0448	80/20	52.0448
944601	AF1-125 C O1	52.0448	80/20	52.0448
944871	AF1-152 C	3.2518	Adder	3.83
945711	AF1-236 C O1	49.1860	Adder	57.87
945811	AF1-246 C O1	8.4441	80/20	8.4441
946011	AF1-266	8.4210	Adder	9.91
946281	AF1-292 C	0.9524	Adder	1.12
957481	AF2-042 C	60.3150	80/20	60.3150
957521	AF2-046 C	9.7868	Adder	11.51
957531	AF2-047 C	10.6759	Adder	12.56
957631	AF2-057	3.3282	80/20	3.3282
957861	AF2-080 C	5.0587	Adder	5.95
957871	AF2-081 C	9.1039	80/20	9.1039
959511	AF2-242 C	4.6814	Adder	5.51
959751	AF2-266	9.1180	80/20	9.1180
960061	AF2-297 C	5.5439	Adder	6.52
960081	AF2-299 C	1.6052	Adder	1.89
961671	AG1-007 C	0.4284	Adder	0.95
961681	AG1-008 C	5.1974	Adder	11.54
961931	AG1-036 C	0.4251	Adder	0.94
961941	AG1-037 C	0.1588	Adder	0.35
962331	AG1-082 C	0.6352	Adder	1.41
962341	AG1-083 C	0.6352	Adder	1.41
962351	AG1-084 C	0.5599	Adder	1.24
962361	AG1-085 C	0.5599	Adder	1.24
962441	AG1-093 C O1	5.4812	Adder	12.17
962491	AG1-098 C O1	12.1777	80/20	12.1777
962561	AG1-105 C O1	10.5372	80/20	10.5372
962571	AG1-106 C	1.9288	Adder	4.28
963041	AG1-153 C	7.1115	80/20	7.1115
963111	AG1-160 C	7.2348	80/20	7.2348
963271	AG1-176 C O1	5.6352	Adder	12.51

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963291	AG1-178 C O1	106.8630	80/20	106.8630
963301	AG1-179 C	1.8653	Adder	4.14
963311	AG1-180	0.9088	Adder	2.02
963321	AG1-181 C O1	1.6709	Adder	3.71
963351	AG1-184 O1	57.5720	80/20	57.5720
963361	AG1-185 O1	2.4251	Adder	5.38
963821	AG1-235 C O1	22.7988	80/20	22.7988
964241	AG1-285 C O1	3.9068	Adder	8.67
964261	AG1-287 C	0.5509	Adder	1.22
964471	AG1-310 C	0.7570	Adder	1.68
964491	AG1-312 C O1	5.9866	Adder	13.29
964501	AG1-313 C O1	1.4975	Adder	3.32
964791	AG1-342 C	1.4596	Adder	3.24
964801	AG1-343 C	1.7907	Adder	3.97
964841	AG1-347 C	3.5097	Adder	7.79
964931	AG1-357 C	25.7592	80/20	25.7592
964951	AG1-359 O1	25.8135	80/20	25.8135
965001	AG1-364 C O1	6.7172	80/20	6.7172
965181	AG1-383 C	2.6179	80/20	2.6179
965291	AG1-394 C	0.6125	Adder	1.36
965451	AG1-413 C O1	2.2859	Adder	5.07
965591	AG1-427 C	3.6979	Adder	8.21
965601	AG1-428 C O1	1.5572	Adder	3.46
965631	AG1-431	15.0923	Adder	33.5
965691	AG1-437 C O1	3.2717	Adder	7.26
965701	AG1-438 C O1	3.2717	Adder	7.26
965711	AG1-439 C O1	8.3225	Adder	18.47
965721	AG1-440 C	2.4552	Adder	5.45
965731	AG1-441 C	2.4552	Adder	5.45
965741	AG1-442 O1	1.9085	Adder	4.24
965751	AG1-443 O1	1.9085	Adder	4.24
965761	AG1-444 O1	4.4387	Adder	9.85
965771	AG1-445	1.4186	Adder	3.15
965781	AG1-446	1.4186	Adder	3.15
965811	AG1-449	30.0998	80/20	30.0998
966361	AG1-505 C	20.6919	80/20	20.6919
966371	AG1-506 C	20.6919	80/20	20.6919
966621	AG1-532 C	0.4594	Adder	1.02
966751	AG1-546 C	5.3371	Adder	11.85
966801	AG1-551 C	0.7701	Adder	1.71
966811	AG1-552 C	0.6909	Adder	1.53
966931	AG1-431A	11.3391	Adder	25.17
WEC	WEC	0.7462	Confirmed LTF	0.7462
LGEE	LGEE	1.5343	Confirmed LTF	1.5343
CPL	CPL	7.8863	Confirmed LTF	7.8863
CBM-W2	CBM-W2	33.1878	Confirmed LTF	33.1878
NY	NY	1.0828	Confirmed LTF	1.0828
TVA	TVA	6.2860	Confirmed LTF	6.2860
SIGE	SIGE	0.5120	Confirmed LTF	0.5120
CBM-S2	CBM-S2	94.8161	Confirmed LTF	94.8161
CBM-S1	CBM-S1	1.5648	Confirmed LTF	1.5648
MEC	MEC	4.4969	Confirmed LTF	4.4969

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	7.8173	Confirmed LTF	7.8173
AA2-074	AA2-074	5.2092	LTF	5.2092
CBM-W1	CBM-W1	31.1665	Confirmed LTF	31.1665

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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
163829817	314924	8SURREY	DVP	314903	8CHCKAHM	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	125.08	125.81	DC	50.45

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313717	6SLIGO L2192	3.2288	Adder	3.8
314295	6BIRDNECK	0.0744	50/50	0.0744
314466	6FENTRES	3.9251	50/50	3.9251
314491	3PENDLTN	0.5548	50/50	0.5548
314525	6KINGFORK	5.8272	Adder	6.86
314539	3UNCAMP	7.1352	Adder	8.39
314541	3WATKINS	0.7885	Adder	0.93
314550	6HICKORY	7.2174	50/50	7.2174
314594	6PLYMOTH	0.1097	Adder	0.13
314632	6AYDLETOLD	3.2298	Adder	3.8
315099	1CHESPKB (Deactivation : 31/05/2019)	5.0949	50/50	5.0949
315108	1ELIZAR1	5.4362	50/50	5.4362
315109	1ELIZAR2	5.3418	50/50	5.3418
315110	1ELIZAR3	5.5058	50/50	5.5058
315233	1SURREY 2	55.4591	50/50	55.4591
316103	AB2-015 C	9.9964	Adder	11.76
316104	AB2-015 E	8.1971	Adder	9.64
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-10.8175	Adder	-12.73
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-10.8175	Adder	-12.73
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-18.7402	Adder	-22.05
316151	AD2-215 E (Withdrawn : 01/14/2021)	1.2470	Adder	1.47
901082	W1-029 E	63.6399	Adder	74.87
913392	Y1-086 E	3.1422	Adder	3.7
916042	Z1-036 E (Suspended)	61.1122	Adder	71.9
916192	Z1-068 E	3.2999	50/50	3.2999
917122	Z2-027 E	1.4988	Adder	1.76
919152	AA1-139 E	9.4686	Adder	11.14
920692	AA2-178 E	5.1457	Adder	6.05
923832	AB2-022 E	1.7738	Adder	2.09
925522	AC1-027 E	2.0093	50/50	2.0093
926662	AC1-147 E	1.9664	Adder	2.31
926754	AC1-161 C	66.4962	50/50	66.4962
926755	AC1-161 E	28.3854	50/50	28.3854
932044	AC2-012 C	15.1469	Adder	17.82
932046	AC2-012 E	24.7134	Adder	29.07
933294	AC2-141 C	66.4962	50/50	66.4962
933295	AC2-141 E	28.3854	50/50	28.3854

