



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-075
PURDY-SAPONY 115 KV
93.2 MW Capacity / 150 MW Energy**

January 2021

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1 Introduction

This Feasibility Study has been prepared in accordance with the PJM Open Access Transmission Tariff, 36.2, as well as the Feasibility Study Agreement between the Interconnection Customer (IC), and PJM Interconnection, LLC (PJM), Transmission Provider (TP). The Interconnected Transmission Owner (ITO) is Dominion.

2 Preface

The intent of the feasibility study is to determine a plan, with ballpark cost and construction time estimates, to connect the subject generation to the PJM network at a location specified by the Interconnection Customer. The Interconnection Customer may request the interconnection of generation as a capacity resource or as an energy-only resource. As a requirement for interconnection, the Interconnection Customer may be responsible for the cost of constructing: (1) Direct Connections, which are new facilities and/or facilities upgrades needed to connect the generator to the PJM network, and (2) Network Upgrades, which are facility additions, or upgrades to existing facilities, that are needed to maintain the reliability of the PJM system.

In some instances a generator interconnection may not be responsible for 100% of the identified network upgrade cost because other transmission network uses, e.g. another generation interconnection, may also contribute to the need for the same network reinforcement. Cost allocation rules for network upgrades can be found in PJM Manual 14A, Attachment B. The possibility of sharing the reinforcement costs with other projects may be identified in the feasibility study, but the actual allocation will be deferred until the impact study is performed.

The Interconnection Customer seeking to interconnect a wind or solar generation facility shall maintain meteorological data facilities as well as provide that meteorological data which is required per Schedule H to the Interconnection Service Agreement and Section 8 of Manual 14D.

An Interconnection Customer with a proposed new Customer Facility that has a Maximum Facility Output equal to or greater than 100 MW shall install and maintain, at its expense, phasor measurement units (PMUs). See Section 8.5.3 of Appendix 2 to the Interconnection Service Agreement as well as section 4.3 of PJM Manual 14D for additional information.

The Feasibility Study estimates do not include the feasibility, cost, or time required to obtain property rights and permits for construction of the required facilities. The project developer is responsible for the right of way, real estate, and construction permit issues. For properties currently owned by Transmission Owners, the costs may be included in the study.

3 General

The Interconnection Customer (IC), has proposed a Solar generating facility located in Greenville County, Virginia. The installed facilities will have a total capability of 150 MW with 93.2 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is October 15, 2024. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-075
Project Name	PURDY-SAPONY 115 KV
State	Virginia
County	Greenville
Transmission Owner	Dominion
MFO	150
MWE	150
MWC	93.2
Fuel	Solar
Basecase Study Year	2024

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

4 Point of Interconnection

4.1 Primary Point of Interconnection

AG1-075 "Purdy-Sapony 115 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 115 kV three breaker ring bus located on the line between the Purdy substation and Sapony substation.

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

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

4.2 Secondary Point of Interconnection

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

The secondary POI for AG1-075 is a new tap on the Sapony-Clubhouse 230 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 AG1-075 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$ 8,800,000
Total System Network Upgrade Costs	\$589,872,000 ¹
Total Costs	\$598,672,000

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

¹ This project currently causes and 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.

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 AG1-075 to the Dominion Transmission System is detailed in the following sections. The associated one-line showing the generation project attachment facilities and primary direct and non-direct connection is shown in Attachment 1.

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

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

Description	Total Cost
Attachment Facilities	\$1,700,000
115 kV Three Breaker Ring-Bus Substation	\$5,500,000
Re-arrange line and tie-in new substation	\$1,600,000
Total Physical Interconnection Costs	\$8,800,000

AG1-075 "Purdy-Sapony 115 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 115 kV three breaker ring bus located on the line between the Purdy substation and Sapony substation.

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

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

7 Schedule

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

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 report¹.

8 Transmission Owner Analysis

Dominion assessed the impact of the proposed AG1-075 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.

8.2 Short Circuit Analysis

No impacts.

8.3 Stability Analysis

To be performed in the Facilities Study phase.

9 Interconnection Customer Requirements

9.1 System Protection

The IC must design its Customer Facilities in accordance with all applicable standards, including the standards in Dominion’s “Dominion Energy Electric Transmission Generator Interconnection Requirements” documented in Dominion’s Facility Interconnection Requirements “Exhibit C” located at: <https://www.dominionenergy.com/company/moving-energy/electric-transmission-access>. Preliminary Protection requirements will be provided as part of the Facilities Study. Detailed Protection Requirements will be provided once the project enters the construction phase.

9.2 Compliance Issues and Interconnection Customer Requirements

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

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

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

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

9.3 Power Factor Requirements

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

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

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

10.2 Meteorological Data Reporting Requirements

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

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

10.3 Interconnected Transmission Owner Requirements

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

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

11 Summer Peak - Load Flow Analysis - Primary POI

The Queue Project AG1-075 was evaluated as a 150.0 MW (Capacity 93.2 MW) injection tapping the Purdy to Sapony 115 kV line in the Dominion area. Project AG1-075 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-075 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

11.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPAC T
168630978	314314	3LOCK S	115.0	DVP	940430	AE2-027 TAP	115.0	DVP	1	DVP_P1-2: LN 563	singl e	138.179992676	97.83	116.2	DC	25.39
168630979	314314	3LOCK S	115.0	DVP	940430	AE2-027 TAP	115.0	DVP	1	DVP_P1-2: LN 205	singl e	138.179992676	85.12	109.57	DC	33.78
169324674	316110	3FROGLICK	115.0	DVP	314334	3REAMSD	115.0	DVP	1	Base Case	singl e	152.279998779	55.42	116.63	DC	93.2

