



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-184
CARSON-SEPTA 500 KV
175.06 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 Storage generating facility located in Sussex, Virginia. This project is an increase to the Interconnection Customer's AG1-178 project, which will share the same point of interconnection. The AG1-184 queue position is a 175.06 MW uprate (175.06 MW Capacity uprate) to the previous project. The total installed facilities will have a capability of 500 MW with 500 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this uprate project is June 30, 2023. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-184
Project Name	CARSON-SEPTA 500 KV
State	Virginia
County	Sussex
Transmission Owner	Dominion
MFO	500
MWE	0
MWC	175.06
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

AG1-184 "Carson-Septa 500 kV" will interconnect with the Dominion transmission system as an uprate to AG1-178, sharing the POI and Attachment Facilities.

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

Costs provided are contingent on the AG1-178 project being built. Should the AG1-178 project withdraw from the Interconnection Queue, the AG1-184 project will assume the Attachment, Direct Connection, and Non-Direct Connection costs identified in the AG1-178 study report for connection to the Dominion system.

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

4.2 Secondary Point of Interconnection

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

The secondary POI for AG1-184 is a new tap on the Carson-Suffolk 500 kV line.

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

5 Cost Summary

The AG1-184 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$0
Total System Network Upgrade Costs	\$1,345,597,500 ¹
Total Costs	\$1,345,597,500

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

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

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

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

6 Transmission Owner Scope of Work

The required Attachment Facilities, Direct Connection and Non-Direct Connection work for the interconnection of AG1-184 to the Dominion Transmission System is detailed in the following sections. The associated one-line showing the generation project attachment facilities and primary direct and non-direct connection is shown in Attachment 1.

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

AG1-184 "Carson-Septa 500 kV" will interconnect with the Dominion transmission system as an uprate to AG1-178, sharing the POI and Attachment Facilities.

As AG1-184 is sharing the POI and Attachment Facilities with AG1-178, there are no associated interconnection costs for this project. Should the AG1-178 project withdraw from the Interconnection Queue, the AG1-184 project will assume the Attachment, Direct Connection, and Non-Direct Connection costs identified in the AG1-178 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

7 Schedule

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

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

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

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

8 Transmission Owner Analysis

Dominion assessed the impact of the proposed AG1-184 for compliance with NERC Reliability Criteria on the Dominion Transmission System. The system was assessed using the summer 2024 AG1 case provided to Dominion by PJM.

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

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

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

8.1 Power Flow Analysis

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

9 Interconnection Customer Requirements

9.1 System Protection

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

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

9.2 Compliance Issues and Interconnection Customer Requirements

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

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

The GSU(s) associated with the IC queue request shall meet the grounding requirements as noted in Dominion’s “Dominion’s Facility Interconnection Requirements” document located at:

<https://www.dominionenergy.com/company/moving-energy/electric-transmission-access>.

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

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

9.3 Power Factor Requirements

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

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

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

10.2 Interconnected Transmission Owner Requirements

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

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

11 Summer Peak - Load Flow Analysis - Primary POI

The Queue Project AG1-184 was evaluated as a 0.0 MW (Capacity 175.1 MW) injection as an uprate to AG1-178 which is tapping the Carson to Septa 500 kV line in the Dominion area. Project AG1-184 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-184 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)

None

11.2 Multiple Facility Contingency

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

None

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADIN G %	POST PROJE CT LOADIN G %	AC/D C	MW IMPAC T
168691943	314209	6SKIFF CREEK	230.0	DVP	314386	6KINGS M	230.0	DVP	1	DVP_P 1-2: LN 567	single	441.799987793	158.8	159.91	DC	10.8
168691944	314209	6SKIFF CREEK	230.0	DVP	314386	6KINGS M	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	130.85	131.77	DC	9.06
168692104	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	2	DVP_P 1-2: LN 557	single	879.840026855	154.2	154.94	DC	16.69
168692132	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 1-2: LN 557	single	920.918029785	148.01	148.72	DC	16.76
168692259	314225	6CHARCTY	230.0	DVP	314227	6LAKESIDE	230.0	DVP	1	DVP_P 1-2: LN 563	single	984.179992676	111.33	111.7	DC	10.78
168692247	314260	6VARINA	230.0	DVP	314225	6CHARCTY	230.0	DVP	1	DVP_P 1-2: LN 563	single	984.179992676	114.74	115.1	DC	10.78
168692055	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P 1-2: LN 563	single	559.299987793	156.96	159.12	DC	12.39
168692312	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P 1-2: LN 563	single	678.679992676	108.3	109.78	DC	10.37
168692065	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P 1-2: LN 563	single	559.299987793	153.15	155.31	DC	12.39
168692003	314287	6CHESTF B	230.0	DVP	314276	6BASIN	230.0	DVP	1	DVP_P 1-2: LN 563	single	663.640014648	162.25	162.76	DC	10.93
168692240	314287	6CHESTF B	230.0	DVP	314260	6VARINA	230.0	DVP	1	DVP_P 1-2: LN 563	single	984.179992676	115.1	115.47	DC	10.78
168691951	314296	6PENNIMA N	230.0	DVP	314415	6WALR209	230.0	DVP	1	DVP_P 1-2: LN 567	single	441.799987793	146.89	148.0	DC	10.8
168691952	314296	6PENNIMA N	230.0	DVP	314415	6WALR209	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	118.92	119.84	DC	9.06
168692088	314299	6HARROW G	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	134.91	137.01	DC	9.6

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE C T LOADIN G %	POST PROJE C T LOADIN G %	AC D C	MW IMPAC T
168692208	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	134.6	136.16	DC	9.92
168692135	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	139.76	141.32	DC	9.92
168692084	314331	6POE	230.0	DVP	314299	6HARROW G	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	134.93	137.03	DC	9.6
168691947	314386	6KINGS M	230.0	DVP	314296	6PENNIMA N	230.0	DVP	1	DVP_P 1-2: LN 567	single	441.799987793	150.85	151.96	DC	10.8
168691948	314386	6KINGS M	230.0	DVP	314296	6PENNIMA N	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	122.88	123.8	DC	9.06
168691961	314415	6WALR209	230.0	DVP	314391	6LIGH209	230.0	DVP	1	DVP_P 1-2: LN 567	single	441.799987793	130.75	131.86	DC	10.8
168691962	314415	6WALR209	230.0	DVP	314391	6LIGH209	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	102.78	103.7	DC	9.06
163600761	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	DVP_P 4-2: 557T574	break er	3938.0	144.25	144.86	DC	65.24
163600762	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	DVP_P 4-2: H2T557	break er	3938.0	137.68	138.16	DC	64.04
163600838	314902	8CARSON	500.0	DVP	939410	AE1-173_POI	500.0	DVP	1	DVP_P 4-2: 562T563	break er	3144.0	103.04	105.09	DC	70.8
163601019	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	DVP_P 1-2: LN 557	single	3218.56005859	128.44	129.12	DC	60.22
163601020	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	DVP_P 1-2: LN 567	single	3218.56005859	119.22	121.02	DC	60.82
163601027	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	Base Case	single	3218.56005859	100.86	102.34	DC	51.37
168692045	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 563	single	903.903991699	150.78	153.77	DC	27.3
168692047	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 562-C	single	903.903991699	103.47	106.13	DC	24.0
163600756	314903	8CHCKAH M	500.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 4-2: 56372	break er	3144.0	159.28	159.35	DC	54.09
163600757	314903	8CHCKAH M	500.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 4-2: 563T576	break er	3144.0	158.56	158.61	DC	52.55
163600951	314903	8CHCKAH M	500.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 1-2: LN 563	single	2442.12011719	182.84	183.31	DC	50.17
163600952	314903	8CHCKAH M	500.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 1-2: LN 576	single	2442.12011719	179.23	179.41	DC	48.19
163600960	314903	8CHCKAH M	500.0	DVP	314908	8ELMONT	500.0	DVP	1	Base Case	single	2442.12011719	143.9	144.21	DC	35.11
168691976	314903	8CHCKAH M	500.0	DVP	314214	6CHCKAH M	230.0	DVP	1	DVP_P 1-2: LN 557	single	934.923950195	205.91	207.09	DC	13.72

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE C T LOADIN G %	POST PROJE C T LOADIN G %	AC D C	MW IMPAC T
163600918	314908	8ELMONT	500.0	DVP	314911	8LADYSMIT H	500.0	DVP	1	DVP_P 1-2: LN 576	single	2442.12011719	219.06	219.14	DC	52.29
163600921	314908	8ELMONT	500.0	DVP	314911	8LADYSMIT H	500.0	DVP	1	DVP_P 1-2: LN 563	single	2442.12011719	195.33	195.4	DC	44.75
163600997	314911	8LADYSMIT H	500.0	DVP	314922	8POSSUM	500.0	DVP	1	DVP_P 1-2: LN 581	single	2442.12011719	148.92	149.4	DC	28.13
163601000	314911	8LADYSMIT H	500.0	DVP	314922	8POSSUM	500.0	DVP	1	DVP_P 1-2: LN 594	single	2442.12011719	142.05	142.53	DC	27.4
163600771	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 4-2: 557T574	break er	3637.0	139.78	139.8	DC	59.72
163600983	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 1-2: LN 574	single	2442.12011719	175.31	175.84	DC	55.32
163600986	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 1-2: LN 557	single	2442.12011719	154.31	154.68	DC	53.62
163600993	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	Base Case	single	2442.12011719	126.54	127.26	DC	45.08
168692098	314914	8MDLTHA N	500.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P 1-2: LN 576	single	1058.15795898	137.55	139.64	DC	23.21
163601083	314918	8NO ANNA	500.0	DVP	962840	AG1-133 TAP	500.0	DVP	1	DVP_P 1-2: LN 573	single	3218.56005859	115.35	116.36	DC	33.37
163601090	314918	8NO ANNA	500.0	DVP	314934	8SPOTSYL	500.0	DVP	1	DVP_P 1-2: LN 581	single	3218.56005859	130.95	131.04	DC	38.08
163601091	314918	8NO ANNA	500.0	DVP	314934	8SPOTSYL	500.0	DVP	1	DVP_P 1-2: LN 575-A	single	3218.56005859	122.07	123.19	DC	35.83
163600854	314923	8SEPTA	500.0	DVP	314924	8SURREY	500.0	DVP	1	DVP_P 4-2: 56372	break er	3637.0	101.34	102.92	DC	66.51
163600766	314924	8SURREY	500.0	DVP	314903	8CHCKAH M	500.0	DVP	1	DVP_P 4-2: 56372	break er	3144.0	129.83	131.67	DC	54.78
163600767	314924	8SURREY	500.0	DVP	314903	8CHCKAH M	500.0	DVP	1	DVP_P 4-2: 562T563	break er	3144.0	116.88	119.11	DC	69.22
163601050	314924	8SURREY	500.0	DVP	314903	8CHCKAH M	500.0	DVP	1	DVP_P 1-2: LN 563	single	2442.12011719	113.06	114.78	DC	48.44
163601054	314924	8SURREY	500.0	DVP	314903	8CHCKAH M	500.0	DVP	1	DVP_P 1-2: LN 576	single	2442.12011719	101.73	103.07	DC	43.52
163601032	314934	8SPOTSYL	500.0	DVP	314916	8MORRSVL	500.0	DVP	1	DVP_P 1-2: LN 552	single	3218.56005859	134.94	135.07	DC	37.28
163601033	314934	8SPOTSYL	500.0	DVP	314916	8MORRSVL	500.0	DVP	1	DVP_P 1-2: LN 581	single	3218.56005859	133.66	133.76	DC	36.73
163600786	939410	AE1-173_POI	500.0	DVP	314928	8SUFFOLK	500.0	DVP	1	DVP_P 4-2: 562T563	break er	3144.0	115.57	117.62	DC	70.8
163600801	940470	AE2-031 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P 4-5: W72	break er	5046.0	111.34	112.87	DC	77.2

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADIN G %	POST PROJE CT LOADIN G %	AC D C	MW IMPAC T
163601078	962840	AG1-133 TAP	500.0	DVP	314911	8LADYSMIT H	500.0	DVP	1	DVP_P 1-2: LN 573	single	3218.56005859	114.86	115.87	DC	33.37

11.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADIN G %	POST PROJE CT LOADIN G %	AC D C	MW IMPAC T
168691941	314209	6SKIFF CREEK	230.0	DVP	314386	6KINGS M	230.0	DVP	1	DVP_P 1-2: LN 567	operatio n	441.799987793	250.67	251.78	DC	10.8
168692176	314209	6SKIFF CREEK	230.0	DVP	314413	6WALR285	230.0	DVP	1	DVP_P 1-2: LN 567	operatio n	678.679992676	143.42	144.12	DC	10.3
168692258	314225	6CHARCTY	230.0	DVP	314227	6LAKESIDE	230.0	DVP	1	DVP_P 1-2: LN 563	operatio n	984.179992676	137.55	137.66	DC	10.78
168692246	314260	6VARINA	230.0	DVP	314225	6CHARCTY	230.0	DVP	1	DVP_P 1-2: LN 563	operatio n	984.179992676	140.95	141.06	DC	10.78
168692054	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P 1-2: LN 563	operatio n	559.299987793	176.48	177.48	DC	12.39
168692311	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P 1-2: LN 563	operatio n	678.679992676	122.42	123.11	DC	10.37
168692064	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P 1-2: LN 563	operatio n	559.299987793	172.67	173.67	DC	12.39
168692001	314287	6CHESTF B	230.0	DVP	314276	6BASIN	230.0	DVP	1	DVP_P 1-2: LN 563	operatio n	663.640014648	200.47	201.21	DC	10.93
168692239	314287	6CHESTF B	230.0	DVP	314260	6VARINA	230.0	DVP	1	DVP_P 1-2: LN 563	operatio n	984.179992676	141.32	141.43	DC	10.78
168691949	314296	6PENNIMA N	230.0	DVP	314415	6WALR209	230.0	DVP	1	DVP_P 1-2: LN 567	operatio n	441.799987793	238.76	239.88	DC	10.8
168692087	314299	6HARROW G	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P 1-2: LN 563	operatio n	441.799987793	161.04	162.02	DC	9.6
168692134	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 563	operatio n	441.799987793	149.15	150.16	DC	9.92
168692083	314331	6POE	230.0	DVP	314299	6HARROW G	230.0	DVP	1	DVP_P 1-2: LN 563	operatio n	441.799987793	161.06	162.04	DC	9.6

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPAC T
1686919 45	31438 6	6KINGS M	230. 0	DVP	31429 6	6PENNIMA N	230. 0	DVP	1	DVP_P 1-2: LN 567	operatio n	441.7999877 93	242.73	243.84	DC	10.8
1686923 08	31439 0	6LIGH285	230. 0	DVP	31421 4	6CHCKAH M	230. 0	DVP	1	DVP_P 1-2: LN 567	operatio n	678.6799926 76	124.06	124.76	DC	10.3
1686921 73	31439 1	6LIGH209	230. 0	DVP	31438 8	6LANEXA	230. 0	DVP	1	DVP_P 1-2: LN 567	operatio n	663.6400146 48	140.48	141.22	DC	10.8
1686922 43	31441 3	6WALR285	230. 0	DVP	31439 0	6LIGH285	230. 0	DVP	1	DVP_P 1-2: LN 567	operatio n	678.6799926 76	134.26	134.95	DC	10.3
1686919 59	31441 5	6WALR209	230. 0	DVP	31439 1	6LIGH209	230. 0	DVP	1	DVP_P 1-2: LN 567	operatio n	441.7999877 93	222.63	223.74	DC	10.8
1636010 16	31490 2	8CARSON	500. 0	DVP	31491 4	8MDLTHA N	500. 0	DVP	1	DVP_P 1-2: LN 567	operatio n	3218.560058 59	146.23	147.15	DC	60.82
1636010 25	31490 2	8CARSON	500. 0	DVP	31491 4	8MDLTHA N	500. 0	DVP	1	Base Case	operatio n	3218.560058 59	120.65	121.0	DC	51.37
1686920 44	31490 2	8CARSON	500. 0	DVP	31428 2	6CARSON	230. 0	DVP	1	DVP_P 1-2: LN 563	operatio n	903.9039916 99	180.22	183.25	DC	27.3
1636009 49	31490 3	8CHCKAH M	500. 0	DVP	31490 8	8ELMONT	500. 0	DVP	1	DVP_P 1-2: LN 563	operatio n	2442.120117 19	197.33	197.4	DC	50.17
1686919 75	31490 3	8CHCKAH M	500. 0	DVP	31421 4	6CHCKAH M	230. 0	DVP	1	DVP_P 1-2: LN 557	operatio n	934.9239501 95	235.93	236.12	DC	13.72
1636009 82	31491 4	8MDLTHA N	500. 0	DVP	31491 8	8NO ANNA	500. 0	DVP	1	DVP_P 1-2: LN 574	operatio n	2442.120117 19	185.89	186.07	DC	55.32
1636009 92	31491 4	8MDLTHA N	500. 0	DVP	31491 8	8NO ANNA	500. 0	DVP	1	Base Case	operatio n	2442.120117 19	137.75	137.99	DC	45.08
1686920 97	31491 4	8MDLTHA N	500. 0	DVP	31432 2	6MDLTHA N	230. 0	DVP	1	DVP_P 1-2: LN 576	operatio n	1058.157958 98	170.14	170.93	DC	23.21
1636010 81	31491 8	8NO ANNA	500. 0	DVP	96284 0	AG1-133 TAP	500. 0	DVP	1	DVP_P 1-2: LN 573	operatio n	3218.560058 59	139.51	139.66	DC	33.37
1636010 87	31491 8	8NO ANNA	500. 0	DVP	31493 4	8SPOTSYL	500. 0	DVP	1	DVP_P 1-2: LN 575-A	operatio n	3218.560058 59	139.22	139.56	DC	35.83
1636011 12	31492 3	8SEPTA	500. 0	DVP	31492 4	8SURREY	500. 0	DVP	1	DVP_P 1-2: LN 563	operatio n	2442.120117 19	125.26	127.63	DC	57.57
1636010 48	31492 4	8SURREY	500. 0	DVP	31490 3	8CHCKAH M	500. 0	DVP	1	DVP_P 1-2: LN 563	operatio n	2442.120117 19	146.43	146.53	DC	48.44
1636010 55	31492 4	8SURREY	500. 0	DVP	31490 3	8CHCKAH M	500. 0	DVP	1	Base Case	operatio n	2442.120117 19	103.12	103.25	DC	33.08
1636010 28	31493 4	8SPOTSYL	500. 0	DVP	31491 6	8MORRSVL	500. 0	DVP	1	DVP_P 1-2: LN 575-A	operatio n	3218.560058 59	146.4	146.76	DC	34.78
1636011 59	31493 5	8HERITAG E	500. 0	DVP	31494 0	8ROGERS RD	500. 0	DVP	1	DVP_P 1-2: LN 511-A	operatio n	3256.159912 11	106.27	108.19	DC	66.28
1636010 67	31493 6	8RAWLING S	500. 0	DVP	94293 0	AE2-313 TAP	500. 0	DVP	1	DVP_P 1-2: LN 585-A	operatio n	4070.199951 17	131.27	133.03	DC	71.75
1636011 35	31494 0	8ROGERS RD	500. 0	DVP	93849 0	AE1-068_POI	500. 0	DVP	1	DVP_P 1-2: LN 511-A	operatio n	4070.199951 17	118.33	119.99	DC	68.85
1636010 99	93849 0	AE1-068_POI	500. 0	DVP	94103 0	AE2-094 TAP	500. 0	DVP	1	DVP_P 1-2: LN 511-A	operatio n	4070.199951 17	128.46	129.98	DC	68.85

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC DC	MW IMPACT
163601006	940470	AE2-031 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P 1-2: LN 585-A	operation	4070.19995117	138.49	140.25	DC	71.75
163601059	941030	AE2-094 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P 1-2: LN 511-A	operation	4070.19995117	134.87	136.39	DC	68.85
163601040	942930	AE2-313 TAP	500.0	DVP	940470	AE2-031 TAP	500.0	DVP	1	DVP_P 1-2: LN 585-A	operation	4070.19995117	135.56	137.33	DC	71.75
163601075	962840	AG1-133 TAP	500.0	DVP	314911	8LADYSMITH	500.0	DVP	1	DVP_P 1-2: LN 573	operation	3218.56005859	140.81	141.07	DC	33.37

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
163600951,163600960,163600952,163600757,163600756	21	8CHCKAHM 500.0 kV - 8ELMONT 500.0 kV Ckt 1	dom-183 (1521) : Build new 500 kV Line from Rawlings to Morrisville Substation 110 miles Project Type : CON Cost : \$400,000,000 Time Estimate : 60-72 Months	\$703,910,000
163601020,163600762,163601027,163601019,163600761	18	8CARSON 500.0 kV - 8MDLTHAN 500.0 kV Ckt 1	n6207 (1579) : 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 n6172 (1569) : 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	
163601033,163601032	31	8SPOTSYL 500.0 kV - 8MORRSVL 500.0 kV Ckt 1	n6160 (1563) : Rebuild 18.75 miles of 500 kV Line 594 from Spotsylvania to Morrisville with 3-1351.5 113C ACSR. Project Type : FAC Cost : \$58,125,000 Time Estimate : 48-60 Months	
163601000,163600997	24	8LADYSMITH 500.0 kV - 8POSSUM 500.0 kV Ckt 1	n6063 (1541) : Replace Wave traps at Ladysmith and Possum Pt 500 kV substations. Project Type : FAC Cost : \$300,000 Time Estimate : 16-18 Months	
163601091,163601090	28	8NO ANNA 500.0 kV - 8SPOTSYL 500.0 kV Ckt 1	n6157 (1560) : Relay Change Outs (CT) at Ladysmith and Possum Pt 500 kV substations. Project Type : FAC Cost : \$120,000 Time Estimate : 6-12 Months	
163600918,163600921	23	8ELMONT 500.0 kV - 8LADYSMITH 500.0 kV Ckt 1	n6132 (1550) : Rebuild 14.02 miles of 500 kV Line 573 from North Anna to Spotsylvania with 3-1351.5 113C ACSR. Project Type : FAC Cost : \$43,462,000 Time Estimate : 48-60 Months	
163600801	33	AE2-031 TAP 500.0 kV - 8CARSON 500.0 kV Ckt 1	b3020 (1323) : 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	

ID	Idx	Facility	Upgrade Description	Cost
168692240	10	6CHESTF B 230.0 kV - 6VARINA 230.0 kV Ckt 1	<u>DVP</u> dom-300 (1687) : 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
168692247	5	6VARINA 230.0 kV - 6CHARCTY 230.0 kV Ckt 1	<u>DVP</u> dom-294 (1681) : 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
168692055	6	6CARSON 230.0 kV - 6CHRL249 230.0 kV Ckt 1	<u>DVP</u> n6112 (1542) : Rebuild 7.47 miles of 230 kV Line 249 from Carson to Chaparral with 2-636 ACSR. Project Type : FAC Cost : \$18,675,000 Time Estimate : 30-36 Months	\$18,675,000
163600986,163 600771,163600 983,163600993	25	8MDLTHAN 500.0 kV - 8NO ANNA 500.0 kV Ckt 1	<u>DVP</u> n5609 (1535) : 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 (1540) : Replace Wave traps at Midlothian and North Anna 500kV substations Project Type : FAC Cost : \$300,000 Time Estimate : 16-18 Months	\$127,803,000
168692065	8	6CHRL249 230.0 kV - 6LOCKS 230.0 kV Ckt 1	<u>DVP</u> n6116 (1545) : Rebuild 2.86 miles of 230 kV Line 249 from Chaparral to Locks with 2-636 ACSR. Project Type : FAC Cost : \$7,150,000 Time Estimate : 30-36 Months	\$7,150,000
168692259	4	6CHARCTY 230.0 kV - 6LAKESIDE 230.0 kV Ckt 1	<u>DVP</u> dom-150 (1489) : 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
168691944,168691943	1	6SKIFF CREEK 230.0 kV - 6KINGS M 230.0 kV Ckt 1	<u>DVP</u> n6443 (1410) : 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
168691947,168691948	16	6KINGS M 230.0 kV - 6PENNIMAN 230.0 kV Ckt 1	<u>DVP</u> b3057 (1328) : 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	\$0
168691951,168691952	11	6PENNIMAN 230.0 kV - 6WALR209 230.0 kV Ckt 1		
168692047,168692045	20	8CARSON 500.0 kV - 6CARSON 230.0 kV Ckt 1	<u>DVP</u> dom-030 (1365) : Add additional 500/230 kV transformer at Carson substation Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
163600838	19	8CARSON 500.0 kV - AE1-173 TAP 500.0 kV Ckt 1	<u>DVP</u> No Violation. Incorrect Ratings in PSSe Case. Actual Ratings are 3464.0/3464.0/4156.0 MVA	\$0
163600786	32	AE1-173 TAP 500.0 kV - 8SUFFOLK 500.0 kV Ckt 1		
168692132	3	6ELMONT 230.0 kV - 8ELMONT 500.0 kV Ckt 1	<u>DVP</u> n6127 (1547) : Add additional 500/230 kV transformer at Elmont Substation Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
168692104	2	6ELMONT 230.0 kV - 8ELMONT 500.0 kV Ckt 2		
163601083	27	8NO ANNA 500.0 kV - AG1-133 TAP 500.0 kV Ckt 1	<u>DVP</u> dom-379 (1766) : Rebuild 5.415 miles of 500 kV Line 575 from North Anna to AG1-133 Tap with 3-1351.5 113C ACSR. Replace Wave trap, Line Lead at North Anna terminal. Project Type : FAC Cost : \$17,086,500 Time Estimate : 48-60 Months	\$17,086,500

ID	Idx	Facility	Upgrade Description	Cost
168692088	12	6HARROWG 230.0 kV - 6TYLER1 230.0 kV Ckt 1	<u>DVP</u> n6178 (1573) : Rebuild 4.5 miles of 230 kV Line 2003 from Harrowgate to Tyler with 2-636 ACSR. Project Type : FAC Cost : \$11,250,000 Time Estimate : 30-36 Months	\$11,250,000
168692084	15	6POE 230.0 kV - 6HARROWG 230.0 kV Ckt 1	<u>DVP</u> n6179 (1574) : Rebuild 12.3 miles of 230 kV Line 2003 from Poe to Harrowgate with 2-636 ACSR. Project Type : FAC Cost : \$30,750,000 Time Estimate : 30-36 Months	\$30,750,000
168691961,168 691962	17	6WALR209 230.0 kV - 6LIGH209 230.0 kV Ckt 1	<u>DVP</u> b3056 (1327) : PJM Baseline Upgrade b3056. Partial Rebuild 230 kV Line #2113 Waller to Lightfoot. The baseline project has a projected in-service date of 12/30/2024. Project Type : FAC Cost : \$0	\$0
168692098	26	8MDLTHAN 500.0 kV - 6MDLTHAN 230.0 kV Ckt 1	<u>DVP</u> dom-378 (1765) : Add additional 500/230 kV transformer at Midlothian Substation Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
168692135	14	6LOCKS 230.0 kV - 6HARR205 230.0 kV Ckt 1	<u>DVP</u> dom-165 (1504) : Uprate 5.4 miles of 230 kV Line 205 from Locks to Harrowgate with 1033.5 ACSR. Upgrade Relays at Locks. Project Type : FAC Cost : \$2,280,000 Time Estimate : 30-36 Months	\$2,280,000
168692312	7	6CARSON 230.0 kV - 6POE 230.0 kV Ckt 1	<u>DVP</u> dom-120 (1473) : Rebuild 12.68 miles of 230 kV Line 2002 from Carson to Poe with 2-636 ACSR. Project Type : FAC Cost : \$31,700,000 Time Estimate : 30-36 Months	\$31,700,000

ID	Idx	Facility	Upgrade Description	Cost
163600766,163600767,163601050,163601054	30	8SURREY 500.0 kV - 8CHCKAHM 500.0 kV Ckt 1	<u>DVP</u> n6324 (1378) : Replace Terminal Equipment at Surry and Chickahominy Substations Project Type : FAC Cost : \$4,000,000 Time Estimate : 16-18 Months dom-258 (1645) : 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
168691976	22	8CHCKAHM 500.0 kV - 6CHCKAHM 230.0 kV Ckt 1	<u>DVP</u> dom-022 (1357) : Add additional 500/230 kV transformer at Chickahominy substation. Project Type : CON Cost : \$22,000,000 Time Estimate : 16-18 Months	\$22,000,000
168692208	13	6HARR205 230.0 kV - 6TYLER 230.0 kV Ckt 1	<u>DVP</u> dom-163 (1501) : Reconnector 0.64 miles of 230 kV Line 205 from Harrowgate to Tyler with 1033.5 ACSR. Uprate 4.09 miles of 230 kV Line 205 from Harrowgate to Tyler. Project Type : FAC Cost : \$2,148,000 Time Estimate : 30-36 Months	\$2,148,000
163601078	34	AG1-133 TAP 500.0 kV - 8LADYSMITH 500.0 kV Ckt 1	<u>DVP</u> dom-413 (1800) : Rebuild 9.1 miles of 500 kV Line 575 from Ladysmith to AG1-133 Tap with 3-1351.5 113C ACSR. Replace wave Trap, Lien lead at Ladysmith terminal. Project Type : FAC Cost : \$28,510,000 Time Estimate : 36-40 Months	\$28,510,000
163600854	29	8SEPTA 500.0 kV - 8SURREY 500.0 kV Ckt 1	<u>DVP</u> dom-380 (1767) : 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

ID	Idx	Facility	Upgrade Description	Cost
168692003	9	6CHESTF B 230.0 kV - 6BASIN 230.0 kV Ckt 1	<u>DVP</u> n6130 (1548) : 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 (1688) : 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	\$1,345,597,500

11.6 Flow Gate Details - Primary POI

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

11.6.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168691943	314209	6SKIIF CREEK	DVP	314386	6KINGS M	DVP	1	DVP_P1-2: LN 567	single	441.8	158.8	159.91	DC	10.8

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
CPL	CPL	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

11.6.2 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
168692104	314218	6ELMONT	DVP	314908	8ELMONT	DVP	2	DVP_P1-2: LN 557	single	879.84	154.2	154.94	DC	16.69

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966731	AG1-544 C	2.3216	Adder	5.15
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
CPLE	CPLE	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
168692132	314218	6ELMONT	DVP	314908	8ELMONT	DVP	1	DVP_P1-2: LN 557	single	920.92	148.01	148.72	DC	16.76

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966731	AG1-544 C	2.3324	Adder	5.18
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
CPLE	CPLE	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
168692259	314225	6CHARCTY	DVP	314227	6LAKESIDE	DVP	1	DVP_P1-2: LN 563	single	984.18	111.33	111.7	DC	10.78

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941101	AE2-104 C O1	1.3219	80/20	1.3219
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.8887	80/20	0.8887
962331	AG1-082 C	0.3512	Adder	0.78
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
168692247	314260	6VARINA	DVP	314225	6CHARCTY	DVP	1	DVP_P1-2: LN 563	single	984.18	114.74	115.1	DC	10.78

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941101	AE2-104 C O1	1.3219	80/20	1.3219
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.8887	80/20	0.8887
962331	AG1-082 C	0.3512	Adder	0.78
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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

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
168692055	314282	6CARSON	DVP	314285	6CHRL249	DVP	1	DVP_P1-2: LN 563	single	559.3	156.96	159.12	DC	12.39

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

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

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

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

11.6.7 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
168692312	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P1-2: LN 563	single	678.68	108.3	109.78	DC	10.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.8521	80/20	3.8521
313527	AB2-043 C	0.1631	80/20	0.1631
313719	3CHESTNUT	0.4332	80/20	0.4332
314435	6SAPONY	0.3957	80/20	0.3957
314572	3EMPORIA	0.2678	80/20	0.2678
314582	3KELFORD	0.1180	80/20	0.1180
314623	3WITAKRS	0.0799	80/20	0.0799
314704	3LAWRENC	0.1650	80/20	0.1650
315102	1BRUNSWICKG1	2.7479	80/20	2.7479
315103	1BRUNSWICKG2	2.7479	80/20	2.7479
315104	1BRUNSWICKG3	2.7479	80/20	2.7479
315105	1BRUNSWICKS1	5.7087	80/20	5.7087
315126	1ROARAP2	0.5899	80/20	0.5899
315128	1ROARAP4	0.5630	80/20	0.5630
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.4609	80/20	3.4609
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.4609	80/20	3.4609
315136	1ROSEMG1	1.0521	80/20	1.0521
315137	1ROSEMS1	0.6524	80/20	0.6524
315138	1ROSEMG2	0.4931	80/20	0.4931
315139	1GASTONA	1.5767	80/20	1.5767
315141	1GASTONB	1.5767	80/20	1.5767
315158	1KERR 1	0.1345	80/20	0.1345
315159	1KERR 2	0.3767	80/20	0.3767
315160	1KERR 3	0.3767	80/20	0.3767
315161	1KERR 4	0.3767	80/20	0.3767
315162	1KERR 5	0.3767	80/20	0.3767
315163	1KERR 6	0.3767	80/20	0.3767
315164	1KERR 7	0.3767	80/20	0.3767
315241	1Z1-086 GT1	3.5348	80/20	3.5348
315242	1Z1-086 GT2	3.5348	80/20	3.5348
315243	1Z1-086 GT3	3.5348	80/20	3.5348
315244	1Z1-086 ST	6.1448	80/20	6.1448
315601	1CONETOE2SOL	0.4581	80/20	0.4581
315606	3AA2-053SOLA	0.6077	80/20	0.6077
315607	3AA1-063SOLA	0.4905	80/20	0.4905
316020	AB2-059 C OP	0.6170	80/20	0.6170
316087	AB2-174 C	0.6604	80/20	0.6604
316096	AB2-100 C1	0.7058	80/20	0.7058
316098	AB2-100 C2	0.7058	80/20	0.7058
316129	AC1-054 C	2.8747	80/20	2.8747

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	0.4641	80/20	0.4641
920591	AA2-165 C	0.0581	80/20	0.0581
922922	AB1-081 C OP	0.5235	80/20	0.5235
923991	AB2-040 C O1	4.1954	80/20	4.1954
924301	AB2-077 C O1 (Suspended)	0.6545	80/20	0.6545
924311	AB2-078 C O1 (Suspended)	0.6545	80/20	0.6545
924321	AB2-079 C O1 (Suspended)	0.6545	80/20	0.6545
925591	AC1-034 C	2.5329	80/20	2.5329
926070	AC1-086 C	11.2381	80/20	11.2381
926201	AC1-098 C	2.2819	80/20	2.2819
926211	AC1-099 C	0.7647	80/20	0.7647
927024	AC1-189 C	2.8393	80/20	2.8393
927145	AC1-208 C	3.5600	80/20	3.5600
932581	AC2-078 C O1	-4.5082	Adder	-5.3
932631	AC2-084 C	3.2530	80/20	3.2530
934331	AD1-057 C O1	4.5019	80/20	4.5019
934615	AD1-087 C	1.9156	Adder	2.25
935171	AD1-152 C O1	2.1041	Adder	2.48
936361	AD2-046 C O1	3.0957	80/20	3.0957
936401	AD2-051 C O1	2.2274	Adder	2.62
936485	AD2-063 C	3.9352	Adder	4.63
936761	AD2-097 C	-0.5388	Adder	-0.63
937481	AD2-202 C O1	0.5611	Adder	0.66
938494	AE1-068_C1	10.5874	80/20	10.5874
938497	AE1-068_C2	10.5874	80/20	10.5874
938504	AE1-069_C1	8.0688	80/20	8.0688
938507	AE1-069_C2	8.7000	80/20	8.7000
939181	AE1-148 C	3.0461	80/20	3.0461
939414	AE1-173_C1	7.3513	Adder	8.65
939415	AE1-173_C2	6.3012	Adder	7.41
939416	AE1-173_C3	7.3513	Adder	8.65
940471	AE2-031 C	11.5205	80/20	11.5205
940481	AE2-033 C	15.6115	80/20	15.6115
940541	AE2-040	2.8532	80/20	2.8532
940571	AE2-044 C	1.6590	80/20	1.6590
940641	AE2-051 C O1	5.5890	80/20	5.5890
940661	AE2-053 O1	1.1282	80/20	1.1282
941031	AE2-094 C	13.8700	80/20	13.8700
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0531	80/20	0.0531
942161	AE2-228 C	-0.8781	Adder	-1.03
942451	AE2-258	0.7711	80/20	0.7711
942471	AE2-260 C O1	11.4862	80/20	11.4862
942931	AE2-313 C	12.4532	80/20	12.4532
943911	AF1-059	7.9618	80/20	7.9618
944011	AF1-069 C	4.5318	80/20	4.5318
944141	AF1-082	1.0665	80/20	1.0665
945811	AF1-246 C O1	2.3470	80/20	2.3470
946011	AF1-266	13.0680	80/20	13.0680
946261	AF1-291 C	-1.4994	Adder	-1.76

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946281	AF1-292 C	0.9954	80/20	0.9954
957481	AF2-042 C	16.7640	80/20	16.7640
957861	AF2-080 C	2.5787	80/20	2.5787
959651	AF2-256 C	-0.2195	Adder	-0.26
959751	AF2-266	2.1938	Adder	2.58
960081	AF2-299 C	1.6776	80/20	1.6776
961671	AG1-007 C	0.4315	80/20	0.4315
962351	AG1-084 C	0.5432	80/20	0.5432
962361	AG1-085 C	0.5432	80/20	0.5432
962561	AG1-105 C O1	1.3666	Adder	3.03
962571	AG1-106 C	3.1252	80/20	3.1252
963041	AG1-153 C	1.9281	80/20	1.9281
963111	AG1-160 C	1.9539	80/20	1.9539
963291	AG1-178 C O1	19.2559	80/20	19.2559
963301	AG1-179 C	3.0368	80/20	3.0368
963311	AG1-180	1.4796	80/20	1.4796
963351	AG1-184 O1	10.3741	80/20	10.3741
964241	AG1-285 C O1	3.9285	80/20	3.9285
964501	AG1-313 C O1	1.8133	80/20	1.8133
964931	AG1-357 C	7.0776	80/20	7.0776
965451	AG1-413 C O1	3.3468	80/20	3.3468
965591	AG1-427 C	3.7128	80/20	3.7128
965601	AG1-428 C O1	2.5352	80/20	2.5352
965711	AG1-439 C O1	8.2170	80/20	8.2170
965721	AG1-440 C	2.6856	80/20	2.6856
965731	AG1-441 C	2.6856	80/20	2.6856
965761	AG1-444 O1	4.3824	80/20	4.3824
965771	AG1-445	1.5517	80/20	1.5517
965781	AG1-446	1.5517	80/20	1.5517
965811	AG1-449	8.0776	80/20	8.0776
966361	AG1-505 C	5.6214	80/20	5.6214
966371	AG1-506 C	5.6214	80/20	5.6214
966621	AG1-532 C	0.9059	80/20	0.9059
966751	AG1-546 C	6.4058	80/20	6.4058
966811	AG1-552 C	0.9367	80/20	0.9367
WEC	WEC	0.2545	Confirmed LTF	0.2545
LGEE	LGEE	0.5234	Confirmed LTF	0.5234
CPL	CPL	2.6774	Confirmed LTF	2.6774
CBM-W2	CBM-W2	11.2000	Confirmed LTF	11.2000
NY	NY	0.3606	Confirmed LTF	0.3606
TVA	TVA	2.1140	Confirmed LTF	2.1140
SIGE	SIGE	0.1728	Confirmed LTF	0.1728
CBM-S2	CBM-S2	31.8002	Confirmed LTF	31.8002
CBM-S1	CBM-S1	0.5271	Confirmed LTF	0.5271
MEC	MEC	1.5270	Confirmed LTF	1.5270
LAGN	LAGN	2.6285	Confirmed LTF	2.6285
AA2-074	AA2-074	1.7685	LTF	1.7685
CBM-W1	CBM-W1	10.6412	Confirmed LTF	10.6412

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
168692065	314285	6CHRL249	DVP	314316	6LOCKS	DVP	1	DVP_P1-2: LN 563	single	559.3	153.15	155.31	DC	12.39

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168692003	314287	6CHESTFB	DVP	314276	6BASIN	DVP	1	DVP_P1-2: LN 563	single	663.64	162.25	162.76	DC	10.93