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933731	AC2-196 C	0.4995	50/50	0.4995
933732	AC2-196 E	2.1085	50/50	2.1085
933991	AD1-023 C	15.3984	Adder	18.12
933992	AD1-023 E	8.3829	Adder	9.86
934061	AD1-033 C	13.2821	50/50	13.2821
934062	AD1-033 E	8.8547	50/50	8.8547
934521	AD1-076 C	65.0575	Adder	76.54
934522	AD1-076 E	33.1272	Adder	38.97
935112	AD1-144 E	1.2710	Adder	1.5
936661	AD2-085 C	3.9001	Adder	4.59
936662	AD2-085 E	6.3634	Adder	7.49
937221	AD2-160 C O1	8.6843	Adder	10.22
937222	AD2-160 E O1	4.5540	Adder	5.36
938535	AE1-072 C	25.8568	Adder	30.42
938536	AE1-072 E	13.3202	Adder	15.67
938771	AE1-103 C	4.3743	Adder	5.15
938772	AE1-103 E	6.0407	Adder	7.11
939312	AE1-162 E	1.7786	Adder	2.09
939414	AE1-173_C1	36.1598	Adder	42.54
939415	AE1-173_C2	30.9941	Adder	36.46
939416	AE1-173_C3	36.1598	Adder	42.54
939423	AE1-173_E1	24.1065	Adder	28.36
939424	AE1-173_E2	20.6628	Adder	24.31
939425	AE1-173_E3	24.1065	Adder	28.36
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	304.4650	50/50	304.4650
940491	AE2-034 C	9.0050	Adder	10.59
940492	AE2-034 E	3.8593	Adder	4.54
940641	AE2-051 C O1	35.5842	50/50	35.5842
940642	AE2-051 E O1	23.7228	50/50	23.7228
940891	AE2-078 C	2.6360	Adder	3.1
940892	AE2-078 E	1.3580	Adder	1.6
940901	AE2-079 C	2.6360	Adder	3.1
940902	AE2-079 E	1.3580	Adder	1.6
941101	AE2-104 C O1	4.3465	Adder	5.11
941102	AE2-104 E O1	6.9103	Adder	8.13
941281	AE2-122 C O1	49.9566	50/50	49.9566
941282	AE2-122 E O1	201.5869	50/50	201.5869
941291	AE2-123 C O1	51.3399	50/50	51.3399
941292	AE2-123 E O1	200.2036	50/50	200.2036
941301	AE2-124 C O1	46.7107	50/50	46.7107
941302	AE2-124 E O1	204.9608	50/50	204.9608
941501	AE2-147 C	21.9448	Adder	25.82
941502	AE2-147 E	14.6299	Adder	17.21
941591	AE2-156 O1	31.3580	50/50	31.3580
942131	AE2-225 C	2.9961	Adder	3.52
942132	AE2-225 E	1.9974	Adder	2.35
942171	AE2-229 C	2.2471	Adder	2.64
942172	AE2-229 E	1.4981	Adder	1.76
942341	AE2-247 C	1.6870	Adder	1.98
942342	AE2-247 E	2.3297	Adder	2.74
942401	AE2-253 C	9.1344	Adder	10.75
942402	AE2-253 E	4.1039	Adder	4.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943461	AF1-017 C	1.5264	Adder	1.8
943462	AF1-017 E	2.4904	Adder	2.93
943611	AF1-032 C	2.4469	Adder	2.88
943612	AF1-032 E	1.2983	Adder	1.53
943621	AF1-033 C	2.6360	Adder	3.1
943622	AF1-033 E	1.3580	Adder	1.6
944581	AF1-123 C O1	87.9192	50/50	87.9192
944582	AF1-123 E O1	201.3104	50/50	201.3104
944591	AF1-124 C O1	87.9192	50/50	87.9192
944592	AF1-124 E O1	201.3104	50/50	201.3104
944601	AF1-125 C O1	87.9192	50/50	87.9192
944602	AF1-125 E O1	201.3104	50/50	201.3104
944871	AF1-152 C	7.3149	Adder	8.61
944872	AF1-152 E	4.8766	Adder	5.74
945711	AF1-236 C O1	98.5830	Adder	115.98
945712	AF1-236 E O1	60.8907	Adder	71.64
957491	AF2-043 C	2.9961	Adder	3.52
957492	AF2-043 E	1.9974	Adder	2.35
957531	AF2-047 C	21.3975	Adder	25.17
957532	AF2-047 E	10.7631	Adder	12.66
957631	AF2-057	5.3147	Adder	6.25
957821	AF2-076 C	7.3144	Adder	8.61
957822	AF2-076 E	4.8763	Adder	5.74
957871	AF2-081 C	14.7289	Adder	17.33
957872	AF2-081 E	6.3124	Adder	7.43
958161	AF2-110 C	1.7919	Adder	2.11
958162	AF2-110 E	2.8027	Adder	3.3
961091	AF2-400 C	0.5398	Adder	0.64
961092	AF2-400 E	0.8857	Adder	1.04
961851	AG1-027 C	11.3317	Adder	25.15
961852	AG1-027 E	6.2641	Adder	13.9
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.2701	Adder	2.82
962322	AG1-081 E (Withdrawn : 01/15/2021)	0.8467	Adder	1.88
963291	AG1-178 C O1	128.4748	50/50	128.4748
963351	AG1-184 O1	69.2152	50/50	69.2152
963821	AG1-235 C O1	42.4143	50/50	42.4143
963822	AG1-235 E O1	28.2762	50/50	28.2762
964951	AG1-359 O1	47.4885	50/50	47.4885
965001	AG1-364 C O1	12.5368	50/50	12.5368
965002	AG1-364 E O1	18.8052	50/50	18.8052
965181	AG1-383 C	4.8567	50/50	4.8567
965182	AG1-383 E	1.4385	50/50	1.4385
965631	AG1-431	30.2494	Adder	67.15
965691	AG1-437 C O1	6.1839	Adder	13.73
965692	AG1-437 E O1	4.1226	Adder	9.15
965701	AG1-438 C O1	6.1839	Adder	13.73
965702	AG1-438 E O1	4.1226	Adder	9.15
965741	AG1-442 O1	3.6073	Adder	8.01
965751	AG1-443 O1	3.6073	Adder	8.01
966491	AG1-518 O1	6.6165	Adder	14.69
966611	AG1-531 C	4.0378	Adder	8.96