11.2 Multiple Facility Contingency

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

None

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPAC T
168630922	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	2	DVP_P1-2: LN 557	singl e	879.840026855	150.51	151.12	DC	13.69
168630950	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P1-2: LN 557	singl e	920.918029785	144.47	145.05	DC	13.75
168631077	314225	6CHARCTY	230.0	DVP	314227	6LAKESIDE	230.0	DVP	1	DVP_P1-2: LN 563	singl e	984.179992676	108.56	109.44	DC	11.81
168630957	314236	6NRTHEST	230.0	DVP	314218	6ELMONT	230.0	DVP	1	DVP_P1-2: LN 557	singl e	678.679992676	118.3	119.73	DC	9.6
168631065	314260	6VARINA	230.0	DVP	314225	6CHARCTY	230.0	DVP	1	DVP_P1-2: LN 563	singl e	984.179992676	111.97	112.85	DC	11.81
168631235	314286	6CHESTFA	230.0	DVP	314214	6CHCKAHM	230.0	DVP	1	DVP_P1-2: LN 2049	singl e	584.679992676	100.51	101.86	DC	8.05
168630821	314287	6CHESTFB	230.0	DVP	314276	6BASIN	230.0	DVP	1	DVP_P1-2: LN 563	singl e	663.640014648	158.68	159.79	DC	10.7
168630822	314287	6CHESTFB	230.0	DVP	314276	6BASIN	230.0	DVP	1	DVP_P1-2: LN 217	singl e	663.640014648	147.08	147.1	DC	13.66
168631058	314287	6CHESTFB	230.0	DVP	314260	6VARINA	230.0	DVP	1	DVP_P1-2: LN 563	singl e	984.179992676	112.33	113.21	DC	11.81
168631026	314301	6HARR20S	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P1-2: LN 563	singl e	441.799987793	125.85	129.63	DC	24.01
163105230	314303	6HOPEWL	230.0	DVP	314286	6CHESTFA	230.0	DVP	1	DVP_P2-2: BASIN B7	bus	549.0	176.64	177.75	DC	13.7

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
163105505	314303	6HOPEWL L	230.0	DVP	314286	6CHESTF A	230.0	DVP	1	DVP_P 7-1: LN 212-240-D	towe r	549.0	195.91	198.72	DC	15.47
163105506	314303	6HOPEWL L	230.0	DVP	314286	6CHESTF A	230.0	DVP	1	DVP_P 7-1: LN 212-240-C	towe r	549.0	188.63	191.45	DC	15.47
168630817	314303	6HOPEWL L	230.0	DVP	314286	6CHESTF A	230.0	DVP	1	DVP_P 7-1: LN 240-D	singl e	449.320007324	161.31	162.96	DC	7.42
168630818	314303	6HOPEWL L	230.0	DVP	314286	6CHESTF A	230.0	DVP	1	Base Case	singl e	449.320007324	149.24	150.65	DC	6.42
166888477	314314	3LOCKS	115.0	DVP	940430	AE2-027 TAP	115.0	DVP	1	DVP_P 7-1: LN 205-2003	towe r	169.0	120.59	153.69	DC	55.94
168630953	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 563	singl e	441.799987793	131.01	134.8	DC	24.01
168630955	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 2002	singl e	441.799987793	100.78	105.76	DC	22.0
163496064	314908	8ELMONT	500.0	DVP	314911	8LADYSMIT H	500.0	DVP	1	DVP_P 1-2: LN 576	singl e	2442.12011719	218.8	218.84	DC	29.08
163496068	314908	8ELMONT	500.0	DVP	314911	8LADYSMIT H	500.0	DVP	1	DVP_P 1-2: LN 534	singl e	2442.12011719	187.81	188.1	DC	27.91
166888446	940430	AE2-027 TAP	115.0	DVP	314298	3HARROW G	115.0	DVP	1	DVP_P 7-1: LN 205-2003	towe r	169.0	160.55	193.65	DC	55.94
169550861	940430	AE2-027 TAP	115.0	DVP	314298	3HARROW G	115.0	DVP	1	DVP_P 1-2: LN 563	singl e	138.179992676	123.74	142.11	DC	25.39
169550862	940430	AE2-027 TAP	115.0	DVP	314298	3HARROW G	115.0	DVP	1	DVP_P 1-2: LN 228	singl e	138.179992676	117.42	135.96	DC	25.62
169550863	940430	AE2-027 TAP	115.0	DVP	314298	3HARROW G	115.0	DVP	1	Base Case	singl e	138.179992676	103.79	121.96	DC	25.11