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965451	AG1-413 C O1	1.1737	Adder	2.61
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
SIG	SIG	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
168692240	314287	6CHESTFB	DVP	314260	6VARINA	DVP	1	DVP_P1-2: LN 563	single	984.18	115.1	115.47	DC	10.78

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941101	AE2-104 C O1	1.3219	80/20	1.3219
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.8887	80/20	0.8887
962331	AG1-082 C	0.3512	Adder	0.78
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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
168691951	314296	6PENNIMAN	DVP	314415	6WALR209	DVP	1	DVP_P1-2: LN 567	single	441.8	146.89	148.0	DC	10.8

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
CPL	CPL	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
168692088	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P1-2: LN 563	single	441.8	134.91	137.01	DC	9.6

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168692208	314301	6HARR205	DVP	314346	6TYLER	DVP	1	DVP_P1-2: LN 563	single	441.8	134.6	136.16	DC	9.92

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168692135	314316	6LOCKS	DVP	314301	6HARR205	DVP	1	DVP_P1-2: LN 563	single	441.8	139.76	141.32	DC	9.92

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168692084	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P1-2: LN 563	single	441.8	134.93	137.03	DC	9.6

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168691947	314386	6KINGS M	DVP	314296	6PENNINGMAN	DVP	1	DVP_P1-2: LN 567	single	441.8	150.85	151.96	DC	10.8

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
CPL	CPL	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
168691961	314415	6WALR209	DVP	314391	6LIGH209	DVP	1	DVP_P1-2: LN 567	single	441.8	130.75	131.86	DC	10.8

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
CPL	CPL	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
163600761	314902	8CARSON	DVP	314914	8MDLTHAN	DVP	1	DVP_P4-2: 557T574	breaker	3938.0	144.25	144.86	DC	65.24

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163600838	314902	8CARSON	DVP	939410	AE1-173_POI	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	103.04	105.09	DC	70.8

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168692045	314902	8CARSON	DVP	314282	6CARSON	DVP	1	DVP_P1-2: LN 563	single	903.9	150.78	153.77	DC	27.3

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163600951	314903	8CHCKAHM	DVP	314908	8ELMONT	DVP	1	DVP_P1-2: LN 563	single	2442.12	182.84	183.31	DC	50.17

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942551	AE2-270	29.8924	Adder	35.17
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963351	AG1-184 O1	50.1669	80/20	50.1669
963821	AG1-235 C O1	41.4126	80/20	41.4126
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
168691976	314903	8CHCKAHM	DVP	314214	6CHCKAHM	DVP	1	DVP_P1-2: LN 557	single	934.92	205.91	207.09	DC	13.72

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	1SURRY 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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957631	AF2-057	1.8202	80/20	1.8202
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
163600918	314908	8ELMONT	DVP	314911	8LADYSMITH	DVP	1	DVP_P1-2: LN 576	single	2442.12	219.06	219.14	DC	52.29

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
CPL	CPL	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
163600997	314911	8LADYSMITH	DVP	314922	8POSSUM	DVP	1	DVP_P1-2: LN 581	single	2442.12	148.92	149.4	DC	28.13

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314229	6MT RD221	0.1163	80/20	0.1163
314236	6NRTHEST	0.1751	80/20	0.1751
314241	6OLDCHRC	0.8018	80/20	0.8018
314250	6ROCKVILLE	0.3084	80/20	0.3084
315037	1LDYSMT1	5.0764	80/20	5.0764
315038	1LDYSMT2	5.0764	80/20	5.0764
315039	1LDYSMT3	4.8867	80/20	4.8867
315040	1LDYSMT4	4.8959	80/20	4.8959
315041	1LDYSMT5	4.9112	80/20	4.9112
315043	1FOUR RIVERA	3.2042	80/20	3.2042
315044	1FOUR RIVERB	3.2042	80/20	3.2042
315045	1FOUR RIVERC	3.9162	80/20	3.9162
315046	1FOUR RIVERD	3.2042	80/20	3.2042
315047	1FOUR RIVERE	3.2042	80/20	3.2042
315048	1FOUR RIVERF	3.9162	80/20	3.9162
315051	1AA1-145 CT1	5.0437	80/20	5.0437
315052	1AA1-145 CT2	5.0437	80/20	5.0437
315058	1CHESTF3 (Deactivation : 13/12/2018)	14.8512	Adder	17.47
315059	1CHESTF4 (Deactivation : 13/12/2018)	24.0738	Adder	28.32
315060	1CHESTF5 (Deactivation : 31/05/2023)	52.1518	Adder	61.36
315065	1CHESTF6 (Deactivation : 31/05/2023)	99.4552	Adder	117.01
315067	1DARBY 1	2.4108	80/20	2.4108
315068	1DARBY 2	2.4136	80/20	2.4136
315069	1DARBY 3	2.4221	80/20	2.4221
315070	1DARBY 4	2.4249	80/20	2.4249
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0147	Adder	0.02
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0147	Adder	0.02
315083	1SPRUNCA (Deactivation : 12/01/2021)	8.5693	Adder	10.08
315084	1SPRUNCB (Deactivation : 12/01/2021)	8.5693	Adder	10.08
315225	1N ANNA1	26.4840	80/20	26.4840
315226	1N ANNA2	26.4952	80/20	26.4952
316075	AC2-137 C	0.3194	80/20	0.3194
316083	AB2-161 C	2.6853	Adder	3.16
316108	AB2-160 C	4.3840	Adder	5.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	53.4374	80/20	53.4374
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	53.4374	80/20	53.4374
316114	AB2-068 ST (Withdrawn : 01/11/2021)	92.5747	80/20	92.5747
316132	AB2-190 C	16.2392	Adder	19.1
316134	AC1-107 G1	100.3457	80/20	100.3457
316135	AC1-107 G2	100.3457	80/20	100.3457
316136	AC1-107 G3	100.3645	80/20	100.3645
925863	AC1-065 C	5.9452	Adder	6.99
926754	AC1-161 C	23.8831	Adder	28.1
926784	AC1-164 C	39.0661	80/20	39.0661
927044	AC1-191 C	7.9455	Adder	9.35
932044	AC2-012 C	8.0093	Adder	9.42
932501	AC2-070 C (Withdrawn : 01/22/2021)	0.2635	80/20	0.2635
932581	AC2-078 C O1	3.2246	Adder	3.79
932591	AC2-079 C O1	4.5169	Adder	5.31
933294	AC2-141 C	23.8831	Adder	28.1
934014	AD1-025 C	13.6207	Adder	16.02
934061	AD1-033 C	5.8780	Adder	6.92
934141	AD1-041 C	4.2424	Adder	4.99
934575	AD1-082 C	6.1196	Adder	7.2
935164	AD1-151 C	13.0494	Adder	15.35
936041	AD2-007 C	0.6507	Adder	0.77
936051	AD2-008 C	2.3713	Adder	2.79
936151	AD2-021	0.0364	80/20	0.0364
936661	AD2-085 C	2.6960	Adder	3.17
936761	AD2-097 C	1.6252	Adder	1.91
937221	AD2-160 C O1	4.5670	Adder	5.37
938535	AE1-072 C	13.7291	Adder	16.15
938634	AE1-085 C	7.0758	Adder	8.32
939195	AE1-149 C	8.5175	Adder	10.02
939261	AE1-157 C O1	14.9493	80/20	14.9493
939271	AE1-158 C O1	15.2567	80/20	15.2567
939414	AE1-173_C1	23.0194	Adder	27.08
939415	AE1-173_C2	19.7309	Adder	23.21
939416	AE1-173_C3	23.0194	Adder	27.08
939431	AE1-175 C	1.9498	Adder	2.29
939611	AE1-191 C	8.4849	Adder	9.98
939755	AE1-206 C	32.0710	80/20	32.0710
940061	AE2-000BC O1	8.4696	Adder	9.96
940231	AE2-005 C	1.0810	Adder	1.27
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	135.9691	Adder	159.96
940431	AE2-027 C O1	10.5044	Adder	12.36
940551	AE2-041	5.7171	Adder	6.73
940651	AE2-052	2.8392	Adder	3.34
940891	AE2-078 C	1.8902	Adder	2.22
940901	AE2-079 C	1.8902	Adder	2.22
941101	AE2-104 C O1	2.6133	Adder	3.07
941281	AE2-122 C O1	22.2695	Adder	26.2

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941291	AE2-123 C O1	22.8862	Adder	26.92
941301	AE2-124 C O1	20.8069	Adder	24.48
941501	AE2-147 C	12.2553	Adder	14.42
941581	AE2-155 C	0.1002	80/20	0.1002
941591	AE2-156 O1	14.0539	Adder	16.53
942001	AE2-212 C	1.7330	Adder	2.04
942131	AE2-225 C	1.6640	Adder	1.96
942151	AE2-227 C	1.7980	Adder	2.12
942161	AE2-228 C	1.7531	Adder	2.06
942171	AE2-229 C	1.2480	Adder	1.47
942191	AE2-231 C O1	5.0472	80/20	5.0472
942341	AE2-247 C	1.1687	Adder	1.37
942371	AE2-250 C O1	7.7874	Adder	9.16
942401	AE2-253 C	4.8037	Adder	5.65
942551	AE2-270	21.7158	Adder	25.55
943431	AF1-014 C	1.0241	Adder	1.2
943461	AF1-017 C	1.0574	Adder	1.24
943471	AF1-018	5.7171	Adder	6.73
943611	AF1-032 C	1.3590	Adder	1.6
943621	AF1-033 C	1.8902	Adder	2.22
944581	AF1-123 C O1	37.5578	Adder	44.19
944591	AF1-124 C O1	37.5578	Adder	44.19
944601	AF1-125 C O1	37.5578	Adder	44.19
944631	AF1-128 O1	45.7296	Adder	53.8
944641	AF1-129	83.4538	Adder	98.18
944871	AF1-152 C	4.0851	Adder	4.81
945361	AF1-201 C O1	12.8742	Adder	15.15
946001	AF1-265	28.1325	80/20	28.1325
946261	AF1-291 C	1.7533	Adder	2.06
957411	AF2-035 C	9.1766	80/20	9.1766
957491	AF2-043 C	1.6640	Adder	1.96
957551	AF2-049 C	6.6292	80/20	6.6292
957601	AF2-054 C	1.6759	Adder	1.97
957631	AF2-057	2.8103	Adder	3.31
957711	AF2-065 C	11.0751	Adder	13.03
957821	AF2-076 C	4.1205	Adder	4.85
957831	AF2-077 C	1.7089	Adder	2.01
957871	AF2-081 C	7.7821	Adder	9.16
957911	AF2-085	2.8472	Adder	3.35
958141	AF2-108	1.4252	Adder	1.68
958161	AF2-110 C	1.0774	Adder	1.27
959641	AF2-255 C	0.4495	Adder	0.53
959651	AF2-256 C	0.4383	Adder	0.52
959661	AF2-257 C	0.4383	Adder	0.52
959671	AF2-258 C	0.4332	Adder	0.51
959681	AF2-259 C	2.1378	Adder	2.52
960091	AF2-300 C	2.2942	80/20	2.2942
961611	AG1-000B C	6.7627	Adder	15.01
961711	AG1-011	12.2615	Adder	27.22
962131	AG1-057	1.5150	Adder	3.36
962191	AG1-064 C	1.4166	80/20	1.4166
962201	AG1-065 C	1.4166	80/20	1.4166

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962271	AG1-075 C O1	7.1234	Adder	15.81
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.9107	Adder	2.02
962531	AG1-102 C	0.4649	Adder	1.03
962841	AG1-133 C O1	19.1826	80/20	19.1826
962961	AG1-145 C	0.9324	Adder	2.07
963051	AG1-154 C	3.8766	80/20	3.8766
963221	AG1-171 C	0.9222	Adder	2.05
963231	AG1-172 C	0.9222	Adder	2.05
963241	AG1-173 C	0.9222	Adder	2.05
963251	AG1-174 C	0.9222	Adder	2.05
963261	AG1-175 C	0.9222	Adder	2.05
963291	AG1-178 C O1	23.5212	Adder	52.21
963341	AG1-183 C	6.7907	80/20	6.7907
963351	AG1-184 O1	12.6720	Adder	28.13
963381	AG1-187	2.7683	80/20	2.7683
963621	AG1-213 C	0.7647	80/20	0.7647
963821	AG1-235 C O1	9.9887	Adder	22.17
964951	AG1-359 O1	11.1242	Adder	24.69
965001	AG1-364 C O1	2.9792	Adder	6.61
965181	AG1-383 C	1.1423	Adder	2.54
965441	AG1-412 C	6.0111	Adder	13.34
966491	AG1-518 O1	3.6747	Adder	8.16
966611	AG1-531 C	2.7405	Adder	6.08
966711	AG1-541 C	6.1178	80/20	6.1178
966731	AG1-544 C	2.9289	Adder	6.5
966741	AG1-545 C	0.9763	Adder	2.17
966871	AG1-558 C	0.9463	Adder	2.1
966881	AG1-559 C	2.2942	80/20	2.2942
WEC	WEC	1.0282	Confirmed LTF	1.0282
LGEE	LGEE	2.1683	Confirmed LTF	2.1683
CPL	CPL	7.0113	Confirmed LTF	7.0113
CBM-W2	CBM-W2	39.9258	Confirmed LTF	39.9258
NY	NY	2.8833	Confirmed LTF	2.8833
TVA	TVA	7.2618	Confirmed LTF	7.2618
SIGE	SIGE	1.0189	Confirmed LTF	1.0189
CBM-S2	CBM-S2	89.5543	Confirmed LTF	89.5543
CBM-S1	CBM-S1	1.8514	Confirmed LTF	1.8514
MEC	MEC	5.8491	Confirmed LTF	5.8491
LAGN	LAGN	8.9233	Confirmed LTF	8.9233
AA2-074	AA2-074	4.6354	LTF	4.6354
CBM-W1	CBM-W1	43.0134	Confirmed LTF	43.0134

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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
163600983	314914	8MDLTHAN	DVP	314918	8NO ANNA	DVP	1	DVP_P1-2: LN 574	single	2442.12	175.31	175.84	DC	55.32

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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316083	AB2-161 C	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	Gendoliv MW Impact	Type	Full MW Impact
940651	AE2-052	5.3424	80/20	5.3424
940891	AE2-078 C	2.9568	Adder	3.48
940901	AE2-079 C	2.9568	Adder	3.48
941031	AE2-094 C	65.4234	80/20	65.4234
941101	AE2-104 C O1	5.1652	80/20	5.1652
941281	AE2-122 C O1	44.2187	80/20	44.2187
941291	AE2-123 C O1	45.4431	80/20	45.4431
941301	AE2-124 C O1	41.3261	80/20	41.3261
941501	AE2-147 C	24.4512	80/20	24.4512
941591	AE2-156 O1	27.8230	80/20	27.8230
942001	AE2-212 C	2.6624	Adder	3.13
942131	AE2-225 C	3.3056	80/20	3.3056
942161	AE2-228 C	2.6023	Adder	3.06
942171	AE2-229 C	2.4792	80/20	2.4792
942341	AE2-247 C	2.2803	80/20	2.2803
942371	AE2-250 C O1	11.9267	Adder	14.03
942401	AE2-253 C	9.5665	80/20	9.5665
942471	AE2-260 C O1	18.4328	Adder	21.69
942551	AE2-270	32.8963	Adder	38.7
942931	AE2-313 C	58.9598	80/20	58.9598
943171	AE2-346 C	1.7909	Adder	2.11
943461	AF1-017 C	2.0631	80/20	2.0631
943611	AF1-032 C	2.6996	80/20	2.6996
943621	AF1-033 C	2.9568	Adder	3.48
944011	AF1-069 C	21.3763	80/20	21.3763
944581	AF1-123 C O1	75.0792	80/20	75.0792
944591	AF1-124 C O1	75.0792	80/20	75.0792
944601	AF1-125 C O1	75.0792	80/20	75.0792
944641	AF1-129	122.4021	Adder	144.0
944871	AF1-152 C	8.1504	80/20	8.1504
945711	AF1-236 C O1	101.9285	Adder	119.92
945811	AF1-246 C O1	11.5823	80/20	11.5823
946011	AF1-266	20.3661	80/20	20.3661
946261	AF1-291 C	2.6015	Adder	3.06
946281	AF1-292 C	1.9090	Adder	2.25
957481	AF2-042 C	82.7310	80/20	82.7310
957491	AF2-043 C	3.3056	80/20	3.3056
957521	AF2-046 C	21.4450	Adder	25.23
957531	AF2-047 C	22.1237	Adder	26.03
957631	AF2-057	5.5612	80/20	5.5612
957711	AF2-065 C	16.7771	Adder	19.74
957821	AF2-076 C	8.1999	80/20	8.1999
957871	AF2-081 C	15.5008	80/20	15.5008
957911	AF2-085	6.6022	80/20	6.6022
958141	AF2-108	2.6769	80/20	2.6769
958161	AF2-110 C	2.1294	80/20	2.1294
958501	AF2-144 C	2.2982	Adder	2.7
959531	AF2-244 C (Withdrawn : 01/06/2021)	2.1180	Adder	2.49
959651	AF2-256 C	0.6506	Adder	0.77
959661	AF2-257 C	0.6504	Adder	0.77
959671	AF2-258 C	0.6656	Adder	0.78

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168692098	314914	8MDLTHAN	DVP	314322	6MDLTHAN	DVP	1	DVP_P1-2: LN 576	single	1058.16	137.55	139.64	DC	23.21

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163601083	314918	8NO ANNA	DVP	962840	AG1-133 TAP	DVP	1	DVP_P1-2: LN 573	single	3218.56	115.35	116.36	DC	33.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.7671	Adder	5.61
314295	6BIRDNECK	0.0335	80/20	0.0335
314333	6POWHATN	0.3910	80/20	0.3910
314435	6SAPONY	0.3284	80/20	0.3284
314491	3PENDLTN	0.2502	80/20	0.2502
314572	3EMPORIA	0.2985	Adder	0.35
314643	3O INLET	0.3349	80/20	0.3349
315102	1BRUNSWICKG1	8.1676	80/20	8.1676
315103	1BRUNSWICKG2	8.1676	80/20	8.1676
315104	1BRUNSWICKG3	8.1676	80/20	8.1676
315105	1BRUNSWICKS1	16.9681	80/20	16.9681
315108	1ELIZAR1	2.4400	80/20	2.4400
315110	1ELIZAR3	2.4713	80/20	2.4713
315153	1CLOVER1	11.5147	80/20	11.5147
315154	1CLOVER2	11.3999	80/20	11.3999
315172	1LOISA A	2.7298	80/20	2.7298
315173	1LOISA B	2.7440	80/20	2.7440
315174	1LOISA C	2.7440	80/20	2.7440
315175	1LOISA D	2.7440	80/20	2.7440
315176	1LOISA E	5.5942	80/20	5.5942
315177	1S ANNAG1	2.1872	80/20	2.1872
315178	1S ANNAS1	1.1240	80/20	1.1240
315179	1S ANNAG2	2.1872	80/20	2.1872
315180	1S ANNAS2	1.1240	80/20	1.1240
315225	1N ANNA1	103.1977	80/20	103.1977
315226	1N ANNA2	103.2412	80/20	103.2412
315241	1Z1-086 GT1	10.5072	80/20	10.5072
315242	1Z1-086 GT2	10.5072	80/20	10.5072
315243	1Z1-086 GT3	10.5072	80/20	10.5072
315244	1Z1-086 ST	18.2654	80/20	18.2654
315603	6AA1-139SOLA	1.7598	80/20	1.7598
316096	AB2-100 C1	0.7597	80/20	0.7597
316098	AB2-100 C2	0.7597	80/20	0.7597
923991	AB2-040 C O1	5.1919	Adder	6.11
925021	AB2-158 C	3.8849	80/20	3.8849
926754	AC1-161 C	24.1064	80/20	24.1064
932044	AC2-012 C	6.8310	Adder	8.04
933294	AC2-141 C	24.1064	80/20	24.1064
933501	AC2-165 C	9.7869	80/20	9.7869
933731	AC2-196 C	0.2244	80/20	0.2244
934061	AD1-033 C	5.9707	80/20	5.9707

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934615	AD1-087 C	7.2140	80/20	7.2140
934625	AD1-088 C	11.2476	80/20	11.2476
935171	AD1-152 C O1	7.9238	80/20	7.9238
937221	AD2-160 C O1	4.6537	80/20	4.6537
937481	AD2-202 C O1	2.1130	80/20	2.1130
938371	AE1-056 C	4.6179	Adder	5.43
938494	AE1-068_C1	31.4739	80/20	31.4739
938497	AE1-068_C2	31.4739	80/20	31.4739
938504	AE1-069_C1	23.9866	80/20	23.9866
938507	AE1-069_C2	25.8633	80/20	25.8633
938535	AE1-072 C	14.0154	80/20	14.0154
938551	AE1-074 C	0.3313	80/20	0.3313
938561	AE1-075 C	0.3400	80/20	0.3400
939231	AE1-154 C	4.0367	80/20	4.0367
939414	AE1-173_C1	30.5693	80/20	30.5693
939415	AE1-173_C2	26.2022	80/20	26.2022
939416	AE1-173_C3	30.5693	80/20	30.5693
940251	AE2-007_O1 (Withdrawn : 12/11/2020)	116.2300	Adder	136.74
940471	AE2-031 C	34.3946	80/20	34.3946
940481	AE2-033 C	13.3429	80/20	13.3429
940541	AE2-040	2.3683	80/20	2.3683
940641	AE2-051 C O1	17.5599	80/20	17.5599
941031	AE2-094 C	41.2390	80/20	41.2390
941101	AE2-104 C O1	2.2410	Adder	2.64
941281	AE2-122 C O1	22.5161	80/20	22.5161
941291	AE2-123 C O1	23.1396	80/20	23.1396
941301	AE2-124 C O1	21.0528	80/20	21.0528
941501	AE2-147 C	10.7199	Adder	12.61
941591	AE2-156_O1	11.9952	Adder	14.11
941791	AE2-182 C	1.8273	80/20	1.8273
942131	AE2-225 C	1.4369	Adder	1.69
942171	AE2-229 C	1.0777	Adder	1.27
942401	AE2-253 C	4.8949	80/20	4.8949
942461	AE2-259 C O1	8.5200	80/20	8.5200
942471	AE2-260 C O1	11.9543	80/20	11.9543
942931	AE2-313 C	37.1883	80/20	37.1883
943611	AF1-032 C	1.1734	Adder	1.38
944011	AF1-069 C	13.4743	80/20	13.4743
944111	AF1-079 C	7.6697	80/20	7.6697
944581	AF1-123 C O1	38.4772	80/20	38.4772
944591	AF1-124 C O1	38.4772	80/20	38.4772
944601	AF1-125 C O1	38.4772	80/20	38.4772
944871	AF1-152 C	3.5733	Adder	4.2
945811	AF1-246 C O1	7.3303	80/20	7.3303
946011	AF1-266	11.1690	80/20	11.1690
946281	AF1-292 C	1.0676	Adder	1.26
946301	AF1-294 C	3.0191	Adder	3.55
946371	AF1-301 C	31.3135	80/20	31.3135
957431	AF2-037 C	27.6907	80/20	27.6907
957481	AF2-042 C	52.3590	80/20	52.3590
957491	AF2-043 C	1.4369	Adder	1.69

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957631	AF2-057	2.3968	Adder	2.82
957691	AF2-063 C	44.1873	80/20	44.1873
957821	AF2-076 C	3.5794	Adder	4.21
957871	AF2-081 C	7.9369	80/20	7.9369
957911	AF2-085	4.1918	80/20	4.1918
958161	AF2-110 C	0.9239	Adder	1.09
958211	AF2-115 C	1.7759	Adder	2.09
958501	AF2-144 C	1.8316	80/20	1.8316
958801	AF2-171 C	10.6526	Adder	12.53
959531	AF2-244 C (Withdrawn : 01/06/2021)	1.6880	80/20	1.6880
959751	AF2-266	8.2655	80/20	8.2655
960081	AF2-299 C	1.7994	Adder	2.12
961791	AG1-021 C	0.7530	Adder	1.67
961811	AG1-023 C	7.7777	80/20	7.7777
961851	AG1-027 C	6.0456	Adder	13.42
961891	AG1-030 C	5.6183	Adder	12.47
962041	AG1-048 C	4.7063	Adder	10.45
962491	AG1-098 C O1	12.0878	80/20	12.0878
962561	AG1-105 C O1	9.5976	80/20	9.5976
963041	AG1-153 C	5.7309	80/20	5.7309
963111	AG1-160 C	5.8080	80/20	5.8080
963171	AG1-166 C	0.7530	Adder	1.67
963181	AG1-167 C	0.7530	Adder	1.67
963191	AG1-168 C	0.7530	Adder	1.67
963201	AG1-169 C	0.7530	Adder	1.67
963211	AG1-170 C	0.7530	Adder	1.67
963271	AG1-176 C O1	14.0309	80/20	14.0309
963291	AG1-178 C O1	61.9466	80/20	61.9466
963301	AG1-179 C	2.1040	Adder	4.67
963311	AG1-180	1.0251	Adder	2.28
963351	AG1-184 O1	33.3734	80/20	33.3734
963641	AG1-215 C	0.3514	Adder	0.78
963821	AG1-235 C O1	19.1794	80/20	19.1794
964421	AG1-305 C O1	34.7607	80/20	34.7607
964821	AG1-345 C	0.3011	Adder	0.67
964841	AG1-347 C	8.7556	80/20	8.7556
964931	AG1-357 C	21.7500	80/20	21.7500
964951	AG1-359 O1	21.3360	80/20	21.3360
965001	AG1-364 C O1	2.5426	Adder	5.64
965181	AG1-383 C	2.1928	80/20	2.1928
965281	AG1-393 C	0.7530	Adder	1.67
965601	AG1-428 C O1	1.7564	Adder	3.9
965641	AG1-432 C O1	17.0400	80/20	17.0400
965811	AG1-449	24.1157	80/20	24.1157
965831	AG1-451	2.8400	80/20	2.8400
965971	AG1-466 C	1.3408	80/20	1.3408
965981	AG1-467 C	1.4940	80/20	1.4940
966001	AG1-469 C	1.6841	80/20	1.6841
966361	AG1-505 C	16.9893	80/20	16.9893
966371	AG1-506 C	16.9893	80/20	16.9893
966491	AG1-518 O1	3.1731	Adder	7.04

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966501	AG1-519 C	2.4542	80/20	2.4542
966621	AG1-532 C	0.5150	Adder	1.14
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	1.7040	80/20	1.7040
WEC	WEC	0.6001	Confirmed LTF	0.6001
LGEE	LGEE	1.2836	Confirmed LTF	1.2836
CPL	CPL	7.2775	Confirmed LTF	7.2775
CBM-W2	CBM-W2	29.2544	Confirmed LTF	29.2544
NY	NY	2.3751	Confirmed LTF	2.3751
TVA	TVA	5.7148	Confirmed LTF	5.7148
SIGE	SIGE	0.7376	Confirmed LTF	0.7376
CBM-S2	CBM-S2	87.6334	Confirmed LTF	87.6334
CBM-S1	CBM-S1	1.4106	Confirmed LTF	1.4106
MEC	MEC	3.7786	Confirmed LTF	3.7786
LAGN	LAGN	7.0402	Confirmed LTF	7.0402
AA2-074	AA2-074	4.8042	LTF	4.8042
CBM-W1	CBM-W1	24.1845	Confirmed LTF	24.1845

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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
163601090	314918	8NO ANNA	DVP	314934	8SPOTSYL	DVP	1	DVP_P1-2: LN 581	single	3218.56	130.95	131.04	DC	38.08

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314236	6NRTHEST	0.2056	80/20	0.2056
314250	6ROCKVILLE	0.3782	80/20	0.3782
314309	6IRON208	0.4958	80/20	0.4958
314314	3LOCKS	0.3313	80/20	0.3313
315058	1CHESTF3 (Deactivation : 13/12/2018)	17.8083	Adder	20.95
315059	1CHESTF4 (Deactivation : 13/12/2018)	28.8673	Adder	33.96
315060	1CHESTF5 (Deactivation : 31/05/2023)	62.2251	Adder	73.21
315065	1CHESTF6 (Deactivation : 31/05/2023)	142.7943	80/20	142.7943
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0178	Adder	0.02
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0178	Adder	0.02
315083	1SPRUNCA (Deactivation : 12/01/2021)	12.5326	80/20	12.5326
315084	1SPRUNCB (Deactivation : 12/01/2021)	12.5326	80/20	12.5326
315098	1CHESPKA	0.4933	80/20	0.4933
315099	1CHESPKB (Deactivation : 31/05/2019)	3.4201	80/20	3.4201
315108	1ELIZAR1	3.6241	80/20	3.6241
315109	1ELIZAR2	3.5611	80/20	3.5611
315110	1ELIZAR3	3.6705	80/20	3.6705
315225	1N ANNA1	55.8442	80/20	55.8442
315226	1N ANNA2	55.8678	80/20	55.8678
315233	1SURREY 2	28.0583	80/20	28.0583
316083	AB2-161 C	3.3720	Adder	3.97
316108	AB2-160 C	6.3840	80/20	6.3840
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	50.0808	Adder	58.92
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	50.0808	Adder	58.92
316114	AB2-068 ST (Withdrawn : 01/11/2021)	86.7598	Adder	102.07
316132	AB2-190 C	19.9396	Adder	23.46
316134	AC1-107 G1	94.0427	Adder	110.64
316135	AC1-107 G2	94.0427	Adder	110.64
316136	AC1-107 G3	94.0603	Adder	110.66
926001	AC1-076 C	-4.5621	Adder	-5.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926661	AC1-147 C	0.4172	80/20	0.4172
926754	AC1-161 C	35.7190	80/20	35.7190
926784	AC1-164 C	21.7875	Adder	25.63
932044	AC2-012 C	11.9620	80/20	11.9620
932581	AC2-078 C O1	4.0481	Adder	4.76
932591	AC2-079 C O1	5.6980	Adder	6.7
933294	AC2-141 C	35.7190	80/20	35.7190
934014	AD1-025 C	16.7659	Adder	19.72
934061	AD1-033 C	7.4742	Adder	8.79
934575	AD1-082 C	7.6845	Adder	9.04
935164	AD1-151 C	16.0229	Adder	18.85
936041	AD2-007 C	0.8009	Adder	0.94
936051	AD2-008 C	2.9189	Adder	3.43
936661	AD2-085 C	3.4088	Adder	4.01
936761	AD2-097 C	2.3769	80/20	2.3769
937221	AD2-160 C O1	5.8068	Adder	6.83
938494	AE1-068_C1	28.5661	Adder	33.61
938497	AE1-068_C2	28.5661	Adder	33.61
938504	AE1-069_C1	21.7705	Adder	25.61
938507	AE1-069_C2	23.4739	Adder	27.62
938535	AE1-072 C	17.4536	Adder	20.53
938551	AE1-074 C	0.4659	80/20	0.4659
938634	AE1-085 C	8.8804	Adder	10.45
939195	AE1-149 C	10.6753	Adder	12.56
939414	AE1-173_C1	36.2645	80/20	36.2645
939415	AE1-173_C2	31.0838	80/20	31.0838
939416	AE1-173_C3	36.2645	80/20	36.2645
939431	AE1-175 C	2.3499	Adder	2.76
940061	AE2-000BC O1	10.6412	Adder	12.52
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	203.1476	80/20	203.1476
940431	AE2-027 C O1	12.8404	Adder	15.11
940471	AE2-031 C	36.6653	80/20	36.6653
940641	AE2-051 C O1	19.6218	80/20	19.6218
940651	AE2-052	3.5584	Adder	4.19
940891	AE2-078 C	2.3452	Adder	2.76
940901	AE2-079 C	2.3452	Adder	2.76
941031	AE2-094 C	43.9347	80/20	43.9347
941281	AE2-122 C O1	28.2988	Adder	33.29
941291	AE2-123 C O1	29.0824	Adder	34.21
941301	AE2-124 C O1	26.4416	Adder	31.11
941591	AE2-156 O1	20.9920	80/20	20.9920
942001	AE2-212 C	2.5255	80/20	2.5255
942131	AE2-225 C	2.1139	Adder	2.49
942151	AE2-227 C	2.5310	80/20	2.5310
942161	AE2-228 C	2.5266	80/20	2.5266
942171	AE2-229 C	1.5855	Adder	1.87
942341	AE2-247 C	1.4776	Adder	1.74
942371	AE2-250 C O1	11.3400	80/20	11.3400
942401	AE2-253 C	6.1078	Adder	7.19
942551	AE2-270	26.7010	Adder	31.41
942931	AE2-313 C	39.6507	80/20	39.6507

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943461	AF1-017 C	1.3368	Adder	1.57
943611	AF1-032 C	1.7264	Adder	2.03
943621	AF1-033 C	2.3452	Adder	2.76
944011	AF1-069 C	14.3551	80/20	14.3551
944581	AF1-123 C O1	56.2820	80/20	56.2820
944591	AF1-124 C O1	56.2820	80/20	56.2820
944601	AF1-125 C O1	56.2820	80/20	56.2820
944631	AF1-128 O1	54.5625	Adder	64.19
944641	AF1-129	119.8200	80/20	119.8200
946261	AF1-291 C	2.5265	80/20	2.5265
957431	AF2-037 C	13.8541	80/20	13.8541
957491	AF2-043 C	2.1139	Adder	2.49
957631	AF2-057	4.1972	80/20	4.1972
957691	AF2-063 C	22.1076	80/20	22.1076
957711	AF2-065 C	13.6175	Adder	16.02
957871	AF2-081 C	9.8937	Adder	11.64
957911	AF2-085	4.5978	80/20	4.5978
958141	AF2-108	2.1036	80/20	2.1036
959641	AF2-255 C	0.6328	80/20	0.6328
959651	AF2-256 C	0.6316	80/20	0.6316
959661	AF2-257 C	0.6316	80/20	0.6316
959671	AF2-258 C	0.6314	80/20	0.6314
959681	AF2-259 C	3.1554	80/20	3.1554
961611	AG1-000B C	8.3874	Adder	18.62
961711	AG1-011	15.0928	Adder	33.5
961811	AG1-023 C	3.9498	80/20	3.9498
962191	AG1-064 C	1.7003	80/20	1.7003
962201	AG1-065 C	1.7003	80/20	1.7003
962271	AG1-075 C O1	19.5720	80/20	19.5720
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.1300	Adder	2.51
962841	AG1-133 C O1	29.3949	80/20	29.3949
962961	AG1-145 C	1.1237	Adder	2.49
963111	AG1-160 C	2.7973	Adder	6.21
963221	AG1-171 C	1.1323	Adder	2.51
963231	AG1-172 C	1.1323	Adder	2.51
963241	AG1-173 C	1.1323	Adder	2.51
963251	AG1-174 C	1.1323	Adder	2.51
963261	AG1-175 C	1.1323	Adder	2.51
963291	AG1-178 C O1	70.6842	80/20	70.6842
963351	AG1-184 O1	38.0808	80/20	38.0808
963821	AG1-235 C O1	12.7011	Adder	28.19
964421	AG1-305 C O1	17.3913	80/20	17.3913
964951	AG1-359 O1	14.1462	Adder	31.4
965001	AG1-364 C O1	8.3964	80/20	8.3964
965181	AG1-383 C	1.4525	Adder	3.22
965811	AG1-449	25.7078	80/20	25.7078
966491	AG1-518 O1	4.6683	Adder	10.36
966611	AG1-531 C	3.3855	Adder	7.51
966731	AG1-544 C	3.6759	Adder	8.16
966741	AG1-545 C	1.2254	Adder	2.72
WEC	WEC	0.7314	Confirmed LTF	0.7314

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LGEE	LGEE	1.5946	Confirmed LTF	1.5946
CPL	CPL	8.6009	Confirmed LTF	8.6009
CBM-W2	CBM-W2	35.7952	Confirmed LTF	35.7952
NY	NY	2.7628	Confirmed LTF	2.7628
TVA	TVA	7.0210	Confirmed LTF	7.0210
SIG	SIG	0.8629	Confirmed LTF	0.8629
CBM-S2	CBM-S2	104.6401	Confirmed LTF	104.6401
CBM-S1	CBM-S1	1.7347	Confirmed LTF	1.7347
MEC	MEC	4.6176	Confirmed LTF	4.6176
LAGN	LAGN	8.5978	Confirmed LTF	8.5978
AA2-074	AA2-074	5.6795	LTF	5.6795
CBM-W1	CBM-W1	29.2317	Confirmed LTF	29.2317

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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
163600854	314923	8SEPTA	DVP	314924	8SURREY	DVP	1	DVP_P4-2: 56372	breaker	3637.0	101.34	102.92	DC	66.51

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163600766	314924	8SURRY	DVP	314903	8CHCKAHM	DVP	1	DVP_P4-2: 56372	breaker	3144.0	129.83	131.67	DC	54.78

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163601032	314934	8SPOTSYL	DVP	314916	8MORRSVL	DVP	1	DVP_P1-2: LN 552	single	3218.56	134.94	135.07	DC	37.28

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314236	6NRTHEST	0.2014	80/20	0.2014
314250	6ROCKVILLE	0.3709	80/20	0.3709
314309	6IRON208	0.4858	80/20	0.4858
314314	3LOCKS	0.3245	80/20	0.3245
315058	1CHESTF3 (Deactivation : 13/12/2018)	17.4462	Adder	20.52
315059	1CHESTF4 (Deactivation : 13/12/2018)	28.2804	Adder	33.27
315060	1CHESTF5 (Deactivation : 31/05/2023)	60.9577	Adder	71.71
315065	1CHESTF6 (Deactivation : 31/05/2023)	139.8920	80/20	139.8920
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0175	Adder	0.02
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0175	Adder	0.02
315083	1SPRUNCA (Deactivation : 12/01/2021)	12.2861	80/20	12.2861
315084	1SPRUNCB (Deactivation : 12/01/2021)	12.2861	80/20	12.2861
315098	1CHESPKA	0.4831	80/20	0.4831
315099	1CHESPKB (Deactivation : 31/05/2019)	3.3492	80/20	3.3492
315108	1ELIZAR1	3.5490	80/20	3.5490
315109	1ELIZAR2	3.4874	80/20	3.4874
315110	1ELIZAR3	3.5944	80/20	3.5944
315225	1N ANNA1	54.3957	80/20	54.3957
315226	1N ANNA2	54.4186	80/20	54.4186
315233	1SURREY 2	27.4780	80/20	27.4780
316083	AB2-161 C	3.3028	Adder	3.89
316108	AB2-160 C	6.2536	80/20	6.2536
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	44.4426	Adder	52.29
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	44.4426	Adder	52.29
316114	AB2-068 ST (Withdrawn : 01/11/2021)	76.9921	Adder	90.58
316132	AB2-190 C	19.5312	Adder	22.98
316134	AC1-107 G1	92.1388	Adder	108.4
316135	AC1-107 G2	92.1388	Adder	108.4
316136	AC1-107 G3	92.1561	Adder	108.42
925021	AB2-158 C	2.0085	80/20	2.0085