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966612	AG1-531 E	2.6919	Adder	5.98
966931	AG1-431A	22.7268	Adder	50.45
WEC	WEC	0.4734	Confirmed LTF	0.4734
LGEE	LGEE	0.9858	Confirmed LTF	0.9858
CPL	CPL	7.4386	Confirmed LTF	7.4386
CBM-W2	CBM-W2	25.2314	Confirmed LTF	25.2314
NY	NY	1.4422	Confirmed LTF	1.4422
TVA	TVA	5.0218	Confirmed LTF	5.0218
O-066	O-066	19.4295	Confirmed LTF	19.4295
SIGE	SIGE	0.4862	Confirmed LTF	0.4862
CBM-S2	CBM-S2	85.6915	Confirmed LTF	85.6915
CBM-S1	CBM-S1	1.2240	Confirmed LTF	1.2240
G-007	G-007	3.0482	Confirmed LTF	3.0482
MEC	MEC	3.1081	Confirmed LTF	3.1081
LAGN	LAGN	6.2457	Confirmed LTF	6.2457
AA2-074	AA2-074	4.9095	LTF	4.9095
CBM-W1	CBM-W1	19.0952	Confirmed LTF	19.0952

11.6.55 Index 55

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168825773	934060	AD1-033 TAP	DVP	314481	6LANDSTN	DVP	1	DVP_P1-2: LN 2128	single	678.68	104.76	107.02	DC	15.34

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313526	AB2-022 C	0.4247	80/20	0.4247
314638	6ELIZ CT	0.2483	80/20	0.2483
314639	6TANGLEW	0.3936	80/20	0.3936
314643	3O INLET	0.6250	80/20	0.6250
315603	6AA1-139SOLA	3.5290	80/20	3.5290
315605	6W1-029WIND	0.6558	80/20	0.6558
315611	6Z1-036WIND	0.6690	80/20	0.6690
315614	AA2-178 C	0.6777	80/20	0.6777
933731	AC2-196 C	0.5255	80/20	0.5255
934061	AD1-033 C	16.2910	80/20	16.2910
934521	AD1-076 C	18.5140	80/20	18.5140
937221	AD2-160 C O1	9.7836	80/20	9.7836
938535	AE1-072 C	26.6825	80/20	26.6825
940491	AE2-034 C	3.2218	80/20	3.2218
941501	AE2-147 C	9.5922	80/20	9.5922
942401	AE2-253 C	10.2907	80/20	10.2907
944581	AF1-123 C O1	28.1142	80/20	28.1142
944591	AF1-124 C O1	28.1142	80/20	28.1142
944601	AF1-125 C O1	28.1142	80/20	28.1142
944871	AF1-152 C	3.1974	80/20	3.1974
945711	AF1-236 C O1	35.2713	80/20	35.2713
957531	AF2-047 C	7.6557	80/20	7.6557
957871	AF2-081 C	15.9163	80/20	15.9163
963821	AG1-235 C O1	42.7464	80/20	42.7464
964951	AG1-359 O1	49.9665	80/20	49.9665
965181	AG1-383 C	4.9470	80/20	4.9470
965631	AG1-431	20.4202	80/20	20.4202
966931	AG1-431A	15.3420	80/20	15.3420
WEC	WEC	0.0394	Confirmed LTF	0.0394
LGEE	LGEE	0.0798	Confirmed LTF	0.0798
CPL	CPL	0.3249	Confirmed LTF	0.3249
CBM-W2	CBM-W2	1.5142	Confirmed LTF	1.5142
NY	NY	0.0055	Confirmed LTF	0.0055
TVA	TVA	0.2730	Confirmed LTF	0.2730
SIGE	SIGE	0.0160	Confirmed LTF	0.0160
CBM-S2	CBM-S2	3.7375	Confirmed LTF	3.7375
CBM-S1	CBM-S1	0.0692	Confirmed LTF	0.0692
MEC	MEC	0.2225	Confirmed LTF	0.2225
LAGN	LAGN	0.3395	Confirmed LTF	0.3395
CBM-W1	CBM-W1	1.6824	Confirmed LTF	1.6824

11.6.56 Index 56

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168520699	934330	AD1-057 TAP	DVP	313845	6HATHAWAY	DVP	1	DVP_P1-2: LN 238-B	single	441.8	124.08	126.5	DC	10.69

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	6.5812	80/20	6.5812
313527	AB2-043 C	0.1616	80/20	0.1616
314572	3EMPORIA	0.3707	80/20	0.3707
314582	3KELFORD	0.1701	80/20	0.1701
314589	3MURPHYS	0.0588	80/20	0.0588
314704	3LAWRENC	0.2022	80/20	0.2022
315115	1S HAMPT1	0.7802	80/20	0.7802
315126	1ROARAP2	1.4999	80/20	1.4999
315128	1ROARAP4	1.4313	80/20	1.4313
315136	1ROSEMG1	5.2261	80/20	5.2261
315137	1ROSEMS1	3.2407	80/20	3.2407
315138	1ROSEMG2	2.4493	80/20	2.4493
315139	1GASTONA	6.5715	80/20	6.5715
315141	1GASTONB	6.5715	80/20	6.5715
315158	1KERR 1	0.1671	80/20	0.1671
315159	1KERR 2	0.4679	80/20	0.4679
315160	1KERR 3	0.4679	80/20	0.4679
315161	1KERR 4	0.4679	80/20	0.4679
315162	1KERR 5	0.4679	80/20	0.4679
315163	1KERR 6	0.4679	80/20	0.4679
315164	1KERR 7	0.4679	80/20	0.4679
315602	1HOLLOMANSOL	0.8537	80/20	0.8537
315606	3AA2-053SOLA	1.5027	80/20	1.5027
315607	3AA1-063SOLA	1.3009	80/20	1.3009
315608	3AA2-088SOLA	0.6986	80/20	0.6986
315614	AA2-178 C	0.4723	80/20	0.4723
316087	AB2-174 C	1.0440	80/20	1.0440
316096	AB2-100 C1	2.0014	80/20	2.0014
316098	AB2-100 C2	2.0014	80/20	2.0014
316103	AB2-015 C	4.3260	80/20	4.3260
316129	AC1-054 C	5.4766	80/20	5.4766
316131	AB2-060 C	0.4583	80/20	0.4583
316140	AB2-099 C (Suspended)	0.3741	80/20	0.3741
923991	AB2-040 C O1	7.1676	80/20	7.1676
924301	AB2-077 C O1 (Suspended)	0.6449	80/20	0.6449
924311	AB2-078 C O1 (Suspended)	0.6449	80/20	0.6449
924321	AB2-079 C O1 (Suspended)	0.6449	80/20	0.6449
925591	AC1-034 C	-5.1726	Adder	-6.09
926070	AC1-086 C	46.8402	80/20	46.8402