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 PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPAC T
168631133	314212	6FOUR RIVERS	230.0	DVP	314150	6STJOHN	230.0	DVP	1	DVP_P 1-2: LN 574	operation	1123.30004883	120.81	121.44	DC	15.82
168631204	314214	6CHCKAH M	230.0	DVP	314903	8CHCKAH M	500.0	DVP	1	DVP_P 1-2: LN 567	operation	934.923950195	112.12	112.32	DC	16.4
168630921	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	2	DVP_P 1-2: LN 557	operation	879.840026855	167.62	167.8	DC	22.03
168630949	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 1-2: LN 557	operation	920.918029785	160.89	161.06	DC	22.13
168631076	314225	6CHARCTY	230.0	DVP	314227	6LAKESIDE	230.0	DVP	1	DVP_P 1-2: LN 563	operation	984.179992676	136.43	136.87	DC	19.01
168631174	314227	6LAKESIDE	230.0	DVP	314218	6ELMONT	230.0	DVP	1	DVP_P 1-2: LN 557	operation	740.719970703	121.0	121.75	DC	18.9
168630956	314236	6NRTHEST	230.0	DVP	314218	6ELMONT	230.0	DVP	1	DVP_P 1-2: LN 557	operation	678.679992676	156.22	156.34	DC	15.45
168631064	314260	6VARINA	230.0	DVP	314225	6CHARCTY	230.0	DVP	1	DVP_P 1-2: LN 563	operation	984.179992676	139.84	140.27	DC	19.01
168631233	314286	6CHESTF A	230.0	DVP	314214	6CHCKAH M	230.0	DVP	1	DVP_P 1-2: LN 2049	operation	584.679992676	104.16	105.17	DC	12.96
168630819	314287	6CHESTF B	230.0	DVP	314276	6BASIN	230.0	DVP	1	DVP_P 1-2: LN 563	operation	663.640014648	193.28	195.89	DC	17.23
168630823	314287	6CHESTF B	230.0	DVP	314276	6BASIN	230.0	DVP	1	Base Case	operation	663.640014648	107.42	109.72	DC	15.24
168631057	314287	6CHESTF B	230.0	DVP	314260	6VARINA	230.0	DVP	1	DVP_P 1-2: LN 563	operation	984.179992676	140.2	140.64	DC	19.01
168631262	314287	6CHESTF B	230.0	DVP	314303	6HOPEWLL	230.0	DVP	1	DVP_P 1-2: LN 217	operation	449.320007324	102.21	103.58	DC	13.69
168631027	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P 1-2: LN 563	operation	441.799987793	119.82	128.57	DC	38.64
168631230	314311	6IRON282	230.0	DVP	314307	6HULL282	230.0	DVP	1	DVP_P 1-2: LN 563	operation	678.679992676	103.81	104.71	DC	13.59
168630975	314314	3LOCKS	115.0	DVP	940430	AE2-027 TAP	115.0	DVP	1	DVP_P 1-2: LN 205	operation	138.179992676	113.44	152.79	DC	54.37
168630977	314314	3LOCKS	115.0	DVP	940430	AE2-027 TAP	115.0	DVP	1	Base Case	operation	138.179992676	99.5	128.74	DC	40.41
168630952	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 563	operation	441.799987793	136.32	145.07	DC	38.64
168631200	314334	3REAMS D	115.0	DVP	314314	3LOCKS	115.0	DVP	1	Base Case	operation	239.699996948	54.86	117.44	DC	150.0
168630981	314337	3 69T148	115.0	DVP	316110	3FROG LICK	115.0	DVP	1	Base Case	operation	152.279998779	54.18	152.68	DC	150.0
168631205	314339	6SPRUNCE	230.0	DVP	314311	6IRON282	230.0	DVP	1	DVP_P 1-2: LN 563	operation	678.679992676	109.28	110.18	DC	13.59
163496073	314908	8ELMONT	500.0	DVP	314911	8LADYSMI TH	500.0	DVP	1	Base Case	operation	2442.12011719	166.9	166.95	DC	32.42
163496140	314911	8LADYSMI TH	500.0	DVP	314922	8POSSUM	500.0	DVP	1	DVP_P 1-2: LN 581	operation	2442.12011719	158.29	158.34	DC	25.45
169324673	316110	3FROG LICK	115.0	DVP	314334	3REAMS D	115.0	DVP	1	Base Case	operation	152.279998779	106.71	205.21	DC	150.0

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC DC	MW IMPACT
169550858	940430	AE2-027 TAP	115.0	DVP	314298	3HARROW G	115.0	DVP	1	DVP_P 1-2: LN 563	operation	138.179992676	163.67	193.24	DC	40.86
169550860	940430	AE2-027 TAP	115.0	DVP	314298	3HARROW G	115.0	DVP	1	Base Case	operation	138.179992676	142.48	171.72	DC	40.41

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Idx	Facility	Upgrade Description	Cost
168631235	8	6CHESTF A 230.0 kV - 6CHCKAHM 230.0 kV Ckt 1	<u>DVP</u> dom-299 (1686) : Rebuild 13.78 miles of 230 kV Line 287 from Chesterfield to Chickahominy with 2-636 ACSR 150C. Project Type : FAC Cost : \$34,450,000 Time Estimate : 36-40 Months	\$34,450,000
168631058	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
168631065	7	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
168630979,168 630978,166888 477	1	3LOCKS 115.0 kV - AE2-027 TAP 115.0 kV Ckt 1	<u>DVP</u> n6404 (1450) : Rebuild 4.4 miles of 115 kV Line 100 from Locks to AE2-027 Tap with 768 ACSS. Project Type : FAC Cost : \$5,720,000 Time Estimate : 30-36 Months	\$5,720,000
169324674	2	3FROG LICK 115.0 kV - 3REAMS D 115.0 kV Ckt 1	<u>DVP</u> dom-383 (1770) : Reconnector 0.94 miles of 115 kV Line 69 from Frog Lick to Reams D.P. with 636 ACSR 150 C Project Type : FAC Cost : \$564,000 Time Estimate : 30-36 Months	\$564,000
168631077	5	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
163105505,163 105506,168630 817,168630818, 163105230	12	6HOPEWLL 230.0 kV - 6CHESTF A 230.0 kV Ckt 1	<u>DVP</u> b2922 (1319) : PJM Baseline Upgrade b2922. Rebuild 8 of 11 miles of 230kV Lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR. The baseline project has an projected in-service date of 12/01/2020. Project Type : FAC Cost : \$0 n6155 (1558) : Rebuild 3 miles of 230 kV Line 211 from Hopewell to Chesterfield with 2-636 ACSR. Project Type : FAC Cost : \$7,500,000 Time Estimate : 30-36 Months	\$7,500,000
168630821,168 630822	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
168630950	4	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
168630922	3	6ELMONT 230.0 kV - 8ELMONT 500.0 kV Ckt 2		
168630955,168 630953	13	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

ID	Idx	Facility	Upgrade Description	Cost
163496068,163 496064	14	8ELMONT 500.0 kV - 8LADYSMITH 500.0 kV Ckt 1	<u>DVP</u> 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 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	\$400,000,000
169550863,169 550862,169550 861,166888446	15	AE2-027 TAP 115.0 kV - 3HARROWG 115.0 kV Ckt 1	<u>DVP</u> n6387 (1448) : Rebuild 0.90 miles of 115 kV Line 100 from AE2-027 Tap to Harrowgate with 768 ACS. S. Project Type : FAC Cost : \$1,170,000 Time Estimate : 30-36 Months	\$1,170,000
168630957	6	6NRTHEST 230.0 kV - 6ELMONT 230.0 kV Ckt 1	<u>DVP</u> dom-156 (1494) : Rebuild 12.98 miles of 230 kV Line 283 from Elmont to Northeast with 2-636 ACSR Project Type : FAC Cost : \$19,470,000 Time Estimate : 30-36 Months	\$19,470,000
168631026	11	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
			TOTAL COST	\$589,872,000 ¹

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
166888477	314314	3LOCKS	DVP	940430	AE2-027 TAP	DVP	1	DVP_P7-1: LN 205-2003	tower	169.0	120.59	153.69	DC	55.94