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926001	AC1-076 C	6.0766	80/20	6.0766
926661	AC1-147 C	0.4085	80/20	0.4085
926737	AC1-158 C1	14.5872	80/20	14.5872
926738	AC1-158 C2	14.5872	80/20	14.5872
926754	AC1-161 C	34.9772	80/20	34.9772
932044	AC2-012 C	11.7141	80/20	11.7141
932581	AC2-078 C O1	3.9651	Adder	4.66
932591	AC2-079 C O1	5.5811	Adder	6.57
933294	AC2-141 C	34.9772	80/20	34.9772
934014	AD1-025 C	16.4224	Adder	19.32
934061	AD1-033 C	7.3196	Adder	8.61
934575	AD1-082 C	7.5270	Adder	8.86
935164	AD1-151 C	15.6947	Adder	18.46
936041	AD2-007 C	0.7845	Adder	0.92
936051	AD2-008 C	2.8591	Adder	3.36
936761	AD2-097 C	2.3301	80/20	2.3301
937221	AD2-160 C O1	5.6867	Adder	6.69
938494	AE1-068_C1	27.9735	Adder	32.91
938497	AE1-068_C2	27.9735	Adder	32.91
938504	AE1-069_C1	21.3189	Adder	25.08
938507	AE1-069_C2	22.9869	Adder	27.04
938551	AE1-074 C	0.4570	80/20	0.4570
938634	AE1-085 C	8.6985	Adder	10.23
939195	AE1-149 C	10.4565	Adder	12.3
939231	AE1-154 C	2.0870	80/20	2.0870
939414	AE1-173_C1	35.5051	80/20	35.5051
939415	AE1-173_C2	30.4330	80/20	30.4330
939416	AE1-173_C3	35.5051	80/20	35.5051
939431	AE1-175 C	2.3014	Adder	2.71
940061	AE2-000BC O1	10.4229	Adder	12.26
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	198.9482	80/20	198.9482
940431	AE2-027 C O1	14.7982	80/20	14.7982
940471	AE2-031 C	35.9101	80/20	35.9101
940641	AE2-051 C O1	19.2096	80/20	19.2096
940651	AE2-052	3.4855	Adder	4.1
940891	AE2-078 C	2.2968	Adder	2.7
940901	AE2-079 C	2.2968	Adder	2.7
941031	AE2-094 C	43.0189	80/20	43.0189
941281	AE2-122 C O1	27.7126	Adder	32.6
941291	AE2-123 C O1	28.4800	Adder	33.51
941301	AE2-124 C O1	25.8951	Adder	30.46
941381	AE2-134 (Suspended)	4.1872	80/20	4.1872
941591	AE2-156 O1	20.5580	80/20	20.5580
942001	AE2-212 C	2.4740	80/20	2.4740
942151	AE2-227 C	2.4800	80/20	2.4800
942161	AE2-228 C	2.4752	80/20	2.4752
942371	AE2-250 C O1	11.1083	80/20	11.1083
942401	AE2-253 C	5.9814	Adder	7.04
942551	AE2-270	26.1541	Adder	30.77
942931	AE2-313 C	38.8349	80/20	38.8349
943621	AF1-033 C	2.2968	Adder	2.7

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
944011	AF1-069 C	14.0559	80/20	14.0559
944111	AF1-079 C	3.9653	80/20	3.9653
944581	AF1-123 C O1	55.1157	80/20	55.1157
944591	AF1-124 C O1	55.1157	80/20	55.1157
944601	AF1-125 C O1	55.1157	80/20	55.1157
944631	AF1-128 O1	53.4512	Adder	62.88
944641	AF1-129	117.3847	80/20	117.3847
946261	AF1-291 C	2.4751	80/20	2.4751
946371	AF1-301 C	16.2047	80/20	16.2047
957431	AF2-037 C	14.4361	80/20	14.4361
957631	AF2-057	4.1102	80/20	4.1102
957691	AF2-063 C	23.0364	80/20	23.0364
957711	AF2-065 C	13.3386	Adder	15.69
957871	AF2-081 C	9.6890	Adder	11.4
957911	AF2-085	4.5132	80/20	4.5132
958141	AF2-108	2.0607	80/20	2.0607
959641	AF2-255 C	0.6200	80/20	0.6200
959651	AF2-256 C	0.6188	80/20	0.6188
959661	AF2-257 C	0.6188	80/20	0.6188
959671	AF2-258 C	0.6185	80/20	0.6185
959681	AF2-259 C	3.0911	80/20	3.0911
961611	AG1-000B C	8.2150	Adder	18.24
961711	AG1-011	14.7836	Adder	32.82
961811	AG1-023 C	4.0631	80/20	4.0631
962191	AG1-064 C	1.6663	80/20	1.6663
962201	AG1-065 C	1.6663	80/20	1.6663
962271	AG1-075 C O1	19.1722	80/20	19.1722
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.1067	Adder	2.46
962841	AG1-133 C O1	28.6623	80/20	28.6623
962961	AG1-145 C	1.1005	Adder	2.44
963221	AG1-171 C	1.1091	Adder	2.46
963231	AG1-172 C	1.1091	Adder	2.46
963241	AG1-173 C	1.1091	Adder	2.46
963251	AG1-174 C	1.1091	Adder	2.46
963261	AG1-175 C	1.1091	Adder	2.46
963291	AG1-178 C O1	69.2025	80/20	69.2025
963351	AG1-184 O1	37.2825	80/20	37.2825
963821	AG1-235 C O1	12.4378	Adder	27.61
964271	AG1-288 C	32.6436	80/20	32.6436
964281	AG1-289	18.0504	80/20	18.0504
964421	AG1-305 C O1	18.1220	80/20	18.1220
964951	AG1-359 O1	13.8529	Adder	30.75
965001	AG1-364 C O1	8.2228	80/20	8.2228
965181	AG1-383 C	1.4224	Adder	3.16
965811	AG1-449	25.1784	80/20	25.1784
966611	AG1-531 C	3.3154	Adder	7.36
966731	AG1-544 C	3.6006	Adder	7.99
966741	AG1-545 C	1.2003	Adder	2.66
WEC	WEC	0.6801	Confirmed LTF	0.6801
LGEE	LGEE	1.4941	Confirmed LTF	1.4941
CPL	CPL	8.4200	Confirmed LTF	8.4200

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W2	CBM-W2	34.2541	Confirmed LTF	34.2541
NY	NY	2.8767	Confirmed LTF	2.8767
TVA	TVA	6.7732	Confirmed LTF	6.7732
SIGE	SIGE	0.8682	Confirmed LTF	0.8682
CBM-S2	CBM-S2	102.2389	Confirmed LTF	102.2389
CBM-S1	CBM-S1	1.6686	Confirmed LTF	1.6686
MEC	MEC	4.3539	Confirmed LTF	4.3539
LAGN	LAGN	8.2845	Confirmed LTF	8.2845
AA2-074	AA2-074	5.5593	LTF	5.5593
CBM-W1	CBM-W1	26.9324	Confirmed LTF	26.9324

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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
163600786	939410	AE1-173_POI	DVP	314928	8SUFFOLK	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	115.57	117.62	DC	70.8

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163600801	940470	AE2-031 TAP	DVP	314902	8CARSON	DVP	1	DVP_P4-5: W72	breaker	5046.0	111.34	112.87	DC	77.2

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
244012	05PINNACLE	1.6483	Adder	1.94
313853	3PONTONDP	0.5918	Adder	0.7
314713	3PAMPLIN	1.4397	Adder	1.69
315102	1BRUNSWICKG1	24.4301	50/50	24.4301
315103	1BRUNSWICKG2	24.4301	50/50	24.4301
315104	1BRUNSWICKG3	24.4301	50/50	24.4301
315105	1BRUNSWICKS1	50.7532	50/50	50.7532
315153	1CLOVER1	30.6587	50/50	30.6587
315154	1CLOVER2	30.3532	50/50	30.3532
315241	1Z1-086 GT1	31.0092	50/50	31.0092
315242	1Z1-086 GT2	31.0092	50/50	31.0092
315243	1Z1-086 GT3	31.0092	50/50	31.0092
315244	1Z1-086 ST	53.9056	50/50	53.9056
315266	1PLYWOOD A	1.8918	50/50	1.8918
316118	AC1-105 C	9.0359	50/50	9.0359
316123	AC1-075 C	1.2903	50/50	1.2903
924022	AB2-043 E O1	2.4979	Adder	2.94
924162	AB2-060 E OP	3.7854	Adder	4.45
924301	AB2-077 C O1 (Suspended)	1.7957	Adder	2.11
924302	AB2-077 E O1 (Suspended)	1.1971	Adder	1.41
924311	AB2-078 C O1 (Suspended)	1.7957	Adder	2.11
924312	AB2-078 E O1 (Suspended)	1.1971	Adder	1.41
924321	AB2-079 C O1 (Suspended)	1.7957	Adder	2.11
924322	AB2-079 E O1 (Suspended)	1.1971	Adder	1.41
925612	AC1-036 E	0.7615	Adder	0.9
925997	AC1-075 E	4.6338	50/50	4.6338
926023	AC1-080 C	0.4312	50/50	0.4312
926024	AC1-080 E	1.5375	50/50	1.5375
926274	AC1-105 E	4.4394	50/50	4.4394
926754	AC1-161 C	-29.4818	Adder	-34.68
927251	AC1-221 C	3.8932	50/50	3.8932
927252	AC1-221 E	3.8932	50/50	3.8932
927261	AC1-222 C	6.1642	50/50	6.1642
927262	AC1-222 E	5.8681	50/50	5.8681
932761	AC2-100 C	8.9598	50/50	8.9598
932762	AC2-100 E	4.3732	50/50	4.3732
934061	AD1-033 C	-6.5092	Adder	-7.66

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934311	AD1-055 C	4.2800	50/50	4.2800
934312	AD1-055 E	1.1036	50/50	1.1036
934341	AD1-058 C	9.7598	50/50	9.7598
934342	AD1-058 E	2.4799	50/50	2.4799
934615	AD1-087 C	19.1917	50/50	19.1917
934616	AD1-087 E	8.2125	50/50	8.2125
934625	AD1-088 C	24.4131	50/50	24.4131
934626	AD1-088 E	6.3939	50/50	6.3939
934991	AD1-131 C	3.1999	50/50	3.1999
934992	AD1-131 E	2.1333	50/50	2.1333
935171	AD1-152 C O1	21.0802	50/50	21.0802
935172	AD1-152 E O1	14.0534	50/50	14.0534
935222	AD1-157 E	0.8876	Adder	1.04
936161	AD2-022 C O1	12.8544	50/50	12.8544
936162	AD2-022 E O1	7.7126	50/50	7.7126
936171	AD2-023 C O1	7.4984	50/50	7.4984
936172	AD2-023 E O1	4.0706	50/50	4.0706
936265	AD2-033 C	11.5355	Adder	13.57
936266	AD2-033 E	7.6904	Adder	9.05
936485	AD2-063 C	13.3049	Adder	15.65
936486	AD2-063 E	8.8699	Adder	10.44
937481	AD2-202 C O1	5.6214	50/50	5.6214
937482	AD2-202 E O1	3.1620	50/50	3.1620
938371	AE1-056 C	5.7398	Adder	6.75
938372	AE1-056 E	3.1362	Adder	3.69
938494	AE1-068_C1	91.9857	50/50	91.9857
938497	AE1-068_C2	91.9857	50/50	91.9857
938498	AE1-068_E1	50.8493	50/50	50.8493
938499	AE1-068_E2	50.8493	50/50	50.8493
938504	AE1-069_C1	70.1034	50/50	70.1034
938507	AE1-069_C2	75.5883	50/50	75.5883
938508	AE1-069_E1	39.8795	50/50	39.8795
938509	AE1-069_E2	42.9648	50/50	42.9648
940471	AE2-031 C	112.1430	50/50	112.1430
940472	AE2-031 E	74.7620	50/50	74.7620
941031	AE2-094 C	118.3734	50/50	118.3734
941032	AE2-094 E	53.0166	50/50	53.0166
941791	AE2-182 C	3.9663	50/50	3.9663
941792	AE2-182 E	1.8464	50/50	1.8464
942451	AE2-258	2.0841	Adder	2.45
942461	AE2-259 C O1	8.8791	Adder	10.45
942462	AE2-259 E O1	5.9194	Adder	6.96
942751	AE2-291 C	11.5913	50/50	11.5913
942752	AE2-291 E	7.7275	50/50	7.7275
942761	AE2-292 C O1	14.4323	50/50	14.4323
942762	AE2-292 E O1	9.6215	50/50	9.6215
942931	AE2-313 C	120.9528	50/50	120.9528
942932	AE2-313 E	80.6352	50/50	80.6352
943901	AF1-058 C	3.4172	50/50	3.4172
943902	AF1-058 E	2.2782	50/50	2.2782
944011	AF1-069 C	38.6770	50/50	38.6770
944012	AF1-069 E	15.0252	50/50	15.0252

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
945811	AF1-246 C O1	20.8005	50/50	20.8005
945812	AF1-246 E O1	28.7245	50/50	28.7245
946301	AF1-294 C	3.7725	Adder	4.44
946302	AF1-294 E	2.5150	Adder	2.96
957481	AF2-042 C	148.5750	50/50	148.5750
957482	AF2-042 E	99.0500	50/50	99.0500
957632	AF2-057 BAT	3.6840	50/50	3.6840
958211	AF2-115 C	2.2191	Adder	2.61
958212	AF2-115 E	1.4794	Adder	1.74
958801	AF2-171 C	13.3125	Adder	15.66
958802	AF2-171 E	8.8750	Adder	10.44
959311	AF2-222 C	14.7874	Adder	17.4
959312	AF2-222 E	9.9076	Adder	11.66
959751	AF2-266	22.0075	50/50	22.0075
960061	AF2-297 C	13.6690	50/50	13.6690
960062	AF2-297 E	9.1126	50/50	9.1126
961791	AG1-021 C	0.9409	Adder	2.09
961792	AG1-021 E	0.6273	Adder	1.39
961891	AG1-030 C	7.0560	Adder	15.66
961892	AG1-030 E	4.7040	Adder	10.44
962041	AG1-048 C	5.8807	Adder	13.05
962042	AG1-048 E	3.9205	Adder	8.7
962441	AG1-093 C O1	24.0957	50/50	24.0957
962442	AG1-093 E O1	7.3335	50/50	7.3335
962491	AG1-098 C O1	29.0895	50/50	29.0895
962492	AG1-098 E O1	19.3930	50/50	19.3930
962561	AG1-105 C O1	25.0746	50/50	25.0746
962562	AG1-105 E O1	16.7164	50/50	16.7164
963041	AG1-153 C	17.1417	50/50	17.1417
963042	AG1-153 E	25.7125	50/50	25.7125
963111	AG1-160 C	17.1408	50/50	17.1408
963112	AG1-160 E	25.7112	50/50	25.7112
963171	AG1-166 C	0.9409	Adder	2.09
963172	AG1-166 E	0.6273	Adder	1.39
963181	AG1-167 C	0.9409	Adder	2.09
963182	AG1-167 E	0.6273	Adder	1.39
963191	AG1-168 C	0.9409	Adder	2.09
963192	AG1-168 E	0.6273	Adder	1.39
963201	AG1-169 C	0.9409	Adder	2.09
963202	AG1-169 E	0.6273	Adder	1.39
963211	AG1-170 C	0.9409	Adder	2.09
963212	AG1-170 E	0.6273	Adder	1.39
963271	AG1-176 C O1	29.4126	50/50	29.4126
963272	AG1-176 E O1	19.6084	50/50	19.6084
963321	AG1-181 C O1	7.9219	Adder	17.58
963352	AG1-184 BAT	77.1960	50/50	77.1960
963361	AG1-185 O1	3.8328	Adder	8.51
963641	AG1-215 C	0.4391	Adder	0.97
963642	AG1-215 E	0.6586	Adder	1.46
964111	AG1-272 C	1.2084	Adder	2.68
964112	AG1-272 E	0.3589	Adder	0.8
964121	AG1-273 C	1.2084	Adder	2.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964122	AG1-273 E	0.3589	Adder	0.8
964131	AG1-274 C	1.2084	Adder	2.68
964132	AG1-274 E	0.3589	Adder	0.8
964241	AG1-285 C O1	5.8760	Adder	13.04
964242	AG1-285 E O1	3.9173	Adder	8.7
964261	AG1-287 C	2.5629	50/50	2.5629
964262	AG1-287 E	1.7086	50/50	1.7086
964471	AG1-310 C	3.5219	50/50	3.5219
964472	AG1-310 E	1.7347	50/50	1.7347
964791	AG1-342 C	6.0173	50/50	6.0173
964792	AG1-342 E	4.7278	50/50	4.7278
964821	AG1-345 C	0.3764	Adder	0.84
964822	AG1-345 E	0.2509	Adder	0.56
964841	AG1-347 C	18.3131	50/50	18.3131
964842	AG1-347 E	14.3889	50/50	14.3889
964931	AG1-357 C	64.2468	50/50	64.2468
964932	AG1-357 E	42.8312	50/50	42.8312
964952	AG1-359 BAT	27.3390	50/50	27.3390
965003	AG1-364 BAT	18.4670	50/50	18.4670
965183	AG1-383 BAT	1.5409	50/50	1.5409
965191	AG1-384 C	1.2084	Adder	2.68
965192	AG1-384 E	0.3589	Adder	0.8
965281	AG1-393 C	0.9409	Adder	2.09
965282	AG1-393 E	0.6273	Adder	1.39
965591	AG1-427 C	5.5704	Adder	12.36
965592	AG1-427 E	3.7215	Adder	8.26
965641	AG1-432 C O1	9.4118	Adder	20.89
965642	AG1-432 E O1	6.2746	Adder	13.93
965811	AG1-449	78.6290	50/50	78.6290
965831	AG1-451	1.5686	Adder	3.48
966361	AG1-505 C	52.2333	50/50	52.2333
966362	AG1-505 E	34.8222	50/50	34.8222
966371	AG1-506 C	52.2333	50/50	52.2333
966372	AG1-506 E	34.8222	50/50	34.8222
966691	AG1-539 C	6.0608	50/50	6.0608
966692	AG1-539 E	8.1442	50/50	8.1442
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	0.9412	Adder	2.09
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	0.6275	Adder	1.39
WEC	WEC	1.5498	Confirmed LTF	1.5498
LGEE	LGEE	3.1893	Confirmed LTF	3.1893
CPL	CPL	14.8560	Confirmed LTF	14.8560
CBM-W2	CBM-W2	67.2806	Confirmed LTF	67.2806
NY	NY	2.0981	Confirmed LTF	2.0981
TVA	TVA	12.6574	Confirmed LTF	12.6574
O-066	O-066	29.6995	Confirmed LTF	29.6995
SIGE	SIGE	1.0315	Confirmed LTF	1.0315
CBM-S2	CBM-S2	184.4435	Confirmed LTF	184.4435
CBM-S1	CBM-S1	3.1620	Confirmed LTF	3.1620
G-007	G-007	4.6714	Confirmed LTF	4.6714

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
MEC	MEC	9.2416	Confirmed LTF	9.2416
LAGN	LAGN	15.7238	Confirmed LTF	15.7238
AA2-074	AA2-074	9.8145	LTF	9.8145
CBM-W1	CBM-W1	64.9126	Confirmed LTF	64.9126

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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
163601078	962840	AG1-133 TAP	DVP	314911	8LADYSMITH	DVP	1	DVP_P1-2: LN 573	single	3218.56	114.86	115.87	DC	33.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314295	6BIRDNECK	0.0335	80/20	0.0335
314333	6POWHATN	0.3910	80/20	0.3910
314435	6SAPONY	0.3284	80/20	0.3284
314491	3PENDLTN	0.2502	80/20	0.2502
314643	3O INLET	0.3349	80/20	0.3349
315102	1BRUNSWICKG1	8.1676	80/20	8.1676
315103	1BRUNSWICKG2	8.1676	80/20	8.1676
315104	1BRUNSWICKG3	8.1676	80/20	8.1676
315105	1BRUNSWICKS1	16.9681	80/20	16.9681
315108	1ELIZAR1	2.4400	80/20	2.4400
315110	1ELIZAR3	2.4713	80/20	2.4713
315153	1CLOVER1	11.5147	80/20	11.5147
315154	1CLOVER2	11.3999	80/20	11.3999
315172	1LOISA A	2.7298	80/20	2.7298
315173	1LOISA B	2.7440	80/20	2.7440
315174	1LOISA C	2.7440	80/20	2.7440
315175	1LOISA D	2.7440	80/20	2.7440
315176	1LOISA E	5.5942	80/20	5.5942
315177	1S ANNAG1	2.1872	80/20	2.1872
315178	1S ANNAS1	1.1240	80/20	1.1240
315179	1S ANNAG2	2.1872	80/20	2.1872
315180	1S ANNAS2	1.1240	80/20	1.1240
315225	1N ANNA1	103.1977	80/20	103.1977
315226	1N ANNA2	103.2412	80/20	103.2412
315241	1Z1-086 GT1	10.5072	80/20	10.5072
315242	1Z1-086 GT2	10.5072	80/20	10.5072
315243	1Z1-086 GT3	10.5072	80/20	10.5072
315244	1Z1-086 ST	18.2654	80/20	18.2654
315603	6AA1-139SOLA	1.7598	80/20	1.7598
316096	AB2-100 C1	0.7597	80/20	0.7597
316098	AB2-100 C2	0.7597	80/20	0.7597
925021	AB2-158 C	3.8849	80/20	3.8849
926754	AC1-161 C	24.1064	80/20	24.1064
932044	AC2-012 C	6.8310	Adder	8.04
933294	AC2-141 C	24.1064	80/20	24.1064
933501	AC2-165 C	9.7869	80/20	9.7869
933731	AC2-196 C	0.2244	80/20	0.2244
934061	AD1-033 C	5.9707	80/20	5.9707
934615	AD1-087 C	7.2140	80/20	7.2140
934625	AD1-088 C	11.2476	80/20	11.2476
935171	AD1-152 C O1	7.9238	80/20	7.9238

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
937221	AD2-160 C O1	4.6537	80/20	4.6537
937481	AD2-202 C O1	2.1130	80/20	2.1130
938494	AE1-068_C1	31.4739	80/20	31.4739
938497	AE1-068_C2	31.4739	80/20	31.4739
938504	AE1-069_C1	23.9866	80/20	23.9866
938507	AE1-069_C2	25.8633	80/20	25.8633
938535	AE1-072 C	14.0154	80/20	14.0154
938551	AE1-074 C	0.3313	80/20	0.3313
938561	AE1-075 C	0.3400	80/20	0.3400
939231	AE1-154 C	4.0367	80/20	4.0367
939414	AE1-173_C1	30.5693	80/20	30.5693
939415	AE1-173_C2	26.2022	80/20	26.2022
939416	AE1-173_C3	30.5693	80/20	30.5693
940251	AE2-007_O1 (Withdrawn : 12/11/2020)	116.2300	Adder	136.74
940471	AE2-031 C	34.3946	80/20	34.3946
940481	AE2-033 C	13.3429	80/20	13.3429
940541	AE2-040	2.3683	80/20	2.3683
940641	AE2-051 C O1	17.5599	80/20	17.5599
941031	AE2-094 C	41.2390	80/20	41.2390
941281	AE2-122 C O1	22.5161	80/20	22.5161
941291	AE2-123 C O1	23.1396	80/20	23.1396
941301	AE2-124 C O1	21.0528	80/20	21.0528
941591	AE2-156_O1	11.9952	Adder	14.11
941791	AE2-182 C	1.8273	80/20	1.8273
942131	AE2-225 C	1.4369	Adder	1.69
942171	AE2-229 C	1.0777	Adder	1.27
942401	AE2-253 C	4.8949	80/20	4.8949
942461	AE2-259 C O1	8.5200	80/20	8.5200
942471	AE2-260 C O1	11.9543	80/20	11.9543
942931	AE2-313 C	37.1883	80/20	37.1883
943611	AF1-032 C	1.1734	Adder	1.38
944011	AF1-069 C	13.4743	80/20	13.4743
944111	AF1-079 C	7.6697	80/20	7.6697
944581	AF1-123 C O1	38.4772	80/20	38.4772
944591	AF1-124 C O1	38.4772	80/20	38.4772
944601	AF1-125 C O1	38.4772	80/20	38.4772
945811	AF1-246 C O1	7.3303	80/20	7.3303
946011	AF1-266	11.1690	80/20	11.1690
946281	AF1-292 C	1.0676	Adder	1.26
946371	AF1-301 C	31.3135	80/20	31.3135
957431	AF2-037 C	27.6907	80/20	27.6907
957481	AF2-042 C	52.3590	80/20	52.3590
957491	AF2-043 C	1.4369	Adder	1.69
957631	AF2-057	2.3968	Adder	2.82
957691	AF2-063 C	44.1873	80/20	44.1873
957871	AF2-081 C	7.9369	80/20	7.9369
957911	AF2-085	4.1918	80/20	4.1918
958501	AF2-144 C	1.8316	80/20	1.8316
959531	AF2-244 C (Withdrawn : 01/06/2021)	1.6880	80/20	1.6880
959751	AF2-266	8.2655	80/20	8.2655
960081	AF2-299 C	1.7994	Adder	2.12

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961811	AG1-023 C	7.7777	80/20	7.7777
962491	AG1-098 C O1	12.0878	80/20	12.0878
962561	AG1-105 C O1	9.5976	80/20	9.5976
962841	AG1-133 C O1	66.9879	80/20	66.9879
963041	AG1-153 C	5.7309	80/20	5.7309
963111	AG1-160 C	5.8080	80/20	5.8080
963271	AG1-176 C O1	14.0309	80/20	14.0309
963291	AG1-178 C O1	61.9466	80/20	61.9466
963351	AG1-184 O1	33.3734	80/20	33.3734
963821	AG1-235 C O1	19.1794	80/20	19.1794
964421	AG1-305 C O1	34.7607	80/20	34.7607
964841	AG1-347 C	8.7556	80/20	8.7556
964931	AG1-357 C	21.7500	80/20	21.7500
964951	AG1-359 O1	21.3360	80/20	21.3360
965001	AG1-364 C O1	2.5426	Adder	5.64
965181	AG1-383 C	2.1928	80/20	2.1928
965641	AG1-432 C O1	17.0400	80/20	17.0400
965811	AG1-449	24.1157	80/20	24.1157
965831	AG1-451	2.8400	80/20	2.8400
965971	AG1-466 C	1.3408	80/20	1.3408
965981	AG1-467 C	1.4940	80/20	1.4940
966001	AG1-469 C	1.6841	80/20	1.6841
966361	AG1-505 C	16.9893	80/20	16.9893
966371	AG1-506 C	16.9893	80/20	16.9893
966491	AG1-518 O1	3.1731	Adder	7.04
966501	AG1-519 C	2.4542	80/20	2.4542
966621	AG1-532 C	0.5150	Adder	1.14
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	1.7040	80/20	1.7040
WEC	WEC	0.6001	Confirmed LTF	0.6001
LGEE	LGEE	1.2836	Confirmed LTF	1.2836
CPL	CPL	7.2775	Confirmed LTF	7.2775
CBM-W2	CBM-W2	29.2544	Confirmed LTF	29.2544
NY	NY	2.3751	Confirmed LTF	2.3751
TVA	TVA	5.7148	Confirmed LTF	5.7148
SIGE	SIGE	0.7376	Confirmed LTF	0.7376
CBM-S2	CBM-S2	87.6334	Confirmed LTF	87.6334
CBM-S1	CBM-S1	1.4106	Confirmed LTF	1.4106
MEC	MEC	3.7786	Confirmed LTF	3.7786
LAGN	LAGN	7.0402	Confirmed LTF	7.0402
AA2-074	AA2-074	4.8042	LTF	4.8042
CBM-W1	CBM-W1	24.1845	Confirmed LTF	24.1845

11.7 Queue Dependencies

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

Queue Number	Project Name	Status
AA1-063	Huntsville (Cabin Creek) 69kV	Withdrawn
AA1-139	Hickory-Shawboro 230kV	In Service
AA1-145	Four Rivers 230kV	In Service
AA2-053	Carolina-Jackson 115kV	In Service
AA2-074	CPLP-PJM	Confirmed
AA2-088	Boykins-Handsome 115kV	In Service
AA2-165	Hornertown-Whitakers 115kV	In Service
AA2-178	Mackeys 230kV	Partially in Service - Under Construction
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-015	Franklin 115kV	Engineering and Procurement
AB2-022	Elizabeth City 34.5kV	Engineering and Procurement
AB2-025	Sapony 34.5kV	In Service
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-059	Benson-Dunbar 115kV	Partially in Service - Under Construction
AB2-060	Chase City-Lunenburg 115kV	In Service
AB2-068	Chickahominy 500kV	Withdrawn
AB2-077	Buggs Island-Chase City 115kV	Suspended
AB2-078	Buggs Island-Chase City 115kV	Suspended
AB2-079	Buggs Island-Chase City 115kV	Suspended
AB2-099	Ahoskie 34.5kV	Suspended
AB2-100	Clubhouse-Lakeview 230kV	Partially in Service - Under Construction
AB2-134	Hopewell-Surry 230kV	In Service
AB2-158	Louisa-South Anna 230kV	Under Construction
AB2-160	Reams 115kV	Engineering and Procurement
AB2-161	Waverly #2 DP 115kV	Engineering and Procurement
AB2-169	Pantago-Five Points 115kV	Partially in Service - Under Construction
AB2-174	Emporia-Trego 115kV	In Service
AB2-190	Hopewell-Surry 230kV	Engineering and Procurement
AC1-027	Pendleton 34.5kV	In Service
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-054	Kerr Dam-Eatons Ferry 115 kV	Engineering and Procurement
AC1-065	Harmony Village-Shackleford 115kV	Engineering and Procurement
AC1-075	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-076	Locust Grove-Paytes 115kV	Engineering and Procurement
AC1-080	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-086	Thelma 230kV	Active

Queue Number	Project Name	Status
AC1-098	Dawson-South Justice 115kV	Engineering and Procurement
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-107	Chickahominy 500kV	Engineering and Procurement
AC1-147	Grassfield 34.5kV	Engineering and Procurement
AC1-158	Spotsylvania 500kV	Partially in Service - Under Construction
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
AC2-165	Bremo-Powhatan 230kV	Engineering and Procurement
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
AD1-157	South Creek 34.5 kV	Engineering and Procurement
AD2-007	Hopewell-Surry 230 kV	Active
AD2-008	Hopewell-Surry 230 kV	Active
AD2-021	Elko 34.5 kV	Partially in Service - Under Construction
AD2-022	East Danville-Roxborough 230 kV	Active
AD2-023	E. Danville-Roxborough 230 kV	Active
AD2-033	Chase City-Lunenburg 115 kV	Active
AD2-046	Boydton DP-Kerr Dam 115 kV	Active
AD2-051	Earleys – Northampton 230kV	Active
AD2-063	Central-Chase City 115kV	Active
AD2-073	Sanders DP 230 kV	Active
AD2-074	Garner DP-Lancaster 115 kV	Active

Queue Number	Project Name	Status
AD2-085	Myrtle-Windsor DP 115kV	Active
AD2-097	Spruance NUG 230kV	In Service
AD2-160	Hickory-Moyock 230kV	Active
AD2-202	Clover-Sedge Hill 230kV	Active
AD2-215	Kings Fork 34.5 kV	Withdrawn
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-056	Red House-South Creek 115 kV	Active
AE1-068	Carson-Rogers Rd 500 kV	Active
AE1-069	Carson-Rogers Road 500 kV	Active
AE1-072	Shawboro-Sligo 230 kV	Active
AE1-074	Winterpock 34.5 kV	Engineering and Procurement
AE1-075	Powhatan 34.5 kV	Engineering and Procurement
AE1-085	Bakers Pond-Bell Ave 115 kV	Active
AE1-103	Holland-Union Camp 115 kV	Active
AE1-148	Kerr Dam-Ridge Rd 115 kV	Active
AE1-149	Disputanta-Poe 115 kV	Active
AE1-154	Louisa-South Anna 230 kV	Engineering and Procurement
AE1-155	Garner-Northern Neck 115 kV	Active
AE1-157	Ladysmith CT-St. Johns 230 kV	Active
AE1-158	Ladysmith CT-St. Johns 230 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
AE2-134	Locust Grove-Paytes 115 kV	Suspended
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

Queue Number	Project Name	Status
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
AE2-259	Curdsville-Willis Mtn 115 kV	Active
AE2-260	Clubhouse 230 kV	Active
AE2-270	Hopewell-Surry 230 kV	Active
AE2-291	Grit DP-Perth 115 kV	Active
AE2-292	Grit DP-Perth 115 kV	Active
AE2-313	Carson-Rawlings 500 kV	Active
AE2-346	Ahoskie 34.5 kV	Active
AF1-014	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
AF1-079	Louisa-South Anna 230 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
AF1-294	Jetersville-Ponton 115 kV	Active
AF1-301	Louisa-South Anna 230 kV	Active
AF2-035	St. Johns 115 kV	Active
AF2-037	Louisa-North Anna 230 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
AF2-049	Ladysmith CT-St. Johns 230 kV	Active
AF2-054	Wan 34.5 kV	Active

Queue Number	Project Name	Status
AF2-057	Grassfield 34.5 kV	Active
AF2-063	Louisa-North Anna 230 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
AF2-115	Jetersville-Ponton 115 kV	Active
AF2-120	Garner-Northern Neck 115 kV	Active
AF2-144	Powhatan 34.5 kV	Active
AF2-171	Madisonville 115 kV	Active
AF2-222	Madisonville DP-Twitty's Creek 115 kV	Active
AF2-242	Wharton 115 kV	Active
AF2-244	Powhatan 34.5 kV	Withdrawn
AF2-255	Iron Bridge 34.5 kV	Engineering and Procurement
AF2-256	Tyler 34.5 kV	Engineering and Procurement
AF2-257	Tyler 34.5 kV	Active
AF2-258	Harrowgate 34.5 kV	Active
AF2-259	Locks 34.5 kV	Active
AF2-266	Clover 230 kV	Active
AF2-297	Sedge Hill 115 kV	Active
AF2-299	Fields 34.5 kV	Active
AF2-300	St. Johns 115 kV	Active
AF2-400	Franklin 13.2 kV	Engineering and Procurement
AG1-000B	N/A	N/A
AG1-007	Tar River 12.5 kV	Active
AG1-008	Tunis-Mapleton 115 kV	Active
AG1-009	Hopewell-Surry 230kV	Active
AG1-011	Colonial Trial 230 kV	Active
AG1-021	Jetersville-Ponton 115 kV	Active
AG1-023	North Anna-Louisa 230 kV	Active
AG1-027	Suffolk-Holland 115 kV	Active
AG1-028	Suffolk-Holland 115 kV	Active
AG1-030	Victoria DP-Martin DP 115 kV	Active
AG1-036	Tunis 34.5 kV	Active
AG1-037	Ahoskie 34.5 kV	Active
AG1-038	Garner DP-Lancaster 115 kV	Active
AG1-048	Jetersville-Ponton 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

Queue Number	Project Name	Status
AG1-102	White Marsh 34.5 kV	Active
AG1-105	Clover-Sedge Hill 230 kV	Active
AG1-106	Thelma 230 kV	Active
AG1-133	North Anna-Ladysmith 500 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
AG1-154	Ladysmith CT 230 kV	Active
AG1-160	Rogers Road 500 kV	Active
AG1-166	Lone Pine 115 kV	Active
AG1-167	Lone Pine 115 kV	Active
AG1-168	Lone Pine 115 kV	Active
AG1-169	Lone Pine 115 kV	Active
AG1-170	Lone Pine 115 kV	Active
AG1-171	Hopewell-Surry 230kV	Active
AG1-172	Hopewell-Surry 230 kV	Active
AG1-173	Hopewell-Surry 230 kV	Active
AG1-174	Hopewell-Surry 230 kV	Active
AG1-175	Hopewell-Surry 230 kV	Active
AG1-176	Briery-Clover 230 kV	Active
AG1-178	Carson-Septa 500 kV	Active
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 kV	Active
AG1-183	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
AG1-215	Fort Pickett 13.2 kV	Active
AG1-235	Fentress-Sligo 230 kV	Active
AG1-256	Northern Neck 230 kV	Active
AG1-272	Twitty's Creek 115 kV	Active
AG1-273	Twitty's Creek 115 kV	Active
AG1-274	Twitty's Creek 115 kV	Active
AG1-282	Dunnsville 34.5 kV	Active
AG1-285	Chase City-Central 115 kV	Active
AG1-287	South Boston 12.5 kV	Active
AG1-288	Lake of the Woods DP-Wilderness DP 115 kV	Active
AG1-289	Lake of the Woods DP-Wilderness DP 115 kV	Active
AG1-305	Louisa-North Anna 230 kV	Active
AG1-310	Crystal Hill-Perth 115 kV	Active
AG1-312	Earleys-Cashie 230 kV	Active
AG1-313	Jackson DP-Oconeechee 115 kV	Active
AG1-342	Dryburg 115 kV	Active
AG1-343	Boykins-Murphy 115 kV	Active
AG1-345	Crewe 12.5 kV	Active
AG1-347	Briery DP-Clover 230 kV	Active

Queue Number	Project Name	Status
AG1-357	Clover-Rawlings 500 kV	Active
AG1-359	Fentress 230 kV	Active
AG1-364	Deep Creek 115 kV	Active
AG1-383	Hickory 34.5 kV	Active
AG1-384	Twitty's Creek 115 kV	Active
AG1-388	Dunnsville 34.5 kV	Active
AG1-393	Fort Pickett DP 34.5 kV	Active
AG1-394	Boykins 34.5 kV	Active
AG1-412	Ladysmith CT-Mine Road 230 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
AG1-432	Curdsville DP-Willis Mt. 115 kV	Active
AG1-437	Cashie-Earleys 230 kV	Active
AG1-438	Cashie-Earleys 230 kV	Active
AG1-439	Chinquapin 230 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 kV	Active
AG1-442	Cashie-Earleys 230 kV	Active
AG1-443	Cashie-Earleys 230 kV	Active
AG1-444	Chinquapin 230 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-449	Rawlings-Carson 500 kV	Active
AG1-451	Curdsville DP-Willis Mt. 115 kV	Active
AG1-466	Orange 34.5 kV	Active
AG1-467	Somerset 34.5 kV	Active
AG1-469	Gordonsville 34.5 kV	Active
AG1-505	Rawlings-Clover 500 kV	Active
AG1-506	Rawlings-Clover 500 kV	Active
AG1-518	Suffolk 230 kV	Active
AG1-519	Cash's Corner 230 kV	Active
AG1-531	Poolesville-Winchester 230 kV	Active
AG1-532	Fields 34.5 kV	Active
AG1-536	Garner-Northern Neck 115 kV	Active
AG1-539	Grit DP-Perth 115 kV	Active
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	Parmele 12.5 kV	Active
AG1-552	Carolina 13.2 kV	Active
AG1-557	Curdsville DP 115 kV	Withdrawn
AG1-558	Buckner 34.5 kV	Active
AG1-559	Caroline Pines 22 kV	Active
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

11.8 Contingency Descriptions - Primary POI

Contingency Name	Contingency Definition
DVP_P1-2: LN 567	CONTINGENCY 'DVP_P1-2: LN 567' OPEN BRANCH FROM BUS 314903 TO BUS 314924 CKT 1 /* 8CHCKAHM 500.00 - 8SURRY 500.00 END
DVP_P1-2: LN 562-C	CONTINGENCY 'DVP_P1-2: LN 562-C' OPEN BRANCH FROM BUS 963290 TO BUS 314923 CKT 1 /* AG1-178 TAP 500.00 - 8SEPTA 500.00 END
DVP_P1-2: LN 594	CONTINGENCY 'DVP_P1-2: LN 594' OPEN BRANCH FROM BUS 314916 TO BUS 314934 CKT 1 /* 8MORRSVL 500.00 - 8SPOTSYL 500.00 END
DVP_P1-2: LN 557	CONTINGENCY 'DVP_P1-2: LN 557' OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 END
DVP_P1-2: LN 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P4-2: H2T557	CONTINGENCY 'DVP_P4-2: H2T557' /* ELMONT 500 KV OPEN BRANCH FROM BUS 314214 TO BUS 314903 CKT 1 /* 6CHCKAHM 230.00 - 8CHCKAHM 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 OPEN BRANCH FROM BUS 314218 TO BUS 314908 CKT 2 /* 6ELMONT 230.00 - 8ELMONT 500.00 END
DVP_P1-2: LN 585-A	CONTINGENCY 'DVP_P1-2: LN 585-A' OPEN BRANCH FROM BUS 314902 TO BUS 941030 CKT 1 /* 8CARSON 500.00 - AE2- 094 TAP 500.00 END
DVP_P1-2: LN 573	CONTINGENCY 'DVP_P1-2: LN 573' OPEN BRANCH FROM BUS 314918 TO BUS 314934 CKT 1 /* 8NO ANNA 500.00 - 8SPOTSYL 500.00 END

Contingency Name	Contingency Definition
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_P4-2: 56372	CONTINGENCY 'DVP_P4-2: 56372' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 END
DVP_P1-2: LN 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 575-A	CONTINGENCY 'DVP_P1-2: LN 575-A' OPEN BRANCH FROM BUS 314911 TO BUS 962840 CKT 1 /* 8LADYSMITH 500.00 - AG1-133 TAP 500.00 END
DVP_P4-2: 557T574	CONTINGENCY 'DVP_P4-2: 557T574' /* ELMONT 500 KV OPEN BRANCH FROM BUS 314214 TO BUS 314903 CKT 1 /* 6CHCKAHM 230.00 - 8CHCKAHM 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END
DVP_P1-2: LN 552	CONTINGENCY 'DVP_P1-2: LN 552' OPEN BRANCH FROM BUS 314135 TO BUS 314905 CKT 1 /* 3CHANCE 115.00 - 8CHANCE 500.00 OPEN BRANCH FROM BUS 314900 TO BUS 314905 CKT 1 /* 8BRISTER 500.00 - 8CHANCE 500.00 END
Base Case	
DVP_P4-5: W72	CONTINGENCY 'DVP_P4-5: W72' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 941030 CKT 1 /* 8CARSON 500.00 - AE2-094 TAP 500.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 511-A	CONTINGENCY 'DVP_P1-2: LN 511-A' OPEN BRANCH FROM BUS 314902 TO BUS 940470 CKT 1 /* 8CARSON 500.00 - AE2-031 TAP 500.00 END
DVP_P1-2: LN 574	CONTINGENCY 'DVP_P1-2: LN 574' OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END
DVP_P4-2: 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_P1-2: LN 581	CONTINGENCY 'DVP_P1-2: LN 581' OPEN BRANCH FROM BUS 314135 TO BUS 314905 CKT 2 /* 3CHANCE 115.00 - 8CHANCE 500.00 OPEN BRANCH FROM BUS 314905 TO BUS 314911 CKT 1 /* 8CHANCE 500.00 - 8LADYSMITH 500.00 END

12 Short Circuit Analysis - Primary POI

The following Breakers are overdutied:

None.