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
933991	AD1-023 C	5.5252	80/20	5.5252
934331	AD1-057 C O1	38.3548	80/20	38.3548
934521	AD1-076 C	19.4152	80/20	19.4152
936361	AD2-046 C O1	3.7209	80/20	3.7209
936401	AD2-051 C O1	5.6765	80/20	5.6765
938221	AE1-035 C	0.2134	80/20	0.2134
938771	AE1-103 C	1.5114	80/20	1.5114
939181	AE1-148 C	3.6364	80/20	3.6364
940491	AE2-034 C	2.2453	80/20	2.2453
940661	AE2-053 O1	1.3468	80/20	1.3468
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.1068	80/20	0.1068
942451	AE2-258	0.7644	80/20	0.7644
942471	AE2-260 C O1	31.3160	80/20	31.3160
943171	AE2-346 C	0.8980	80/20	0.8980
943911	AF1-059	9.2940	80/20	9.2940
945711	AF1-236 C O1	24.5809	80/20	24.5809
946281	AF1-292 C	1.2677	80/20	1.2677
957521	AF2-046 C	11.3592	80/20	11.3592
957531	AF2-047 C	5.3353	80/20	5.3353
960081	AF2-299 C	2.1366	80/20	2.1366
961091	AF2-400 C	0.2336	80/20	0.2336
961681	AG1-008 C	11.3820	80/20	11.3820
961931	AG1-036 C	0.8921	80/20	0.8921
961941	AG1-037 C	0.3207	80/20	0.3207
962331	AG1-082 C	1.2828	80/20	1.2828
962341	AG1-083 C	1.2828	80/20	1.2828
962351	AG1-084 C	1.0930	80/20	1.0930
962361	AG1-085 C	1.0930	80/20	1.0930
962571	AG1-106 C	13.0259	80/20	13.0259
963301	AG1-179 C	3.6710	80/20	3.6710
963311	AG1-180	1.7886	80/20	1.7886
964241	AG1-285 C O1	3.8400	80/20	3.8400
964491	AG1-312 C O1	10.8550	80/20	10.8550
964501	AG1-313 C O1	4.3213	80/20	4.3213
964801	AG1-343 C	4.1877	80/20	4.1877
965291	AG1-394 C	1.4462	80/20	1.4462
965451	AG1-413 C O1	3.9069	80/20	3.9069
965591	AG1-427 C	3.6254	80/20	3.6254
965601	AG1-428 C O1	3.0646	80/20	3.0646
965631	AG1-431	14.2311	80/20	14.2311
965691	AG1-437 C O1	4.7694	80/20	4.7694
965701	AG1-438 C O1	4.7694	80/20	4.7694
965721	AG1-440 C	4.0406	80/20	4.0406
965731	AG1-441 C	4.0406	80/20	4.0406
965741	AG1-442 O1	2.7821	80/20	2.7821
965751	AG1-443 O1	2.7821	80/20	2.7821
965771	AG1-445	2.3345	80/20	2.3345
965781	AG1-446	2.3345	80/20	2.3345
966621	AG1-532 C	1.1538	80/20	1.1538
966751	AG1-546 C	12.6926	80/20	12.6926
966811	AG1-552 C	2.3814	80/20	2.3814
966931	AG1-431A	10.6920	80/20	10.6920

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
G-007A	G-007A	0.2925	Confirmed LTF	0.2925
VFT	VFT	0.7675	Confirmed LTF	0.7675
CALDERWOOD	CALDERWOOD	0.6436	Confirmed LTF	0.6436
PRAIRIE	PRAIRIE	2.2679	Confirmed LTF	2.2679
CHEOAH	CHEOAH	0.6592	Confirmed LTF	0.6592
CBM-N	CBM-N	0.1380	Confirmed LTF	0.1380
COTTONWOOD	COTTONWOOD	2.4045	Confirmed LTF	2.4045
HAMLET	HAMLET	1.4010	Confirmed LTF	1.4010
GIBSON	GIBSON	0.4040	Confirmed LTF	0.4040
BLUEG	BLUEG	1.2464	Confirmed LTF	1.2464
TRIMBLE	TRIMBLE	0.3962	Confirmed LTF	0.3962
CATAWBA	CATAWBA	0.6836	Confirmed LTF	0.6836

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168825581	957820	AF2-076 TAP	DVP	314537	6SUFFOLK	DVP	1	DVP_P1-2: LN 2092	single	571.52	204.8	217.23	DC	71.0

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	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	4.9392	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

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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
169034857	964490	AG1-312 TAP	DVP	314569	6EARLEYS	DVP	1	DVP_P1-2: LN 2092	single	571.52	208.65	234.89	DC	149.93

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

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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
170031023	965690	AG1-437 TAP	DVP	964490	AG1-312 TAP	DVP	1	DVP_P1-2: LN 2092	single	571.52	190.42	216.65	DC	149.93

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

11.7 Queue Dependencies

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

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA1-063A	Carolina–Seaboard 115kV	In Service
AA1-065	Earleys 230kV	In Service
AA1-067	Everetts 34.5kV	In Service
AA1-139	Hickory-Shawboro 230kV	In Service
AA1-145	Four Rivers 230kV	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
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-059	Benson-Dunbar 115kV	Partially in Service - Under Construction
AB2-060	Chase City-Lunenburg 115kV	In Service
AB2-068	Chickahominy 500kV	Withdrawn
AB2-077	Buggs Island-Chase City 115kV	Suspended
AB2-078	Buggs Island-Chase City 115kV	Suspended
AB2-079	Buggs Island-Chase City 115kV	Suspended
AB2-099	Ahoskie 34.5kV	Suspended
AB2-100	Clubhouse-Lakeview 230kV	Partially in Service - Under Construction
AB2-134	Hopewell-Surry 230kV	In Service
AB2-160	Reams 115kV	Engineering and Procurement
AB2-161	Waverly #2 DP 115kV	Engineering and Procurement
AB2-169	Pantago-Five Points 115kV	Partially in Service - Under Construction
AB2-174	Emporia-Trego 115kV	In Service
AB2-190	Hopewell-Surry 230kV	Engineering and Procurement
AC1-027	Pendleton 34.5kV	In Service
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-054	Kerr Dam–Eatons Ferry 115 kV	Engineering and Procurement
AC1-065	Harmony Village-Shackleford 115kV	Engineering and Procurement
AC1-086	Thelma 230kV	Active
AC1-098	Dawson-South Justice 115kV	Engineering and Procurement