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314314	3LOCKS	0.5884	50/50	0.5884
314331	6POE	0.8296	Adder	0.98
316083	AB2-161 C	1.4110	Adder	1.66
316084	AB2-161 E	2.3022	Adder	2.71
316108	AB2-160 C	11.3380	50/50	11.3380
316109	AB2-160 E	18.4988	50/50	18.4988
923852	AB2-025 E	0.3367	Adder	0.4
932581	AC2-078 C O1	1.7322	Adder	2.04
932582	AC2-078 E O1	2.8262	Adder	3.32
932591	AC2-079 C O1	1.6004	Adder	1.88
932592	AC2-079 E O1	2.6111	Adder	3.07
934575	AD1-082 C	3.2157	Adder	3.78
934576	AD1-082 E	1.8343	Adder	2.16
938634	AE1-085 C	3.8713	Adder	4.55
938635	AE1-085 E	1.9357	Adder	2.28
939195	AE1-149 C	5.0832	Adder	5.98
939196	AE1-149 E	3.3888	Adder	3.99
940061	AE2-000BC O1	4.2835	Adder	5.04
940062	AE2-000BE O1	2.8557	Adder	3.36
940481	AE2-033 C	4.6767	Adder	5.5
940482	AE2-033 E	3.1528	Adder	3.71
940541	AE2-040	0.8526	Adder	1.0
940651	AE2-052	1.6944	Adder	1.99
942371	AE2-250 C O1	20.1398	50/50	20.1398
942372	AE2-250 E O1	10.6294	50/50	10.6294
946011	AF1-266	3.9148	Adder	4.61
958141	AF2-108	1.3323	50/50	1.3323
959681	AF2-259 C	1.9985	50/50	1.9985
959682	AF2-259 E	1.3323	50/50	1.3323
962271	AG1-075 C O1	34.7599	50/50	34.7599
962272	AG1-075 E O1	21.1841	50/50	21.1841
966731	AG1-544 C	1.6025	Adder	3.56
966732	AG1-544 E	0.8597	Adder	1.91
966741	AG1-545 C	0.5295	Adder	1.18
966742	AG1-545 E	0.2839	Adder	0.63
WEC	WEC	0.0756	Confirmed LTF	0.0756
LGEE	LGEE	0.1552	Confirmed LTF	0.1552
CPL	CPL	0.8552	Confirmed LTF	0.8552
CBM-W2	CBM-W2	3.3958	Confirmed LTF	3.3958
NY	NY	0.1095	Confirmed LTF	0.1095
TVA	TVA	0.6454	Confirmed LTF	0.6454

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
O-066	O-066	1.5344	Confirmed LTF	1.5344
SIGE	SIGE	0.0519	Confirmed LTF	0.0519
CBM-S2	CBM-S2	9.9806	Confirmed LTF	9.9806
CBM-S1	CBM-S1	0.1604	Confirmed LTF	0.1604
G-007	G-007	0.2404	Confirmed LTF	0.2404
MEC	MEC	0.4576	Confirmed LTF	0.4576
LAGN	LAGN	0.8033	Confirmed LTF	0.8033
CBM-W1	CBM-W1	3.1545	Confirmed LTF	3.1545

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
169324674	316110	3FROG LICK	DVP	314334	3REAMS D	DVP	1	Base Case	single	152.28	55.42	116.63	DC	93.2

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316108	AB2-160 C	30.4000	80/20	30.4000
942371	AE2-250 C O1	54.0000	80/20	54.0000
962271	AG1-075 C O1	93.2000	80/20	93.2000

11.6.3 Index 3

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168630922	314218	6ELMONT	DVP	314908	8ELMONT	DVP	2	DVP_P1-2: LN 557	single	879.84	150.51	151.12	DC	13.69

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
CPL	CPL	3.2692	Confirmed LTF	3.2692
CBM-W2	CBM-W2	7.4816	Confirmed LTF	7.4816
NY	NY	0.7001	Confirmed LTF	0.7001
TVA	TVA	1.6660	Confirmed LTF	1.6660
SIGE	SIGE	0.1751	Confirmed LTF	0.1751
CBM-S2	CBM-S2	35.9554	Confirmed LTF	35.9554
CBM-S1	CBM-S1	0.3865	Confirmed LTF	0.3865
MEC	MEC	0.6896	Confirmed LTF	0.6896
LAGN	LAGN	2.0825	Confirmed LTF	2.0825
AA2-074	AA2-074	2.1551	LTF	2.1551
CBM-W1	CBM-W1	2.3133	Confirmed LTF	2.3133

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168630950	314218	6ELMONT	DVP	314908	8ELMONT	DVP	1	DVP_P1-2: LN 557	single	920.92	144.47	145.05	DC	13.75

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
CPL	CPL	3.2849	Confirmed LTF	3.2849
CBM-W2	CBM-W2	7.5085	Confirmed LTF	7.5085
NY	NY	0.7034	Confirmed LTF	0.7034
TVA	TVA	1.6744	Confirmed LTF	1.6744
SIGE	SIGE	0.1759	Confirmed LTF	0.1759
CBM-S2	CBM-S2	36.1224	Confirmed LTF	36.1224
CBM-S1	CBM-S1	0.3884	Confirmed LTF	0.3884
MEC	MEC	0.6912	Confirmed LTF	0.6912
LAGN	LAGN	2.0913	Confirmed LTF	2.0913
AA2-074	AA2-074	2.1654	LTF	2.1654
CBM-W1	CBM-W1	2.3273	Confirmed LTF	2.3273

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168631077	314225	6CHARCTY	DVP	314227	6LAKESIDE	DVP	1	DVP_P1-2: LN 563	single	984.18	108.56	109.44	DC	11.81

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
168630957	314236	6NRTHEST	DVP	314218	6ELMONT	DVP	1	DVP_P1-2: LN 557	single	678.68	118.3	119.73	DC	9.6