12.1 System Reinforcements - Short Circuit

None.

13 Summer Peak - Load Flow Analysis - Secondary POI

The Queue Project AG1-184 was evaluated as a 0.0 MW (Capacity 175.1 MW) injection as an uprate to AG1-178 which is tapping the Carson to Suffolk 500 kV line in the Dominion area. Project AG1-184 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-184 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

13.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE T LOADIN G %	POST PROJE T LOADIN G %	AC D C	MW IMPAC T
163601184	314916	8MORRSV L	500.0	DVP	314913	8LOUDOU N	500.0	DVP	1	DVP_P1-2: LN 580	single	2738.2199707	99.74	100.1	DC	22.01

13.2 Multiple Facility Contingency

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

None

13.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE T LOADIN G %	POST PROJE T LOADIN G %	AC D C	MW IMPAC T
168691943	314209	6SKIFF CREEK	230.0	DVP	314386	6KINGS M	230.0	DVP	1	DVP_P1-2: LN 567	single	441.799987793	158.05	159.06	DC	9.89
174405419	314225	6CHARCTY	230.0	DVP	314227	6LAKESIDE	230.0	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	110.44	110.91	DC	12.6
174405406	314260	6VARINA	230.0	DVP	314225	6CHARCTY	230.0	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	113.22	113.7	DC	12.6
168692055	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P1-2: LN 563	single	559.299987793	161.87	164.17	DC	13.12
168692313	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P1-2: LN 249	single	678.679992676	119.04	120.2	DC	9.3
173824209	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P4-2: 562T563	breaker	684.0	192.26	193.38	DC	16.78
168692065	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P1-2: LN 563	single	559.299987793	158.06	160.36	DC	13.12
173824210	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P4-2: 562T563	breaker	684.0	189.13	190.25	DC	16.78
174405404	314287	6CHESTF B	230.0	DVP	314260	6VARINA	230.0	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	113.52	114.0	DC	12.6
168691951	314296	6PENNIMA N	230.0	DVP	314415	6WALR209	230.0	DVP	1	DVP_P1-2: LN 567	single	441.799987793	146.14	147.15	DC	9.89

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE C T LOADIN G %	POST PROJE C T LOADIN G %	AC D C	MW IMPAC T
174405243	314299	6HARROW G	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P 4-2: 562T563	break er	541.0	169.32	170.37	DC	12.59
168692208	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	132.72	134.29	DC	10.49
174208081	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P 4-2: 562T563	break er	541.0	138.42	139.52	DC	13.26
168692135	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	137.89	139.45	DC	10.49
174009383	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 4-2: 562T563	break er	541.0	162.93	164.04	DC	13.26
174405241	314331	6POE	230.0	DVP	314299	6HARROW G	230.0	DVP	1	DVP_P 4-2: 562T563	break er	541.0	169.35	170.4	DC	12.59
168691947	314386	6KINGS M	230.0	DVP	314296	6PENNNIMA N	230.0	DVP	1	DVP_P 1-2: LN 567	single	441.799987793	150.1	151.11	DC	9.89
168691961	314415	6WALR209	230.0	DVP	314391	6LIGH209	230.0	DVP	1	DVP_P 1-2: LN 567	single	441.799987793	130.0	131.01	DC	9.89
163600761	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	DVP_P 4-2: 557T574	break er	3938.0	144.15	144.72	DC	66.16
163600762	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	DVP_P 4-2: H2T557	break er	3938.0	137.56	138.0	DC	64.99
163601019	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	DVP_P 1-2: LN 557	single	3218.56005859	128.54	129.24	DC	61.5
163601020	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	DVP_P 1-2: LN 567	single	3218.56005859	119.05	120.87	DC	61.87
163601027	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	Base Case	single	3218.56005859	100.91	102.45	DC	53.24
168692045	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 563	single	903.903991699	149.79	152.92	DC	28.6
173824211	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 4-2: 562T563	break er	1039.69995117	185.28	188.81	DC	36.72
175838983	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 562-B-1	single	903.903991699	101.78	104.03	DC	20.38
163600756	314903	8CHCKAH M	500.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 4-2: 56372	break er	3144.0	159.26	159.32	DC	52.53
163600951	314903	8CHCKAH M	500.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 1-2: LN 563	single	2442.12011719	182.69	183.13	DC	48.41
163600952	314903	8CHCKAH M	500.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 1-2: LN 576	single	2442.12011719	179.1	179.27	DC	46.25
163600960	314903	8CHCKAH M	500.0	DVP	314908	8ELMONT	500.0	DVP	1	Base Case	single	2442.12011719	143.69	143.99	DC	32.81

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE C T LOADIN G %	POST PROJE C T LOADIN G %	AC/D C	MW IMPAC T
168691976	314903	8CHCKAHM	500.0	DVP	314214	6CHCKAHM	230.0	DVP	1	DVP_P 1-2: LN 557	single	934.923950195	205.63	206.67	DC	12.11
163600918	314908	8ELMONT	500.0	DVP	314911	8LADYSMIT H	500.0	DVP	1	DVP_P 1-2: LN 576	single	2442.12011719	218.96	219.03	DC	51.64
163600921	314908	8ELMONT	500.0	DVP	314911	8LADYSMIT H	500.0	DVP	1	DVP_P 1-2: LN 563	single	2442.12011719	195.24	195.3	DC	44.04
173395633	314911	8LADYSMIT H	500.0	DVP	314922	8POSSUM	500.0	DVP	1	DVP_P 1-2: LN 573-B	single	2442.12011719	142.46	142.94	DC	27.47
173395634	314911	8LADYSMIT H	500.0	DVP	314922	8POSSUM	500.0	DVP	1	DVP_P 1-2: LN 573-A	single	2442.12011719	141.72	142.19	DC	27.47
163600771	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 4-2: 557T574	break er	3637.0	139.78	139.8	DC	60.12
163600983	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 1-2: LN 574	single	2442.12011719	175.32	175.88	DC	56.08
163600986	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 1-2: LN 557	single	2442.12011719	154.38	154.75	DC	54.28
163600993	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	Base Case	single	2442.12011719	126.55	127.32	DC	46.31
168692098	314914	8MDLTHA N	500.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P 1-2: LN 576	single	1058.15795898	137.82	140.04	DC	24.31
173395694	314918	8NO ANNA	500.0	DVP	314911	8LADYSMIT H	500.0	DVP	1	DVP_P 1-2: LN 594	single	3218.56005859	114.77	115.78	DC	32.89
173395695	314918	8NO ANNA	500.0	DVP	314911	8LADYSMIT H	500.0	DVP	1	DVP_P 1-2: LN 573-A	single	3218.56005859	115.66	116.7	DC	34.55
173395729	314918	8NO ANNA	500.0	DVP	962840	AG1-133 TAP	500.0	DVP	1	DVP_P 1-2: LN 581	single	3218.56005859	130.75	130.83	DC	38.16
173395731	314918	8NO ANNA	500.0	DVP	962840	AG1-133 TAP	500.0	DVP	1	DVP_P 1-2: LN 575	single	3218.56005859	120.47	121.62	DC	36.66
163600854	314923	8SEPTA	500.0	DVP	314924	8SURRY	500.0	DVP	1	DVP_P 4-2: 56372	break er	3637.0	100.22	101.46	DC	50.78
163600766	314924	8SURRY	500.0	DVP	314903	8CHCKAHM	500.0	DVP	1	DVP_P 4-2: 56372	break er	3144.0	127.25	127.86	DC	52.76
163600768	314924	8SURRY	500.0	DVP	314903	8CHCKAHM	500.0	DVP	1	DVP_P 4-2: 563T576	break er	3144.0	117.05	117.51	DC	47.12
163601050	314924	8SURRY	500.0	DVP	314903	8CHCKAHM	500.0	DVP	1	DVP_P 1-2: LN 563	single	2442.12011719	112.94	114.58	DC	46.11
163601054	314924	8SURRY	500.0	DVP	314903	8CHCKAHM	500.0	DVP	1	DVP_P 1-2: LN 576	single	2442.12011719	101.47	102.74	DC	40.93
163601032	314934	8SPOTSYL	500.0	DVP	314916	8MORRSVL	500.0	DVP	1	DVP_P 1-2: LN 552	single	3218.56005859	134.99	135.16	DC	37.36
163601033	314934	8SPOTSYL	500.0	DVP	314916	8MORRSVL	500.0	DVP	1	DVP_P 1-2: LN 581	single	3218.56005859	133.73	133.87	DC	36.81

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADIN G %	POST PROJE CT LOADIN G %	AC D C	MW IMPAC T
163600786	939410	AE1-173_POI	500.0	DVP	314928	8SUFFOLK	500.0	DVP	1	DVP_P 4-2: 562T563	breaker	3144.0	119.33	121.42	DC	70.89
173395709	962840	AG1-133 TAP	500.0	DVP	314934	8SPOTSYL	500.0	DVP	1	DVP_P 1-2: LN 581	single	3218.56005859	131.03	131.17	DC	38.16
173395711	962840	AG1-133 TAP	500.0	DVP	314934	8SPOTSYL	500.0	DVP	1	DVP_P 1-2: LN 575	single	3218.56005859	121.75	122.9	DC	36.66
173395442	963290	AG1-178 TAP	500.0	DVP	939410	AE1-173_POI	500.0	DVP	1	DVP_P 4-2: 562T563	breaker	3144.0	106.8	108.89	DC	70.89

13.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADIN G %	POST PROJE CT LOADIN G %	AC D C	MW IMPAC T
168691941	314209	6SKIFF CREEK	230.0	DVP	314386	6KINGS M	230.0	DVP	1	DVP_P 1-2: LN 567	operation	441.799987793	249.92	250.94	DC	9.89
168692176	314209	6SKIFF CREEK	230.0	DVP	314413	6WALR285	230.0	DVP	1	DVP_P 1-2: LN 567	operation	678.679992676	142.96	143.59	DC	9.4
168692054	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P 1-2: LN 563	operation	559.299987793	183.43	184.49	DC	13.12
168692064	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P 1-2: LN 563	operation	559.299987793	179.62	180.68	DC	13.12
168691949	314296	6PENNIMAN	230.0	DVP	314415	6WALR209	230.0	DVP	1	DVP_P 1-2: LN 567	operation	441.799987793	238.02	239.03	DC	9.89
168692134	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 563	operation	441.799987793	147.91	148.98	DC	10.49
168691945	314386	6KINGS M	230.0	DVP	314296	6PENNIMAN	230.0	DVP	1	DVP_P 1-2: LN 567	operation	441.799987793	241.98	243.0	DC	9.89
168692308	314390	6LIGH285	230.0	DVP	314214	6CHCKAH M	230.0	DVP	1	DVP_P 1-2: LN 567	operation	678.679992676	123.6	124.23	DC	9.4
168692173	314391	6LIGH209	230.0	DVP	314388	6LANEXA	230.0	DVP	1	DVP_P 1-2: LN 567	operation	663.640014648	139.98	140.66	DC	9.89

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPACT
168692243	314413	6WALR285	230.0	DVP	314390	6LIGH285	230.0	DVP	1	DVP_P 1-2: LN 567	operation	678.679992676	133.79	134.43	DC	9.4
168691959	314415	6WALR209	230.0	DVP	314391	6LIGH209	230.0	DVP	1	DVP_P 1-2: LN 567	operation	441.799987793	221.88	222.9	DC	9.89
163601016	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	DVP_P 1-2: LN 567	operation	3218.56005859	146.42	147.42	DC	61.87
163601025	314902	8CARSON	500.0	DVP	314914	8MDLTHA N	500.0	DVP	1	Base Case	operation	3218.56005859	120.71	121.08	DC	53.24
168692044	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 563	operation	903.903991699	178.78	181.95	DC	28.6
163600982	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 1-2: LN 574	operation	2442.12011719	185.88	186.06	DC	56.08
163600992	314914	8MDLTHA N	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	Base Case	operation	2442.12011719	137.84	138.1	DC	46.31
168692097	314914	8MDLTHA N	500.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P 1-2: LN 576	operation	1058.15795898	170.3	171.15	DC	24.31
173395691	314918	8NO ANNA	500.0	DVP	314911	8LADYSMI TH	500.0	DVP	1	DVP_P 1-2: LN 573-B	operation	3218.56005859	140.97	141.52	DC	34.55
173395727	314918	8NO ANNA	500.0	DVP	962840	AG1-133 TAP	500.0	DVP	1	DVP_P 1-2: LN 575	operation	3218.56005859	138.02	138.27	DC	36.66
163601112	314923	8SEPTA	500.0	DVP	314924	8SURREY	500.0	DVP	1	DVP_P 1-2: LN 563	operation	2442.12011719	123.78	125.52	DC	41.41
163601048	314924	8SURREY	500.0	DVP	314903	8CHCKAH M	500.0	DVP	1	DVP_P 1-2: LN 563	operation	2442.12011719	146.4	146.48	DC	46.11
163601055	314924	8SURREY	500.0	DVP	314903	8CHCKAH M	500.0	DVP	1	Base Case	operation	2442.12011719	102.89	102.96	DC	30.2
173395650	314934	8SPOTSYL	500.0	DVP	314916	8MORRSVL	500.0	DVP	1	DVP_P 1-2: LN 575	operation	3218.56005859	146.48	146.87	DC	35.58
173395707	962840	AG1-133 TAP	500.0	DVP	314934	8SPOTSYL	500.0	DVP	1	DVP_P 1-2: LN 575	operation	3218.56005859	139.35	139.71	DC	36.66

13.5 Flow Gate Details - Secondary POI

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

13.5.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163601184	314916	8MORRSVL	DVP	314913	8LOUDOUN	DVP	1	DVP_P1-2: LN 580	single	2738.22	99.74	100.1	DC	22.01

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314078	3REMNGTN	0.2647	80/20	0.2647
314250	6ROCKVILLE	0.2271	80/20	0.2271
315021	1REMNGT1	5.2612	80/20	5.2612
315022	1REMNGT2	5.3314	80/20	5.3314
315023	1REMNGT3	5.3525	80/20	5.3525
315024	1REMNGT4	5.3314	80/20	5.3314
315028	1M RUN A	5.9139	80/20	5.9139
315029	1M RUN B	5.8663	80/20	5.8663
315030	1M RUN C	5.9139	80/20	5.9139
315058	1CHESTF3 (Deactivation : 13/12/2018)	10.7466	Adder	12.64
315059	1CHESTF4 (Deactivation : 13/12/2018)	17.4202	Adder	20.49
315060	1CHESTF5 (Deactivation : 31/05/2023)	37.5594	Adder	44.19
315065	1CHESTF6 (Deactivation : 31/05/2023)	72.6706	Adder	85.49
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0107	Adder	0.01
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0107	Adder	0.01
315083	1SPRUNCA (Deactivation : 12/01/2021)	6.3701	Adder	7.49
315084	1SPRUNCB (Deactivation : 12/01/2021)	6.3701	Adder	7.49
315172	1LOISA A	2.0529	80/20	2.0529
315173	1LOISA B	2.0636	80/20	2.0636
315174	1LOISA C	2.0636	80/20	2.0636
315175	1LOISA D	2.0636	80/20	2.0636
315176	1LOISA E	4.2070	80/20	4.2070
315177	1S ANNAG1	1.5498	80/20	1.5498
315178	1S ANNAS1	0.7964	80/20	0.7964
315179	1S ANNAG2	1.5498	80/20	1.5498
315180	1S ANNAS2	0.7964	80/20	0.7964
315225	1N ANNA1	28.6599	80/20	28.6599
315226	1N ANNA2	28.6719	80/20	28.6719
315270	1WARREN G1	13.7158	80/20	13.7158
315271	1WARREN G2	13.7158	80/20	13.7158
315272	1WARREN G3	13.7158	80/20	13.7158
315273	1WARREN S1	25.6994	80/20	25.6994
316108	AB2-160 C	3.2347	Adder	3.81

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	30.5854	Adder	35.98
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	30.5854	Adder	35.98
316114	AB2-068 ST (Withdrawn : 01/11/2021)	52.9859	Adder	62.34
316134	AC1-107 G1	57.4337	Adder	67.57
316135	AC1-107 G2	57.4337	Adder	67.57
316136	AC1-107 G3	57.4445	Adder	67.58
925021	AB2-158 C	1.7086	80/20	1.7086
925671	AC1-043 C (Suspended)	7.9040	80/20	7.9040
926001	AC1-076 C	4.9478	80/20	4.9478
926481	AC1-120 C O1	8.0337	80/20	8.0337
926501	AC1-121 C O1	2.7590	80/20	2.7590
926611	AC1-143 C O1	8.9874	80/20	8.9874
926737	AC1-158 C1	6.6111	80/20	6.6111
926738	AC1-158 C2	6.6111	80/20	6.6111
926784	AC1-164 C	23.5689	Adder	27.73
934861	AD1-115 C	3.9520	80/20	3.9520
936761	AD2-097 C	1.2081	Adder	1.42
938291	AE1-044 C O1	28.3301	80/20	28.3301
938295	AE1-044 C	28.3808	80/20	28.3808
938551	AE1-074 C	0.2765	80/20	0.2765
939225	AE1-153 C	18.0973	80/20	18.0973
939231	AE1-154 C	1.7754	80/20	1.7754
939261	AE1-157 C O1	8.4990	Adder	10.0
939271	AE1-158 C O1	8.6738	Adder	10.2
939414	AE1-173_C1	17.8757	Adder	21.03
939415	AE1-173_C2	15.3220	Adder	18.03
939416	AE1-173_C3	17.8757	Adder	21.03
939755	AE1-206 C	18.5932	Adder	21.87
940431	AE2-027 C O1	7.6910	Adder	9.05
940641	AE2-051 C O1	9.6260	Adder	11.32
941361	AE2-132	0.6221	80/20	0.6221
941381	AE2-134 (Suspended)	3.4094	80/20	3.4094
941851	AE2-190 C	4.9938	80/20	4.9938
942001	AE2-212 C	1.2788	Adder	1.5
942151	AE2-227 C	1.2984	Adder	1.53
942161	AE2-228 C	1.2842	Adder	1.51
942191	AE2-231 C O1	2.8811	Adder	3.39
942371	AE2-250 C O1	5.7458	Adder	6.76
944111	AF1-079 C	3.3733	80/20	3.3733
944631	AF1-128 O1	32.9342	Adder	38.75
944641	AF1-129	60.9786	Adder	71.74
946001	AF1-265	16.3098	Adder	19.19
946261	AF1-291 C	1.2842	Adder	1.51
946371	AF1-301 C	13.5242	80/20	13.5242
957411	AF2-035 C	5.2383	Adder	6.16
957431	AF2-037 C	10.2541	80/20	10.2541
957461	AF2-040	13.8615	80/20	13.8615
957551	AF2-049 C	3.7688	Adder	4.43
957691	AF2-063 C	16.3629	80/20	16.3629
957911	AF2-085	2.6930	80/20	2.6930

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
959641	AF2-255 C	0.3246	Adder	0.38
959651	AF2-256 C	0.3210	Adder	0.38
959661	AF2-257 C	0.3210	Adder	0.38
959671	AF2-258 C	0.3197	Adder	0.38
960091	AF2-300 C	1.3096	Adder	1.54
961101	AF2-401 C	0.7396	80/20	0.7396
961811	AG1-023 C	2.7473	80/20	2.7473
961901	AG1-031 C	1.5525	80/20	1.5525
962191	AG1-064 C	0.4621	Adder	1.03
962201	AG1-065 C	0.4621	Adder	1.03
962841	AG1-133 C O2	17.9235	80/20	17.9235
963031	AG1-152 C	8.9104	80/20	8.9104
963051	AG1-154 C	1.1599	Adder	2.57
963291	AG1-178 C O2	18.4007	Adder	40.85
963341	AG1-183 C	2.0545	Adder	4.56
963351	AG1-184 O2	9.9133	Adder	22.01
963381	AG1-187	0.8375	Adder	1.86
963621	AG1-213 C	0.2314	Adder	0.51
964271	AG1-288 C	20.5872	80/20	20.5872
964281	AG1-289	11.3838	80/20	11.3838
964421	AG1-305 C O2	12.8920	80/20	12.8920
964811	AG1-344 C	2.5358	80/20	2.5358
965971	AG1-466 C	1.5001	80/20	1.5001
965981	AG1-467 C	1.6715	80/20	1.6715
966001	AG1-469 C	1.6363	80/20	1.6363
966331	AG1-502 C	9.7166	80/20	9.7166
966341	AG1-503 C	2.4292	80/20	2.4292
966501	AG1-519 C	1.9384	80/20	1.9384
966681	AG1-538 C	6.5069	80/20	6.5069
966711	AG1-541 C	1.8509	Adder	4.11
966881	AG1-559 C	0.6941	Adder	1.54
WEC	WEC	0.2933	Confirmed LTF	0.2933
LGEE	LGEE	0.6823	Confirmed LTF	0.6823
CPL	CPL	4.9829	Confirmed LTF	4.9829
CBM-W2	CBM-W2	17.9110	Confirmed LTF	17.9110
NY	NY	2.2507	Confirmed LTF	2.2507
TVA	TVA	3.7170	Confirmed LTF	3.7170
SIGE	SIGE	0.5880	Confirmed LTF	0.5880
CBM-S2	CBM-S2	59.9882	Confirmed LTF	59.9882
CBM-S1	CBM-S1	0.9006	Confirmed LTF	0.9006
MEC	MEC	2.0736	Confirmed LTF	2.0736
LAGN	LAGN	4.5150	Confirmed LTF	4.5150
AA2-074	AA2-074	3.2886	LTF	3.2886
CBM-W1	CBM-W1	10.8094	Confirmed LTF	10.8094

13.5.2 Index 2

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168691943	314209	6SKIIF CREEK	DVP	314386	6KINGS M	DVP	1	DVP_P1-2: LN 567	single	441.8	158.05	159.06	DC	9.89

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)	1.3334	80/20	1.3334
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	9.3903	80/20	9.3903
315120	1GRAVEL4	0.9662	80/20	0.9662
315122	1GRAVEL6	0.9650	80/20	0.9650
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	1.0030	80/20	1.0030
315605	6W1-029WIND	0.4712	80/20	0.4712
315611	6Z1-036WIND	0.4492	80/20	0.4492
316103	AB2-015 C	2.6146	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	4.6637	80/20	4.6637
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	9.2691	Adder	10.9
939415	AE1-173_C2	7.9450	Adder	9.35
939416	AE1-173_C3	9.2691	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	1.0891	80/20	1.0891
940901	AE2-079 C	1.0891	80/20	1.0891
941101	AE2-104 C O1	1.3615	80/20	1.3615
941281	AE2-122 C O1	13.0362	80/20	13.0362
941291	AE2-123 C O1	13.3971	80/20	13.3971
941301	AE2-124 C O1	12.1844	80/20	12.1844
941501	AE2-147 C	6.8922	80/20	6.8922
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	1.0891	80/20	1.0891
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	2.2974	80/20	2.2974
945361	AF1-201 C O1	6.4404	80/20	6.4404
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	1.6364	80/20	1.6364
957821	AF2-076 C	2.3502	80/20	2.3502
957871	AF2-081 C	4.5237	80/20	4.5237
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
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
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.9901	80/20	0.9901

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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 O2	8.2679	Adder	18.35
963351	AG1-184 O2	4.4543	Adder	9.89
963821	AG1-235 C O2	11.0889	80/20	11.0889
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 O2	3.2636	80/20	3.2636
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 O2	4.0100	80/20	4.0100
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
CPL	CPL	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
SIG	SIG	0.1261	Confirmed LTF	0.1261
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
174405419	314225	6CHARCTY	DVP	314227	6LAKESIDE	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	110.44	110.91	DC	12.6

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

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

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

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

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

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

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

13.5.4 Index 4

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174405406	314260	6VARINA	DVP	314225	6CHARCTY	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	113.22	113.7	DC	12.6

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

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

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173824209	314282	6CARSON	DVP	314285	6CHRL249	DVP	1	DVP_P4-2: 562T563	breaker	684.0	192.26	193.38	DC	16.78

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

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168692313	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P1-2: LN 249	single	678.68	119.04	120.2	DC	9.3

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.8500	80/20	4.8500
313527	AB2-043 C	0.1848	80/20	0.1848
313719	3CHESTNUT	0.4963	80/20	0.4963
314435	6SAPONY	0.5314	80/20	0.5314
314572	3EMPORIA	0.3423	80/20	0.3423
314582	3KELFORD	0.1318	80/20	0.1318
314623	3WITAKRS	0.0909	80/20	0.0909
314704	3LAWRENC	0.2076	80/20	0.2076
315102	1BRUNSWICKG1	2.4306	80/20	2.4306
315103	1BRUNSWICKG2	2.4306	80/20	2.4306
315104	1BRUNSWICKG3	2.4306	80/20	2.4306
315105	1BRUNSWICKS1	5.0497	80/20	5.0497
315126	1ROARAP2	0.7139	80/20	0.7139
315128	1ROARAP4	0.6813	80/20	0.6813
315131	1EDGECEMA (Deactivation : 22/04/2019)	3.9109	80/20	3.9109
315132	1EDGECEMB (Deactivation : 22/04/2019)	3.9109	80/20	3.9109
315136	1ROSEMG1	1.2984	80/20	1.2984
315137	1ROSEMS1	0.8052	80/20	0.8052
315138	1ROSEMG2	0.6085	80/20	0.6085
315139	1GASTONA	1.9606	80/20	1.9606
315141	1GASTONB	1.9606	80/20	1.9606
315158	1KERR 1	0.1527	80/20	0.1527
315159	1KERR 2	0.4275	80/20	0.4275
315160	1KERR 3	0.4275	80/20	0.4275
315161	1KERR 4	0.4275	80/20	0.4275
315162	1KERR 5	0.4275	80/20	0.4275
315163	1KERR 6	0.4275	80/20	0.4275
315164	1KERR 7	0.4275	80/20	0.4275
315241	1Z1-086 GT1	3.1185	80/20	3.1185
315242	1Z1-086 GT2	3.1185	80/20	3.1185
315243	1Z1-086 GT3	3.1185	80/20	3.1185
315244	1Z1-086 ST	5.4211	80/20	5.4211
315601	1CONETOE2SOL	0.5048	80/20	0.5048
315606	3AA2-053SOLA	0.7264	80/20	0.7264
315607	3AA1-063SOLA	0.5804	80/20	0.5804
316020	AB2-059 C OP	0.6965	80/20	0.6965
316087	AB2-174 C	0.8363	80/20	0.8363
316096	AB2-100 C1	0.9230	80/20	0.9230
316098	AB2-100 C2	0.9230	80/20	0.9230
316129	AC1-054 C	3.3722	80/20	3.3722

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316131	AB2-060 C	0.5253	80/20	0.5253
316132	AB2-190 C	-8.1120	Adder	-9.54
316140	AB2-099 C (Suspended)	0.1918	80/20	0.1918
920591	AA2-165 C	0.0666	80/20	0.0666
922922	AB1-081 C OP	0.5910	80/20	0.5910
923991	AB2-040 C O1	5.2822	80/20	5.2822
924301	AB2-077 C O1 (Suspended)	0.7397	80/20	0.7397
924311	AB2-078 C O1 (Suspended)	0.7397	80/20	0.7397
924321	AB2-079 C O1 (Suspended)	0.7397	80/20	0.7397
925591	AC1-034 C	2.8595	80/20	2.8595
926070	AC1-086 C	13.9744	80/20	13.9744
926201	AC1-098 C	2.6158	80/20	2.6158
926211	AC1-099 C	0.8766	80/20	0.8766
927024	AC1-189 C	3.0993	80/20	3.0993
927145	AC1-208 C	4.1428	80/20	4.1428
932581	AC2-078 C O1	-4.8865	Adder	-5.75
932631	AC2-084 C	3.7290	80/20	3.7290
934331	AD1-057 C O1	5.3662	80/20	5.3662
936265	AD2-033 C	4.1722	80/20	4.1722
936361	AD2-046 C O1	3.5116	80/20	3.5116
936401	AD2-051 C O1	2.8134	80/20	2.8134
936485	AD2-063 C	5.2137	80/20	5.2137
936761	AD2-097 C	-0.8307	Adder	-0.98
938494	AE1-068_C1	9.3235	80/20	9.3235
938497	AE1-068_C2	9.3235	80/20	9.3235
938504	AE1-069_C1	7.1056	80/20	7.1056
938507	AE1-069_C2	7.6615	80/20	7.6615
939181	AE1-148 C	3.4555	80/20	3.4555
940471	AE2-031 C	10.1251	80/20	10.1251
940481	AE2-033 C	20.9106	80/20	20.9106
940541	AE2-040	3.8317	80/20	3.8317
940571	AE2-044 C	1.8729	80/20	1.8729
940641	AE2-051 C O1	4.7205	80/20	4.7205
940661	AE2-053 O1	1.2798	80/20	1.2798
941031	AE2-094 C	12.1730	80/20	12.1730
941541	AE2-151 C (Withdrawn : 01/08/2021)	0.0582	80/20	0.0582
942151	AE2-227 C	-0.7632	Adder	-0.9
942161	AE2-228 C	-1.7813	Adder	-2.1
942451	AE2-258	0.8736	80/20	0.8736
942471	AE2-260 C O1	15.0795	80/20	15.0795
942931	AE2-313 C	10.9479	80/20	10.9479
943171	AE2-346 C	0.4602	80/20	0.4602
943911	AF1-059	9.7722	80/20	9.7722
944011	AF1-069 C	3.9774	80/20	3.9774
944141	AF1-082	1.2040	80/20	1.2040
946011	AF1-266	17.5038	80/20	17.5038
946261	AF1-291 C	-2.1026	Adder	-2.47
946281	AF1-292 C	1.2784	80/20	1.2784
957861	AF2-080 C	2.8149	80/20	2.8149

Bus #	Bus	Gendoliv MW Impact	Type	Full MW Impact
959641	AF2-255 C	-0.1908	Adder	-0.22
959651	AF2-256 C	-0.4453	Adder	-0.52
960081	AF2-299 C	2.1546	80/20	2.1546
961671	AG1-007 C	0.4789	80/20	0.4789
961931	AG1-036 C	0.4253	80/20	0.4253
961941	AG1-037 C	0.1644	80/20	0.1644
962271	AG1-075 C O2	21.8973	80/20	21.8973
962331	AG1-082 C	0.6575	80/20	0.6575
962341	AG1-083 C	0.6575	80/20	0.6575
962351	AG1-084 C	0.5962	80/20	0.5962
962361	AG1-085 C	0.5962	80/20	0.5962
962491	AG1-098 C O2	4.4910	80/20	4.4910
962561	AG1-105 C O2	3.2304	80/20	3.2304
962571	AG1-106 C	3.8862	80/20	3.8862
963041	AG1-153 C	1.7055	80/20	1.7055
963111	AG1-160 C	1.7238	80/20	1.7238
963291	AG1-178 C O2	17.2673	80/20	17.2673
963301	AG1-179 C	3.7948	80/20	3.7948
963311	AG1-180	1.8489	80/20	1.8489
963321	AG1-181 C O2	5.3001	80/20	5.3001
963351	AG1-184 O2	9.3027	80/20	9.3027
964501	AG1-313 C O2	2.1086	80/20	2.1086
964931	AG1-357 C O2	6.9672	80/20	6.9672
965451	AG1-413 C O2	3.9778	80/20	3.9778
965591	AG1-427 C	4.1878	80/20	4.1878
965601	AG1-428 C O2	3.1680	80/20	3.1680
965711	AG1-439 C O1	9.0555	80/20	9.0555
965721	AG1-440 C	3.0884	80/20	3.0884
965731	AG1-441 C	3.0884	80/20	3.0884
965761	AG1-444 O1	4.8296	80/20	4.8296
965771	AG1-445	1.7844	80/20	1.7844
965781	AG1-446	1.7844	80/20	1.7844
965811	AG1-449	7.0992	80/20	7.0992
966361	AG1-505 C	4.9869	80/20	4.9869
966371	AG1-506 C	4.9869	80/20	4.9869
966621	AG1-532 C	1.1635	80/20	1.1635
966751	AG1-546 C	7.5441	80/20	7.5441
966811	AG1-552 C	1.1335	80/20	1.1335
WEC	WEC	0.2580	Confirmed LTF	0.2580
LGEE	LGEE	0.5278	Confirmed LTF	0.5278
CPL	CPL	2.6686	Confirmed LTF	2.6686
CBM-W2	CBM-W2	11.1642	Confirmed LTF	11.1642
NY	NY	0.2881	Confirmed LTF	0.2881
TVA	TVA	2.0958	Confirmed LTF	2.0958
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	31.4557	Confirmed LTF	31.4557
CBM-S1	CBM-S1	0.5236	Confirmed LTF	0.5236
MEC	MEC	1.5350	Confirmed LTF	1.5350
LAGN	LAGN	2.6093	Confirmed LTF	2.6093
AA2-074	AA2-074	1.7627	LTF	1.7627
CBM-W1	CBM-W1	10.8375	Confirmed LTF	10.8375

13.5.7 Index 7

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173824210	314285	6CHRL249	DVP	314316	6LOCKS	DVP	1	DVP_P4-2: 562T563	breaker	684.0	189.13	190.25	DC	16.78

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

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

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

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

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

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

13.5.8 Index 8

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174405404	314287	6CHESTFB	DVP	314260	6VARINA	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	113.52	114.0	DC	12.6

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

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

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168691951	314296	6PENNIMAN	DVP	314415	6WALR209	DVP	1	DVP_P1-2: LN 567	single	441.8	146.14	147.15	DC	9.89

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)	1.3334	80/20	1.3334
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	9.3903	80/20	9.3903
315120	1GRAVEL4	0.9662	80/20	0.9662
315122	1GRAVEL6	0.9650	80/20	0.9650
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	1.0030	80/20	1.0030
315605	6W1-029WIND	0.4712	80/20	0.4712
315611	6Z1-036WIND	0.4492	80/20	0.4492
316103	AB2-015 C	2.6146	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	4.6637	80/20	4.6637
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	9.2691	Adder	10.9
939415	AE1-173_C2	7.9450	Adder	9.35
939416	AE1-173_C3	9.2691	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	1.0891	80/20	1.0891
940901	AE2-079 C	1.0891	80/20	1.0891
941101	AE2-104 C O1	1.3615	80/20	1.3615
941281	AE2-122 C O1	13.0362	80/20	13.0362
941291	AE2-123 C O1	13.3971	80/20	13.3971
941301	AE2-124 C O1	12.1844	80/20	12.1844
941501	AE2-147 C	6.8922	80/20	6.8922
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	1.0891	80/20	1.0891
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	2.2974	80/20	2.2974
945361	AF1-201 C O1	6.4404	80/20	6.4404
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	1.6364	80/20	1.6364
957821	AF2-076 C	2.3502	80/20	2.3502
957871	AF2-081 C	4.5237	80/20	4.5237
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
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
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.9901	80/20	0.9901

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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 O2	8.2679	Adder	18.35
963351	AG1-184 O2	4.4543	Adder	9.89
963821	AG1-235 C O2	11.0889	80/20	11.0889
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 O2	3.2636	80/20	3.2636
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 O2	4.0100	80/20	4.0100
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
CPL	CPL	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	0.1261	Confirmed LTF	0.1261
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
174405243	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P4-2: 562T563	breaker	541.0	169.32	170.37	DC	12.59

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.0164	Adder	3.55
314331	6POE	4.8056	50/50	4.8056
314435	6SAPONY	0.3169	50/50	0.3169
314539	3UNCAMP	1.8472	Adder	2.17
314541	3WATKINS	0.2148	Adder	0.25
314572	3EMPORIA	0.2022	Adder	0.24
315073	1STONECA	-1.6562	Adder	-1.95
315131	1EDGECEMA (Deactivation : 22/04/2019)	2.9950	Adder	3.52
315132	1EDGECEMB (Deactivation : 22/04/2019)	2.9950	Adder	3.52
316083	AB2-161 C	3.6022	50/50	3.6022
316084	AB2-161 E	5.8773	50/50	5.8773
316088	AB2-174 E	2.9238	Adder	3.44
316096	AB2-100 C1	0.5969	50/50	0.5969
316097	AB2-100 E1	1.8635	50/50	1.8635
316098	AB2-100 C2	0.5969	50/50	0.5969
316099	AB2-100 E2	1.8635	50/50	1.8635
316103	AB2-015 C	2.6660	Adder	3.14
316104	AB2-015 E	2.1861	Adder	2.57
316118	AC1-105 C	1.4709	Adder	1.73
316129	AC1-054 C	2.4696	Adder	2.91
316140	AB2-099 C (Suspended)	0.1806	Adder	0.21
316141	AB2-099 E (Suspended)	0.0774	Adder	0.09
900672	V4-068 E	0.0962	Adder	0.11
917332	Z2-043 E	0.3333	Adder	0.39
917342	Z2-044 E	0.1897	Adder	0.22
917512	Z2-088 E OP1	2.4377	Adder	2.87
918492	AA1-063AE OP	1.4543	Adder	1.71
918512	AA1-065 E OP	1.1457	Adder	1.35
918532	AA1-067 E	0.2097	Adder	0.25
919692	AA2-053 E OP	1.3787	Adder	1.62
919702	AA2-057 E OP	1.1362	Adder	1.34
920042	AA2-088 E OP	3.4540	Adder	4.06
920592	AA2-165 E	0.1562	Adder	0.18
922923	AB1-081 E OP	1.2371	Adder	1.46
923262	AB1-132 C OP (Suspended)	6.0026	Adder	7.06
923263	AB1-132 E OP (Suspended)	2.5725	Adder	3.03
923573	AB1-173 E OP	0.4704	Adder	0.55
923852	AB2-025 E	0.9025	50/50	0.9025