Queue Number	Project Name	Status
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-107	Chickahominy 500kV	Engineering and Procurement
AC1-131	PJM-CPLE	Confirmed
AC1-147	Grassfield 34.5kV	Engineering and Procurement
AC1-161	Septa 500kV	Engineering and Procurement
AC1-164	Chickahominy 230kV	Engineering and Procurement
AC1-189	Chinquapin-Everetts 230kV	Active
AC1-191	Elmont 115kV	Active
AC1-208	Cox-Whitakers 115kV	Engineering and Procurement
AC1-216	Hopewell-Surry 230kV	Partially in Service - Under Construction
AC1-221	Halifax-Person 230kV	Engineering and Procurement
AC1-222	Crystal Hill-Halifax 115kV	Engineering and Procurement
AC2-012	Grassfield-Great Bridge 115kV	Active
AC2-070	Old Church 34.5kV	Withdrawn
AC2-078	Disputanta-Waverly 115kV	Engineering and Procurement
AC2-079	Ivor-Oak Ridge 115kV	Engineering and Procurement
AC2-084	Dawson-South Justice 115kV	Active
AC2-100	Halifax-Person 230kV	Engineering and Procurement
AC2-137	Elko 34.5kV	Partially in Service - Under Construction
AC2-141	Septa 500kV	Active
AC2-196	Fentress 34.5kV	Engineering and Procurement
AD1-023	Cashie-Trowbridge 230 kV	Active
AD1-025	Hopewell-Surry 230 kV	Active
AD1-033	Fentress-Landstown 230 kV	Engineering and Procurement
AD1-041	Harmony Village-Shackleford 115 kV	Engineering and Procurement
AD1-055	Crystal Hill-Halifax 115 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-058	Halifax-Person 230 kV	Engineering and Procurement
AD1-076	Trowbridge 230 kV	Active
AD1-082	Bakers Pond-Ivor 115kV	Engineering and Procurement
AD1-087	Clover-Sedge Hill 230 kV	Active
AD1-088	Briery-Clover 230 kV	Active
AD1-105	Kings Dominion DP 115 kV	Active
AD1-131	Sedge Hill-Person 230 kV	Engineering and Procurement
AD1-144	Kings Fork 34.5 kV	Partially in Service - Under Construction
AD1-151	Hopewell-Surry 230 kV	Active
AD1-152	Clover-Sedge Hill 230 kV	Active
AD2-007	Hopewell-Surry 230 kV	Active
AD2-008	Hopewell-Surry 230 kV	Active
AD2-021	Elko 34.5 kV	Partially in Service - Under Construction
AD2-033	Chase City-Lunenburg 115 kV	Active
AD2-046	Boydton DP-Kerr Dam 115 kV	Active
AD2-051	Earleys – Northampton 230kV	Active
AD2-063	Central-Chase City 115kV	Active
AD2-073	Sanders DP 230 kV	Active
AD2-074	Garner DP-Lancaster 115 kV	Active
AD2-085	Myrtle-Windsor DP 115kV	Active
AD2-097	Spruance NUG 230kV	In Service
AD2-160	Hickory-Moyock 230kV	Active
AD2-202	Clover-Sedge Hill 230kV	Active
AD2-215	Kings Fork 34.5 kV	Withdrawn

Queue Number	Project Name	Status
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-068	Carson-Rogers Rd 500 kV	Active
AE1-069	Carson-Rogers Road 500 kV	Active
AE1-072	Shawboro-Sligo 230 kV	Active
AE1-074	Winterpock 34.5 kV	Engineering and Procurement
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
AE1-155	Garner-Northern Neck 115 kV	Active
AE1-162	Smithfield 34.5 kV	Engineering and Procurement
AE1-173	Carson-Suffolk 500 kV	Active
AE1-175	Light Foot 34.5 kV	Engineering and Procurement
AE1-191	Harmony Village-Shackleford 115 kV	Active
AE1-206	Four Rivers-Hanover 230 kV	Active
AE2-000B	N/A	N/A
AE2-005	Harmony Village-Shackleford 115 kV	Engineering and Procurement
AE2-007	Chesapeake 230 kV	Withdrawn
AE2-027	Harrowgate-Locks 115kV	Active
AE2-031	Carson-Rawlings 500 kV	Active
AE2-033	Clubhouse-Sappony 230 kV	Active
AE2-034	Mackeys 230 kV	Active
AE2-040	Sapony 34.5 kV	Active
AE2-041	Harmony Village 230 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-051	Carson-Septa 500 kV	Active
AE2-052	Disputanta-Poe 115 kV	Active
AE2-053	Kerr Dam-Ridge Road 115 kV	Active
AE2-078	Poolesville 34.5 kV	Engineering and Procurement
AE2-079	Poolesville 34.5 kV	Engineering and Procurement
AE2-094	Carson-Rogers Road 500 kV	Active
AE2-104	Suffolk 115 kV	Active
AE2-122	Birdneck-Landstown 230 kV	Active
AE2-123	Birdneck-Landstown 230 kV	Active
AE2-124	Landstown 230 kV	Active
AE2-147	Swamp 230 kV	Active
AE2-151	Earleys 34.5kV	Withdrawn
AE2-155	Old Church 34.5 kV	Partially in Service - Under Construction
AE2-156	Yadkin 115 kV	Active
AE2-182	Briery-Clover 230 kV	Active
AE2-212	Harrowgate 34 kV	Active
AE2-225	Suffolk 34 kV	Engineering and Procurement
AE2-227	Iron Bridge 34 kV	Engineering and Procurement
AE2-228	Tyler 34 kv	Engineering and Procurement
AE2-229	Suffolk 34 kV	Engineering and Procurement
AE2-231	St. Johns 115 kV	Active
AE2-247	Myrtle-Windsor 115 kV	Active
AE2-250	Purdy Sw.-Reams 115 kV	Active
AE2-253	Hickory-Moyock 230 kV	Active
AE2-258	Chase City 115 kV	Active
AE2-260	Clubhouse 230 kV	Active
AE2-270	Hopewell-Surry 230 kV	Active

Queue Number	Project Name	Status
AE2-313	Carson-Rawlings 500 kV	Active
AE2-346	Ahoskie 34.5 kV	Active
AF1-014	Harmony Village-Shackleford 115 kV	Active
AF1-017	Myrtle-Windsor 115 kV	Active
AF1-018	Harmony Village 230 kV	Active
AF1-031	Kings Dominion DP 115 kV	Active
AF1-032	Suffolk 34.5 kV	Engineering and Procurement
AF1-033	Poolesville 34 kV	Engineering and Procurement
AF1-042	Garner DP-Lancaster 115 kV	Active
AF1-058	Welco 34.5 kV	Engineering and Procurement
AF1-059	Brodnax-South Hill 115 kV	Active
AF1-067	Kings Dominion DP 115 kV	Active
AF1-069	Carson-Rogers Rd 500 kV	Active
AF1-082	Heartsease-Mayo Dunbar DP	Active
AF1-123	Fentress 500 kV	Active
AF1-124	Fentress 500 kV	Active
AF1-125	Fentress 500 kV	Active
AF1-128	Chesterfield 230 kV	Active
AF1-129	Chesterfield 230 kV	Active
AF1-152	Swamp 230 kV	Active
AF1-201	Hayes-White Marsh 115 kV	Active
AF1-236	Mackeys 230 kV	Active
AF1-246	Clover-Rawlings 500 kV	Active
AF1-265	Four Rivers-Hanover 230 kV	Active
AF1-266	Clubhouse-Sapony 230 kV	Active
AF1-291	Tyler 34.5 kV	Engineering and Procurement
AF1-292	Fields 34.5kV	Active
AF2-035	St. Johns 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
AF2-054	Wan 34.5 kV	Active
AF2-057	Grassfield 34.5 kV	Active
AF2-065	Surry-Hopewell 230 kV	Active
AF2-076	Suffolk-Nucor Steel 230 kV	Active
AF2-077	White Marsh 34.5 kV	Active
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-081	Moyock 230 kV	Active
AF2-085	Midlothian 34.5 kV	Engineering and Procurement
AF2-108	Locks 34.5 kV	Active
AF2-110	Suffolk 115 kV	Active
AF2-120	Garner-Northern Neck 115 kV	Active
AF2-144	Powhatan 34.5 kV	Active
AF2-242	Wharton 115 kV	Active
AF2-244	Powhatan 34.5 kV	Withdrawn
AF2-255	Iron Bridge 34.5 kV	Engineering and Procurement
AF2-256	Tyler 34.5 kV	Engineering and Procurement
AF2-257	Tyler 34.5 kV	Active
AF2-258	Harrowgate 34.5 kV	Active
AF2-259	Locks 34.5 kV	Active
AF2-266	Clover 230 kV	Active