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314184	3SHACKLE	0.3039	80/20	0.3039
314236	6NRTHEST	0.3943	80/20	0.3943
314243	3PROV 92	0.2838	80/20	0.2838
314314	3LOCKS	0.1625	80/20	0.1625
314375	6CORRCTN	0.2160	80/20	0.2160
315058	1CHESTF3 (Deactivation : 13/12/2018)	13.0820	80/20	13.0820
315059	1CHESTF4 (Deactivation : 13/12/2018)	21.2059	80/20	21.2059
315060	1CHESTF5 (Deactivation : 31/05/2023)	27.2332	Adder	32.04
315065	1CHESTF6 (Deactivation : 31/05/2023)	72.1431	80/20	72.1431
315067	1DARBY 1	4.8719	80/20	4.8719
315068	1DARBY 2	4.8776	80/20	4.8776
315069	1DARBY 3	4.8947	80/20	4.8947
315070	1DARBY 4	4.9004	80/20	4.9004
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0095	80/20	0.0095
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0095	80/20	0.0095
315076	1HOPPOLC	0.7985	80/20	0.7985
315077	1HOPHCF1	1.2481	80/20	1.2481
315078	1HOPHCF2	1.2481	80/20	1.2481
315079	1HOPHCF3	1.2481	80/20	1.2481
315080	1HOPHCF4	1.8947	80/20	1.8947
315083	1SPRUNCA (Deactivation : 12/01/2021)	12.1446	80/20	12.1446
315084	1SPRUNCB (Deactivation : 12/01/2021)	12.1446	80/20	12.1446
316075	AC2-137 C	0.3699	80/20	0.3699
316083	AB2-161 C	1.3994	Adder	1.65
316103	AB2-015 C	2.8777	Adder	3.39
316108	AB2-160 C	3.1321	80/20	3.1321
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	21.7960	Adder	25.64
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	21.7960	Adder	25.64
316114	AB2-068 ST (Withdrawn : 01/11/2021)	37.7593	Adder	44.42
316132	AB2-190 C	8.5604	Adder	10.07
316134	AC1-107 G1	40.9289	Adder	48.15

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316135	AC1-107 G2	40.9289	Adder	48.15
316136	AC1-107 G3	40.9366	Adder	48.16
925863	AC1-065 C	4.0262	80/20	4.0262
926754	AC1-161 C	10.3668	Adder	12.2
926784	AC1-164 C	24.4404	80/20	24.4404
932044	AC2-012 C	3.5785	Adder	4.21
932581	AC2-078 C O1	1.6872	Adder	1.98
932591	AC2-079 C O1	2.2167	Adder	2.61
933294	AC2-141 C	10.3668	Adder	12.2
934014	AD1-025 C	7.0878	Adder	8.34
934061	AD1-033 C	2.6032	Adder	3.06
934141	AD1-041 C	2.8263	80/20	2.8263
934391	AD1-063 C	0.1367	80/20	0.1367
934575	AD1-082 C	3.1892	Adder	3.75
935164	AD1-151 C	6.8789	Adder	8.09
936041	AD2-007 C	0.3386	Adder	0.4
936051	AD2-008 C	1.2340	Adder	1.45
936151	AD2-021	0.0422	80/20	0.0422
936591	AD2-074 C	2.1500	Adder	2.53
936661	AD2-085 C	1.2821	Adder	1.51
936761	AD2-097 C	2.3033	80/20	2.3033
937221	AD2-160 C O1	2.0188	Adder	2.38
938535	AE1-072 C	6.0630	Adder	7.13
938634	AE1-085 C	3.7149	Adder	4.37
938771	AE1-103 C	1.2395	Adder	1.46
939195	AE1-149 C	4.5467	Adder	5.35
939245	AE1-155 C	4.8683	Adder	5.73
939431	AE1-175 C	1.2430	80/20	1.2430
939611	AE1-191 C	5.6526	80/20	5.6526
940061	AE2-000BC O1	4.3845	Adder	5.16
940231	AE2-005 C	0.7320	80/20	0.7320
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	60.6400	Adder	71.34
940431	AE2-027 C O1	8.2030	80/20	8.2030
940481	AE2-033 C	5.5436	Adder	6.52
940541	AE2-040	0.9914	Adder	1.17
940551	AE2-041	3.8512	80/20	3.8512
940651	AE2-052	1.5155	Adder	1.78
940891	AE2-078 C	0.9338	Adder	1.1
940901	AE2-079 C	0.9338	Adder	1.1
941101	AE2-104 C O1	1.1883	Adder	1.4
941281	AE2-122 C O1	9.8976	Adder	11.64
941291	AE2-123 C O1	10.1716	Adder	11.97
941301	AE2-124 C O1	9.2422	Adder	10.87
941501	AE2-147 C	5.3925	Adder	6.34
941591	AE2-156 O1	6.2747	Adder	7.38
942001	AE2-212 C	1.1974	80/20	1.1974
942131	AE2-225 C	0.7413	Adder	0.87
942161	AE2-228 C	1.2562	80/20	1.2562
942171	AE2-229 C	0.5560	Adder	0.65
942341	AE2-247 C	0.5561	Adder	0.65
942371	AE2-250 C O1	5.5636	80/20	5.5636