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923991	AB2-040 C O1	3.2852	Adder	3.86
923992	AB2-040 E O1	2.6879	Adder	3.16
924022	AB2-043 E O1	0.7846	Adder	0.92
924152	AB2-059 E OP	1.7525	Adder	2.06
924162	AB2-060 E OP	1.1761	Adder	1.38
924301	AB2-077 C O1 (Suspended)	0.5570	Adder	0.66
924302	AB2-077 E O1 (Suspended)	0.3713	Adder	0.44
924311	AB2-078 C O1 (Suspended)	0.5570	Adder	0.66
924312	AB2-078 E O1 (Suspended)	0.3713	Adder	0.44
924321	AB2-079 C O1 (Suspended)	0.5570	Adder	0.66
924322	AB2-079 E O1 (Suspended)	0.3713	Adder	0.44
925122	AB2-169 E	1.5324	Adder	1.8
925591	AC1-034 C	2.2035	Adder	2.59
925592	AC1-034 E	1.6623	Adder	1.96
925785	AC1-054 E	1.1377	Adder	1.34
926070	AC1-086 C	8.8395	Adder	10.4
926071	AC1-086 E	4.0232	Adder	4.73
926201	AC1-098 C	2.0490	Adder	2.41
926202	AC1-098 E	1.2207	Adder	1.44
926211	AC1-099 C	0.6866	Adder	0.81
926212	AC1-099 E	0.4033	Adder	0.47
926274	AC1-105 E	0.7227	Adder	0.85
927024	AC1-189 C	2.5800	Adder	3.04
927025	AC1-189 E	1.2852	Adder	1.51
927145	AC1-208 C	3.1230	Adder	3.67
927146	AC1-208 E	1.3811	Adder	1.62
932581	AC2-078 C O1	4.4189	50/50	4.4189
932582	AC2-078 E O1	7.2097	50/50	7.2097
932591	AC2-079 C O1	4.1509	50/50	4.1509
932592	AC2-079 E O1	6.7725	50/50	6.7725
932631	AC2-084 C	2.9209	Adder	3.44
932632	AC2-084 E	1.4386	Adder	1.69
933991	AD1-023 C	3.3267	Adder	3.91
933992	AD1-023 E	1.8111	Adder	2.13
934331	AD1-057 C O1	3.7015	Adder	4.35
934332	AD1-057 E O1	1.9746	Adder	2.32
934575	AD1-082 C	8.2092	50/50	8.2092
934576	AD1-082 E	4.6829	50/50	4.6829
934615	AD1-087 C	2.1462	Adder	2.52
934616	AD1-087 E	0.9184	Adder	1.08
935171	AD1-152 C O1	2.3574	Adder	2.77
935172	AD1-152 E O1	1.5716	Adder	1.85
936361	AD2-046 C O1	2.6648	Adder	3.14
936362	AD2-046 E O1	1.2254	Adder	1.44
936401	AD2-051 C O1	2.5352	Adder	2.98
936402	AD2-051 E O1	1.0886	Adder	1.28
936485	AD2-063 C	3.9436	Adder	4.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936486	AD2-063 E	2.6291	Adder	3.09
936661	AD2-085 C	1.6231	Adder	1.91
936662	AD2-085 E	2.6482	Adder	3.12
936761	AD2-097 C	-0.5997	Adder	-0.71
936762	AD2-097 E	-2.9985	Adder	-3.53
937481	AD2-202 C O1	0.6286	Adder	0.74
937482	AD2-202 E O1	0.3536	Adder	0.42
938222	AE1-035 E	0.3151	Adder	0.37
938494	AE1-068 C1	10.2514	Adder	12.06
938497	AE1-068 C2	10.2514	Adder	12.06
938498	AE1-068 E1	5.6669	Adder	6.67
938499	AE1-068 E2	5.6669	Adder	6.67
938504	AE1-069 C1	7.8127	Adder	9.19
938507	AE1-069 C2	8.4240	Adder	9.91
938508	AE1-069 E1	4.4444	Adder	5.23
938509	AE1-069 E2	4.7882	Adder	5.63
938634	AE1-085 C	9.8700	50/50	9.8700
938635	AE1-085 E	4.9350	50/50	4.9350
938771	AE1-103 C	1.0955	Adder	1.29
938772	AE1-103 E	1.5128	Adder	1.78
939181	AE1-148 C	2.6209	Adder	3.08
939182	AE1-148 E	1.7473	Adder	2.06
939195	AE1-149 C	12.9252	50/50	12.9252
939196	AE1-149 E	8.6168	50/50	8.6168
939414	AE1-173 C1	8.5009	Adder	10.0
939415	AE1-173 C2	7.2865	Adder	8.57
939416	AE1-173 C3	8.5009	Adder	10.0
939423	AE1-173 E1	5.6673	Adder	6.67
939424	AE1-173 E2	4.8576	Adder	5.71
939425	AE1-173 E3	5.6673	Adder	6.67
940061	AE2-000BC O1	10.9500	50/50	10.9500
940062	AE2-000BE O1	7.3000	50/50	7.3000
940471	AE2-031 C	11.1620	Adder	13.13
940472	AE2-031 E	7.4413	Adder	8.75
940481	AE2-033 C	12.5748	50/50	12.5748
940482	AE2-033 E	8.4774	50/50	8.4774
940541	AE2-040	2.2854	50/50	2.2854
940571	AE2-044 C	1.4432	Adder	1.7
940572	AE2-044 E	0.6185	Adder	0.73
940651	AE2-052	4.3084	50/50	4.3084
940661	AE2-053 O1	0.9707	Adder	1.14
941031	AE2-094 C	13.4468	Adder	15.82
941032	AE2-094 E	6.0225	Adder	7.09
941101	AE2-104 C O1	0.9308	Adder	1.1
941102	AE2-104 E O1	1.4799	Adder	1.74
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.1775	Adder	0.21
942161	AE2-228 C	-1.0818	Adder	-1.27
942341	AE2-247 C	0.7076	Adder	0.83
942342	AE2-247 E	0.9772	Adder	1.15
942451	AE2-258	0.6546	Adder	0.77
942471	AE2-260 C O1	9.6379	50/50	9.6379

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942472	AE2-260 E O1	13.6701	50/50	13.6701
942931	AE2-313 C	12.0649	Adder	14.19
942932	AE2-313 E	8.0433	Adder	9.46
943171	AE2-346 C	0.4335	Adder	0.51
943172	AE2-346 E	0.1858	Adder	0.22
943461	AF1-017 C	0.6403	Adder	0.75
943462	AF1-017 E	1.0446	Adder	1.23
943911	AF1-059	6.2447	Adder	7.35
944011	AF1-069 C	4.3936	Adder	5.17
944012	AF1-069 E	1.7068	Adder	2.01
944141	AF1-082	0.9278	Adder	1.09
945811	AF1-246 C O1	2.2484	Adder	2.65
945812	AF1-246 E O1	3.1049	Adder	3.65
946011	AF1-266	10.5261	50/50	10.5261
946261	AF1-291 C	-1.8432	Adder	-2.17
946281	AF1-292 C	0.7419	Adder	0.87
946282	AF1-292 E	0.5002	Adder	0.59
957481	AF2-042 C	16.0599	Adder	18.89
957482	AF2-042 E	10.7066	Adder	12.6
957521	AF2-046 C	5.3740	Adder	6.32
957522	AF2-046 E	2.7031	Adder	3.18
957861	AF2-080 C	2.3432	Adder	2.76
957862	AF2-080 E	1.0388	Adder	1.22
958161	AF2-110 C	0.3837	Adder	0.45
958162	AF2-110 E	0.6002	Adder	0.71
959511	AF2-242 C	2.0142	Adder	2.37
959512	AF2-242 E	1.5666	Adder	1.84
959651	AF2-256 C	-0.2705	Adder	-0.32
959751	AF2-266	2.4582	Adder	2.89
960081	AF2-299 C	1.2504	Adder	1.47
960082	AF2-299 E	0.8336	Adder	0.98
961091	AF2-400 C	0.1440	Adder	0.17
961092	AF2-400 E	0.2362	Adder	0.28
961671	AG1-007 C	0.2032	Adder	0.45
961672	AG1-007 E	0.1135	Adder	0.25
961681	AG1-008 C	2.8539	Adder	6.33
961682	AG1-008 E	1.4270	Adder	3.17
961851	AG1-027 C	2.5785	Adder	5.72
961852	AG1-027 E	1.4254	Adder	3.16
961931	AG1-036 C	0.2261	Adder	0.5
961932	AG1-036 E	0.1507	Adder	0.33
961941	AG1-037 C	0.0821	Adder	0.18
961942	AG1-037 E	0.0547	Adder	0.12
962271	AG1-075 C O2	13.1682	50/50	13.1682
962272	AG1-075 E O2	8.0253	50/50	8.0253
962331	AG1-082 C	0.3283	Adder	0.73
962332	AG1-082 E	0.2188	Adder	0.49
962341	AG1-083 C	0.3283	Adder	0.73
962342	AG1-083 E	0.2188	Adder	0.49
962351	AG1-084 C	0.2822	Adder	0.63
962352	AG1-084 E	0.1881	Adder	0.42
962361	AG1-085 C	0.2822	Adder	0.63

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962362	AG1-085 E	0.1881	Adder	0.42
962441	AG1-093 C O2	2.2592	Adder	5.01
962442	AG1-093 E O2	0.6876	Adder	1.53
962491	AG1-098 C O2	1.7924	Adder	3.98
962492	AG1-098 E O2	1.1950	Adder	2.65
962561	AG1-105 C O2	1.4015	Adder	3.11
962562	AG1-105 E O2	0.9343	Adder	2.07
962571	AG1-106 C	1.3028	Adder	2.89
962572	AG1-106 E	0.5908	Adder	1.31
963041	AG1-153 C	0.9877	Adder	2.19
963042	AG1-153 E	1.4815	Adder	3.29
963111	AG1-160 C	1.0020	Adder	2.22
963112	AG1-160 E	1.5030	Adder	3.34
963291	AG1-178 C O2	10.5295	Adder	23.37
963301	AG1-179 C	1.2378	Adder	2.75
963311	AG1-180	0.6031	Adder	1.34
963351	AG1-184 O2	5.6727	Adder	12.59
964241	AG1-285 C O2	2.1658	Adder	4.81
964242	AG1-285 E O2	1.4439	Adder	3.21
964491	AG1-312 C O1	2.7943	Adder	6.2
964492	AG1-312 E O1	0.6986	Adder	1.55
964501	AG1-313 C O2	0.8531	Adder	1.89
964502	AG1-313 E O2	0.5687	Adder	1.26
964791	AG1-342 C	0.5827	Adder	1.29
964792	AG1-342 E	0.4579	Adder	1.02
964801	AG1-343 C	1.0340	Adder	2.3
964802	AG1-343 E	0.8125	Adder	1.8
964931	AG1-357 C O2	2.7927	Adder	6.2
964932	AG1-357 E O2	1.8618	Adder	4.13
965291	AG1-394 C	0.3563	Adder	0.79
965292	AG1-394 E	0.2375	Adder	0.53
965451	AG1-413 C O2	1.3601	Adder	3.02
965452	AG1-413 E O2	0.9067	Adder	2.01
965591	AG1-427 C	1.6752	Adder	3.72
965592	AG1-427 E	1.1192	Adder	2.48
965601	AG1-428 C O2	1.0334	Adder	2.29
965602	AG1-428 E O2	0.6877	Adder	1.53
965691	AG1-437 C O1	1.4056	Adder	3.12
965692	AG1-437 E O1	0.9370	Adder	2.08
965701	AG1-438 C O1	1.4056	Adder	3.12
965702	AG1-438 E O1	0.9370	Adder	2.08
965711	AG1-439 C O1	3.9072	Adder	8.67
965712	AG1-439 E O1	2.6048	Adder	5.78
965721	AG1-440 C	1.2263	Adder	2.72
965722	AG1-440 E	0.8175	Adder	1.81
965731	AG1-441 C	1.2263	Adder	2.72
965732	AG1-441 E	0.8175	Adder	1.81
965741	AG1-442 O1	0.8199	Adder	1.82
965751	AG1-443 O1	0.8199	Adder	1.82
965761	AG1-444 O1	2.0838	Adder	4.63
965771	AG1-445	0.7085	Adder	1.57
965781	AG1-446	0.7085	Adder	1.57

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965811	AG1-449	4.1479	Adder	9.21
966361	AG1-505 C	2.8759	Adder	6.38
966362	AG1-505 E	1.9172	Adder	4.26
966371	AG1-506 C	2.8759	Adder	6.38
966372	AG1-506 E	1.9172	Adder	4.26
966621	AG1-532 C	0.3579	Adder	0.79
966622	AG1-532 E	0.2386	Adder	0.53
966731	AG1-544 C	7.7085	50/50	7.7085
966732	AG1-544 E	4.1355	50/50	4.1355
966741	AG1-545 C	2.5480	50/50	2.5480
966742	AG1-545 E	1.3660	50/50	1.3660
966751	AG1-546 C	2.9153	Adder	6.47
966752	AG1-546 E	1.5643	Adder	3.47
966801	AG1-551 C	0.3386	Adder	0.75
966802	AG1-551 E	0.1451	Adder	0.32
966811	AG1-552 C	0.4246	Adder	0.94
966812	AG1-552 E	0.1820	Adder	0.4
WEC	WEC	0.2712	Confirmed LTF	0.2712
LGEE	LGEE	0.5586	Confirmed LTF	0.5586
CPL	CPL	2.9081	Confirmed LTF	2.9081
CBM-W2	CBM-W2	12.0512	Confirmed LTF	12.0512
NY	NY	0.4053	Confirmed LTF	0.4053
TVA	TVA	2.2834	Confirmed LTF	2.2834
O-066	O-066	5.6868	Confirmed LTF	5.6868
SIGE	SIGE	0.1887	Confirmed LTF	0.1887
CBM-S2	CBM-S2	34.5460	Confirmed LTF	34.5460
CBM-S1	CBM-S1	0.5685	Confirmed LTF	0.5685
G-007	G-007	0.8946	Confirmed LTF	0.8946
MEC	MEC	1.6351	Confirmed LTF	1.6351
LAGN	LAGN	2.8385	Confirmed LTF	2.8385
AA2-074	AA2-074	1.9206	LTF	1.9206
CBM-W1	CBM-W1	11.3282	Confirmed LTF	11.3282

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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
174208081	314301	6HARR205	DVP	314346	6TYLER	DVP	1	DVP_P4-2: 562T563	breaker	541.0	138.42	139.52	DC	13.26

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.1792	Adder	3.74
314314	3LOCKS	0.4088	50/50	0.4088
314435	6SAPONY	0.3502	50/50	0.3502
314572	3EMPORIA	0.2540	50/50	0.2540
316088	AB2-174 E	3.0969	Adder	3.64
316096	AB2-100 C1	0.6471	50/50	0.6471
316097	AB2-100 E1	2.0201	50/50	2.0201
316098	AB2-100 C2	0.6471	50/50	0.6471
316099	AB2-100 E2	2.0201	50/50	2.0201
316108	AB2-160 C	7.8779	50/50	7.8779
316109	AB2-160 E	12.8533	50/50	12.8533
316129	AC1-054 C	2.5521	Adder	3.0
917342	Z2-044 E	0.1948	Adder	0.23
918492	AA1-063AE OP	1.4131	Adder	1.66
919692	AA2-053 E OP	1.3986	Adder	1.65
919702	AA2-057 E OP	1.1622	Adder	1.37
920592	AA2-165 E	0.1597	Adder	0.19
923262	AB1-132 C OP (Suspended)	6.3060	Adder	7.42
923263	AB1-132 E OP (Suspended)	2.7026	Adder	3.18
923573	AB1-173 E OP	0.4958	Adder	0.58
923852	AB2-025 E	0.9974	50/50	0.9974
923991	AB2-040 C O1	3.4625	Adder	4.07
923992	AB2-040 E O1	2.8329	Adder	3.33
925785	AC1-054 E	1.1757	Adder	1.38
926070	AC1-086 C	9.2864	Adder	10.93
926071	AC1-086 E	4.2266	Adder	4.97
926201	AC1-098 C	2.0646	Adder	2.43
926202	AC1-098 E	1.2300	Adder	1.45
926211	AC1-099 C	0.6919	Adder	0.81
926212	AC1-099 E	0.4063	Adder	0.48
927145	AC1-208 C	3.1800	Adder	3.74
927146	AC1-208 E	1.4063	Adder	1.65
932631	AC2-084 C	2.9432	Adder	3.46
932632	AC2-084 E	1.4496	Adder	1.71
934331	AD1-057 C O1	3.8589	Adder	4.54
934332	AD1-057 E O1	2.0585	Adder	2.42
936761	AD2-097 C	-0.6246	Adder	-0.73
936762	AD2-097 E	-3.1229	Adder	-3.67
938494	AE1-068_C1	10.9275	Adder	12.86
938497	AE1-068_C2	10.9275	Adder	12.86

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938498	AE1-068_E1	6.0407	Adder	7.11
938499	AE1-068_E2	6.0407	Adder	7.11
938504	AE1-069_C1	8.3280	Adder	9.8
938507	AE1-069_C2	8.9795	Adder	10.56
938508	AE1-069_E1	4.7375	Adder	5.57
938509	AE1-069_E2	5.1040	Adder	6.0
940431	AE2-027 C O1	11.6849	50/50	11.6849
940432	AE2-027 E O1	7.7899	50/50	7.7899
940471	AE2-031 C	11.9030	Adder	14.0
940472	AE2-031 E	7.9353	Adder	9.34
940481	AE2-033 C	13.8689	50/50	13.8689
940482	AE2-033 E	9.3498	50/50	9.3498
940541	AE2-040	2.5257	50/50	2.5257
941031	AE2-094 C	14.3397	Adder	16.87
941032	AE2-094 E	6.4224	Adder	7.56
942001	AE2-212 C	7.6042	50/50	7.6042
942002	AE2-212 E	5.0694	50/50	5.0694
942161	AE2-228 C	-2.0705	Adder	-2.44
942371	AE2-250 C O1	13.9936	50/50	13.9936
942372	AE2-250 E O1	7.3855	50/50	7.3855
942471	AE2-260 C O1	10.4773	50/50	10.4773
942472	AE2-260 E O1	14.8607	50/50	14.8607
942931	AE2-313 C	12.8656	Adder	15.14
942932	AE2-313 E	8.5771	Adder	10.09
943911	AF1-059	6.6545	Adder	7.83
944011	AF1-069 C	4.6853	Adder	5.51
944012	AF1-069 E	1.8201	Adder	2.14
945811	AF1-246 C O1	2.3940	Adder	2.82
945812	AF1-246 E O1	3.3061	Adder	3.89
946011	AF1-266	11.6093	50/50	11.6093
946261	AF1-291 C	-1.2641	Adder	-1.49
946281	AF1-292 C	0.9362	50/50	0.9362
946282	AF1-292 E	0.6311	50/50	0.6311
957481	AF2-042 C	17.1003	Adder	20.12
957482	AF2-042 E	11.4002	Adder	13.41
958141	AF2-108	4.4863	50/50	4.4863
959651	AF2-256 C	-0.5176	Adder	-0.61
959671	AF2-258 C	1.9010	50/50	1.9010
959672	AF2-258 E	1.2674	50/50	1.2674
959681	AF2-259 C	6.7295	50/50	6.7295
959682	AF2-259 E	4.4863	50/50	4.4863
960081	AF2-299 C	1.5779	50/50	1.5779
960082	AF2-299 E	1.0519	50/50	1.0519
962271	AG1-075 C O2	14.5234	50/50	14.5234
962272	AG1-075 E O2	8.8511	50/50	8.8511
962571	AG1-106 C	1.3687	Adder	3.04
962572	AG1-106 E	0.6207	Adder	1.38
963041	AG1-153 C	1.0525	Adder	2.34
963042	AG1-153 E	1.5788	Adder	3.5
963111	AG1-160 C	1.0680	Adder	2.37
963112	AG1-160 E	1.6019	Adder	3.56
963291	AG1-178 C O2	11.0887	Adder	24.61

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963301	AG1-179 C	1.3223	Adder	2.94
963311	AG1-180	0.6443	Adder	1.43
963351	AG1-184 O2	5.9740	Adder	13.26
964241	AG1-285 C O2	2.3067	Adder	5.12
964242	AG1-285 E O2	1.5378	Adder	3.41
964501	AG1-313 C O2	0.8554	Adder	1.9
964502	AG1-313 E O2	0.5703	Adder	1.27
965451	AG1-413 C O2	1.4484	Adder	3.22
965452	AG1-413 E O2	0.9656	Adder	2.14
965601	AG1-428 C O2	1.1039	Adder	2.45
965602	AG1-428 E O2	0.7346	Adder	1.63
965811	AG1-449	4.4233	Adder	9.82
966361	AG1-505 C	3.0648	Adder	6.8
966362	AG1-505 E	2.0432	Adder	4.54
966371	AG1-506 C	3.0648	Adder	6.8
966372	AG1-506 E	2.0432	Adder	4.54
966621	AG1-532 C	0.8520	50/50	0.8520
966622	AG1-532 E	0.5680	50/50	0.5680
966751	AG1-546 C	3.0090	Adder	6.68
966752	AG1-546 E	1.6145	Adder	3.58
966811	AG1-552 C	0.4343	Adder	0.96
966812	AG1-552 E	0.1861	Adder	0.41
WEC	WEC	0.2876	Confirmed LTF	0.2876
LGEE	LGEE	0.5912	Confirmed LTF	0.5912
CPL	CPL	3.0467	Confirmed LTF	3.0467
CBM-W2	CBM-W2	12.7142	Confirmed LTF	12.7142
NY	NY	0.4186	Confirmed LTF	0.4186
TVA	TVA	2.4052	Confirmed LTF	2.4052
O-066	O-066	5.8888	Confirmed LTF	5.8888
SIGE	SIGE	0.1976	Confirmed LTF	0.1976
CBM-S2	CBM-S2	36.2790	Confirmed LTF	36.2790
CBM-S1	CBM-S1	0.5993	Confirmed LTF	0.5993
G-007	G-007	0.9261	Confirmed LTF	0.9261
MEC	MEC	1.7288	Confirmed LTF	1.7288
LAGN	LAGN	2.9908	Confirmed LTF	2.9908
AA2-074	AA2-074	2.0124	LTF	2.0124
CBM-W1	CBM-W1	12.0151	Confirmed LTF	12.0151

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174009383	314316	6LOCKS	DVP	314301	6HARR205	DVP	1	DVP_P4-2: 562T563	breaker	541.0	162.93	164.04	DC	13.26

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174405241	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P4-2: 562T563	breaker	541.0	169.35	170.4	DC	12.59

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.0164	Adder	3.55
314331	6POE	4.8056	50/50	4.8056
314435	6SAPONY	0.3169	50/50	0.3169
314539	3UNCAMP	1.8472	Adder	2.17
314541	3WATKINS	0.2148	Adder	0.25
314572	3EMPORIA	0.2022	Adder	0.24
315073	1STONECA	-1.6562	Adder	-1.95
315131	1EDGECEMA (Deactivation : 22/04/2019)	2.9950	Adder	3.52
315132	1EDGECEMB (Deactivation : 22/04/2019)	2.9950	Adder	3.52
316083	AB2-161 C	3.6022	50/50	3.6022
316084	AB2-161 E	5.8773	50/50	5.8773
316088	AB2-174 E	2.9238	Adder	3.44
316096	AB2-100 C1	0.5969	50/50	0.5969
316097	AB2-100 E1	1.8635	50/50	1.8635
316098	AB2-100 C2	0.5969	50/50	0.5969
316099	AB2-100 E2	1.8635	50/50	1.8635
316103	AB2-015 C	2.6660	Adder	3.14
316104	AB2-015 E	2.1861	Adder	2.57
316118	AC1-105 C	1.4709	Adder	1.73
316129	AC1-054 C	2.4696	Adder	2.91
316140	AB2-099 C (Suspended)	0.1806	Adder	0.21
316141	AB2-099 E (Suspended)	0.0774	Adder	0.09
900672	V4-068 E	0.0962	Adder	0.11
917332	Z2-043 E	0.3333	Adder	0.39
917342	Z2-044 E	0.1897	Adder	0.22
917512	Z2-088 E OP1	2.4377	Adder	2.87
918492	AA1-063AE OP	1.4543	Adder	1.71
918512	AA1-065 E OP	1.1457	Adder	1.35
918532	AA1-067 E	0.2097	Adder	0.25
919692	AA2-053 E OP	1.3787	Adder	1.62
919702	AA2-057 E OP	1.1362	Adder	1.34
920042	AA2-088 E OP	3.4540	Adder	4.06
920592	AA2-165 E	0.1562	Adder	0.18
922923	AB1-081 E OP	1.2371	Adder	1.46
923262	AB1-132 C OP (Suspended)	6.0026	Adder	7.06
923263	AB1-132 E OP (Suspended)	2.5725	Adder	3.03
923573	AB1-173 E OP	0.4704	Adder	0.55
923852	AB2-025 E	0.9025	50/50	0.9025

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
923991	AB2-040 C O1	3.2852	Adder	3.86
923992	AB2-040 E O1	2.6879	Adder	3.16
924022	AB2-043 E O1	0.7846	Adder	0.92
924152	AB2-059 E OP	1.7525	Adder	2.06
924162	AB2-060 E OP	1.1761	Adder	1.38
924301	AB2-077 C O1 (Suspended)	0.5570	Adder	0.66
924302	AB2-077 E O1 (Suspended)	0.3713	Adder	0.44
924311	AB2-078 C O1 (Suspended)	0.5570	Adder	0.66
924312	AB2-078 E O1 (Suspended)	0.3713	Adder	0.44
924321	AB2-079 C O1 (Suspended)	0.5570	Adder	0.66
924322	AB2-079 E O1 (Suspended)	0.3713	Adder	0.44
925122	AB2-169 E	1.5324	Adder	1.8
925591	AC1-034 C	2.2035	Adder	2.59
925592	AC1-034 E	1.6623	Adder	1.96
925785	AC1-054 E	1.1377	Adder	1.34
926070	AC1-086 C	8.8395	Adder	10.4
926071	AC1-086 E	4.0232	Adder	4.73
926201	AC1-098 C	2.0490	Adder	2.41
926202	AC1-098 E	1.2207	Adder	1.44
926211	AC1-099 C	0.6866	Adder	0.81
926212	AC1-099 E	0.4033	Adder	0.47
926274	AC1-105 E	0.7227	Adder	0.85
927024	AC1-189 C	2.5800	Adder	3.04
927025	AC1-189 E	1.2852	Adder	1.51
927145	AC1-208 C	3.1230	Adder	3.67
927146	AC1-208 E	1.3811	Adder	1.62
932581	AC2-078 C O1	4.4189	50/50	4.4189
932582	AC2-078 E O1	7.2097	50/50	7.2097
932591	AC2-079 C O1	4.1509	50/50	4.1509
932592	AC2-079 E O1	6.7725	50/50	6.7725
932631	AC2-084 C	2.9209	Adder	3.44
932632	AC2-084 E	1.4386	Adder	1.69
933991	AD1-023 C	3.3267	Adder	3.91
933992	AD1-023 E	1.8111	Adder	2.13
934331	AD1-057 C O1	3.7015	Adder	4.35
934332	AD1-057 E O1	1.9746	Adder	2.32
934575	AD1-082 C	8.2092	50/50	8.2092
934576	AD1-082 E	4.6829	50/50	4.6829
934615	AD1-087 C	2.1462	Adder	2.52
934616	AD1-087 E	0.9184	Adder	1.08
935171	AD1-152 C O1	2.3574	Adder	2.77
935172	AD1-152 E O1	1.5716	Adder	1.85
936361	AD2-046 C O1	2.6648	Adder	3.14
936362	AD2-046 E O1	1.2254	Adder	1.44
936401	AD2-051 C O1	2.5352	Adder	2.98
936402	AD2-051 E O1	1.0886	Adder	1.28
936485	AD2-063 C	3.9436	Adder	4.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936486	AD2-063 E	2.6291	Adder	3.09
936661	AD2-085 C	1.6231	Adder	1.91
936662	AD2-085 E	2.6482	Adder	3.12
936761	AD2-097 C	-0.5997	Adder	-0.71
936762	AD2-097 E	-2.9985	Adder	-3.53
937481	AD2-202 C O1	0.6286	Adder	0.74
937482	AD2-202 E O1	0.3536	Adder	0.42
938222	AE1-035 E	0.3151	Adder	0.37
938494	AE1-068 C1	10.2514	Adder	12.06
938497	AE1-068 C2	10.2514	Adder	12.06
938498	AE1-068 E1	5.6669	Adder	6.67
938499	AE1-068 E2	5.6669	Adder	6.67
938504	AE1-069 C1	7.8127	Adder	9.19
938507	AE1-069 C2	8.4240	Adder	9.91
938508	AE1-069 E1	4.4444	Adder	5.23
938509	AE1-069 E2	4.7882	Adder	5.63
938634	AE1-085 C	9.8700	50/50	9.8700
938635	AE1-085 E	4.9350	50/50	4.9350
938771	AE1-103 C	1.0955	Adder	1.29
938772	AE1-103 E	1.5128	Adder	1.78
939181	AE1-148 C	2.6209	Adder	3.08
939182	AE1-148 E	1.7473	Adder	2.06
939195	AE1-149 C	12.9252	50/50	12.9252
939196	AE1-149 E	8.6168	50/50	8.6168
939414	AE1-173 C1	8.5009	Adder	10.0
939415	AE1-173 C2	7.2865	Adder	8.57
939416	AE1-173 C3	8.5009	Adder	10.0
939423	AE1-173 E1	5.6673	Adder	6.67
939424	AE1-173 E2	4.8576	Adder	5.71
939425	AE1-173 E3	5.6673	Adder	6.67
940061	AE2-000BC O1	10.9500	50/50	10.9500
940062	AE2-000BE O1	7.3000	50/50	7.3000
940471	AE2-031 C	11.1620	Adder	13.13
940472	AE2-031 E	7.4413	Adder	8.75
940481	AE2-033 C	12.5748	50/50	12.5748
940482	AE2-033 E	8.4774	50/50	8.4774
940541	AE2-040	2.2854	50/50	2.2854
940571	AE2-044 C	1.4432	Adder	1.7
940572	AE2-044 E	0.6185	Adder	0.73
940651	AE2-052	4.3084	50/50	4.3084
940661	AE2-053 O1	0.9707	Adder	1.14
941031	AE2-094 C	13.4468	Adder	15.82
941032	AE2-094 E	6.0225	Adder	7.09
941101	AE2-104 C O1	0.9308	Adder	1.1
941102	AE2-104 E O1	1.4799	Adder	1.74
941542	AE2-151 E (Withdrawn : 01/08/2021)	0.1775	Adder	0.21
942161	AE2-228 C	-1.0818	Adder	-1.27
942341	AE2-247 C	0.7076	Adder	0.83
942342	AE2-247 E	0.9772	Adder	1.15
942451	AE2-258	0.6546	Adder	0.77
942471	AE2-260 C O1	9.6379	50/50	9.6379

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942472	AE2-260 E O1	13.6701	50/50	13.6701
942931	AE2-313 C	12.0649	Adder	14.19
942932	AE2-313 E	8.0433	Adder	9.46
943171	AE2-346 C	0.4335	Adder	0.51
943172	AE2-346 E	0.1858	Adder	0.22
943461	AF1-017 C	0.6403	Adder	0.75
943462	AF1-017 E	1.0446	Adder	1.23
943911	AF1-059	6.2447	Adder	7.35
944011	AF1-069 C	4.3936	Adder	5.17
944012	AF1-069 E	1.7068	Adder	2.01
944141	AF1-082	0.9278	Adder	1.09
945811	AF1-246 C O1	2.2484	Adder	2.65
945812	AF1-246 E O1	3.1049	Adder	3.65
946011	AF1-266	10.5261	50/50	10.5261
946261	AF1-291 C	-1.8432	Adder	-2.17
946281	AF1-292 C	0.7419	Adder	0.87
946282	AF1-292 E	0.5002	Adder	0.59
957481	AF2-042 C	16.0599	Adder	18.89
957482	AF2-042 E	10.7066	Adder	12.6
957521	AF2-046 C	5.3740	Adder	6.32
957522	AF2-046 E	2.7031	Adder	3.18
957861	AF2-080 C	2.3432	Adder	2.76
957862	AF2-080 E	1.0388	Adder	1.22
958161	AF2-110 C	0.3837	Adder	0.45
958162	AF2-110 E	0.6002	Adder	0.71
959511	AF2-242 C	2.0142	Adder	2.37
959512	AF2-242 E	1.5666	Adder	1.84
959651	AF2-256 C	-0.2705	Adder	-0.32
959751	AF2-266	2.4582	Adder	2.89
960081	AF2-299 C	1.2504	Adder	1.47
960082	AF2-299 E	0.8336	Adder	0.98
961091	AF2-400 C	0.1440	Adder	0.17
961092	AF2-400 E	0.2362	Adder	0.28
961671	AG1-007 C	0.2032	Adder	0.45
961672	AG1-007 E	0.1135	Adder	0.25
961681	AG1-008 C	2.8539	Adder	6.33
961682	AG1-008 E	1.4270	Adder	3.17
961851	AG1-027 C	2.5785	Adder	5.72
961852	AG1-027 E	1.4254	Adder	3.16
961931	AG1-036 C	0.2261	Adder	0.5
961932	AG1-036 E	0.1507	Adder	0.33
961941	AG1-037 C	0.0821	Adder	0.18
961942	AG1-037 E	0.0547	Adder	0.12
962271	AG1-075 C O2	13.1682	50/50	13.1682
962272	AG1-075 E O2	8.0253	50/50	8.0253
962331	AG1-082 C	0.3283	Adder	0.73
962332	AG1-082 E	0.2188	Adder	0.49
962341	AG1-083 C	0.3283	Adder	0.73
962342	AG1-083 E	0.2188	Adder	0.49
962351	AG1-084 C	0.2822	Adder	0.63
962352	AG1-084 E	0.1881	Adder	0.42
962361	AG1-085 C	0.2822	Adder	0.63

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962362	AG1-085 E	0.1881	Adder	0.42
962441	AG1-093 C O2	2.2592	Adder	5.01
962442	AG1-093 E O2	0.6876	Adder	1.53
962491	AG1-098 C O2	1.7924	Adder	3.98
962492	AG1-098 E O2	1.1950	Adder	2.65
962561	AG1-105 C O2	1.4015	Adder	3.11
962562	AG1-105 E O2	0.9343	Adder	2.07
962571	AG1-106 C	1.3028	Adder	2.89
962572	AG1-106 E	0.5908	Adder	1.31
963041	AG1-153 C	0.9877	Adder	2.19
963042	AG1-153 E	1.4815	Adder	3.29
963111	AG1-160 C	1.0020	Adder	2.22
963112	AG1-160 E	1.5030	Adder	3.34
963291	AG1-178 C O2	10.5295	Adder	23.37
963301	AG1-179 C	1.2378	Adder	2.75
963311	AG1-180	0.6031	Adder	1.34
963351	AG1-184 O2	5.6727	Adder	12.59
964241	AG1-285 C O2	2.1658	Adder	4.81
964242	AG1-285 E O2	1.4439	Adder	3.21
964491	AG1-312 C O1	2.7943	Adder	6.2
964492	AG1-312 E O1	0.6986	Adder	1.55
964501	AG1-313 C O2	0.8531	Adder	1.89
964502	AG1-313 E O2	0.5687	Adder	1.26
964791	AG1-342 C	0.5827	Adder	1.29
964792	AG1-342 E	0.4579	Adder	1.02
964801	AG1-343 C	1.0340	Adder	2.3
964802	AG1-343 E	0.8125	Adder	1.8
964931	AG1-357 C O2	2.7927	Adder	6.2
964932	AG1-357 E O2	1.8618	Adder	4.13
965291	AG1-394 C	0.3563	Adder	0.79
965292	AG1-394 E	0.2375	Adder	0.53
965451	AG1-413 C O2	1.3601	Adder	3.02
965452	AG1-413 E O2	0.9067	Adder	2.01
965591	AG1-427 C	1.6752	Adder	3.72
965592	AG1-427 E	1.1192	Adder	2.48
965601	AG1-428 C O2	1.0334	Adder	2.29
965602	AG1-428 E O2	0.6877	Adder	1.53
965691	AG1-437 C O1	1.4056	Adder	3.12
965692	AG1-437 E O1	0.9370	Adder	2.08
965701	AG1-438 C O1	1.4056	Adder	3.12
965702	AG1-438 E O1	0.9370	Adder	2.08
965711	AG1-439 C O1	3.9072	Adder	8.67
965712	AG1-439 E O1	2.6048	Adder	5.78
965721	AG1-440 C	1.2263	Adder	2.72
965722	AG1-440 E	0.8175	Adder	1.81
965731	AG1-441 C	1.2263	Adder	2.72
965732	AG1-441 E	0.8175	Adder	1.81
965741	AG1-442 O1	0.8199	Adder	1.82
965751	AG1-443 O1	0.8199	Adder	1.82
965761	AG1-444 O1	2.0838	Adder	4.63
965771	AG1-445	0.7085	Adder	1.57
965781	AG1-446	0.7085	Adder	1.57

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965811	AG1-449	4.1479	Adder	9.21
966361	AG1-505 C	2.8759	Adder	6.38
966362	AG1-505 E	1.9172	Adder	4.26
966371	AG1-506 C	2.8759	Adder	6.38
966372	AG1-506 E	1.9172	Adder	4.26
966621	AG1-532 C	0.3579	Adder	0.79
966622	AG1-532 E	0.2386	Adder	0.53
966731	AG1-544 C	7.7085	50/50	7.7085
966732	AG1-544 E	4.1355	50/50	4.1355
966741	AG1-545 C	2.5480	50/50	2.5480
966742	AG1-545 E	1.3660	50/50	1.3660
966751	AG1-546 C	2.9153	Adder	6.47
966752	AG1-546 E	1.5643	Adder	3.47
966801	AG1-551 C	0.3386	Adder	0.75
966802	AG1-551 E	0.1451	Adder	0.32
966811	AG1-552 C	0.4246	Adder	0.94
966812	AG1-552 E	0.1820	Adder	0.4
WEC	WEC	0.2712	Confirmed LTF	0.2712
LGEE	LGEE	0.5586	Confirmed LTF	0.5586
CPL	CPL	2.9081	Confirmed LTF	2.9081
CBM-W2	CBM-W2	12.0512	Confirmed LTF	12.0512
NY	NY	0.4053	Confirmed LTF	0.4053
TVA	TVA	2.2834	Confirmed LTF	2.2834
O-066	O-066	5.6868	Confirmed LTF	5.6868
SIGE	SIGE	0.1887	Confirmed LTF	0.1887
CBM-S2	CBM-S2	34.5460	Confirmed LTF	34.5460
CBM-S1	CBM-S1	0.5685	Confirmed LTF	0.5685
G-007	G-007	0.8946	Confirmed LTF	0.8946
MEC	MEC	1.6351	Confirmed LTF	1.6351
LAGN	LAGN	2.8385	Confirmed LTF	2.8385
AA2-074	AA2-074	1.9206	LTF	1.9206
CBM-W1	CBM-W1	11.3282	Confirmed LTF	11.3282

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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
168691947	314386	6KINGS M	DVP	314296	6PENNINGMAN	DVP	1	DVP_P1-2: LN 567	single	441.8	150.1	151.11	DC	9.89

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)	1.3334	80/20	1.3334
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	9.3903	80/20	9.3903
315120	1GRAVEL4	0.9662	80/20	0.9662
315122	1GRAVEL6	0.9650	80/20	0.9650
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	1.0030	80/20	1.0030
315605	6W1-029WIND	0.4712	80/20	0.4712
315611	6Z1-036WIND	0.4492	80/20	0.4492
316103	AB2-015 C	2.6146	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	4.6637	80/20	4.6637
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	9.2691	Adder	10.9
939415	AE1-173_C2	7.9450	Adder	9.35
939416	AE1-173_C3	9.2691	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	1.0891	80/20	1.0891
940901	AE2-079 C	1.0891	80/20	1.0891
941101	AE2-104 C O1	1.3615	80/20	1.3615
941281	AE2-122 C O1	13.0362	80/20	13.0362
941291	AE2-123 C O1	13.3971	80/20	13.3971
941301	AE2-124 C O1	12.1844	80/20	12.1844
941501	AE2-147 C	6.8922	80/20	6.8922
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	1.0891	80/20	1.0891
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	2.2974	80/20	2.2974
945361	AF1-201 C O1	6.4404	80/20	6.4404
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	1.6364	80/20	1.6364
957821	AF2-076 C	2.3502	80/20	2.3502
957871	AF2-081 C	4.5237	80/20	4.5237
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
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
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.9901	80/20	0.9901

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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 O2	8.2679	Adder	18.35
963351	AG1-184 O2	4.4543	Adder	9.89
963821	AG1-235 C O2	11.0889	80/20	11.0889
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 O2	3.2636	80/20	3.2636
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 O2	4.0100	80/20	4.0100
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
CPL	CPL	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	0.1261	Confirmed LTF	0.1261
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
168691961	314415	6WALR209	DVP	314391	6LIGH209	DVP	1	DVP_P1-2: LN 567	single	441.8	130.0	131.01	DC	9.89