Queue Number	Project Name	Status
AF2-297	Sedge Hill 115 kV	Active
AF2-299	Fields 34.5 kV	Active
AF2-300	St. Johns 115 kV	Active
AF2-400	Franklin 13.2 kV	Engineering and Procurement
AG1-000B	N/A	
AG1-007	Tar River 12.5 kV	Active
AG1-008	Tunis-Mapleton 115 kV	Active
AG1-009	Hopewell-Surry 230kV	Active
AG1-011	Colonial Trail 230 kV	Active
AG1-027	Suffolk-Holland 115 kV	Active
AG1-028	Suffolk-Holland 115 kV	Active
AG1-036	Tunis 34.5 kV	Active
AG1-037	Ahoskie 34.5 kV	Active
AG1-038	Garner DP-Lancaster 115 kV	Active
AG1-057	Harmony Village 230 kV	Active
AG1-064	Plaza 34.5 kV	Active
AG1-065	Plaza 34.5 kV	Active
AG1-075	Purdy-Sapony 115 kV	Active
AG1-081	Poolesville 34.5 kV	Withdrawn
AG1-082	Ahoskie 34.5 kV	Active
AG1-083	Ahoskie 34.5 kV	Active
AG1-084	Earlys 34.5 kV	Active
AG1-085	Earlys 34.5	Active
AG1-093	Halifax-Chase City 115 kV	Active
AG1-098	Briery-Clover 230 kV	Active
AG1-102	White Marsh 34.5 kV	Active
AG1-105	Clover-Sedge Hill 230 kV	Active
AG1-106	Thelma 230 kV	Active
AG1-134	N/A	N/A
AG1-135	Garner-Lancaster 115 kV	Active
AG1-145	Lightfoot 34.5 kV	Active
AG1-146	Garner DP-Lancaster 115 kV	Active
AG1-147	Garner DP-Lancaster 115 kV	Active
AG1-153	Heritage 500 kV	Active
AG1-160	Rogers Road 500 kV	Active
AG1-171	Hopewell-Surry 230kV	Active
AG1-172	Hopewell-Surry 230 kV	Active
AG1-173	Hopewell-Surry 230 kV	Active
AG1-174	Hopewell-Surry 230 kV	Active
AG1-175	Hopewell-Surry 230 kV	Active
AG1-176	Briery-Clover 230 kV	Active
AG1-178	Carson-Septa 500 kV	Active
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 kV	Active
AG1-183	St. Johns DP-REC 115 kV	Active
AG1-184	Carson-Septa 500 kV	Active
AG1-185	Pamplin-Chase City 115 kV	Active
AG1-187	St. Johns DP-REC 115 kV	Active
AG1-210	Northern Neck 34.5 kV	Active
AG1-213	St Johns 13.2 kV	Active
AG1-235	Fentress-Sligo 230 kV	Active

Queue Number	Project Name	Status
AG1-256	Northern Neck 230 kV	Active
AG1-282	Dunnsville 34.5 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-Occoneetchee 115 kV	Active
AG1-342	Dryburg 115 kV	Active
AG1-343	Boykins-Murphy 115 kV	Active
AG1-347	Briery DP-Clover 230 kV	Active
AG1-357	Clover-Rawlings 500 kV	Active
AG1-359	Fentress 230 kV	Active
AG1-364	Deep Creek 115 kV	Active
AG1-383	Hickory 34.5 kV	Active
AG1-388	Dunnsville 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
AG1-449	Rawlings-Carson 500 kV	Active
AG1-505	Rawlings-Clover 500 kV	Active
AG1-506	Rawlings-Clover 500 kV	Active
AG1-518	Suffolk 230 kV	Active
AG1-531	Poolesville-Winchester 230 kV	Active
AG1-532	Fields 34.5 kV	Active
AG1-536	Garner-Northern Neck 115 kV	Active
AG1-541	St. Johns 115 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	Parme 12.5 kV	Active
AG1-552	Carolina 13.2 kV	Active
AG1-558	Buckner 34.5 kV	Active
AG1-559	Caroline Pines 22 kV	Active
V4-068	Murphy's 34.5kV	In Service
W1-029	Winfall 230kV	In Service
Y1-086	Morgans Corner	In Service
Z1-036	WinFall-Chowan 230kV	Suspended
Z1-068	Birdneck 34.5kV	In Service
Z1-086	Heritage-Carson	In Service

Queue Number	Project Name	Status
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

Contingency Name	Contingency Definition
EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1	CONTINGENCY 'EXT_304222 6ROCKYMT230T 230 304226 6PA-RMOUNT#4 230 1' OPEN BRANCH FROM BUS 304222 TO BUS 304226 CKT 1 END
DVP_P1-2: LN 567	CONTINGENCY 'DVP_P1-2: LN 567' OPEN BRANCH FROM BUS 314903 TO BUS 314924 CKT 1 /* 8CHCKAHM 500.00 - 8SURREY 500.00 END
PL:48:P71:102649	CONTINGENCY 'PL:48:P71:102649' /* SUSQ-GEN1 230KV & BETA-SUSQ 230KV DISCONNECT BRANCH FROM BUS 207915 TO BUS 208113 CKT 1 /* BETA-SUSQ DISCONNECT BUS 208114 /* SUSQ G1 END
DVP_P1-2: LN 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 247	CONTINGENCY 'DVP_P1-2: LN 247' OPEN BRANCH FROM BUS 313713 TO BUS 314648 CKT 1 /* 6SWAMP 230.00 - 6SUNBURY 230.00 OPEN BRANCH FROM BUS 314537 TO BUS 314648 CKT 1 /* 6SUFFOLK 230.00 - 6SUNBURY 230.00 OPEN BUS 314648 /* ISLAND: 6SUNBURY 230.00 END
DVP_P1-2: LN 2087-B	CONTINGENCY 'DVP_P1-2: LN 2087-B' OPEN BRANCH FROM BUS 937220 TO BUS 314550 CKT 1 /* AD2-160 TAP 230.00 - 6HICKORY 230.00 OPEN BRANCH FROM BUS 314466 TO BUS 314550 CKT 1 /* 6FENTRES 230.00 - 6HICKORY 230.00 OPEN BUS 314468 /* ISLAND: 3GREATBR 115.00 OPEN BUS 314476 /* ISLAND: 3HICKORY 115.00 OPEN BUS 314550 /* ISLAND: 6HICKORY 230.00 END
DVP_P1-2: LN 269_1-A	CONTINGENCY 'DVP_P1-2: LN 269_1-A' OPEN BRANCH FROM BUS 314466 TO BUS 963820 CKT 1 /* 6FENTRES 230.00 - AG1- 235 TAP 230.00 END