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942401	AE2-253 C	2.1234	Adder	2.5
942471	AE2-260 C O1	4.7386	Adder	5.57
942551	AE2-270	11.3666	Adder	13.37
943431	AF1-014 C	0.6935	80/20	0.6935
943461	AF1-017 C	0.5032	Adder	0.59
943471	AF1-018	3.8512	80/20	3.8512
943611	AF1-032 C	0.6054	Adder	0.71
943621	AF1-033 C	0.9338	Adder	1.1
943741	AF1-042 C	1.1250	Adder	1.32
944581	AF1-123 C O1	16.5029	Adder	19.42
944591	AF1-124 C O1	16.5029	Adder	19.42
944601	AF1-125 C O1	16.5029	Adder	19.42
944631	AF1-128 O1	23.8796	Adder	28.09
944641	AF1-129	60.5359	80/20	60.5359
944871	AF1-152 C	1.7975	Adder	2.11
945361	AF1-201 C O1	6.6479	Adder	7.82
946011	AF1-266	4.6405	Adder	5.46
946261	AF1-291 C	1.2548	80/20	1.2548
957491	AF2-043 C	0.7413	Adder	0.87
957601	AF2-054 C	0.9283	Adder	1.09
957631	AF2-057	1.2556	Adder	1.48
957711	AF2-065 C	5.7970	Adder	6.82
957821	AF2-076 C	1.8278	Adder	2.15
957831	AF2-077 C	0.8974	Adder	1.06
957871	AF2-081 C	3.4381	Adder	4.04
958141	AF2-108	0.9422	80/20	0.9422
958161	AF2-110 C	0.4899	Adder	0.58
958261	AF2-120 C	2.3851	Adder	2.81
959651	AF2-256 C	0.3140	80/20	0.3140
959661	AF2-257 C	0.3137	80/20	0.3137
959671	AF2-258 C	0.2993	80/20	0.2993
959681	AF2-259 C	1.4133	80/20	1.4133
961091	AF2-400 C	0.1554	Adder	0.18
961611	AG1-000B C	3.3764	Adder	7.49
961711	AG1-011	6.3805	Adder	14.16
961851	AG1-027 C	3.1398	Adder	6.97
961951	AG1-038 C	0.6590	Adder	1.46
962131	AG1-057	1.9256	80/20	1.9256
962271	AG1-075 C O1	9.6024	80/20	9.6024
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.4499	Adder	1.0
962531	AG1-102 C	0.2442	Adder	0.54
962861	AG1-135 C	1.2368	Adder	2.75
962961	AG1-145 C	1.1215	80/20	1.1215
962971	AG1-146 C	0.6601	Adder	1.47
962981	AG1-147 C	1.5402	Adder	3.42
963221	AG1-171 C	0.4861	Adder	1.08
963231	AG1-172 C	0.4861	Adder	1.08
963241	AG1-173 C	0.4861	Adder	1.08
963251	AG1-174 C	0.4861	Adder	1.08
963261	AG1-175 C	0.4861	Adder	1.08
963611	AG1-210 C	0.1238	Adder	0.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963821	AG1-235 C O1	4.4184	Adder	9.81
964211	AG1-282 C	0.3960	Adder	0.88
964951	AG1-359 O1	4.9235	Adder	10.93
965001	AG1-364 C O1	1.3304	Adder	2.95
965181	AG1-383 C	0.5054	Adder	1.12
965231	AG1-388 C	0.3960	Adder	0.88
966491	AG1-518 O1	1.6371	Adder	3.63
966611	AG1-531 C	1.3594	Adder	3.02
966661	AG1-536 C	1.0864	Adder	2.41
966731	AG1-544 C	1.5377	Adder	3.41
966741	AG1-545 C	0.5117	Adder	1.14
WEC	WEC	0.1191	Confirmed LTF	0.1191
LGEE	LGEE	0.2494	Confirmed LTF	0.2494
CPL	CPL	2.2154	Confirmed LTF	2.2154
CBM-W2	CBM-W2	6.9440	Confirmed LTF	6.9440
NY	NY	0.4606	Confirmed LTF	0.4606
TVA	TVA	1.4112	Confirmed LTF	1.4112
SIGE	SIGE	0.1432	Confirmed LTF	0.1432
CBM-S2	CBM-S2	25.2439	Confirmed LTF	25.2439
CBM-S1	CBM-S1	0.3409	Confirmed LTF	0.3409
MEC	MEC	0.8183	Confirmed LTF	0.8183
LAGN	LAGN	1.7552	Confirmed LTF	1.7552
AA2-074	AA2-074	1.4616	LTF	1.4616
CBM-W1	CBM-W1	4.7107	Confirmed LTF	4.7107

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
168631065	314260	6VARINA	DVP	314225	6CHARCTY	DVP	1	DVP_P1-2: LN 563	single	984.18	111.97	112.85	DC	11.81

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

11.6.8 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
168631235	314286	6CHESTF A	DVP	314214	6CHCKAHM	DVP	1	DVP_P1-2: LN 2049	single	584.68	100.51	101.86	DC	8.05

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314309	6IRON208	0.5395	80/20	0.5395
314314	3LOCKS	0.1363	80/20	0.1363
315058	1CHESTF3 (Deactivation : 13/12/2018)	12.1570	80/20	12.1570
315059	1CHESTF4 (Deactivation : 13/12/2018)	19.7065	80/20	19.7065
315060	1CHESTF5 (Deactivation : 31/05/2023)	113.5680	80/20	113.5680
315061	1CHESTG7	6.6909	80/20	6.6909
315062	1CHESTS7	3.0716	80/20	3.0716
315063	1CHESTG8	6.5834	80/20	6.5834
315064	1CHESTS8	3.3890	80/20	3.3890
315065	1CHESTF6 (Deactivation : 31/05/2023)	54.3565	80/20	54.3565
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0163	80/20	0.0163
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0163	80/20	0.0163
315076	1HOPPOLC	1.3690	80/20	1.3690
315077	1HOPHCF1	2.1398	80/20	2.1398
315078	1HOPHCF2	2.1398	80/20	2.1398
315079	1HOPHCF3	2.1398	80/20	2.1398
315080	1HOPHCF4	3.2484	80/20	3.2484
315116	1SURRY 1	6.8465	80/20	6.8465
315120	1GRAVEL4	0.7044	80/20	0.7044
315121	1GRAVEL5	0.6955	80/20	0.6955
315122	1GRAVEL6	0.7036	80/20	0.7036
316033	AB2-134 C	1.1520	80/20	1.1520
316083	AB2-161 C	1.1748	80/20	1.1748
316108	AB2-160 C	2.6260	80/20	2.6260
316132	AB2-190 C	12.8106	80/20	12.8106
925863	AC1-065 C	-3.0105	Adder	-3.54
926784	AC1-164 C	-29.8599	Adder	-35.13
927225	AC1-216 C	0.8794	80/20	0.8794
932581	AC2-078 C O1	1.4435	80/20	1.4435
934014	AD1-025 C	9.5801	80/20	9.5801
934141	AD1-041 C	-2.1803	Adder	-2.57
934575	AD1-082 C	2.6772	80/20	2.6772
935164	AD1-151 C	10.2942	80/20	10.2942
936041	AD2-007 C	0.4577	80/20	0.4577
936051	AD2-008 C	1.6679	80/20	1.6679
938551	AE1-074 C	0.1717	80/20	0.1717