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)	1.3334	80/20	1.3334
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	9.3903	80/20	9.3903
315120	1GRAVEL4	0.9662	80/20	0.9662
315122	1GRAVEL6	0.9650	80/20	0.9650
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	1.0030	80/20	1.0030
315605	6W1-029WIND	0.4712	80/20	0.4712
315611	6Z1-036WIND	0.4492	80/20	0.4492
316103	AB2-015 C	2.6146	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	4.6637	80/20	4.6637
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	9.2691	Adder	10.9
939415	AE1-173_C2	7.9450	Adder	9.35
939416	AE1-173_C3	9.2691	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	1.0891	80/20	1.0891
940901	AE2-079 C	1.0891	80/20	1.0891
941101	AE2-104 C O1	1.3615	80/20	1.3615
941281	AE2-122 C O1	13.0362	80/20	13.0362
941291	AE2-123 C O1	13.3971	80/20	13.3971
941301	AE2-124 C O1	12.1844	80/20	12.1844
941501	AE2-147 C	6.8922	80/20	6.8922
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	1.0891	80/20	1.0891
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	2.2974	80/20	2.2974
945361	AF1-201 C O1	6.4404	80/20	6.4404
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	1.6364	80/20	1.6364
957821	AF2-076 C	2.3502	80/20	2.3502
957871	AF2-081 C	4.5237	80/20	4.5237
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
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
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.9901	80/20	0.9901

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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 O2	8.2679	Adder	18.35
963351	AG1-184 O2	4.4543	Adder	9.89
963821	AG1-235 C O2	11.0889	80/20	11.0889
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 O2	3.2636	80/20	3.2636
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 O2	4.0100	80/20	4.0100
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
CPL	CPL	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	0.1261	Confirmed LTF	0.1261
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
163600761	314902	8CARSON	DVP	314914	8MDLTHAN	DVP	1	DVP_P4-2: 557T574	breaker	3938.0	144.15	144.72	DC	66.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314295	6BIRDNECK	0.0713	50/50	0.0713
314466	6FENTRES	3.7577	50/50	3.7577
314491	3PENDLTN	0.5318	50/50	0.5318
314550	6HICKORY	6.9329	50/50	6.9329
315102	1BRUNSWICKG1	15.1790	50/50	15.1790
315103	1BRUNSWICKG2	15.1790	50/50	15.1790
315104	1BRUNSWICKG3	15.1790	50/50	15.1790
315105	1BRUNSWICKS1	31.5343	50/50	31.5343
315108	1ELIZAR1	5.1909	50/50	5.1909
315109	1ELIZAR2	5.1008	50/50	5.1008
315110	1ELIZAR3	5.2574	50/50	5.2574
315233	1SURRY 2	40.9975	50/50	40.9975
315241	1Z1-086 GT1	19.5723	50/50	19.5723
315242	1Z1-086 GT2	19.5723	50/50	19.5723
315243	1Z1-086 GT3	19.5723	50/50	19.5723
315244	1Z1-086 ST	34.0240	50/50	34.0240
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	87.4436	50/50	87.4436
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	87.4436	50/50	87.4436
316114	AB2-068 ST (Withdrawn : 01/11/2021)	151.4868	50/50	151.4868
316134	AC1-107 G1	164.2031	50/50	164.2031
316135	AC1-107 G2	164.2031	50/50	164.2031
316136	AC1-107 G3	164.2339	50/50	164.2339
916192	Z1-068 E	3.1628	50/50	3.1628
925522	AC1-027 E	1.9262	50/50	1.9262
926754	AC1-161 C	54.4278	50/50	54.4278
926755	AC1-161 E	23.2338	50/50	23.2338
933294	AC2-141 C	54.4278	50/50	54.4278
933295	AC2-141 E	23.2338	50/50	23.2338
933731	AC2-196 C	0.4782	50/50	0.4782
933732	AC2-196 E	2.0186	50/50	2.0186
934061	AD1-033 C	12.7189	50/50	12.7189
934062	AD1-033 E	8.4792	50/50	8.4792
937221	AD2-160 C O1	9.8738	50/50	9.8738
937222	AD2-160 E O1	5.1777	50/50	5.1777
938494	AE1-068_C1	58.7247	50/50	58.7247
938497	AE1-068_C2	58.7247	50/50	58.7247
938498	AE1-068_E1	32.4627	50/50	32.4627
938499	AE1-068_E2	32.4627	50/50	32.4627
938504	AE1-069_C1	44.7548	50/50	44.7548

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938507	AE1-069_C2	48.2564	50/50	48.2564
938508	AE1-069_E1	25.4596	50/50	25.4596
938509	AE1-069_E2	27.4292	50/50	27.4292
939414	AE1-173_C1	60.3254	50/50	60.3254
939415	AE1-173_C2	51.7075	50/50	51.7075
939416	AE1-173_C3	60.3254	50/50	60.3254
939423	AE1-173_E1	40.2170	50/50	40.2170
939424	AE1-173_E2	34.4717	50/50	34.4717
939425	AE1-173_E3	40.2170	50/50	40.2170
940471	AE2-031 C	64.0285	50/50	64.0285
940472	AE2-031 E	42.6857	50/50	42.6857
940641	AE2-051 C O1	33.9597	50/50	33.9597
940642	AE2-051 E O1	22.6398	50/50	22.6398
941031	AE2-094 C	77.1779	50/50	77.1779
941032	AE2-094 E	34.5661	50/50	34.5661
941281	AE2-122 C O1	47.8845	50/50	47.8845
941282	AE2-122 E O1	193.2256	50/50	193.2256
941291	AE2-123 C O1	49.2105	50/50	49.2105
941292	AE2-123 E O1	191.8997	50/50	191.8997
941301	AE2-124 C O1	44.7802	50/50	44.7802
941302	AE2-124 E O1	196.4900	50/50	196.4900
942401	AE2-253 C	10.3855	50/50	10.3855
942402	AE2-253 E	4.6660	50/50	4.6660
942931	AE2-313 C	69.2012	50/50	69.2012
942932	AE2-313 E	46.1341	50/50	46.1341
944011	AF1-069 C	25.2169	50/50	25.2169
944012	AF1-069 E	9.7962	50/50	9.7962
944581	AF1-123 C O1	82.7966	50/50	82.7966
944582	AF1-123 E O1	189.5810	50/50	189.5810
944591	AF1-124 C O1	82.7966	50/50	82.7966
944592	AF1-124 E O1	189.5810	50/50	189.5810
944601	AF1-125 C O1	82.7966	50/50	82.7966
944602	AF1-125 E O1	189.5810	50/50	189.5810
945811	AF1-246 C O1	12.7441	50/50	12.7441
945812	AF1-246 E O1	17.5989	50/50	17.5989
957481	AF2-042 C	91.0290	50/50	91.0290
957482	AF2-042 E	60.6860	50/50	60.6860
963041	AG1-153 C	10.6506	50/50	10.6506
963042	AG1-153 E	15.9759	50/50	15.9759
963111	AG1-160 C	10.8189	50/50	10.8189
963112	AG1-160 E	16.2284	50/50	16.2284
963291	AG1-178 C O2	122.8013	50/50	122.8013
963351	AG1-184 O2	66.1587	50/50	66.1587
963821	AG1-235 C O2	40.8955	50/50	40.8955
963822	AG1-235 E O2	27.2637	50/50	27.2637
964241	AG1-285 C O2	23.1900	50/50	23.1900
964242	AG1-285 E O2	15.4600	50/50	15.4600
964951	AG1-359 O1	45.4635	50/50	45.4635
965181	AG1-383 C	4.6653	50/50	4.6653
965182	AG1-383 E	1.3817	50/50	1.3817
965811	AG1-449	44.8936	50/50	44.8936
966361	AG1-505 C	30.9933	50/50	30.9933

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966362	AG1-505 E	20.6622	50/50	20.6622
966371	AG1-506 C	30.9933	50/50	30.9933
966372	AG1-506 E	20.6622	50/50	20.6622
WEC	WEC	1.2065	Confirmed LTF	1.2065
LGEE	LGEE	2.5157	Confirmed LTF	2.5157
CPL	CPL	13.0603	Confirmed LTF	13.0603
CBM-W2	CBM-W2	54.7277	Confirmed LTF	54.7277
NY	NY	2.6555	Confirmed LTF	2.6555
TVA	TVA	10.4468	Confirmed LTF	10.4468
O-066	O-066	36.7593	Confirmed LTF	36.7593
SIG	SIG	1.0235	Confirmed LTF	1.0235
CBM-S2	CBM-S2	156.9236	Confirmed LTF	156.9236
CBM-S1	CBM-S1	2.5969	Confirmed LTF	2.5969
G-007	G-007	5.7760	Confirmed LTF	5.7760
MEC	MEC	7.3412	Confirmed LTF	7.3412
LAGN	LAGN	12.9413	Confirmed LTF	12.9413
AA2-074	AA2-074	8.6256	LTF	8.6256
CBM-W1	CBM-W1	49.8832	Confirmed LTF	49.8832

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173824211	314902	8CARSON	DVP	314282	6CARSON	DVP	1	DVP_P4-2: 562T563	breaker	1039.7	185.28	188.81	DC	36.72

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-4.0459	Adder	-4.76
315073	1STONECA	-3.6129	Adder	-4.25
315102	1BRUNSWICKG1	8.9192	50/50	8.9192
315103	1BRUNSWICKG2	8.9192	50/50	8.9192
315104	1BRUNSWICKG3	8.9192	50/50	8.9192
315105	1BRUNSWICKS1	18.5296	50/50	18.5296
315153	1CLOVER1	10.2303	50/50	10.2303
315154	1CLOVER2	10.1283	50/50	10.1283
315241	1Z1-086 GT1	11.5861	50/50	11.5861
315242	1Z1-086 GT2	11.5861	50/50	11.5861
315243	1Z1-086 GT3	11.5861	50/50	11.5861
315244	1Z1-086 ST	20.1410	50/50	20.1410
316132	AB2-190 C	-6.9306	Adder	-8.15
923991	AB2-040 C O1	-4.4065	Adder	-5.18
927251	AC1-221 C	1.0082	Adder	1.19
927252	AC1-221 E	1.0082	Adder	1.19
927261	AC1-222 C	1.4920	Adder	1.76
927262	AC1-222 E	1.4203	Adder	1.67
932581	AC2-078 C O1	-3.3783	Adder	-3.97
932761	AC2-100 C	2.3202	Adder	2.73
932762	AC2-100 E	1.1325	Adder	1.33
934311	AD1-055 C	1.0359	Adder	1.22
934312	AD1-055 E	0.2671	Adder	0.31
934341	AD1-058 C	2.5274	Adder	2.97
934342	AD1-058 E	0.6422	Adder	0.76
934615	AD1-087 C	6.4007	50/50	6.4007
934616	AD1-087 E	2.7390	50/50	2.7390
934625	AD1-088 C	7.8904	50/50	7.8904
934626	AD1-088 E	2.0665	50/50	2.0665
934991	AD1-131 C	0.8286	Adder	0.97
934992	AD1-131 E	0.5524	Adder	0.65
935171	AD1-152 C O1	7.0306	50/50	7.0306
935172	AD1-152 E O1	4.6870	50/50	4.6870
936761	AD2-097 C	-0.9237	Adder	-1.09
936762	AD2-097 E	-4.6184	Adder	-5.43
937481	AD2-202 C O1	1.8748	50/50	1.8748
937482	AD2-202 E O1	1.0546	50/50	1.0546
938494	AE1-068_C1	34.9451	50/50	34.9451
938497	AE1-068_C2	34.9451	50/50	34.9451
938498	AE1-068_E1	19.3175	50/50	19.3175
938499	AE1-068_E2	19.3175	50/50	19.3175

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938504	AE1-069_C1	26.6320	50/50	26.6320
938507	AE1-069_C2	28.7157	50/50	28.7157
938508	AE1-069_E1	15.1501	50/50	15.1501
938509	AE1-069_E2	16.3222	50/50	16.3222
939414	AE1-173_C1	27.3622	50/50	27.3622
939415	AE1-173_C2	23.4533	50/50	23.4533
939416	AE1-173_C3	27.3622	50/50	27.3622
939423	AE1-173_E1	18.2414	50/50	18.2414
939424	AE1-173_E2	15.6355	50/50	15.6355
939425	AE1-173_E3	18.2414	50/50	18.2414
940063	AE2-000B BAT	16.0180	50/50	16.0180
940471	AE2-031 C	38.3252	50/50	38.3252
940472	AE2-031 E	25.5502	50/50	25.5502
940542	AE2-040 BAT	5.2575	50/50	5.2575
940652	AE2-052 BAT	4.0268	50/50	4.0268
941031	AE2-094 C	46.3589	50/50	46.3589
941032	AE2-094 E	20.7631	50/50	20.7631
941791	AE2-182 C	1.2819	50/50	1.2819
941792	AE2-182 E	0.5968	50/50	0.5968
942151	AE2-227 C	-0.8075	Adder	-0.95
942161	AE2-228 C	-1.9053	Adder	-2.24
942931	AE2-313 C	41.3896	50/50	41.3896
942932	AE2-313 E	27.5931	50/50	27.5931
943901	AF1-058 C	0.8269	Adder	0.97
943902	AF1-058 E	0.5513	Adder	0.65
944011	AF1-069 C	15.1472	50/50	15.1472
944012	AF1-069 E	5.8844	50/50	5.8844
945811	AF1-246 C O1	7.0606	50/50	7.0606
945812	AF1-246 E O1	9.7504	50/50	9.7504
946012	AF1-266 BAT	23.7528	50/50	23.7528
946261	AF1-291 C	-1.8850	Adder	-2.22
957481	AF2-042 C	50.4330	50/50	50.4330
957482	AF2-042 E	33.6220	50/50	33.6220
958142	AF2-108 BAT	1.9766	50/50	1.9766
959641	AF2-255 C	-0.2019	Adder	-0.24
959651	AF2-256 C	-0.4763	Adder	-0.56
959751	AF2-266	7.3435	50/50	7.3435
960061	AF2-297 C	3.3077	Adder	3.89
960062	AF2-297 E	2.2051	Adder	2.59
962193	AG1-064 BAT	0.7931	Merchant Transmission	0.7931
962203	AG1-065 BAT	0.7931	Merchant Transmission	0.7931
962441	AG1-093 C O2	11.5874	50/50	11.5874
962442	AG1-093 E O2	3.5266	50/50	3.5266
963041	AG1-153 C	6.2583	50/50	6.2583
963042	AG1-153 E	9.3874	50/50	9.3874
963111	AG1-160 C	6.4044	50/50	6.4044
963112	AG1-160 E	9.6066	50/50	9.6066
963271	AG1-176 C O2	2.9499	Adder	6.55
963272	AG1-176 E O2	1.9666	Adder	4.37
963291	AG1-178 C O2	68.1497	50/50	68.1497
963312	AG1-180 BAT	1.4723	Merchant Transmission	1.4723
963351	AG1-184 O2	36.7153	50/50	36.7153

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964241	AG1-285 C O2	12.9555	50/50	12.9555
964242	AG1-285 E O2	8.6370	50/50	8.6370
964261	AG1-287 C	0.3287	Adder	0.73
964262	AG1-287 E	0.2191	Adder	0.49
964471	AG1-310 C	0.4518	Adder	1.0
964472	AG1-310 E	0.2225	Adder	0.49
964841	AG1-347 C	5.8800	50/50	5.8800
964842	AG1-347 E	4.6200	50/50	4.6200
965811	AG1-449	26.8717	50/50	26.8717
966361	AG1-505 C	18.0837	50/50	18.0837
966362	AG1-505 E	12.0558	50/50	12.0558
966371	AG1-506 C	18.0837	50/50	18.0837
966372	AG1-506 E	12.0558	50/50	12.0558
966733	AG1-544 BAT	2.6822	50/50	2.6822
966743	AG1-545 BAT	0.8834	50/50	0.8834
WEC	WEC	0.4536	Confirmed LTF	0.4536
LGEE	LGEE	0.9337	Confirmed LTF	0.9337
CPL	CPL	4.4240	Confirmed LTF	4.4240
CBM-W2	CBM-W2	20.0704	Confirmed LTF	20.0704
NY	NY	0.6686	Confirmed LTF	0.6686
TVA	TVA	3.7982	Confirmed LTF	3.7982
O-066	O-066	9.3951	Confirmed LTF	9.3951
SIG	SIG	0.3135	Confirmed LTF	0.3135
CBM-S2	CBM-S2	55.7600	Confirmed LTF	55.7600
CBM-S1	CBM-S1	0.9462	Confirmed LTF	0.9462
G-007	G-007	1.4773	Confirmed LTF	1.4773
MEC	MEC	2.7283	Confirmed LTF	2.7283
LAGN	LAGN	4.7197	Confirmed LTF	4.7197
AA2-074	AA2-074	2.9227	LTF	2.9227
CBM-W1	CBM-W1	18.9550	Confirmed LTF	18.9550

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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
163600951	314903	8CHCKAHM	DVP	314908	8ELMONT	DVP	1	DVP_P1-2: LN 563	single	2442.12	182.69	183.13	DC	48.41

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	36.1539	80/20	36.1539
315120	1GRAVEL4	3.7198	80/20	3.7198
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	3.7715	80/20	3.7715
315605	6W1-029WIND	1.7839	80/20	1.7839
315611	6Z1-036WIND	1.7276	80/20	1.7276
316083	AB2-161 C	3.5863	Adder	4.22
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	21.8789	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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
925863	AC1-065 C	8.9827	Adder	10.57
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
932581	AC2-078 C O1	4.2655	Adder	5.02
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	8.1729	Adder	9.62
935111	AD1-144 C	0.4520	80/20	0.4520
935164	AD1-151 C	17.5812	Adder	20.68
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
938634	AE1-085 C	0.1609	Adder	0.19
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	11.4934	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	3.6586	80/20	3.6586
940901	AE2-079 C	3.6586	80/20	3.6586
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	45.6831	80/20	45.6831
941501	AE2-147 C	26.0928	80/20	26.0928
941591	AE2-156_O1	30.7590	80/20	30.7590
942131	AE2-225 C	3.5742	80/20	3.5742

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942171	AE2-229 C	2.6807	80/20	2.6807
942341	AE2-247 C	1.8863	Adder	2.22
942401	AE2-253 C	10.5242	80/20	10.5242
942551	AE2-270	29.8898	Adder	35.16
942931	AE2-313 C	40.7652	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	2.9189	80/20	2.9189
943621	AF1-033 C	3.6586	80/20	3.6586
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	8.6976	80/20	8.6976
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	3.5742	80/20	3.5742
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	15.2438	Adder	17.93
957821	AF2-076 C	8.7750	80/20	8.7750
957831	AF2-077 C	3.4444	80/20	3.4444
957871	AF2-081 C	17.0100	80/20	17.0100
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
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)	3.3260	80/20	3.3260
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	1.2424	Adder	2.76
963231	AG1-172 C	1.2424	Adder	2.76
963241	AG1-173 C	1.2424	Adder	2.76
963251	AG1-174 C	1.2424	Adder	2.76

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963261	AG1-175 C	1.2424	Adder	2.76
963291	AG1-178 C O2	89.8654	80/20	89.8654
963351	AG1-184 O2	48.4146	80/20	48.4146
963821	AG1-235 C O2	41.5841	80/20	41.5841
964491	AG1-312 C O1	12.1221	Adder	26.91
964801	AG1-343 C	3.7375	Adder	8.3
964951	AG1-359 O1	46.2435	80/20	46.2435
965001	AG1-364 C O2	12.2564	80/20	12.2564
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 O2	14.8630	80/20	14.8630
966611	AG1-531 C	10.5001	80/20	10.5001
966731	AG1-544 C	3.8426	Adder	8.53
966741	AG1-545 C	1.2858	Adder	2.85
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
SIG	SIG	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
168691976	314903	8CHCKAHM	DVP	314214	6CHCKAHM	DVP	1	DVP_P1-2: LN 557	single	934.92	205.63	206.67	DC	12.11

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	0.1904	80/20	0.1904
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	1SURRY 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	3.0324	80/20	3.0324
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	13.3526	80/20	13.3526
939415	AE1-173_C2	11.4451	80/20	11.4451
939416	AE1-173_C3	13.3526	80/20	13.3526
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	6.6708	80/20	6.6708
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	-0.7843	Adder	-0.92
942171	AE2-229 C	0.7658	80/20	0.7658
942401	AE2-253 C	3.1895	80/20	3.1895
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957631	AF2-057	1.8202	80/20	1.8202
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	-0.1961	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 O2	22.4826	80/20	22.4826
963351	AG1-184 O2	12.1124	80/20	12.1124
963821	AG1-235 C O2	12.7062	80/20	12.7062
964491	AG1-312 C O1	6.8578	80/20	6.8578
964951	AG1-359 O1	14.1390	80/20	14.1390
965001	AG1-364 C O2	3.5976	80/20	3.5976
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 O2	4.2490	80/20	4.2490
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
163600918	314908	8ELMONT	DVP	314911	8LADYSMITH	DVP	1	DVP_P1-2: LN 576	single	2442.12	218.96	219.03	DC	51.64

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	10.6888	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	1.9434	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	4.1909	80/20	4.1909

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940901	AE2-079 C	4.1909	80/20	4.1909
941031	AE2-094 C	49.8737	Adder	58.67
941101	AE2-104 C O1	4.9240	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	3.1839	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	1.8411	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	4.1909	80/20	4.1909
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
961711	AG1-011	50.8960	80/20	50.8960

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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 O2	12.0632	Adder	26.78
962321	AG1-081 C (Withdrawn : 01/15/2021)	3.8099	80/20	3.8099
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 O2	43.1822	Adder	95.85
963351	AG1-184 O2	23.2642	Adder	51.64
963821	AG1-235 C O2	18.9799	Adder	42.13
964951	AG1-359 O1	21.0983	Adder	46.83
965001	AG1-364 C O2	5.6504	Adder	12.54
965181	AG1-383 C	2.1659	Adder	4.81
965631	AG1-431	34.3052	Adder	76.15
965811	AG1-449	11.9929	Adder	26.62
966491	AG1-518 O2	6.9393	Adder	15.4
966611	AG1-531 C	11.4995	80/20	11.4995
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	1.7338	Confirmed LTF	1.7338
LGEE	LGEE	3.6649	Confirmed LTF	3.6649
CPL	CPL	12.6624	Confirmed LTF	12.6624
CBM-W2	CBM-W2	69.0010	Confirmed LTF	69.0010
NY	NY	3.9628	Confirmed LTF	3.9628
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
173395634	314911	8LADYSMITH	DVP	314922	8POSSUM	DVP	1	DVP_P1-2: LN 573-A	single	2442.12	141.72	142.19	DC	27.47

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314229	6MT RD221	0.1056	80/20	0.1056
314236	6NRTHEST	0.1614	80/20	0.1614
314241	6OLDCHRC	0.7307	80/20	0.7307
314250	6ROCKVILLE	0.2894	80/20	0.2894
314309	6IRON208	0.3847	80/20	0.3847
315038	1LDYSMT2	4.2755	80/20	4.2755
315043	1FOUR RIVERA	2.8464	80/20	2.8464
315044	1FOUR RIVERB	2.8464	80/20	2.8464
315045	1FOUR RIVERC	3.4789	80/20	3.4789
315046	1FOUR RIVERD	2.8464	80/20	2.8464
315047	1FOUR RIVERE	2.8464	80/20	2.8464
315048	1FOUR RIVERF	3.4789	80/20	3.4789
315051	1AA1-145 CT1	4.4804	80/20	4.4804
315052	1AA1-145 CT2	4.4804	80/20	4.4804
315058	1CHESTF3 (Deactivation : 13/12/2018)	13.7929	Adder	16.23
315059	1CHESTF4 (Deactivation : 13/12/2018)	22.3584	Adder	26.3
315060	1CHESTF5 (Deactivation : 31/05/2023)	48.3616	Adder	56.9
315065	1CHESTF6 (Deactivation : 31/05/2023)	93.1726	Adder	109.61
315067	1DARBY 1	2.2206	80/20	2.2206
315068	1DARBY 2	2.2232	80/20	2.2232
315069	1DARBY 3	2.2310	80/20	2.2310
315070	1DARBY 4	2.2336	80/20	2.2336
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0137	Adder	0.02
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0137	Adder	0.02
315083	1SPRUNCA (Deactivation : 12/01/2021)	9.5114	80/20	9.5114
315084	1SPRUNCB (Deactivation : 12/01/2021)	9.5114	80/20	9.5114
315225	1N ANNA1	31.3969	80/20	31.3969
315226	1N ANNA2	31.4101	80/20	31.4101
316075	AC2-137 C	0.2938	80/20	0.2938
316083	AB2-161 C	2.5486	Adder	3.0
316108	AB2-160 C	4.1313	Adder	4.86
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	48.3112	80/20	48.3112

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	48.3112	80/20	48.3112
316114	AB2-068 ST (Withdrawn : 01/11/2021)	83.6941	80/20	83.6941
316132	AB2-190 C	15.2548	Adder	17.95
316134	AC1-107 G1	90.7197	80/20	90.7197
316135	AC1-107 G2	90.7197	80/20	90.7197
316136	AC1-107 G3	90.7367	80/20	90.7367
925863	AC1-065 C	5.4773	Adder	6.44
926754	AC1-161 C	22.7908	Adder	26.81
926784	AC1-164 C	30.5093	Adder	35.89
927044	AC1-191 C	7.1948	Adder	8.46
932044	AC2-012 C	7.6401	Adder	8.99
932501	AC2-070 C (Withdrawn : 01/22/2021)	0.2401	80/20	0.2401
932581	AC2-078 C O1	3.0601	Adder	3.6
932591	AC2-079 C O1	4.2981	Adder	5.06
933294	AC2-141 C	22.7908	Adder	26.81
934014	AD1-025 C	12.8096	Adder	15.07
934061	AD1-033 C	5.6124	Adder	6.6
934141	AD1-041 C	3.9084	Adder	4.6
934575	AD1-082 C	5.8082	Adder	6.83
935164	AD1-151 C	12.2584	Adder	14.42
936041	AD2-007 C	0.6119	Adder	0.72
936051	AD2-008 C	2.2301	Adder	2.62
936151	AD2-021	0.0335	80/20	0.0335
936661	AD2-085 C	2.5686	Adder	3.02
936761	AD2-097 C	1.8039	80/20	1.8039
937221	AD2-160 C O1	4.3618	Adder	5.13
938535	AE1-072 C	13.1139	Adder	15.43
938551	AE1-074 C	0.3458	80/20	0.3458
938634	AE1-085 C	6.7137	Adder	7.9
939195	AE1-149 C	8.0753	Adder	9.5
939261	AE1-157 C O1	12.7864	80/20	12.7864
939271	AE1-158 C O1	13.0494	80/20	13.0494
939414	AE1-173_C1	22.4496	Adder	26.41
939415	AE1-173_C2	19.2425	Adder	22.64
939416	AE1-173_C3	22.4496	Adder	26.41
939431	AE1-175 C	1.8158	Adder	2.14
939611	AE1-191 C	7.8168	Adder	9.2
939755	AE1-206 C	28.6220	80/20	28.6220
940061	AE2-000BC O1	8.0407	Adder	9.46
940231	AE2-005 C	0.9959	Adder	1.17
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	129.7266	Adder	152.62
940431	AE2-027 C O1	9.8422	Adder	11.58
940551	AE2-041	5.2632	Adder	6.19
940641	AE2-051 C O1	12.0273	Adder	14.15
940651	AE2-052	2.6918	Adder	3.17
940891	AE2-078 C	1.7840	Adder	2.1
940901	AE2-079 C	1.7840	Adder	2.1
941031	AE2-094 C	26.8372	Adder	31.57
941101	AE2-104 C O1	2.4942	Adder	2.93

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941281	AE2-122 C O1	21.2552	Adder	25.01
941291	AE2-123 C O1	21.8437	Adder	25.7
941301	AE2-124 C O1	19.8602	Adder	23.36
941501	AE2-147 C	11.7144	Adder	13.78
941581	AE2-155 C	0.0913	80/20	0.0913
941591	AE2-156 O1	13.4070	Adder	15.77
942001	AE2-212 C	1.6341	Adder	1.92
942131	AE2-225 C	1.5889	Adder	1.87
942151	AE2-227 C	1.9639	80/20	1.9639
942161	AE2-228 C	1.6451	Adder	1.94
942171	AE2-229 C	1.1916	Adder	1.4
942191	AE2-231 C O1	4.3557	80/20	4.3557
942341	AE2-247 C	1.1134	Adder	1.31
942371	AE2-250 C O1	7.3385	Adder	8.63
942401	AE2-253 C	4.5879	Adder	5.4
942551	AE2-270	20.4127	Adder	24.01
943431	AF1-014 C	0.9435	Adder	1.11
943461	AF1-017 C	1.0074	Adder	1.19
943471	AF1-018	5.2632	Adder	6.19
943611	AF1-032 C	1.2976	Adder	1.53
943621	AF1-033 C	1.7840	Adder	2.1
944011	AF1-069 C	8.7687	Adder	10.32
944581	AF1-123 C O1	35.8798	Adder	42.21
944591	AF1-124 C O1	35.8798	Adder	42.21
944601	AF1-125 C O1	35.8798	Adder	42.21
944631	AF1-128 O1	42.4062	Adder	49.89
944641	AF1-129	78.1820	Adder	91.98
944871	AF1-152 C	3.9048	Adder	4.59
945361	AF1-201 C O1	12.0113	Adder	14.13
946001	AF1-265	25.1070	80/20	25.1070
946261	AF1-291 C	1.6452	Adder	1.94
957411	AF2-035 C	7.9195	80/20	7.9195
957431	AF2-037 C	7.6714	Adder	9.03
957491	AF2-043 C	1.5889	Adder	1.87
957551	AF2-049 C	5.6701	80/20	5.6701
957631	AF2-057	2.6807	Adder	3.15
957691	AF2-063 C	12.2415	Adder	14.4
957711	AF2-065 C	10.4105	Adder	12.25
957821	AF2-076 C	3.9364	Adder	4.63
957831	AF2-077 C	1.5898	Adder	1.87
957871	AF2-081 C	7.4327	Adder	8.74
957911	AF2-085	3.2972	80/20	3.2972
958141	AF2-108	1.3514	Adder	1.59
958161	AF2-110 C	1.0282	Adder	1.21
959641	AF2-255 C	0.4910	80/20	0.4910
959651	AF2-256 C	0.4113	Adder	0.48
959661	AF2-257 C	0.4113	Adder	0.48
959671	AF2-258 C	0.4085	Adder	0.48
959681	AF2-259 C	2.0271	Adder	2.38
960091	AF2-300 C	1.9799	80/20	1.9799
961711	AG1-011	11.5314	Adder	25.6
961811	AG1-023 C	2.5040	80/20	2.5040

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961851	AG1-027 C	6.6561	Adder	14.77
962131	AG1-057	1.3947	Adder	3.1
962191	AG1-064 C	1.3170	80/20	1.3170
962201	AG1-065 C	1.3170	80/20	1.3170
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.8596	Adder	1.91
962531	AG1-102 C	0.4325	Adder	0.96
962961	AG1-145 C	0.8683	Adder	1.93
963051	AG1-154 C	1.4709	Adder	3.27
963221	AG1-171 C	0.8663	Adder	1.92
963231	AG1-172 C	0.8663	Adder	1.92
963241	AG1-173 C	0.8663	Adder	1.92
963251	AG1-174 C	0.8663	Adder	1.92
963261	AG1-175 C	0.8663	Adder	1.92
963291	AG1-178 C O2	22.9693	Adder	50.99
963341	AG1-183 C	5.8604	80/20	5.8604
963351	AG1-184 O2	12.3746	Adder	27.47
963381	AG1-187	2.3891	80/20	2.3891
963621	AG1-213 C	0.6600	80/20	0.6600
963821	AG1-235 C O2	9.5556	Adder	21.21
964421	AG1-305 C O2	5.1498	Adder	11.43
964951	AG1-359 O1	10.6214	Adder	23.58
965001	AG1-364 C O2	2.8423	Adder	6.31
965181	AG1-383 C	1.0908	Adder	2.42
966491	AG1-518 O2	3.5042	Adder	7.78
966611	AG1-531 C	2.5809	Adder	5.73
966711	AG1-541 C	5.2797	80/20	5.2797
966731	AG1-544 C	2.7790	Adder	6.17
966741	AG1-545 C	0.9264	Adder	2.06
966871	AG1-558 C	0.8569	Adder	1.9
966881	AG1-559 C	1.9799	80/20	1.9799
WEC	WEC	0.9894	Confirmed LTF	0.9894
LGEE	LGEE	2.0853	Confirmed LTF	2.0853
CPL	CPL	6.8223	Confirmed LTF	6.8223
CBM-W2	CBM-W2	38.5190	Confirmed LTF	38.5190
NY	NY	2.7639	Confirmed LTF	2.7639
TVA	TVA	7.0112	Confirmed LTF	7.0112
SIGE	SIGE	0.9786	Confirmed LTF	0.9786
CBM-S2	CBM-S2	86.9548	Confirmed LTF	86.9548
CBM-S1	CBM-S1	1.7864	Confirmed LTF	1.7864
MEC	MEC	5.6346	Confirmed LTF	5.6346
LAGN	LAGN	8.6187	Confirmed LTF	8.6187
AA2-074	AA2-074	4.5104	LTF	4.5104
CBM-W1	CBM-W1	41.4011	Confirmed LTF	41.4011

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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
163600983	314914	8MDLTHAN	DVP	314918	8NO ANNA	DVP	1	DVP_P1-2: LN 574	single	2442.12	175.32	175.88	DC	56.08

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	8.5459	Adder	10.05
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)	4.5317	80/20	4.5317
315102	1BRUNSWICKG1	12.9917	80/20	12.9917
315103	1BRUNSWICKG2	12.9917	80/20	12.9917
315104	1BRUNSWICKG3	12.9917	80/20	12.9917
315105	1BRUNSWICKS1	26.9901	80/20	26.9901
315108	1ELIZAR1	4.8060	80/20	4.8060
315109	1ELIZAR2	4.7226	80/20	4.7226
315110	1ELIZAR3	4.8675	80/20	4.8675
315233	1SURRY 2	35.9591	80/20	35.9591
315241	1Z1-086 GT1	16.6986	80/20	16.6986
315242	1Z1-086 GT2	16.6986	80/20	16.6986
315243	1Z1-086 GT3	16.6986	80/20	16.6986
315244	1Z1-086 ST	29.0284	80/20	29.0284
315260	1GOSPORTA	0.5220	80/20	0.5220
315261	1GOSPORTB	0.6667	80/20	0.6667
315262	1GOSPORTC	0.5658	80/20	0.5658
315293	1DOMTR9	8.7258	Adder	10.27
315294	1DOMTR10	10.6934	Adder	12.58
315603	6AA1-139SOLA	3.4369	80/20	3.4369
315605	6W1-029WIND	1.6716	80/20	1.6716

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315611	6Z1-036WIND	1.6481	80/20	1.6481
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	9.3074	Adder	10.95
926070	AC1-086 C	5.5202	Adder	6.49
926661	AC1-147 C	0.5528	80/20	0.5528
926754	AC1-161 C	47.5821	80/20	47.5821
932044	AC2-012 C	15.8500	80/20	15.8500
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	20.7125	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	0.9895	Adder	1.16
936051	AD2-008 C	3.6060	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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940541	AE2-040	4.3222	80/20	4.3222
940641	AE2-051 C O1	28.7217	80/20	28.7217
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	3.3058	80/20	3.3058
942161	AE2-228 C	2.6023	Adder	3.06
942171	AE2-229 C	2.4793	80/20	2.4793
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	32.8950	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	2.6997	80/20	2.6997
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	3.3058	80/20	3.3058
957521	AF2-046 C	21.4450	Adder	25.23
957531	AF2-047 C	22.1237	Adder	26.03
957631	AF2-057	5.5614	80/20	5.5614
957711	AF2-065 C	16.7764	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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
959751	AF2-266	11.0759	Adder	13.03
960081	AF2-299 C	3.2173	Adder	3.79
961091	AF2-400 C	0.6012	Adder	0.71
961681	AG1-008 C	11.3886	Adder	25.28
961711	AG1-011	18.6457	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 O2	25.4781	80/20	25.4781
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
962571	AG1-106 C	3.8507	Adder	8.55
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 O2	104.1010	80/20	104.1010
963351	AG1-184 O2	56.0840	80/20	56.0840
963821	AG1-235 C O2	37.5867	80/20	37.5867
964241	AG1-285 C O2	20.9302	80/20	20.9302
964491	AG1-312 C O1	12.7300	Adder	28.26
964801	AG1-343 C	4.0122	Adder	8.91
964951	AG1-359 O1	41.7780	80/20	41.7780
965001	AG1-364 C O2	11.1116	80/20	11.1116
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 O2	13.7595	80/20	13.7595
966611	AG1-531 C	4.2316	Adder	9.39
966621	AG1-532 C	0.9208	Adder	2.04
966731	AG1-544 C	10.4572	80/20	10.4572
966741	AG1-545 C	3.4875	80/20	3.4875
966931	AG1-431A	23.4981	Adder	52.16
WEC	WEC	1.4011	Confirmed LTF	1.4011
LGEE	LGEE	2.9461	Confirmed LTF	2.9461

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CPL	CPL	12.4679	Confirmed LTF	12.4679
CBM-W2	CBM-W2	59.3331	Confirmed LTF	59.3331
NY	NY	3.1466	Confirmed LTF	3.1466
TVA	TVA	11.1076	Confirmed LTF	11.1076
SIG	SIG	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
168692098	314914	8MDLTHAN	DVP	314322	6MDLTHAN	DVP	1	DVP_P1-2: LN 576	single	1058.16	137.82	140.04	DC	24.31

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	0.1334	80/20	0.1334
314507	3THOMPSN	0.1319	80/20	0.1319
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)	1.2094	80/20	1.2094
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
315260	1GOSPORTA	0.1393	80/20	0.1393
315261	1GOSPORTB	0.1779	80/20	0.1779
315262	1GOSPORTC	0.1510	80/20	0.1510
315293	1DOMTR9	2.4356	Adder	2.87
315294	1DOMTR10	2.9848	Adder	3.51
315603	6AA1-139SOLA	0.9469	80/20	0.9469
315605	6W1-029WIND	0.4556	80/20	0.4556
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

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
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
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	4.2300	80/20	4.2300
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	4.8265	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	29.2028	80/20	29.2028
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	6.6636	80/20	6.6636
941591	AE2-156 O1	7.4480	80/20	7.4480
942131	AE2-225 C	0.8866	80/20	0.8866

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942151	AE2-227 C	-0.6853	Adder	-0.81
942171	AE2-229 C	0.6649	80/20	0.6649
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
943171	AE2-346 C	0.4832	Adder	0.57
943611	AF1-032 C	0.7240	80/20	0.7240
943901	AF1-058 C	0.6520	Adder	0.77
944011	AF1-069 C	9.5416	80/20	9.5416
944141	AF1-082	1.0196	Adder	1.2
944581	AF1-123 C O1	21.4054	80/20	21.4054
944591	AF1-124 C O1	21.4054	80/20	21.4054
944601	AF1-125 C O1	21.4054	80/20	21.4054
944871	AF1-152 C	2.2212	80/20	2.2212
945711	AF1-236 C O1	28.0499	Adder	33.0
945811	AF1-246 C O1	4.3562	80/20	4.3562
946011	AF1-266	4.0401	Adder	4.75
946281	AF1-292 C	0.4646	Adder	0.55
957481	AF2-042 C	31.1160	80/20	31.1160
957491	AF2-043 C	0.8866	80/20	0.8866
957521	AF2-046 C	5.6683	Adder	6.67
957531	AF2-047 C	6.0882	Adder	7.16
957631	AF2-057	1.4842	80/20	1.4842
957821	AF2-076 C	1.8730	Adder	2.2
957861	AF2-080 C	2.7885	Adder	3.28
957871	AF2-081 C	4.2706	80/20	4.2706
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
962271	AG1-075 C O2	2.6787	Adder	5.95
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 O2	7.4962	80/20	7.4962
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 O2	45.1212	80/20	45.1212
963351	AG1-184 O2	24.3088	80/20	24.3088
963821	AG1-235 C O2	10.3788	80/20	10.3788
964241	AG1-285 C O2	8.0137	80/20	8.0137
964261	AG1-287 C	0.2592	Adder	0.58