Contingency Name	Contingency Definition
314550 6HICKORY 230 937220 AD2-160 TAP 230 1	CONTINGENCY '314550 6HICKORY 230 937220 AD2-160 TAP 230 1' OPEN BRANCH FROM BUS 314550 TO BUS 937220 CKT 1 END
DVP_P2-2: BREMO B1	CONTINGENCY 'DVP_P2-2: BREMO B1' /* BREMO 230 KV OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END
DVP_P1-2: LN 2131	CONTINGENCY 'DVP_P1-2: LN 2131' OPEN BRANCH FROM BUS 313714 TO BUS 313885 CKT 1 /* 6PERQUIMANS 230.00 - 6WALBMRL 230.00 OPEN BRANCH FROM BUS 313885 TO BUS 314637 CKT 1 /* 6WALBMRL 230.00 - 6EDENTON 230.00 OPEN BRANCH FROM BUS 314203 TO BUS 314637 CKT 1 /* 6MACKEYS 230.00 - 6EDENTON 230.00 OPEN BUS 313885 /* ISLAND: 6WALBMRL 230.00 OPEN BUS 314637 /* ISLAND: 6EDENTON 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 2058-2181	CONTINGENCY 'DVP_P7-1: LN 2058-2181' /* . OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P1-2: LN 246-A	CONTINGENCY 'DVP_P1-2: LN 246-A' OPEN BRANCH FROM BUS 314537 TO BUS 957820 CKT 1 /* 6SUFFOLK 230.00 - AF2-076 230.00 END
DVP_P1-2: LN 246-B	CONTINGENCY 'DVP_P1-2: LN 246-B' OPEN BRANCH FROM BUS 957820 TO BUS 314575 CKT 1 /* AF2-076 230.00 - 6NUCO TP 230.00 OPEN BRANCH FROM BUS 314569 TO BUS 314575 CKT 1 /* 6EARLEYS 230.00 - 6NUCO TP 230.00 OPEN BRANCH FROM BUS 314575 TO BUS 314590 CKT 1 /* 6NUCO TP 230.00 - 6NUCOR 230.00 OPEN BUS 314575 /* ISLAND: 6NUCO TP 230.00 OPEN BUS 314590 /* ISLAND: 6NUCOR 230.00 END
DVP_P1-2: LN 2167	CONTINGENCY 'DVP_P1-2: LN 2167' OPEN BRANCH FROM BUS 313845 TO BUS 314564 CKT 1 /* 6HATHAWAY 230.00 - 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

Contingency Name	Contingency Definition
DVP_P1-2: LN 238-B	CONTINGENCY 'DVP_P1-2: LN 238-B' OPEN BRANCH FROM BUS 940480 TO BUS 314563 CKT 1 /* AE2-033 TAP 230.00 - 6CLUBHSE 230.00 OPEN BRANCH FROM BUS 314562 TO BUS 314563 CKT 1 /* 3CLUBHSE 115.00 - 6CLUBHSE 230.00 END
DVP_P1-2: LN 238-A	CONTINGENCY 'DVP_P1-2: LN 238-A' OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2-033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 END
DVP_P7-1: LN 25-2034-A	CONTINGENCY 'DVP_P7-1: LN 25-2034-A' OPEN BRANCH FROM BUS 314573 TO BUS 314596 CKT 1 /* 3EVERETS 115.00 - 3POPLR C 115.00 OPEN BRANCH FROM BUS 314596 TO BUS 314614 CKT 1 /* 3POPLR C 115.00 - 3TRWBRDG2 115.00 OPEN BUS 314596 /* ISLAND: 3POPLR C 115.00 OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 314616 TO BUS 933990 CKT 1 /* 6TRWBRDG 230.00 - AD1-023 TAP 230.00 END
DVP_P1-2: LN 271-B	CONTINGENCY 'DVP_P1-2: LN 271-B' OPEN BRANCH FROM BUS 934060 TO BUS 314481 CKT 1 /* AD1-033 TAP 230.00 - 6LANDSTN 230.00 END
DVP_P4-2: 2020T2144	CONTINGENCY 'DVP_P4-2: 2020T2144' /* WINFALL 230 KV OPEN BRANCH FROM BUS 313851 TO BUS 314638 CKT 1 /* 6ECITYDP2 230.00 - 6ELIZ CT 230.00 OPEN BRANCH FROM BUS 313851 TO BUS 314639 CKT 1 /* 6ECITYDP2 230.00 - 6TANGLEW 230.00 OPEN BRANCH FROM BUS 314639 TO BUS 314651 CKT 1 /* 6TANGLEW 230.00 - 6WINFALL 230.00 OPEN BUS 313851 /* ISLAND: 6ECITYDP2 230.00 OPEN BUS 314639 /* ISLAND: 6TANGLEW 230.00 OPEN BUS 917122 /* ISLAND: Z2-027 E 230.00 OPEN BRANCH FROM BUS 313713 TO BUS 314651 CKT 1 /* 6SWAMP 230.00 - 6WINFALL 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 271-A	CONTINGENCY 'DVP_P1-2: LN 271-A' OPEN BRANCH FROM BUS 314466 TO BUS 934060 CKT 1 /* 6FENTRES 230.00 - AD1-033 TAP 230.00 END
DVP_P1-2: LN 579	CONTINGENCY 'DVP_P1-2: LN 579' OPEN BRANCH FROM BUS 314923 TO BUS 314927 CKT 1 /* 8SEPTA 500.00 - 8YADKIN 500.00 END
DVP_P1-2: LN 2056-A	CONTINGENCY 'DVP_P1-2: LN 2056-A' OPEN BRANCH FROM BUS 313845 TO BUS 934330 CKT 1 /* 6HATHAWAY 230.00 - AD1-057 TAP 230.00 END
AEP_P2-2_#1377_05J.FERR 765_1	CONTINGENCY 'AEP_P2-2_#1377_05J.FERR 765_1' OPEN BRANCH FROM BUS 242514 TO BUS 242520 CKT 1 / 242514 05J.FERR 765 242520 05J.FERR 500 1 OPEN BRANCH FROM BUS 242520 TO BUS 306719 CKT 1 / 242520 05J.FERR 500 306719 8ANTIOCH 500 1 END
DVP_P1-3: 8SUFFOLK-TX#8	CONTINGENCY 'DVP_P1-3: 8SUFFOLK-TX#8' OPEN BRANCH FROM BUS 314537 TO BUS 314928 CKT 2 /* 6SUFFOLK 230.00 - 8SUFFOLK 500.00 END
DVP_P1-2: LN 557	CONTINGENCY 'DVP_P1-2: LN 557' OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 END
DVP_P1-2: LN 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_P7-1: LN 223-226	CONTINGENCY 'DVP_P7-1: LN 223-226' /*. OPEN BRANCH FROM BUS 314475 TO BUS 314514 CKT 1 /* 6HARBORV 230.00 - 6YADKIN 230.00 OPEN BRANCH FROM BUS 314475 TO BUS 314533 CKT 1 /* 6HARBORV 230.00 - 6SMITFLD 230.00 OPEN BRANCH FROM BUS 314533 TO BUS 314538 CKT 1 /* 6SMITFLD 230.00 - 6SURREY 230.00 OPEN BUS 314475 /* ISLAND: 6HARBORV 230.00 OPEN BUS 314533 /* ISLAND: 6SMITFLD 230.00 OPEN BUS 316258 /* ISLAND: AE1-162 C 230.00 OPEN BUS 939312 /* ISLAND: AE1-162 E 230.00 OPEN BRANCH FROM BUS 314453 TO BUS 314484 CKT 1 /* 6CHRLND 230.00 - 6HARBORV226 230.00 OPEN BRANCH FROM BUS 314484 TO BUS 314523 CKT 1 /* 6HARBORV226 230.00 - 6CRITTDN 230.00 OPEN BRANCH FROM BUS 314523 TO BUS 314538 CKT 1 /* 6CRITTDN 230.00 - 6SURREY 230.00 OPEN BUS 314484 /* ISLAND: 6HARBORV226 230.00 OPEN BUS 314523 /* ISLAND: 6CRITTDN 230.00 END
DVP_P1-2: LN 574	CONTINGENCY 'DVP_P1-2: LN 574' OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END
DVP_P1-2: LN 576	CONTINGENCY 'DVP_P1-2: LN 576' OPEN BRANCH FROM BUS 314914 TO BUS 314918 CKT 1 /* 8MDLTHAN 500.00 - 8NO ANNA 500.00 END
DVP_P1-2: LN 2020	CONTINGENCY 'DVP_P1-2: LN 2020' OPEN BRANCH FROM BUS 313851 TO BUS 314638 CKT 1 /* 6ECITYDP2 230.00 - 6ELIZ CT 230.00 OPEN BRANCH FROM BUS 313851 TO BUS 314639 CKT 1 /* 6ECITYDP2 230.00 - 6TANGLEW 230.00 OPEN BRANCH FROM BUS 314639 TO BUS 314651 CKT 1 /* 6TANGLEW 230.00 - 6WINFALL 230.00 OPEN BUS 313851 /* ISLAND: 6ECITYDP2 230.00 OPEN BUS 314639 /* ISLAND: 6TANGLEW 230.00 OPEN BUS 917122 /* ISLAND: Z2-027 E 230.00 END
Base Case	
DVP_P1-2: LN 2144	CONTINGENCY 'DVP_P1-2: LN 2144' OPEN BRANCH FROM BUS 313713 TO BUS 314651 CKT 1 /* 6SWAMP 230.00 - 6WINFALL 230.00 END