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
938634	AE1-085 C	3.2285	80/20	3.2285
939195	AE1-149 C	4.2528	80/20	4.2528
939431	AE1-175 C	-0.9085	Adder	-1.07
940061	AE2-000BC O1	3.5604	80/20	3.5604
940231	AE2-005 C	-0.5474	Adder	-0.64
940431	AE2-027 C O1	7.2130	80/20	7.2130
940651	AE2-052	1.4176	80/20	1.4176
942001	AE2-212 C	0.8710	80/20	0.8710
942151	AE2-227 C	2.7540	80/20	2.7540
942161	AE2-228 C	0.9384	80/20	0.9384
942371	AE2-250 C O1	4.6645	80/20	4.6645
942551	AE2-270	16.1070	80/20	16.1070
944631	AF1-128 O1	99.5829	80/20	99.5829
944641	AF1-129	45.6110	80/20	45.6110
946261	AF1-291 C	0.9376	80/20	0.9376
957711	AF2-065 C	8.2146	80/20	8.2146
958141	AF2-108	0.6620	80/20	0.6620
959641	AF2-255 C	0.6885	80/20	0.6885
959651	AF2-256 C	0.2346	80/20	0.2346
959661	AF2-257 C	0.2344	80/20	0.2344
959671	AF2-258 C	0.2177	80/20	0.2177
959681	AF2-259 C	0.9930	80/20	0.9930
961611	AG1-000B C	5.5652	80/20	5.5652
961711	AG1-011	16.2720	80/20	16.2720
962191	AG1-064 C	1.0841	80/20	1.0841
962201	AG1-065 C	1.0841	80/20	1.0841
962271	AG1-075 C O1	8.0506	80/20	8.0506
963221	AG1-171 C	1.3726	80/20	1.3726
963231	AG1-172 C	1.3726	80/20	1.3726
963241	AG1-173 C	1.3726	80/20	1.3726
963251	AG1-174 C	1.3726	80/20	1.3726
963261	AG1-175 C	1.3726	80/20	1.3726
966731	AG1-544 C	2.5215	80/20	2.5215
966741	AG1-545 C	0.8329	80/20	0.8329
WEC	WEC	0.0066	Confirmed LTF	0.0066
LGEE	LGEE	0.0163	Confirmed LTF	0.0163
CPL	CPL	0.4450	Confirmed LTF	0.4450
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677
NY	NY	0.1493	Confirmed LTF	0.1493
TVA	TVA	0.2226	Confirmed LTF	0.2226
SIGE	SIGE	0.0344	Confirmed LTF	0.0344
CBM-S2	CBM-S2	4.8650	Confirmed LTF	4.8650
CBM-S1	CBM-S1	0.0513	Confirmed LTF	0.0513
MEC	MEC	0.0810	Confirmed LTF	0.0810
LAGN	LAGN	0.2747	Confirmed LTF	0.2747
CBM-W1	CBM-W1	0.1542	Confirmed LTF	0.1542

11.6.9 Index 9

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168630821	314287	6CHESTFB	DVP	314276	6BASIN	DVP	1	DVP_P1-2: LN 563	single	663.64	158.68	159.79	DC	10.7

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
168631058	314287	6CHESTFB	DVP	314260	6VARINA	DVP	1	DVP_P1-2: LN 563	single	984.18	112.33	113.21	DC	11.81

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
168631026	314301	6HARR205	DVP	314346	6TYLER	DVP	1	DVP_P1-2: LN 563	single	441.8	125.85	129.63	DC	24.01

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
163105505	314303	6HOPEWLL	DVP	314286	6CHESTF A	DVP	1	DVP_P7-1: LN 212-240-D	tower	549.0	195.91	198.72	DC	15.47

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314314	3LOCKS	0.1627	50/50	0.1627
314331	6POE	1.6284	50/50	1.6284
315065	1CHESTF6 (Deactivation : 31/05/2023)	121.9427	50/50	121.9427
315073	1STONECA	17.2239	50/50	17.2239
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0449	50/50	0.0449
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0449	50/50	0.0449
315076	1HOPPOLC	3.7577	50/50	3.7577
315077	1HOPHCF1	5.8736	50/50	5.8736
315078	1HOPHCF2	5.8736	50/50	5.8736
315079	1HOPHCF3	5.8736	50/50	5.8736
315080	1HOPHCF4	8.9165	50/50	8.9165
316033	AB2-134 C	5.0810	50/50	5.0810
316083	AB2-161 C	2.5509	50/50	2.5509
316084	AB2-161 E	4.1621	50/50	4.1621
316108	AB2-160 C	3.1345	50/50	3.1345
316109	AB2-160 E	5.1143	50/50	5.1143
316132	AB2-190 C	50.2365	50/50	50.2365
924814	AB2-134 E	31.6669	50/50	31.6669
925332	AB2-190 E	21.5299	50/50	21.5299
927225	AC1-216 C	3.8784	50/50	3.8784
927226	AC1-216 E	19.3321	50/50	19.3321
932581	AC2-078 C O1	3.1396	50/50	3.1396
932582	AC2-078 E O1	5.1224	50/50	5.1224
934014	AD1-025 C	42.2525	50/50	42.2525
934015	AD1-025 E	25.0285	50/50	25.0285
934575	AD1-082 C	5.8135	50/50	5.8135
934576	AD1-082 E	3.3162	50/50	3.3162
935164	AD1-151 C	40.3686	50/50	40.3686
935165	AD1-151 E	26.9124	50/50	26.9124
936041	AD2-007 C	2.0184	50/50	2.0184
936042	AD2-007 E	1.3905	50/50	1.3905
936051	AD2-008 C	7.3561	50/50	7.3561
936052	AD2-008 E	16.0129	50/50	16.0129
938634	AE1-085 C	7.0310	50/50	7.0310
938635	AE1-085 E	3.5155	50/50	3.5155
939195	AE1-149 C	9.3186	50/50	9.3186
939196	AE1-149 E	6.2124	50/50	6.2124
940061	AE2-000BC O1	7.7088	50/50	7.7088