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964471	AG1-310 C	0.3524	Adder	0.78
964491	AG1-312 C O1	3.4971	Adder	7.76
964501	AG1-313 C O2	0.8133	Adder	1.81
964801	AG1-343 C	1.0422	Adder	2.31
964951	AG1-359 O1	11.5380	80/20	11.5380
965001	AG1-364 C O2	1.3237	Adder	2.94
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 O2	3.6945	80/20	3.6945
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
SIG	SIG	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
173395695	314918	8NO ANNA	DVP	314911	8LADYSMITH	DVP	1	DVP_P1-2: LN 573-A	single	3218.56	115.66	116.7	DC	34.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	4.7671	Adder	5.61
314295	6BIRDNECK	0.0335	80/20	0.0335
314333	6POWHATN	0.3909	80/20	0.3909
314435	6SAPONY	0.3284	80/20	0.3284
314491	3PENDLTN	0.2502	80/20	0.2502
314572	3EMPORIA	0.2985	Adder	0.35
314643	3O INLET	0.3349	80/20	0.3349
315102	1BRUNSWICKG1	8.1676	80/20	8.1676
315103	1BRUNSWICKG2	8.1676	80/20	8.1676
315104	1BRUNSWICKG3	8.1676	80/20	8.1676
315105	1BRUNSWICKS1	16.9681	80/20	16.9681
315108	1ELIZAR1	2.4400	80/20	2.4400
315110	1ELIZAR3	2.4713	80/20	2.4713
315153	1CLOVER1	11.5147	80/20	11.5147
315154	1CLOVER2	11.3999	80/20	11.3999
315172	1LOISA A	2.7298	80/20	2.7298
315173	1LOISA B	2.7440	80/20	2.7440
315174	1LOISA C	2.7440	80/20	2.7440
315175	1LOISA D	2.7440	80/20	2.7440
315176	1LOISA E	5.5942	80/20	5.5942
315177	1S ANNAG1	2.1872	80/20	2.1872
315178	1S ANNAS1	1.1240	80/20	1.1240
315179	1S ANNAG2	2.1872	80/20	2.1872
315180	1S ANNAS2	1.1240	80/20	1.1240
315225	1N ANNA1	103.1977	80/20	103.1977
315226	1N ANNA2	103.2412	80/20	103.2412
315241	1Z1-086 GT1	10.5072	80/20	10.5072
315242	1Z1-086 GT2	10.5072	80/20	10.5072
315243	1Z1-086 GT3	10.5072	80/20	10.5072
315244	1Z1-086 ST	18.2654	80/20	18.2654
315603	6AA1-139SOLA	1.7598	80/20	1.7598
316096	AB2-100 C1	0.7597	80/20	0.7597
316098	AB2-100 C2	0.7597	80/20	0.7597
923991	AB2-040 C O1	5.1919	Adder	6.11
925021	AB2-158 C	3.8849	80/20	3.8849
926754	AC1-161 C	24.1064	80/20	24.1064
932044	AC2-012 C	6.8310	Adder	8.04
933294	AC2-141 C	24.1064	80/20	24.1064
933501	AC2-165 C	9.7869	80/20	9.7869
933731	AC2-196 C	0.2244	80/20	0.2244
934061	AD1-033 C	5.9707	80/20	5.9707

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934615	AD1-087 C	7.2140	80/20	7.2140
934625	AD1-088 C	11.2476	80/20	11.2476
935171	AD1-152 C O1	7.9238	80/20	7.9238
937221	AD2-160 C O1	4.6537	80/20	4.6537
937481	AD2-202 C O1	2.1130	80/20	2.1130
938371	AE1-056 C	4.6179	Adder	5.43
938494	AE1-068_C1	31.4739	80/20	31.4739
938497	AE1-068_C2	31.4739	80/20	31.4739
938504	AE1-069_C1	23.9866	80/20	23.9866
938507	AE1-069_C2	25.8633	80/20	25.8633
938535	AE1-072 C	14.0154	80/20	14.0154
938551	AE1-074 C	0.3313	80/20	0.3313
938561	AE1-075 C	0.3399	80/20	0.3399
938771	AE1-103 C	2.4678	Adder	2.9
939231	AE1-154 C	4.0367	80/20	4.0367
939414	AE1-173_C1	30.5693	80/20	30.5693
939415	AE1-173_C2	26.2022	80/20	26.2022
939416	AE1-173_C3	30.5693	80/20	30.5693
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	116.2383	Adder	136.75
940471	AE2-031 C	34.3946	80/20	34.3946
940481	AE2-033 C	13.3429	80/20	13.3429
940541	AE2-040	2.3683	80/20	2.3683
940641	AE2-051 C O1	17.5599	80/20	17.5599
941031	AE2-094 C	41.2390	80/20	41.2390
941101	AE2-104 C O1	2.2410	Adder	2.64
941281	AE2-122 C O1	22.5161	80/20	22.5161
941291	AE2-123 C O1	23.1396	80/20	23.1396
941301	AE2-124 C O1	21.0528	80/20	21.0528
941501	AE2-147 C	10.7199	Adder	12.61
941591	AE2-156 O1	11.9952	Adder	14.11
941791	AE2-182 C	1.8273	80/20	1.8273
942131	AE2-225 C	1.4369	Adder	1.69
942171	AE2-229 C	1.0777	Adder	1.27
942401	AE2-253 C	4.8949	80/20	4.8949
942461	AE2-259 C O1	8.5200	80/20	8.5200
942471	AE2-260 C O1	11.9543	80/20	11.9543
942931	AE2-313 C	37.1883	80/20	37.1883
943611	AF1-032 C	1.1734	Adder	1.38
944011	AF1-069 C	13.4743	80/20	13.4743
944111	AF1-079 C	7.6697	80/20	7.6697
944581	AF1-123 C O1	38.4772	80/20	38.4772
944591	AF1-124 C O1	38.4772	80/20	38.4772
944601	AF1-125 C O1	38.4772	80/20	38.4772
944871	AF1-152 C	3.5733	Adder	4.2
945811	AF1-246 C O1	7.3303	80/20	7.3303
946011	AF1-266	11.1690	80/20	11.1690
946281	AF1-292 C	1.0676	Adder	1.26
946301	AF1-294 C	3.0191	Adder	3.55
946371	AF1-301 C	31.3135	80/20	31.3135
957431	AF2-037 C	27.6907	80/20	27.6907
957481	AF2-042 C	52.3590	80/20	52.3590

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957491	AF2-043 C	1.4369	Adder	1.69
957631	AF2-057	2.3968	Adder	2.82
957691	AF2-063 C	44.1873	80/20	44.1873
957821	AF2-076 C	3.5794	Adder	4.21
957871	AF2-081 C	7.9369	80/20	7.9369
957911	AF2-085	4.1918	80/20	4.1918
958161	AF2-110 C	0.9239	Adder	1.09
958211	AF2-115 C	1.7759	Adder	2.09
958501	AF2-144 C	1.8315	80/20	1.8315
958801	AF2-171 C	10.6526	Adder	12.53
959531	AF2-244 C (Withdrawn : 01/06/2021)	1.6879	80/20	1.6879
959751	AF2-266	8.2655	80/20	8.2655
960081	AF2-299 C	1.7994	Adder	2.12
961791	AG1-021 C	0.7530	Adder	1.67
961811	AG1-023 C	7.7777	80/20	7.7777
961851	AG1-027 C	6.0456	Adder	13.42
961891	AG1-030 C	5.6183	Adder	12.47
962041	AG1-048 C	4.7063	Adder	10.45
962271	AG1-075 C O2	13.9725	80/20	13.9725
962441	AG1-093 C O2	14.0466	80/20	14.0466
963041	AG1-153 C	5.7309	80/20	5.7309
963111	AG1-160 C	5.8080	80/20	5.8080
963171	AG1-166 C	0.7530	Adder	1.67
963181	AG1-167 C	0.7530	Adder	1.67
963191	AG1-168 C	0.7530	Adder	1.67
963201	AG1-169 C	0.7530	Adder	1.67
963211	AG1-170 C	0.7530	Adder	1.67
963271	AG1-176 C O2	13.4101	80/20	13.4101
963291	AG1-178 C O2	64.1302	80/20	64.1302
963301	AG1-179 C	2.1040	Adder	4.67
963311	AG1-180	1.0251	Adder	2.28
963351	AG1-184 O2	34.5498	80/20	34.5498
963641	AG1-215 C	0.3514	Adder	0.78
963821	AG1-235 C O2	19.1997	80/20	19.1997
964241	AG1-285 C O2	13.2405	80/20	13.2405
964421	AG1-305 C O2	35.1649	80/20	35.1649
964821	AG1-345 C	0.3011	Adder	0.67
964841	AG1-347 C	8.7556	80/20	8.7556
964951	AG1-359 O1	21.3375	80/20	21.3375
965001	AG1-364 C O2	2.5340	Adder	5.62
965181	AG1-383 C	2.1928	80/20	2.1928
965281	AG1-393 C	0.7530	Adder	1.67
965601	AG1-428 C O2	1.7564	Adder	3.9
965641	AG1-432 C O2	17.0400	80/20	17.0400
965811	AG1-449	24.1157	80/20	24.1157
965831	AG1-451	2.8400	80/20	2.8400
965971	AG1-466 C	1.3408	80/20	1.3408
965981	AG1-467 C	1.4940	80/20	1.4940
966001	AG1-469 C	1.6841	80/20	1.6841
966361	AG1-505 C	16.9893	80/20	16.9893
966371	AG1-506 C	16.9893	80/20	16.9893

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966491	AG1-518 O2	3.1720	Adder	7.04
966501	AG1-519 C	2.4542	80/20	2.4542
966621	AG1-532 C	0.5150	Adder	1.14
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	1.6970	80/20	1.6970
WEC	WEC	0.6001	Confirmed LTF	0.6001
LGEE	LGEE	1.2836	Confirmed LTF	1.2836
CPL	CPL	7.2775	Confirmed LTF	7.2775
CBM-W2	CBM-W2	29.2544	Confirmed LTF	29.2544
NY	NY	2.3751	Confirmed LTF	2.3751
TVA	TVA	5.7148	Confirmed LTF	5.7148
SIGE	SIGE	0.7376	Confirmed LTF	0.7376
CBM-S2	CBM-S2	87.6334	Confirmed LTF	87.6334
CBM-S1	CBM-S1	1.4106	Confirmed LTF	1.4106
MEC	MEC	3.7786	Confirmed LTF	3.7786
LAGN	LAGN	7.0402	Confirmed LTF	7.0402
AA2-074	AA2-074	4.8042	LTF	4.8042
CBM-W1	CBM-W1	24.1845	Confirmed LTF	24.1845

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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
173395729	314918	8NO ANNA	DVP	962840	AG1-133 TAP	DVP	1	DVP_P1-2: LN 581	single	3218.56	130.75	130.83	DC	38.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314236	6NRTHEST	0.2056	80/20	0.2056
314250	6ROCKVILLE	0.3782	80/20	0.3782
314309	6IRON208	0.4958	80/20	0.4958
314314	3LOCKS	0.3313	80/20	0.3313
315058	1CHESTF3 (Deactivation : 13/12/2018)	17.8083	Adder	20.95
315059	1CHESTF4 (Deactivation : 13/12/2018)	28.8673	Adder	33.96
315060	1CHESTF5 (Deactivation : 31/05/2023)	62.2251	Adder	73.21
315065	1CHESTF6 (Deactivation : 31/05/2023)	142.7943	80/20	142.7943
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0178	Adder	0.02
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0178	Adder	0.02
315083	1SPRUNCA (Deactivation : 12/01/2021)	12.5326	80/20	12.5326
315084	1SPRUNCB (Deactivation : 12/01/2021)	12.5326	80/20	12.5326
315098	1CHESPKA	0.4933	80/20	0.4933
315099	1CHESPKB (Deactivation : 31/05/2019)	3.4201	80/20	3.4201
315108	1ELIZAR1	3.6241	80/20	3.6241
315109	1ELIZAR2	3.5611	80/20	3.5611
315110	1ELIZAR3	3.6705	80/20	3.6705
315225	1N ANNA1	55.8442	80/20	55.8442
315226	1N ANNA2	55.8678	80/20	55.8678
315233	1SURREY 2	28.0583	80/20	28.0583
316083	AB2-161 C	3.3720	Adder	3.97
316108	AB2-160 C	6.3840	80/20	6.3840
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	50.0808	Adder	58.92
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	50.0808	Adder	58.92
316114	AB2-068 ST (Withdrawn : 01/11/2021)	86.7598	Adder	102.07
316132	AB2-190 C	19.9396	Adder	23.46
316134	AC1-107 G1	94.0427	Adder	110.64
316135	AC1-107 G2	94.0427	Adder	110.64
316136	AC1-107 G3	94.0603	Adder	110.66
926001	AC1-076 C	-4.5621	Adder	-5.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926661	AC1-147 C	0.4172	80/20	0.4172
926754	AC1-161 C	35.7190	80/20	35.7190
926784	AC1-164 C	38.7897	Adder	45.63
932044	AC2-012 C	11.9620	80/20	11.9620
932581	AC2-078 C O1	4.0481	Adder	4.76
932591	AC2-079 C O1	5.6980	Adder	6.7
933294	AC2-141 C	35.7190	80/20	35.7190
934014	AD1-025 C	16.7659	Adder	19.72
934061	AD1-033 C	7.4742	Adder	8.79
934575	AD1-082 C	7.6845	Adder	9.04
935164	AD1-151 C	16.0229	Adder	18.85
936041	AD2-007 C	0.8009	Adder	0.94
936051	AD2-008 C	2.9189	Adder	3.43
936661	AD2-085 C	3.4088	Adder	4.01
936761	AD2-097 C	2.3769	80/20	2.3769
937221	AD2-160 C O1	5.8068	Adder	6.83
938494	AE1-068_C1	28.5661	Adder	33.61
938497	AE1-068_C2	28.5661	Adder	33.61
938504	AE1-069_C1	21.7705	Adder	25.61
938507	AE1-069_C2	23.4739	Adder	27.62
938535	AE1-072 C	17.4536	Adder	20.53
938551	AE1-074 C	0.4659	80/20	0.4659
938634	AE1-085 C	8.8804	Adder	10.45
939195	AE1-149 C	10.6753	Adder	12.56
939414	AE1-173_C1	36.2645	80/20	36.2645
939415	AE1-173_C2	31.0838	80/20	31.0838
939416	AE1-173_C3	36.2645	80/20	36.2645
939431	AE1-175 C	2.3499	Adder	2.76
940061	AE2-000BC O1	10.6412	Adder	12.52
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	203.1476	80/20	203.1476
940431	AE2-027 C O1	12.8404	Adder	15.11
940471	AE2-031 C	36.6653	80/20	36.6653
940641	AE2-051 C O1	19.6218	80/20	19.6218
940651	AE2-052	3.5584	Adder	4.19
940891	AE2-078 C	2.3452	Adder	2.76
940901	AE2-079 C	2.3452	Adder	2.76
941031	AE2-094 C	43.9347	80/20	43.9347
941101	AE2-104 C O1	3.3145	Adder	3.9
941281	AE2-122 C O1	28.2988	Adder	33.29
941291	AE2-123 C O1	29.0824	Adder	34.21
941301	AE2-124 C O1	26.4416	Adder	31.11
941591	AE2-156 O1	20.9920	80/20	20.9920
942001	AE2-212 C	2.5255	80/20	2.5255
942131	AE2-225 C	2.1139	Adder	2.49
942151	AE2-227 C	2.5310	80/20	2.5310
942161	AE2-228 C	2.5266	80/20	2.5266
942171	AE2-229 C	1.5855	Adder	1.87
942341	AE2-247 C	1.4776	Adder	1.74
942371	AE2-250 C O1	11.3400	80/20	11.3400
942401	AE2-253 C	6.1078	Adder	7.19
942551	AE2-270	26.7010	Adder	31.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942931	AE2-313 C	39.6507	80/20	39.6507
943461	AF1-017 C	1.3368	Adder	1.57
943611	AF1-032 C	1.7264	Adder	2.03
943621	AF1-033 C	2.3452	Adder	2.76
944011	AF1-069 C	14.3551	80/20	14.3551
944581	AF1-123 C O1	56.2820	80/20	56.2820
944591	AF1-124 C O1	56.2820	80/20	56.2820
944601	AF1-125 C O1	56.2820	80/20	56.2820
944631	AF1-128 O1	54.5625	Adder	64.19
944641	AF1-129	119.8200	80/20	119.8200
946001	AF1-265	24.3525	Adder	28.65
946261	AF1-291 C	2.5265	80/20	2.5265
957431	AF2-037 C	13.8541	80/20	13.8541
957491	AF2-043 C	2.1139	Adder	2.49
957631	AF2-057	4.1972	80/20	4.1972
957691	AF2-063 C	22.1076	80/20	22.1076
957711	AF2-065 C	13.6175	Adder	16.02
957871	AF2-081 C	9.8937	Adder	11.64
957911	AF2-085	4.5978	80/20	4.5978
958141	AF2-108	2.1036	80/20	2.1036
958161	AF2-110 C	1.3664	Adder	1.61
959641	AF2-255 C	0.6328	80/20	0.6328
959651	AF2-256 C	0.6316	80/20	0.6316
959661	AF2-257 C	0.6316	80/20	0.6316
959671	AF2-258 C	0.6314	80/20	0.6314
959681	AF2-259 C	3.1554	80/20	3.1554
961711	AG1-011	15.0928	Adder	33.5
961811	AG1-023 C	3.9498	80/20	3.9498
962191	AG1-064 C	1.7002	80/20	1.7002
962201	AG1-065 C	1.7002	80/20	1.7002
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.1300	Adder	2.51
962961	AG1-145 C	1.1237	Adder	2.49
963111	AG1-160 C	2.7973	Adder	6.21
963221	AG1-171 C	1.1323	Adder	2.51
963231	AG1-172 C	1.1323	Adder	2.51
963241	AG1-173 C	1.1323	Adder	2.51
963251	AG1-174 C	1.1323	Adder	2.51
963261	AG1-175 C	1.1323	Adder	2.51
963291	AG1-178 C O2	70.8337	80/20	70.8337
963351	AG1-184 O2	38.1613	80/20	38.1613
963821	AG1-235 C O2	12.7261	Adder	28.25
964421	AG1-305 C O2	17.6504	80/20	17.6504
964951	AG1-359 O1	14.1462	Adder	31.4
965001	AG1-364 C O2	8.3940	80/20	8.3940
965181	AG1-383 C	1.4525	Adder	3.22
965811	AG1-449	25.7078	80/20	25.7078
966491	AG1-518 O2	4.6622	Adder	10.35
966611	AG1-531 C	3.3855	Adder	7.51
966731	AG1-544 C	3.6759	Adder	8.16
966741	AG1-545 C	1.2254	Adder	2.72
WEC	WEC	0.7314	Confirmed LTF	0.7314

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LGEE	LGEE	1.5946	Confirmed LTF	1.5946
CPL	CPL	8.6009	Confirmed LTF	8.6009
CBM-W2	CBM-W2	35.7952	Confirmed LTF	35.7952
NY	NY	2.7628	Confirmed LTF	2.7628
TVA	TVA	7.0210	Confirmed LTF	7.0210
SIG	SIG	0.8629	Confirmed LTF	0.8629
CBM-S2	CBM-S2	104.6401	Confirmed LTF	104.6401
CBM-S1	CBM-S1	1.7347	Confirmed LTF	1.7347
MEC	MEC	4.6176	Confirmed LTF	4.6176
LAGN	LAGN	8.5978	Confirmed LTF	8.5978
AA2-074	AA2-074	5.6795	LTF	5.6795
CBM-W1	CBM-W1	29.2317	Confirmed LTF	29.2317

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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
163600854	314923	8SEPTA	DVP	314924	8SURREY	DVP	1	DVP_P4-2: 56372	breaker	3637.0	100.22	101.46	DC	50.78

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314466	6FENTRES	2.3789	50/50	2.3789
314550	6HICKORY	3.6843	Adder	4.33
315102	1BRUNSWICKG1	12.3217	50/50	12.3217
315103	1BRUNSWICKG2	12.3217	50/50	12.3217
315104	1BRUNSWICKG3	12.3217	50/50	12.3217
315105	1BRUNSWICKS1	25.5982	50/50	25.5982
315110	1ELIZAR3	3.3201	50/50	3.3201
315153	1CLOVER1	15.1542	50/50	15.1542
315154	1CLOVER2	15.0031	50/50	15.0031
315241	1Z1-086 GT1	15.9317	50/50	15.9317
315242	1Z1-086 GT2	15.9317	50/50	15.9317
315243	1Z1-086 GT3	15.9317	50/50	15.9317
315244	1Z1-086 ST	27.6953	50/50	27.6953
926754	AC1-161 C	92.8683	50/50	92.8683
926755	AC1-161 E	39.6429	50/50	39.6429
933294	AC2-141 C	92.8683	50/50	92.8683
933295	AC2-141 E	39.6429	50/50	39.6429
933731	AC2-196 C	0.3027	50/50	0.3027
933732	AC2-196 E	1.2779	50/50	1.2779
934061	AD1-033 C	8.0241	50/50	8.0241
934062	AD1-033 E	5.3494	50/50	5.3494
934615	AD1-087 C	9.4899	50/50	9.4899
934616	AD1-087 E	4.0609	50/50	4.0609
935171	AD1-152 C O1	10.4237	50/50	10.4237
935172	AD1-152 E O1	6.9491	50/50	6.9491
937481	AD2-202 C O1	2.7796	50/50	2.7796
937482	AD2-202 E O1	1.5636	50/50	1.5636
938494	AE1-068_C1	47.8959	50/50	47.8959
938497	AE1-068_C2	47.8959	50/50	47.8959
938498	AE1-068_E1	26.4766	50/50	26.4766
938499	AE1-068_E2	26.4766	50/50	26.4766
938504	AE1-069_C1	36.5020	50/50	36.5020
938507	AE1-069_C2	39.3579	50/50	39.3579
938508	AE1-069_E1	20.7648	50/50	20.7648
938509	AE1-069_E2	22.3712	50/50	22.3712
939414	AE1-173_C1	40.2343	50/50	40.2343
939415	AE1-173_C2	34.4866	50/50	34.4866
939416	AE1-173_C3	40.2343	50/50	40.2343
939423	AE1-173_E1	26.8229	50/50	26.8229
939424	AE1-173_E2	22.9910	50/50	22.9910
939425	AE1-173_E3	26.8229	50/50	26.8229

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	155.7163	Adder	183.2
940471	AE2-031 C	52.3479	50/50	52.3479
940472	AE2-031 E	34.8986	50/50	34.8986
940641	AE2-051 C O1	32.7339	50/50	32.7339
940642	AE2-051 E O1	21.8226	50/50	21.8226
941031	AE2-094 C	63.1691	50/50	63.1691
941032	AE2-094 E	28.2919	50/50	28.2919
941281	AE2-122 C O1	24.4296	Adder	28.74
941282	AE2-122 E O1	98.5792	Adder	115.98
941291	AE2-123 C O1	25.9329	Adder	30.51
941292	AE2-123 E O1	101.1273	Adder	118.97
941301	AE2-124 C O1	23.6041	Adder	27.77
941302	AE2-124 E O1	103.5718	Adder	121.85
941591	AE2-156 O1	15.9180	Adder	18.73
942931	AE2-313 C	56.5614	50/50	56.5614
942932	AE2-313 E	37.7076	50/50	37.7076
944011	AF1-069 C	20.6397	50/50	20.6397
944012	AF1-069 E	8.0181	50/50	8.0181
944581	AF1-123 C O1	58.0876	50/50	58.0876
944582	AF1-123 E O1	133.0044	50/50	133.0044
944591	AF1-124 C O1	58.0876	50/50	58.0876
944592	AF1-124 E O1	133.0044	50/50	133.0044
944601	AF1-125 C O1	58.0876	50/50	58.0876
944602	AF1-125 E O1	133.0044	50/50	133.0044
945811	AF1-246 C O1	10.1527	50/50	10.1527
945812	AF1-246 E O1	14.0203	50/50	14.0203
957481	AF2-042 C	72.5190	50/50	72.5190
957482	AF2-042 E	48.3460	50/50	48.3460
959751	AF2-266	10.8780	50/50	10.8780
962441	AG1-093 C O2	18.0486	50/50	18.0486
962442	AG1-093 E O2	5.4930	50/50	5.4930
963041	AG1-153 C	8.6457	50/50	8.6457
963042	AG1-153 E	12.9686	50/50	12.9686
963111	AG1-160 C	8.8065	50/50	8.8065
963112	AG1-160 E	13.2098	50/50	13.2098
963291	AG1-178 C O2	94.2586	50/50	94.2586
963351	AG1-184 O2	50.7814	50/50	50.7814
963821	AG1-235 C O2	25.8174	50/50	25.8174
963822	AG1-235 E O2	17.2116	50/50	17.2116
964241	AG1-285 C O2	18.5242	50/50	18.5242
964242	AG1-285 E O2	12.3495	50/50	12.3495
964951	AG1-359 O1	28.7820	50/50	28.7820
965181	AG1-383 C	1.3140	Adder	2.92
965182	AG1-383 E	0.3892	Adder	0.86
965811	AG1-449	36.7037	50/50	36.7037
966361	AG1-505 C	25.1154	50/50	25.1154
966362	AG1-505 E	16.7436	50/50	16.7436
966371	AG1-506 C	25.1154	50/50	25.1154
966372	AG1-506 E	16.7436	50/50	16.7436
WEC	WEC	0.8448	Confirmed LTF	0.8448
LGEE	LGEE	1.7379	Confirmed LTF	1.7379

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CPLE	CPLE	8.8595	Confirmed LTF	8.8595
CBM-W2	CBM-W2	37.6141	Confirmed LTF	37.6141
NY	NY	1.2420	Confirmed LTF	1.2420
TVA	TVA	7.1274	Confirmed LTF	7.1274
O-066	O-066	17.4240	Confirmed LTF	17.4240
SIGE	SIGE	0.5831	Confirmed LTF	0.5831
CBM-S2	CBM-S2	107.2084	Confirmed LTF	107.2084
CBM-S1	CBM-S1	1.7742	Confirmed LTF	1.7742
G-007	G-007	2.7394	Confirmed LTF	2.7394
MEC	MEC	5.0943	Confirmed LTF	5.0943
LAGN	LAGN	8.8620	Confirmed LTF	8.8620
AA2-074	AA2-074	5.8523	LTF	5.8523
CBM-W1	CBM-W1	35.2743	Confirmed LTF	35.2743

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163600766	314924	8SURRY	DVP	314903	8CHCKAHM	DVP	1	DVP_P4-2: 56372	breaker	3144.0	127.25	127.86	DC	52.76

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313717	6SLIGO L2192	3.1320	Adder	3.68
314295	6BIRDNECK	0.0719	50/50	0.0719
314466	6FENTRES	3.7992	50/50	3.7992
314491	3PENDLTN	0.5360	50/50	0.5360
314525	6KINGFORK	5.6245	Adder	6.62
314550	6HICKORY	6.9893	50/50	6.9893
314632	6AYDLETOLD	3.1341	Adder	3.69
315099	1CHESPKB (Deactivation : 31/05/2019)	4.9117	50/50	4.9117
315108	1ELIZAR1	5.2434	50/50	5.2434
315109	1ELIZAR2	5.1523	50/50	5.1523
315110	1ELIZAR3	5.3105	50/50	5.3105
315233	1SURRY 2	51.9844	50/50	51.9844
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-33.9297	Adder	-39.92
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-33.9297	Adder	-39.92
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-58.7796	Adder	-69.15
316151	AD2-215 E (Withdrawn : 01/14/2021)	1.2037	Adder	1.42
901082	W1-029 E	62.1224	Adder	73.09
913392	Y1-086 E	3.0559	Adder	3.6
916042	Z1-036 E (Suspended)	59.7462	Adder	70.29
916192	Z1-068 E	3.1893	50/50	3.1893
917122	Z2-027 E	1.4594	Adder	1.72
919152	AA1-139 E	9.1812	Adder	10.8
923832	AB2-022 E	1.7251	Adder	2.03
925522	AC1-027 E	1.9415	50/50	1.9415
926662	AC1-147 E	1.8957	Adder	2.23
926754	AC1-161 C	60.4629	50/50	60.4629
926755	AC1-161 E	25.8099	50/50	25.8099
932044	AC2-012 C	14.6023	Adder	17.18
932046	AC2-012 E	23.8249	Adder	28.03
933294	AC2-141 C	60.4629	50/50	60.4629
933295	AC2-141 E	25.8099	50/50	25.8099
933731	AC2-196 C	0.4835	50/50	0.4835
933732	AC2-196 E	2.0409	50/50	2.0409
934061	AD1-033 C	12.8541	50/50	12.8541
934062	AD1-033 E	8.5694	50/50	8.5694
935112	AD1-144 E	1.2268	Adder	1.44
937221	AD2-160 C O1	9.9017	50/50	9.9017
937222	AD2-160 E O1	5.1923	50/50	5.1923

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938494	AE1-068_C1	37.9430	Adder	44.64
938497	AE1-068_C2	37.9430	Adder	44.64
938498	AE1-068_E1	20.9747	Adder	24.68
938499	AE1-068_E2	20.9747	Adder	24.68
938504	AE1-069_C1	28.9168	Adder	34.02
938507	AE1-069_C2	31.1793	Adder	36.68
938508	AE1-069_E1	16.4498	Adder	19.35
938509	AE1-069_E2	17.7225	Adder	20.85
938535	AE1-072_C	25.0860	Adder	29.51
938536	AE1-072_E	12.9231	Adder	15.2
939414	AE1-173_C1	51.8297	50/50	51.8297
939415	AE1-173_C2	44.4254	50/50	44.4254
939416	AE1-173_C3	51.8297	50/50	51.8297
939423	AE1-173_E1	34.5531	50/50	34.5531
939424	AE1-173_E2	29.6170	50/50	29.6170
939425	AE1-173_E3	34.5531	50/50	34.5531
940251	AE2-007_O1 (Withdrawn : 12/11/2020)	293.6569	50/50	293.6569
940471	AE2-031_C	41.3957	Adder	48.7
940472	AE2-031_E	27.5972	Adder	32.47
940641	AE2-051_C O1	27.7668	50/50	27.7668
940642	AE2-051_E O1	18.5112	50/50	18.5112
941031	AE2-094_C	49.9177	Adder	58.73
941032	AE2-094_E	22.3570	Adder	26.3
941101	AE2-104_C O1	4.1712	Adder	4.91
941102	AE2-104_E O1	6.6316	Adder	7.8
941281	AE2-122_C O1	48.2897	50/50	48.2897
941282	AE2-122_E O1	194.8607	50/50	194.8607
941291	AE2-123_C O1	49.6269	50/50	49.6269
941292	AE2-123_E O1	193.5235	50/50	193.5235
941301	AE2-124_C O1	45.1648	50/50	45.1648
941302	AE2-124_E O1	198.1776	50/50	198.1776
941501	AE2-147_C	21.4215	Adder	25.2
941502	AE2-147_E	14.2810	Adder	16.8
941591	AE2-156_O1	30.2340	50/50	30.2340
942131	AE2-225_C	2.9307	Adder	3.45
942132	AE2-225_E	1.9538	Adder	2.3
942171	AE2-229_C	2.1980	Adder	2.59
942172	AE2-229_E	1.4653	Adder	1.72
942401	AE2-253_C	10.4149	50/50	10.4149
942402	AE2-253_E	4.6791	50/50	4.6791
942931	AE2-313_C	44.7367	Adder	52.63
942932	AE2-313_E	29.8245	Adder	35.09
943611	AF1-032_C	2.3934	Adder	2.82
943612	AF1-032_E	1.2700	Adder	1.49
944011	AF1-069_C	16.3100	Adder	19.19
944012	AF1-069_E	6.3361	Adder	7.45
944581	AF1-123_C O1	85.1238	50/50	85.1238
944582	AF1-123_E O1	194.9097	50/50	194.9097
944591	AF1-124_C O1	85.1238	50/50	85.1238
944592	AF1-124_E O1	194.9097	50/50	194.9097
944601	AF1-125_C O1	85.1238	50/50	85.1238

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
944602	AF1-125 E O1	194.9097	50/50	194.9097
944871	AF1-152 C	7.1405	Adder	8.4
944872	AF1-152 E	4.7603	Adder	5.6
957491	AF2-043 C	2.9307	Adder	3.45
957492	AF2-043 E	1.9538	Adder	2.3
957631	AF2-057	5.1236	Adder	6.03
957821	AF2-076 C	7.1563	Adder	8.42
957822	AF2-076 E	4.7709	Adder	5.61
957871	AF2-081 C	14.2819	Adder	16.8
957872	AF2-081 E	6.1208	Adder	7.2
958161	AF2-110 C	1.7196	Adder	2.02
958162	AF2-110 E	2.6897	Adder	3.16
961851	AG1-027 C	10.8778	Adder	24.15
961852	AG1-027 E	6.0132	Adder	13.35
963041	AG1-153 C	3.6420	Adder	8.08
963042	AG1-153 E	5.4630	Adder	12.13
963111	AG1-160 C	3.7027	Adder	8.22
963112	AG1-160 E	5.5541	Adder	12.33
963291	AG1-178 C O2	44.1177	Adder	97.93
963351	AG1-184 O2	23.7682	Adder	52.76
963821	AG1-235 C O2	41.3194	50/50	41.3194
963822	AG1-235 E O2	27.5463	50/50	27.5463
964951	AG1-359 O1	45.9660	50/50	45.9660
965001	AG1-364 C O2	5.3970	Adder	11.98
965002	AG1-364 E O2	8.0955	Adder	17.97
965181	AG1-383 C	4.7032	50/50	4.7032
965182	AG1-383 E	1.3930	50/50	1.3930
965811	AG1-449	15.3830	Adder	34.15
966361	AG1-505 C	10.5908	Adder	23.51
966362	AG1-505 E	7.0605	Adder	15.67
966371	AG1-506 C	10.5908	Adder	23.51
966372	AG1-506 E	7.0605	Adder	15.67
966491	AG1-518 O2	6.4595	Adder	14.34
WEC	WEC	0.6817	Confirmed LTF	0.6817
LGEE	LGEE	1.4137	Confirmed LTF	1.4137
CPL	CPL	9.4458	Confirmed LTF	9.4458
CBM-W2	CBM-W2	34.3168	Confirmed LTF	34.3168
NY	NY	1.7209	Confirmed LTF	1.7209
TVA	TVA	6.7340	Confirmed LTF	6.7340
O-066	O-066	23.3666	Confirmed LTF	23.3666
SIGE	SIGE	0.6239	Confirmed LTF	0.6239
CBM-S2	CBM-S2	110.7266	Confirmed LTF	110.7266
CBM-S1	CBM-S1	1.6511	Confirmed LTF	1.6511
G-007	G-007	3.6676	Confirmed LTF	3.6676
MEC	MEC	4.3523	Confirmed LTF	4.3523
LAGN	LAGN	8.3738	Confirmed LTF	8.3738
AA2-074	AA2-074	6.2352	LTF	6.2352
CBM-W1	CBM-W1	27.8157	Confirmed LTF	27.8157

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163601032	314934	8SPOTSYL	DVP	314916	8MORRSVL	DVP	1	DVP_P1-2: LN 552	single	3218.56	134.99	135.16	DC	37.36

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314236	6NRTHEST	0.2014	80/20	0.2014
314250	6ROCKVILLE	0.3709	80/20	0.3709
314309	6IRON208	0.4858	80/20	0.4858
314314	3LOCKS	0.3245	80/20	0.3245
315058	1CHESTF3 (Deactivation : 13/12/2018)	17.4462	Adder	20.52
315059	1CHESTF4 (Deactivation : 13/12/2018)	28.2804	Adder	33.27
315060	1CHESTF5 (Deactivation : 31/05/2023)	60.9577	Adder	71.71
315065	1CHESTF6 (Deactivation : 31/05/2023)	139.8920	80/20	139.8920
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0175	Adder	0.02
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0175	Adder	0.02
315083	1SPRUNCA (Deactivation : 12/01/2021)	12.2861	80/20	12.2861
315084	1SPRUNCB (Deactivation : 12/01/2021)	12.2861	80/20	12.2861
315098	1CHESPKA	0.4831	80/20	0.4831
315099	1CHESPKB (Deactivation : 31/05/2019)	3.3492	80/20	3.3492
315108	1ELIZAR1	3.5490	80/20	3.5490
315109	1ELIZAR2	3.4874	80/20	3.4874
315110	1ELIZAR3	3.5944	80/20	3.5944
315225	1N ANNA1	54.3957	80/20	54.3957
315226	1N ANNA2	54.4186	80/20	54.4186
315233	1SURRY 2	27.4780	80/20	27.4780
316083	AB2-161 C	3.3028	Adder	3.89
316108	AB2-160 C	6.2536	80/20	6.2536
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	49.0670	Adder	57.73
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	49.0670	Adder	57.73
316114	AB2-068 ST (Withdrawn : 01/11/2021)	85.0033	Adder	100.0
316132	AB2-190 C	19.5312	Adder	22.98
316134	AC1-107 G1	92.1388	Adder	108.4
316135	AC1-107 G2	92.1388	Adder	108.4
316136	AC1-107 G3	92.1561	Adder	108.42
925021	AB2-158 C	2.0085	80/20	2.0085

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926001	AC1-076 C	6.0766	80/20	6.0766
926661	AC1-147 C	0.4085	80/20	0.4085
926737	AC1-158 C1	14.5872	80/20	14.5872
926738	AC1-158 C2	14.5872	80/20	14.5872
926754	AC1-161 C	34.9772	80/20	34.9772
932044	AC2-012 C	11.7141	80/20	11.7141
932581	AC2-078 C O1	3.9651	Adder	4.66
932591	AC2-079 C O1	5.5811	Adder	6.57
933294	AC2-141 C	34.9772	80/20	34.9772
934014	AD1-025 C	16.4224	Adder	19.32
934061	AD1-033 C	7.3196	Adder	8.61
934575	AD1-082 C	7.5270	Adder	8.86
935164	AD1-151 C	15.6947	Adder	18.46
936041	AD2-007 C	0.7845	Adder	0.92
936051	AD2-008 C	2.8591	Adder	3.36
936761	AD2-097 C	2.3301	80/20	2.3301
937221	AD2-160 C O1	5.6867	Adder	6.69
938494	AE1-068_C1	27.9735	Adder	32.91
938497	AE1-068_C2	27.9735	Adder	32.91
938504	AE1-069_C1	21.3189	Adder	25.08
938507	AE1-069_C2	22.9869	Adder	27.04
938535	AE1-072 C	9.8267	Adder	11.56
938551	AE1-074 C	0.4570	80/20	0.4570
938634	AE1-085 C	8.6985	Adder	10.23
939195	AE1-149 C	10.4565	Adder	12.3
939231	AE1-154 C	2.0870	80/20	2.0870
939414	AE1-173_C1	35.5051	80/20	35.5051
939415	AE1-173_C2	30.4330	80/20	30.4330
939416	AE1-173_C3	35.5051	80/20	35.5051
939431	AE1-175 C	2.3014	Adder	2.71
940061	AE2-000BC O1	10.4229	Adder	12.26
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	198.9482	80/20	198.9482
940431	AE2-027 C O1	14.7982	80/20	14.7982
940471	AE2-031 C	35.9101	80/20	35.9101
940641	AE2-051 C O1	19.2096	80/20	19.2096
940651	AE2-052	3.4855	Adder	4.1
940891	AE2-078 C	2.2968	Adder	2.7
940901	AE2-079 C	2.2968	Adder	2.7
941031	AE2-094 C	43.0189	80/20	43.0189
941281	AE2-122 C O1	27.7126	Adder	32.6
941291	AE2-123 C O1	28.4800	Adder	33.51
941301	AE2-124 C O1	25.8951	Adder	30.46
941381	AE2-134 (Suspended)	4.1872	80/20	4.1872
941591	AE2-156 O1	20.5580	80/20	20.5580
942001	AE2-212 C	2.4740	80/20	2.4740
942151	AE2-227 C	2.4800	80/20	2.4800
942161	AE2-228 C	2.4752	80/20	2.4752
942371	AE2-250 C O1	11.1083	80/20	11.1083
942401	AE2-253 C	5.9814	Adder	7.04
942551	AE2-270	26.1541	Adder	30.77
942931	AE2-313 C	38.8349	80/20	38.8349