Contingency Name	Contingency Definition
DVP_P4-2: 563T576	CONTINGENCY 'DVP_P4-2: 563T576' /* MIDLOTHIAN 500 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 OPEN BRANCH FROM BUS 314914 TO BUS 314918 CKT 1 /* 8MDLTHAN 500.00 - 8NO ANNA 500.00 END
DVP_P4-2: 562T563	CONTINGENCY 'DVP_P4-2: 562T563' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 940640 CKT 1 /* 8CARSON 500.00 - AE2- 051 TAP 500.00 OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 2128	CONTINGENCY 'DVP_P1-2: LN 2128' OPEN BRANCH FROM BUS 314466 TO BUS 314508 CKT 1 /* 6FENTRES 230.00 - 6THRASHER 230.00 END
DVP_P1-2: LN 2058	CONTINGENCY 'DVP_P1-2: LN 2058' OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 END
DVP_P1-2: LN 588	CONTINGENCY 'DVP_P1-2: LN 588' OPEN BRANCH FROM BUS 314466 TO BUS 314909 CKT 1 /* 6FENTRES 230.00 - 8FENTRES 500.00 OPEN BRANCH FROM BUS 314466 TO BUS 314909 CKT 2 /* 6FENTRES 230.00 - 8FENTRES 500.00 OPEN BRANCH FROM BUS 314909 TO BUS 314927 CKT 1 /* 8FENTRES 500.00 - 8YADKIN 500.00 OPEN BUS 314909 /* ISLAND: 8FENTRES 500.00 END
DVP_P1-2: LN 2092	CONTINGENCY 'DVP_P1-2: LN 2092' OPEN BRANCH FROM BUS 313714 TO BUS 314662 CKT 1 /* 6PERQUIMANS 230.00 - 6S HERTFORD 230.00 OPEN BRANCH FROM BUS 314651 TO BUS 314662 CKT 1 /* 6WINFALL 230.00 - 6S HERTFORD 230.00 OPEN BUS 314662 /* ISLAND: 6S HERTFORD 230.00 END
DVP_P1-2: LN 2034-A	CONTINGENCY 'DVP_P1-2: LN 2034-A' OPEN BRANCH FROM BUS 314569 TO BUS 964490 CKT 1 /* 6EARLEYS 230.00 - AG1- 312 TAP 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2034-B	CONTINGENCY 'DVP_P1-2: LN 2034-B' OPEN BRANCH FROM BUS 965690 TO BUS 964490 CKT 1 /* AG1-437 TAP 230.00 - AG1-312 TAP 230.00 END
DVP_P1-2: LN 2034-C	CONTINGENCY 'DVP_P1-2: LN 2034-C' OPEN BRANCH FROM BUS 965690 TO BUS 314620 CKT 1 /* AG1-437 TAP 230.00 - 6CASHIE 230.00 OPEN BUS 314620 /* ISLAND: 6CASHIE 230.00 END
DVP_P1-2: LN 2034-E	CONTINGENCY 'DVP_P1-2: LN 2034-E' OPEN BRANCH FROM BUS 314614 TO BUS 314616 CKT 1 /* 3TRWBRDG2 115.00 - 6TRWBRDG 230.00 OPEN BRANCH FROM BUS 933990 TO BUS 314616 CKT 1 /* AD1-023 TAP 230.00 - 6TRWBRDG 230.00 END
DVP_P1-3: 8SUFFOLK-TX#7	CONTINGENCY 'DVP_P1-3: 8SUFFOLK-TX#7' OPEN BRANCH FROM BUS 314537 TO BUS 314928 CKT 1 /* 6SUFFOLK 230.00 - 8SUFFOLK 500.00 END

12 Short Circuit Analysis

The following Breakers are overdutied:

None.

12.1 System Reinforcements - Short Circuit

None.

13 Affected Systems

13.1 TVA

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

13.2 Duke Energy Progress

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

14 Attachment 1: One Line Diagram