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
943621	AF1-033 C	2.2968	Adder	2.7
944011	AF1-069 C	14.0559	80/20	14.0559
944111	AF1-079 C	3.9653	80/20	3.9653
944581	AF1-123 C O1	55.1157	80/20	55.1157
944591	AF1-124 C O1	55.1157	80/20	55.1157
944601	AF1-125 C O1	55.1157	80/20	55.1157
944631	AF1-128 O1	53.4512	Adder	62.88
944641	AF1-129	117.3847	80/20	117.3847
946261	AF1-291 C	2.4751	80/20	2.4751
946371	AF1-301 C	16.2047	80/20	16.2047
957431	AF2-037 C	14.4361	80/20	14.4361
957631	AF2-057	4.1102	80/20	4.1102
957691	AF2-063 C	23.0364	80/20	23.0364
957711	AF2-065 C	13.3386	Adder	15.69
957871	AF2-081 C	9.6890	Adder	11.4
957911	AF2-085	4.5132	80/20	4.5132
958141	AF2-108	2.0607	80/20	2.0607
959641	AF2-255 C	0.6200	80/20	0.6200
959651	AF2-256 C	0.6188	80/20	0.6188
959661	AF2-257 C	0.6188	80/20	0.6188
959671	AF2-258 C	0.6185	80/20	0.6185
959681	AF2-259 C	3.0911	80/20	3.0911
961711	AG1-011	14.7836	Adder	32.82
961811	AG1-023 C	4.0631	80/20	4.0631
962191	AG1-064 C	1.6663	80/20	1.6663
962201	AG1-065 C	1.6663	80/20	1.6663
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.1067	Adder	2.46
962841	AG1-133 C O2	35.0460	80/20	35.0460
962961	AG1-145 C	1.1005	Adder	2.44
963221	AG1-171 C	1.1091	Adder	2.46
963231	AG1-172 C	1.1091	Adder	2.46
963241	AG1-173 C	1.1091	Adder	2.46
963251	AG1-174 C	1.1091	Adder	2.46
963261	AG1-175 C	1.1091	Adder	2.46
963291	AG1-178 C O2	69.3454	80/20	69.3454
963351	AG1-184 O2	37.3596	80/20	37.3596
963821	AG1-235 C O2	12.4627	Adder	27.66
964271	AG1-288 C	32.6436	80/20	32.6436
964281	AG1-289	18.0504	80/20	18.0504
964421	AG1-305 C O2	18.3407	80/20	18.3407
964951	AG1-359 O1	13.8529	Adder	30.75
965001	AG1-364 C O2	8.2204	80/20	8.2204
965181	AG1-383 C	1.4224	Adder	3.16
965811	AG1-449	25.1784	80/20	25.1784
966611	AG1-531 C	3.3154	Adder	7.36
966731	AG1-544 C	3.6006	Adder	7.99
966741	AG1-545 C	1.2003	Adder	2.66
WEC	WEC	0.6801	Confirmed LTF	0.6801
LGEE	LGEE	1.4941	Confirmed LTF	1.4941
CPL	CPL	8.4200	Confirmed LTF	8.4200
CBM-W2	CBM-W2	34.2541	Confirmed LTF	34.2541

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	2.8767	Confirmed LTF	2.8767
TVA	TVA	6.7732	Confirmed LTF	6.7732
SIGE	SIGE	0.8682	Confirmed LTF	0.8682
CBM-S2	CBM-S2	102.2389	Confirmed LTF	102.2389
CBM-S1	CBM-S1	1.6686	Confirmed LTF	1.6686
MEC	MEC	4.3539	Confirmed LTF	4.3539
LAGN	LAGN	8.2845	Confirmed LTF	8.2845
AA2-074	AA2-074	5.5593	LTF	5.5593
CBM-W1	CBM-W1	26.9324	Confirmed LTF	26.9324

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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
163600786	939410	AE1-173_POI	DVP	314928	8SUFFOLK	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	119.33	121.42	DC	70.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3092	50/50	0.3092
314189	6PAPERMILL	-3.7784	Adder	-4.45
314435	6SAPONY	0.2570	50/50	0.2570
314539	3UNCAMP	-3.8616	Adder	-4.54
315102	1BRUNSWICKG1	13.2307	50/50	13.2307
315103	1BRUNSWICKG2	13.2307	50/50	13.2307
315104	1BRUNSWICKG3	13.2307	50/50	13.2307
315105	1BRUNSWICKS1	27.4866	50/50	27.4866
315153	1CLOVER1	15.9761	50/50	15.9761
315154	1CLOVER2	15.8169	50/50	15.8169
315241	1Z1-086 GT1	17.1480	50/50	17.1480
315242	1Z1-086 GT2	17.1480	50/50	17.1480
315243	1Z1-086 GT3	17.1480	50/50	17.1480
315244	1Z1-086 ST	29.8096	50/50	29.8096
315266	1PLYWOOD A	1.0198	50/50	1.0198
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-30.4840	Adder	-35.86
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-30.4840	Adder	-35.86
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-52.8103	Adder	-62.13
316118	AC1-105 C	4.8942	50/50	4.8942
316123	AC1-075 C	0.6875	50/50	0.6875
316131	AB2-060 C	0.8891	50/50	0.8891
316132	AB2-190 C	-11.2564	Adder	-13.24
923852	AB2-025 E	0.7319	50/50	0.7319
924022	AB2-043 E O1	1.7524	50/50	1.7524
924162	AB2-060 E OP	2.6519	50/50	2.6519
924301	AB2-077 C O1 (Suspended)	1.2522	50/50	1.2522
924302	AB2-077 E O1 (Suspended)	0.8348	50/50	0.8348
924311	AB2-078 C O1 (Suspended)	1.2522	50/50	1.2522
924312	AB2-078 E O1 (Suspended)	0.8348	50/50	0.8348
924321	AB2-079 C O1 (Suspended)	1.2522	50/50	1.2522
924322	AB2-079 E O1 (Suspended)	0.8348	50/50	0.8348
925863	AC1-065 C	-4.3013	Adder	-5.06
925997	AC1-075 E	2.4688	50/50	2.4688

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926023	AC1-080 C	0.2298	50/50	0.2298
926024	AC1-080 E	0.8191	50/50	0.8191
926274	AC1-105 E	2.4045	50/50	2.4045
926754	AC1-161 C	-33.7452	Adder	-39.7
927251	AC1-221 C	2.0468	50/50	2.0468
927252	AC1-221 E	2.0468	50/50	2.0468
927261	AC1-222 C	3.2852	50/50	3.2852
927262	AC1-222 E	3.1274	50/50	3.1274
932761	AC2-100 C	4.7104	50/50	4.7104
932762	AC2-100 E	2.2991	50/50	2.2991
934061	AD1-033 C	-9.0899	Adder	-10.69
934141	AD1-041 C	-3.1674	Adder	-3.73
934311	AD1-055 C	2.2810	50/50	2.2810
934312	AD1-055 E	0.5882	50/50	0.5882
934341	AD1-058 C	5.1310	50/50	5.1310
934342	AD1-058 E	1.3038	50/50	1.3038
934615	AD1-087 C	10.0012	50/50	10.0012
934616	AD1-087 E	4.2797	50/50	4.2797
934625	AD1-088 C	12.8927	50/50	12.8927
934626	AD1-088 E	3.3767	50/50	3.3767
934991	AD1-131 C	1.6823	50/50	1.6823
934992	AD1-131 E	1.1215	50/50	1.1215
935171	AD1-152 C O1	10.9853	50/50	10.9853
935172	AD1-152 E O1	7.3235	50/50	7.3235
936161	AD2-022 C O1	6.7644	50/50	6.7644
936162	AD2-022 E O1	4.0586	50/50	4.0586
936171	AD2-023 C O1	3.9459	50/50	3.9459
936172	AD2-023 E O1	2.1421	50/50	2.1421
936265	AD2-033 C	7.9856	50/50	7.9856
936266	AD2-033 E	5.3238	50/50	5.3238
936485	AD2-063 C	9.2745	50/50	9.2745
936486	AD2-063 E	6.1830	50/50	6.1830
937481	AD2-202 C O1	2.9294	50/50	2.9294
937482	AD2-202 E O1	1.6478	50/50	1.6478
938494	AE1-068_C1	51.6375	50/50	51.6375
938497	AE1-068_C2	51.6375	50/50	51.6375
938498	AE1-068_E1	28.5450	50/50	28.5450
938499	AE1-068_E2	28.5450	50/50	28.5450
938504	AE1-069_C1	39.3536	50/50	39.3536
938507	AE1-069_C2	42.4326	50/50	42.4326
938508	AE1-069_E1	22.3870	50/50	22.3870
938509	AE1-069_E2	24.1189	50/50	24.1189
939414	AE1-173_C1	83.2625	50/50	83.2625
939415	AE1-173_C2	71.3678	50/50	71.3678
939416	AE1-173_C3	83.2625	50/50	83.2625
939423	AE1-173_E1	55.5083	50/50	55.5083
939424	AE1-173_E2	47.5786	50/50	47.5786
939425	AE1-173_E3	55.5083	50/50	55.5083
939431	AE1-175 C	-1.8138	Adder	-2.13
940231	AE2-005 C	-0.7820	Adder	-0.92
940471	AE2-031 C	56.5831	50/50	56.5831
940472	AE2-031 E	37.7220	50/50	37.7220

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940481	AE2-033 C	10.0303	50/50	10.0303
940482	AE2-033 E	6.7620	50/50	6.7620
940541	AE2-040	1.8534	50/50	1.8534
940552	AE2-041 BAT	4.9116	50/50	4.9116
940891	AE2-078 C	-2.0107	Adder	-2.37
940901	AE2-079 C	-2.0107	Adder	-2.37
941031	AE2-094 C	68.3097	50/50	68.3097
941032	AE2-094 E	30.5943	50/50	30.5943
941791	AE2-182 C	2.0946	50/50	2.0946
941792	AE2-182 E	0.9751	50/50	0.9751
942131	AE2-225 C	-2.4492	Adder	-2.88
942171	AE2-229 C	-1.8369	Adder	-2.16
942451	AE2-258	1.4620	50/50	1.4620
942552	AE2-270 BAT	18.7320	50/50	18.7320
942931	AE2-313 C	61.1245	50/50	61.1245
942932	AE2-313 E	40.7497	50/50	40.7497
943472	AF1-018 BAT	4.9116	50/50	4.9116
943611	AF1-032 C	-2.0002	Adder	-2.35
943621	AF1-033 C	-2.0107	Adder	-2.37
943901	AF1-058 C	1.8214	50/50	1.8214
943902	AF1-058 E	1.2142	50/50	1.2142
944011	AF1-069 C	22.3193	50/50	22.3193
944012	AF1-069 E	8.6706	50/50	8.6706
945363	AF1-201 BAT	3.3658	50/50	3.3658
945811	AF1-246 C O1	10.7961	50/50	10.7961
945812	AF1-246 E O1	14.9089	50/50	14.9089
946011	AF1-266	8.3962	50/50	8.3962
957481	AF2-042 C	77.1150	50/50	77.1150
957482	AF2-042 E	51.4100	50/50	51.4100
957491	AF2-043 C	-2.4492	Adder	-2.88
957632	AF2-057 BAT	5.0526	50/50	5.0526
959751	AF2-266	11.4680	50/50	11.4680
960061	AF2-297 C	7.2854	50/50	7.2854
960062	AF2-297 E	4.8570	50/50	4.8570
961091	AF2-400 C	-0.2729	Adder	-0.32
961612	AG1-000B BAT	9.7725	50/50	9.7725
961691	AG1-009 BAT	7.8180	50/50	7.8180
961712	AG1-011 BAT	20.8480	50/50	20.8480
961853	AG1-028 BAT	21.3900	50/50	21.3900
962132	AG1-057 BAT	2.4558	50/50	2.4558
962271	AG1-075 C O2	10.5036	50/50	10.5036
962272	AG1-075 E O2	6.4014	50/50	6.4014
962441	AG1-093 C O2	18.6521	50/50	18.6521
962442	AG1-093 E O2	5.6767	50/50	5.6767
962491	AG1-098 C O2	7.7535	50/50	7.7535
962492	AG1-098 E O2	5.1690	50/50	5.1690
962561	AG1-105 C O2	7.6428	50/50	7.6428
962562	AG1-105 E O2	5.0952	50/50	5.0952
963041	AG1-153 C	9.2835	50/50	9.2835
963042	AG1-153 E	13.9253	50/50	13.9253
963111	AG1-160 C	9.4788	50/50	9.4788
963112	AG1-160 E	14.2182	50/50	14.2182

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963271	AG1-176 C O2	11.6825	50/50	11.6825
963272	AG1-176 E O2	7.7884	50/50	7.7884
963291	AG1-178 C O2	131.5909	50/50	131.5909
963321	AG1-181 C O2	10.3304	50/50	10.3304
963351	AG1-184 O2	70.8940	50/50	70.8940
963613	AG1-210 BAT	1.0459	50/50	1.0459
964241	AG1-285 C O2	19.7310	50/50	19.7310
964242	AG1-285 E O2	13.1540	50/50	13.1540
964261	AG1-287 C	1.3660	50/50	1.3660
964262	AG1-287 E	0.9107	50/50	0.9107
964471	AG1-310 C	1.8769	50/50	1.8769
964472	AG1-310 E	0.9245	50/50	0.9245
964791	AG1-342 C	3.3221	50/50	3.3221
964792	AG1-342 E	2.6102	50/50	2.6102
964841	AG1-347 C	9.6981	50/50	9.6981
964842	AG1-347 E	7.6199	50/50	7.6199
964931	AG1-357 C O2	12.3720	50/50	12.3720
964932	AG1-357 E O2	8.2480	50/50	8.2480
964952	AG1-359 BAT	38.2185	50/50	38.2185
965003	AG1-364 BAT	25.1120	50/50	25.1120
965183	AG1-383 BAT	2.1602	50/50	2.1602
965591	AG1-427 C	7.3382	50/50	7.3382
965592	AG1-427 E	4.9025	50/50	4.9025
965811	AG1-449	39.6732	50/50	39.6732
966361	AG1-505 C	26.9838	50/50	26.9838
966362	AG1-505 E	17.9892	50/50	17.9892
966371	AG1-506 C	26.9838	50/50	26.9838
966372	AG1-506 E	17.9892	50/50	17.9892
966492	AG1-518 BAT	11.9055	50/50	11.9055
966663	AG1-536 BAT	8.3655	50/50	8.3655
966932	AG1-431A BAT	28.2400	50/50	28.2400
WEC	WEC	0.8467	Confirmed LTF	0.8467
LGEE	LGEE	1.7379	Confirmed LTF	1.7379
CPL	CPL	7.7211	Confirmed LTF	7.7211
CBM-W2	CBM-W2	36.0461	Confirmed LTF	36.0461
NY	NY	0.9473	Confirmed LTF	0.9473
TVA	TVA	6.7368	Confirmed LTF	6.7368
O-066	O-066	13.6081	Confirmed LTF	13.6081
SIGE	SIGE	0.5209	Confirmed LTF	0.5209
CBM-S2	CBM-S2	96.6535	Confirmed LTF	96.6535
CBM-S1	CBM-S1	1.6872	Confirmed LTF	1.6872
G-007	G-007	2.1420	Confirmed LTF	2.1420
MEC	MEC	5.0053	Confirmed LTF	5.0053
LAGN	LAGN	8.3720	Confirmed LTF	8.3720
AA2-074	AA2-074	5.1021	LTF	5.1021
CBM-W1	CBM-W1	35.6248	Confirmed LTF	35.6248

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173395709	962840	AG1-133 TAP	DVP	314934	8SPOTSYL	DVP	1	DVP_P1-2: LN 581	single	3218.56	131.03	131.17	DC	38.16

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314236	6NRTHEST	0.2056	80/20	0.2056
314250	6ROCKVILLE	0.3782	80/20	0.3782
314309	6IRON208	0.4958	80/20	0.4958
314314	3LOCKS	0.3313	80/20	0.3313
315058	1CHESTF3 (Deactivation : 13/12/2018)	17.8083	Adder	20.95
315059	1CHESTF4 (Deactivation : 13/12/2018)	28.8673	Adder	33.96
315060	1CHESTF5 (Deactivation : 31/05/2023)	62.2251	Adder	73.21
315065	1CHESTF6 (Deactivation : 31/05/2023)	142.7943	80/20	142.7943
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0178	Adder	0.02
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0178	Adder	0.02
315083	1SPRUNCA (Deactivation : 12/01/2021)	12.5326	80/20	12.5326
315084	1SPRUNCB (Deactivation : 12/01/2021)	12.5326	80/20	12.5326
315098	1CHESPKA	0.4933	80/20	0.4933
315099	1CHESPKB (Deactivation : 31/05/2019)	3.4201	80/20	3.4201
315108	1ELIZAR1	3.6241	80/20	3.6241
315109	1ELIZAR2	3.5611	80/20	3.5611
315110	1ELIZAR3	3.6705	80/20	3.6705
315225	1N ANNA1	55.8442	80/20	55.8442
315226	1N ANNA2	55.8678	80/20	55.8678
315233	1SURREY 2	28.0583	80/20	28.0583
316083	AB2-161 C	3.3720	Adder	3.97
316108	AB2-160 C	6.3840	80/20	6.3840
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	50.0808	Adder	58.92
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	50.0808	Adder	58.92
316114	AB2-068 ST (Withdrawn : 01/11/2021)	86.7598	Adder	102.07
316132	AB2-190 C	19.9396	Adder	23.46
316134	AC1-107 G1	94.0427	Adder	110.64
316135	AC1-107 G2	94.0427	Adder	110.64
316136	AC1-107 G3	94.0603	Adder	110.66
926001	AC1-076 C	-4.5621	Adder	-5.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926661	AC1-147 C	0.4172	80/20	0.4172
926754	AC1-161 C	35.7190	80/20	35.7190
926784	AC1-164 C	38.7897	Adder	45.63
932044	AC2-012 C	11.9620	80/20	11.9620
932581	AC2-078 C O1	4.0481	Adder	4.76
932591	AC2-079 C O1	5.6980	Adder	6.7
933294	AC2-141 C	35.7190	80/20	35.7190
934014	AD1-025 C	16.7659	Adder	19.72
934061	AD1-033 C	7.4742	Adder	8.79
934575	AD1-082 C	7.6845	Adder	9.04
935164	AD1-151 C	16.0229	Adder	18.85
936041	AD2-007 C	0.8009	Adder	0.94
936051	AD2-008 C	2.9189	Adder	3.43
936661	AD2-085 C	3.4088	Adder	4.01
936761	AD2-097 C	2.3769	80/20	2.3769
937221	AD2-160 C O1	5.8068	Adder	6.83
938494	AE1-068_C1	28.5661	Adder	33.61
938497	AE1-068_C2	28.5661	Adder	33.61
938504	AE1-069_C1	21.7705	Adder	25.61
938507	AE1-069_C2	23.4739	Adder	27.62
938535	AE1-072 C	17.4536	Adder	20.53
938551	AE1-074 C	0.4659	80/20	0.4659
938634	AE1-085 C	8.8804	Adder	10.45
939195	AE1-149 C	10.6753	Adder	12.56
939414	AE1-173_C1	36.2645	80/20	36.2645
939415	AE1-173_C2	31.0838	80/20	31.0838
939416	AE1-173_C3	36.2645	80/20	36.2645
939431	AE1-175 C	2.3499	Adder	2.76
940061	AE2-000BC O1	10.6412	Adder	12.52
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	203.1476	80/20	203.1476
940431	AE2-027 C O1	12.8404	Adder	15.11
940471	AE2-031 C	36.6653	80/20	36.6653
940641	AE2-051 C O1	19.6218	80/20	19.6218
940651	AE2-052	3.5584	Adder	4.19
940891	AE2-078 C	2.3452	Adder	2.76
940901	AE2-079 C	2.3452	Adder	2.76
941031	AE2-094 C	43.9347	80/20	43.9347
941101	AE2-104 C O1	3.3145	Adder	3.9
941281	AE2-122 C O1	28.2988	Adder	33.29
941291	AE2-123 C O1	29.0824	Adder	34.21
941301	AE2-124 C O1	26.4416	Adder	31.11
941591	AE2-156 O1	20.9920	80/20	20.9920
942001	AE2-212 C	2.5255	80/20	2.5255
942131	AE2-225 C	2.1139	Adder	2.49
942151	AE2-227 C	2.5310	80/20	2.5310
942161	AE2-228 C	2.5266	80/20	2.5266
942171	AE2-229 C	1.5855	Adder	1.87
942341	AE2-247 C	1.4776	Adder	1.74
942371	AE2-250 C O1	11.3400	80/20	11.3400
942401	AE2-253 C	6.1078	Adder	7.19
942551	AE2-270	26.7010	Adder	31.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942931	AE2-313 C	39.6507	80/20	39.6507
943461	AF1-017 C	1.3368	Adder	1.57
943611	AF1-032 C	1.7264	Adder	2.03
943621	AF1-033 C	2.3452	Adder	2.76
944011	AF1-069 C	14.3551	80/20	14.3551
944581	AF1-123 C O1	56.2820	80/20	56.2820
944591	AF1-124 C O1	56.2820	80/20	56.2820
944601	AF1-125 C O1	56.2820	80/20	56.2820
944631	AF1-128 O1	54.5625	Adder	64.19
944641	AF1-129	119.8200	80/20	119.8200
946001	AF1-265	5.8287	Adder	6.86
946261	AF1-291 C	2.5265	80/20	2.5265
957431	AF2-037 C	13.8541	80/20	13.8541
957491	AF2-043 C	2.1139	Adder	2.49
957631	AF2-057	4.1972	80/20	4.1972
957691	AF2-063 C	22.1076	80/20	22.1076
957711	AF2-065 C	13.6175	Adder	16.02
957871	AF2-081 C	9.8937	Adder	11.64
957911	AF2-085	4.5978	80/20	4.5978
958141	AF2-108	2.1036	80/20	2.1036
958161	AF2-110 C	1.3664	Adder	1.61
959641	AF2-255 C	0.6328	80/20	0.6328
959651	AF2-256 C	0.6316	80/20	0.6316
959661	AF2-257 C	0.6316	80/20	0.6316
959671	AF2-258 C	0.6314	80/20	0.6314
959681	AF2-259 C	3.1554	80/20	3.1554
961711	AG1-011	15.0928	Adder	33.5
961811	AG1-023 C	3.9498	80/20	3.9498
962191	AG1-064 C	1.7002	80/20	1.7002
962201	AG1-065 C	1.7002	80/20	1.7002
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.1300	Adder	2.51
962841	AG1-133 C O2	36.0396	80/20	36.0396
962961	AG1-145 C	1.1237	Adder	2.49
963111	AG1-160 C	2.7973	Adder	6.21
963221	AG1-171 C	1.1323	Adder	2.51
963231	AG1-172 C	1.1323	Adder	2.51
963241	AG1-173 C	1.1323	Adder	2.51
963251	AG1-174 C	1.1323	Adder	2.51
963261	AG1-175 C	1.1323	Adder	2.51
963291	AG1-178 C O2	70.8337	80/20	70.8337
963351	AG1-184 O2	38.1613	80/20	38.1613
963821	AG1-235 C O2	12.7261	Adder	28.25
964421	AG1-305 C O2	17.6504	80/20	17.6504
964951	AG1-359 O1	14.1462	Adder	31.4
965001	AG1-364 C O2	8.3940	80/20	8.3940
965181	AG1-383 C	1.4525	Adder	3.22
965811	AG1-449	25.7078	80/20	25.7078
966491	AG1-518 O2	4.6622	Adder	10.35
966611	AG1-531 C	3.3855	Adder	7.51
966731	AG1-544 C	3.6759	Adder	8.16
966741	AG1-545 C	1.2254	Adder	2.72

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
WEC	WEC	0.7314	Confirmed LTF	0.7314
LGEE	LGEE	1.5946	Confirmed LTF	1.5946
CPLE	CPLE	8.6009	Confirmed LTF	8.6009
CBM-W2	CBM-W2	35.7952	Confirmed LTF	35.7952
NY	NY	2.7628	Confirmed LTF	2.7628
TVA	TVA	7.0210	Confirmed LTF	7.0210
SIGE	SIGE	0.8629	Confirmed LTF	0.8629
CBM-S2	CBM-S2	104.6401	Confirmed LTF	104.6401
CBM-S1	CBM-S1	1.7347	Confirmed LTF	1.7347
MEC	MEC	4.6176	Confirmed LTF	4.6176
LAGN	LAGN	8.5978	Confirmed LTF	8.5978
AA2-074	AA2-074	5.6795	LTF	5.6795
CBM-W1	CBM-W1	29.2317	Confirmed LTF	29.2317

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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
173395442	963290	AG1-178 TAP	DVP	939410	AE1-173_POI	DVP	1	DVP_P4-2: 562T563	breaker	3144.0	106.8	108.89	DC	70.89

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3092	50/50	0.3092
314189	6PAPERMILL	-3.7784	Adder	-4.45
314435	6SAPONY	0.2570	50/50	0.2570
314539	3UNCAMP	-3.8616	Adder	-4.54
315102	1BRUNSWICKG1	13.2307	50/50	13.2307
315103	1BRUNSWICKG2	13.2307	50/50	13.2307
315104	1BRUNSWICKG3	13.2307	50/50	13.2307
315105	1BRUNSWICKS1	27.4866	50/50	27.4866
315153	1CLOVER1	15.9761	50/50	15.9761
315154	1CLOVER2	15.8169	50/50	15.8169
315241	1Z1-086 GT1	17.1480	50/50	17.1480
315242	1Z1-086 GT2	17.1480	50/50	17.1480
315243	1Z1-086 GT3	17.1480	50/50	17.1480
315244	1Z1-086 ST	29.8096	50/50	29.8096
315266	1PLYWOOD A	1.0198	50/50	1.0198
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	-30.4840	Adder	-35.86
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	-30.4840	Adder	-35.86
316114	AB2-068 ST (Withdrawn : 01/11/2021)	-52.8103	Adder	-62.13
316118	AC1-105 C	4.8942	50/50	4.8942
316123	AC1-075 C	0.6875	50/50	0.6875
316131	AB2-060 C	0.8891	50/50	0.8891
316132	AB2-190 C	-11.2564	Adder	-13.24
923852	AB2-025 E	0.7319	50/50	0.7319
924022	AB2-043 E O1	1.7524	50/50	1.7524
924162	AB2-060 E OP	2.6519	50/50	2.6519
924301	AB2-077 C O1 (Suspended)	1.2522	50/50	1.2522
924302	AB2-077 E O1 (Suspended)	0.8348	50/50	0.8348
924311	AB2-078 C O1 (Suspended)	1.2522	50/50	1.2522
924312	AB2-078 E O1 (Suspended)	0.8348	50/50	0.8348
924321	AB2-079 C O1 (Suspended)	1.2522	50/50	1.2522
924322	AB2-079 E O1 (Suspended)	0.8348	50/50	0.8348
925863	AC1-065 C	-4.3013	Adder	-5.06
925997	AC1-075 E	2.4688	50/50	2.4688

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926023	AC1-080 C	0.2298	50/50	0.2298
926024	AC1-080 E	0.8191	50/50	0.8191
926274	AC1-105 E	2.4045	50/50	2.4045
926754	AC1-161 C	-33.7452	Adder	-39.7
927251	AC1-221 C	2.0468	50/50	2.0468
927252	AC1-221 E	2.0468	50/50	2.0468
927261	AC1-222 C	3.2852	50/50	3.2852
927262	AC1-222 E	3.1274	50/50	3.1274
932761	AC2-100 C	4.7104	50/50	4.7104
932762	AC2-100 E	2.2991	50/50	2.2991
934061	AD1-033 C	-9.0899	Adder	-10.69
934141	AD1-041 C	-3.1674	Adder	-3.73
934311	AD1-055 C	2.2810	50/50	2.2810
934312	AD1-055 E	0.5882	50/50	0.5882
934341	AD1-058 C	5.1310	50/50	5.1310
934342	AD1-058 E	1.3038	50/50	1.3038
934615	AD1-087 C	10.0012	50/50	10.0012
934616	AD1-087 E	4.2797	50/50	4.2797
934625	AD1-088 C	12.8927	50/50	12.8927
934626	AD1-088 E	3.3767	50/50	3.3767
934991	AD1-131 C	1.6823	50/50	1.6823
934992	AD1-131 E	1.1215	50/50	1.1215
935171	AD1-152 C O1	10.9853	50/50	10.9853
935172	AD1-152 E O1	7.3235	50/50	7.3235
936161	AD2-022 C O1	6.7644	50/50	6.7644
936162	AD2-022 E O1	4.0586	50/50	4.0586
936171	AD2-023 C O1	3.9459	50/50	3.9459
936172	AD2-023 E O1	2.1421	50/50	2.1421
936265	AD2-033 C	7.9856	50/50	7.9856
936266	AD2-033 E	5.3238	50/50	5.3238
936485	AD2-063 C	9.2745	50/50	9.2745
936486	AD2-063 E	6.1830	50/50	6.1830
937481	AD2-202 C O1	2.9294	50/50	2.9294
937482	AD2-202 E O1	1.6478	50/50	1.6478
938494	AE1-068_C1	51.6375	50/50	51.6375
938497	AE1-068_C2	51.6375	50/50	51.6375
938498	AE1-068_E1	28.5450	50/50	28.5450
938499	AE1-068_E2	28.5450	50/50	28.5450
938504	AE1-069_C1	39.3536	50/50	39.3536
938507	AE1-069_C2	42.4326	50/50	42.4326
938508	AE1-069_E1	22.3870	50/50	22.3870
938509	AE1-069_E2	24.1189	50/50	24.1189
939431	AE1-175 C	-1.8138	Adder	-2.13
940231	AE2-005 C	-0.7820	Adder	-0.92
940471	AE2-031 C	56.5831	50/50	56.5831
940472	AE2-031 E	37.7220	50/50	37.7220
940481	AE2-033 C	10.0303	50/50	10.0303
940482	AE2-033 E	6.7620	50/50	6.7620
940541	AE2-040	1.8534	50/50	1.8534
940552	AE2-041 BAT	4.9116	50/50	4.9116
940891	AE2-078 C	-2.0107	Adder	-2.37
940901	AE2-079 C	-2.0107	Adder	-2.37

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941031	AE2-094 C	68.3097	50/50	68.3097
941032	AE2-094 E	30.5943	50/50	30.5943
941791	AE2-182 C	2.0946	50/50	2.0946
941792	AE2-182 E	0.9751	50/50	0.9751
942131	AE2-225 C	-2.4492	Adder	-2.88
942171	AE2-229 C	-1.8369	Adder	-2.16
942451	AE2-258	1.4620	50/50	1.4620
942552	AE2-270 BAT	18.7320	50/50	18.7320
942931	AE2-313 C	61.1245	50/50	61.1245
942932	AE2-313 E	40.7497	50/50	40.7497
943472	AF1-018 BAT	4.9116	50/50	4.9116
943611	AF1-032 C	-2.0002	Adder	-2.35
943621	AF1-033 C	-2.0107	Adder	-2.37
943901	AF1-058 C	1.8214	50/50	1.8214
943902	AF1-058 E	1.2142	50/50	1.2142
944011	AF1-069 C	22.3193	50/50	22.3193
944012	AF1-069 E	8.6706	50/50	8.6706
945363	AF1-201 BAT	3.3658	50/50	3.3658
945811	AF1-246 C O1	10.7961	50/50	10.7961
945812	AF1-246 E O1	14.9089	50/50	14.9089
946011	AF1-266	8.3962	50/50	8.3962
957481	AF2-042 C	77.1150	50/50	77.1150
957482	AF2-042 E	51.4100	50/50	51.4100
957491	AF2-043 C	-2.4492	Adder	-2.88
957632	AF2-057 BAT	5.0526	50/50	5.0526
959751	AF2-266	11.4680	50/50	11.4680
960061	AF2-297 C	7.2854	50/50	7.2854
960062	AF2-297 E	4.8570	50/50	4.8570
961091	AF2-400 C	-0.2729	Adder	-0.32
961612	AG1-000B BAT	9.7725	50/50	9.7725
961691	AG1-009 BAT	7.8180	50/50	7.8180
961712	AG1-011 BAT	20.8480	50/50	20.8480
961853	AG1-028 BAT	21.3900	50/50	21.3900
962132	AG1-057 BAT	2.4558	50/50	2.4558
962271	AG1-075 C O2	10.5036	50/50	10.5036
962272	AG1-075 E O2	6.4014	50/50	6.4014
962441	AG1-093 C O2	18.6521	50/50	18.6521
962442	AG1-093 E O2	5.6767	50/50	5.6767
962491	AG1-098 C O2	7.7535	50/50	7.7535
962492	AG1-098 E O2	5.1690	50/50	5.1690
962561	AG1-105 C O2	7.6428	50/50	7.6428
962562	AG1-105 E O2	5.0952	50/50	5.0952
963041	AG1-153 C	9.2835	50/50	9.2835
963042	AG1-153 E	13.9253	50/50	13.9253
963111	AG1-160 C	9.4788	50/50	9.4788
963112	AG1-160 E	14.2182	50/50	14.2182
963271	AG1-176 C O2	11.6825	50/50	11.6825
963272	AG1-176 E O2	7.7884	50/50	7.7884
963291	AG1-178 C O2	131.5909	50/50	131.5909
963321	AG1-181 C O2	10.3304	50/50	10.3304
963351	AG1-184 O2	70.8940	50/50	70.8940
963613	AG1-210 BAT	1.0459	50/50	1.0459

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964241	AG1-285 C O2	19.7310	50/50	19.7310
964242	AG1-285 E O2	13.1540	50/50	13.1540
964261	AG1-287 C	1.3660	50/50	1.3660
964262	AG1-287 E	0.9107	50/50	0.9107
964471	AG1-310 C	1.8769	50/50	1.8769
964472	AG1-310 E	0.9245	50/50	0.9245
964791	AG1-342 C	3.3221	50/50	3.3221
964792	AG1-342 E	2.6102	50/50	2.6102
964841	AG1-347 C	9.6981	50/50	9.6981
964842	AG1-347 E	7.6199	50/50	7.6199
964931	AG1-357 C O2	12.3720	50/50	12.3720
964932	AG1-357 E O2	8.2480	50/50	8.2480
964952	AG1-359 BAT	38.2185	50/50	38.2185
965003	AG1-364 BAT	25.1120	50/50	25.1120
965183	AG1-383 BAT	2.1602	50/50	2.1602
965591	AG1-427 C	7.3382	50/50	7.3382
965592	AG1-427 E	4.9025	50/50	4.9025
965811	AG1-449	39.6732	50/50	39.6732
966361	AG1-505 C	26.9838	50/50	26.9838
966362	AG1-505 E	17.9892	50/50	17.9892
966371	AG1-506 C	26.9838	50/50	26.9838
966372	AG1-506 E	17.9892	50/50	17.9892
966492	AG1-518 BAT	11.9055	50/50	11.9055
966663	AG1-536 BAT	8.3655	50/50	8.3655
966932	AG1-431A BAT	28.2400	50/50	28.2400
WEC	WEC	0.8467	Confirmed LTF	0.8467
LGEE	LGEE	1.7379	Confirmed LTF	1.7379
CPL	CPL	7.7211	Confirmed LTF	7.7211
CBM-W2	CBM-W2	36.0461	Confirmed LTF	36.0461
NY	NY	0.9473	Confirmed LTF	0.9473
TVA	TVA	6.7368	Confirmed LTF	6.7368
O-066	O-066	13.6081	Confirmed LTF	13.6081
SIGE	SIGE	0.5209	Confirmed LTF	0.5209
CBM-S2	CBM-S2	96.6535	Confirmed LTF	96.6535
CBM-S1	CBM-S1	1.6872	Confirmed LTF	1.6872
G-007	G-007	2.1420	Confirmed LTF	2.1420
MEC	MEC	5.0053	Confirmed LTF	5.0053
LAGN	LAGN	8.3720	Confirmed LTF	8.3720
AA2-074	AA2-074	5.1021	LTF	5.1021
CBM-W1	CBM-W1	35.6248	Confirmed LTF	35.6248

13.6 Contingency Descriptions - Secondary POI

Contingency Name	Contingency Definition
DVP_P1-2: LN 567	CONTINGENCY 'DVP_P1-2: LN 567' OPEN BRANCH FROM BUS 314903 TO BUS 314924 CKT 1 /* 8CHCKAHM 500.00 - 8SURRY 500.00 END
DVP_P1-2: LN 574	CONTINGENCY 'DVP_P1-2: LN 574' OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END
DVP_P1-2: LN 594	CONTINGENCY 'DVP_P1-2: LN 594' OPEN BRANCH FROM BUS 314916 TO BUS 314934 CKT 1 /* 8MORRSVL 500.00 - 8SPOTSYL 500.00 END
DVP_P1-2: LN 580	CONTINGENCY 'DVP_P1-2: LN 580' OPEN BRANCH FROM BUS 235110 TO BUS 314929 CKT 1 /* 01MDWBRK 500.00 - 8FRONT ROYAL500.00 END
DVP_P1-2: LN 563	CONTINGENCY 'DVP_P1-2: LN 563' OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END
DVP_P1-2: LN 249	CONTINGENCY 'DVP_P1-2: LN 249' / 1030 OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 / 314282 6CARSON 230 314285 6CHRL249 230 1 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 / 314285 6CHRL249 230 314316 6LOCKS 230 1 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 / 314314 3LOCKS 115 314316 6LOCKS 230 2 END
DVP_P4-2: H2T557	CONTINGENCY 'DVP_P4-2: H2T557' /* ELMONT 500 KV OPEN BRANCH FROM BUS 314214 TO BUS 314903 CKT 1 /* 6CHCKAHM 230.00 - 8CHCKAHM 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 OPEN BRANCH FROM BUS 314218 TO BUS 314908 CKT 2 /* 6ELMONT 230.00 - 8ELMONT 500.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 575	CONTINGENCY 'DVP_P1-2: LN 575' OPEN BRANCH FROM BUS 314911 TO BUS 314918 CKT 1 /* 8LADYSMITH 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_P4-2: 56372	CONTINGENCY 'DVP_P4-2: 56372' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 END
DVP_P1-2: LN 576	CONTINGENCY 'DVP_P1-2: LN 576' OPEN BRANCH FROM BUS 314914 TO BUS 314918 CKT 1 /* 8MDLTHAN 500.00 - 8NO ANNA 500.00 END
DVP_P4-2: 557T574	CONTINGENCY 'DVP_P4-2: 557T574' /* ELMONT 500 KV OPEN BRANCH FROM BUS 314214 TO BUS 314903 CKT 1 /* 6CHCKAHM 230.00 - 8CHCKAHM 500.00 OPEN BRANCH FROM BUS 314903 TO BUS 314908 CKT 1 /* 8CHCKAHM 500.00 - 8ELMONT 500.00 OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END
DVP_P1-2: LN 552	CONTINGENCY 'DVP_P1-2: LN 552' OPEN BRANCH FROM BUS 314135 TO BUS 314905 CKT 1 /* 3CHANCE 115.00 - 8CHANCE 500.00 OPEN BRANCH FROM BUS 314900 TO BUS 314905 CKT 1 /* 8BRISTER 500.00 - 8CHANCE 500.00 END
DVP_P1-2: LN 573-B	CONTINGENCY 'DVP_P1-2: LN 573-B' OPEN BRANCH FROM BUS 962840 TO BUS 314934 CKT 1 /* AG1-133 TAP 500.00 - 8SPOTSYL 500.00 END
Base Case	

Contingency Name	Contingency Definition
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 573-A	CONTINGENCY 'DVP_P1-2: LN 573-A' OPEN BRANCH FROM BUS 314918 TO BUS 962840 CKT 1 /* 8NO ANNA 500.00 - AG1-133 TAP 500.00 END
DVP_P1-2: LN 581	CONTINGENCY 'DVP_P1-2: LN 581' OPEN BRANCH FROM BUS 314135 TO BUS 314905 CKT 2 /* 3CHANCE 115.00 - 8CHANCE 500.00 OPEN BRANCH FROM BUS 314905 TO BUS 314911 CKT 1 /* 8CHANCE 500.00 - 8LADYSMITH 500.00 END
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_P1-2: LN 562-B-1	CONTINGENCY 'DVP_P1-2: LN 562-B-1' OPEN BRANCH FROM BUS 940640 TO BUS 314923 CKT 1 /* AE2-051 TAP 500.00 - 8SEPTA 500.00 END

14 Affected Systems

14.1 TVA

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

14.2 Duke Energy Progress

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

15 Attachment 1: One Line Diagram