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
940062	AE2-000BE O1	5.1392	50/50	5.1392
940651	AE2-052	3.1062	50/50	3.1062
942001	AE2-212 C	1.8040	50/50	1.8040
942002	AE2-212 E	1.2026	50/50	1.2026
942151	AE2-227 C	-1.6043	Adder	-1.89
942161	AE2-228 C	2.0668	50/50	2.0668
942162	AE2-228 E	1.3778	50/50	1.3778
942371	AE2-250 C O1	5.5679	50/50	5.5679
942372	AE2-250 E O1	2.9386	50/50	2.9386
942551	AE2-270	67.2810	50/50	67.2810
944641	AF1-129	102.3233	50/50	102.3233
946261	AF1-291 C	2.0962	50/50	2.0962
946262	AF1-291 E	1.3974	50/50	1.3974
957711	AF2-065 C	34.3133	50/50	34.3133
957712	AF2-065 E	32.9677	50/50	32.9677
958141	AF2-108	1.2553	50/50	1.2553
959641	AF2-255 C	-0.4011	Adder	-0.47
959651	AF2-256 C	0.5167	50/50	0.5167
959652	AF2-256 E	0.3445	50/50	0.3445
959661	AF2-257 C	0.5240	50/50	0.5240
959662	AF2-257 E	0.3494	50/50	0.3494
959671	AF2-258 C	0.4510	50/50	0.4510
959672	AF2-258 E	0.3007	50/50	0.3007
959681	AF2-259 C	1.8830	50/50	1.8830
959682	AF2-259 E	1.2553	50/50	1.2553
961611	AG1-000B C	39.9201	50/50	39.9201
961711	AG1-011	71.7664	50/50	71.7664
962271	AG1-075 C O1	9.6099	50/50	9.6099
962272	AG1-075 E O1	5.8566	50/50	5.8566
963221	AG1-171 C	5.3825	50/50	5.3825
963222	AG1-171 E	3.5883	50/50	3.5883
963231	AG1-172 C	5.3825	50/50	5.3825
963232	AG1-172 E	3.5883	50/50	3.5883
963241	AG1-173 C	5.3825	50/50	5.3825
963242	AG1-173 E	3.5883	50/50	3.5883
963251	AG1-174 C	5.3825	50/50	5.3825
963252	AG1-174 E	3.5883	50/50	3.5883
963261	AG1-175 C	5.3825	50/50	5.3825
963262	AG1-175 E	3.5883	50/50	3.5883
966731	AG1-544 C	5.4912	50/50	5.4912
966732	AG1-544 E	2.9460	50/50	2.9460
966741	AG1-545 C	1.8129	50/50	1.8129
966742	AG1-545 E	0.9719	50/50	0.9719
WEC	WEC	0.0554	Confirmed LTF	0.0554
LGEE	LGEE	0.1156	Confirmed LTF	0.1156
CPL	CPL	0.8463	Confirmed LTF	0.8463
CBM-W2	CBM-W2	2.8851	Confirmed LTF	2.8851
NY	NY	0.1587	Confirmed LTF	0.1587
TVA	TVA	0.5712	Confirmed LTF	0.5712
O-066	O-066	2.1536	Confirmed LTF	2.1536
SIGE	SIGE	0.0549	Confirmed LTF	0.0549
CBM-S2	CBM-S2	9.6674	Confirmed LTF	9.6674

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S1	CBM-S1	0.1395	Confirmed LTF	0.1395
G-007	G-007	0.3370	Confirmed LTF	0.3370
MEC	MEC	0.3607	Confirmed LTF	0.3607
LAGN	LAGN	0.7105	Confirmed LTF	0.7105
CBM-W1	CBM-W1	2.2572	Confirmed LTF	2.2572

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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
168630953	314316	6LOCKS	DVP	314301	6HARR205	DVP	1	DVP_P1-2: LN 563	single	441.8	131.01	134.8	DC	24.01

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163496064	314908	8ELMONT	DVP	314911	8LADYSMITH	DVP	1	DVP_P1-2: LN 576	single	2442.12	218.8	218.84	DC	29.08

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
166888446	940430	AE2-027 TAP	DVP	314298	3HARROWG	DVP	1	DVP_P7-1: LN 205-2003	tower	169.0	160.55	193.65	DC	55.94

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314314	3LOCKS	0.5884	50/50	0.5884
314331	6POE	0.8296	Adder	0.98
316083	AB2-161 C	1.4110	Adder	1.66
316084	AB2-161 E	2.3022	Adder	2.71
316108	AB2-160 C	11.3380	50/50	11.3380
316109	AB2-160 E	18.4988	50/50	18.4988
923852	AB2-025 E	0.3367	Adder	0.4
932581	AC2-078 C O1	1.7322	Adder	2.04
932582	AC2-078 E O1	2.8262	Adder	3.32
932591	AC2-079 C O1	1.6004	Adder	1.88
932592	AC2-079 E O1	2.6111	Adder	3.07
934575	AD1-082 C	3.2157	Adder	3.78
934576	AD1-082 E	1.8343	Adder	2.16
938634	AE1-085 C	3.8713	Adder	4.55
938635	AE1-085 E	1.9357	Adder	2.28
939195	AE1-149 C	5.0832	Adder	5.98
939196	AE1-149 E	3.3888	Adder	3.99
940061	AE2-000BC O1	4.2835	Adder	5.04
940062	AE2-000BE O1	2.8557	Adder	3.36
940431	AE2-027 C O1	40.5173	50/50	40.5173
940432	AE2-027 E O1	27.0115	50/50	27.0115
940481	AE2-033 C	4.6767	Adder	5.5
940482	AE2-033 E	3.1528	Adder	3.71
940541	AE2-040	0.8526	Adder	1.0
940651	AE2-052	1.6944	Adder	1.99
942371	AE2-250 C O1	20.1398	50/50	20.1398
942372	AE2-250 E O1	10.6294	50/50	10.6294
946011	AF1-266	3.9148	Adder	4.61
958141	AF2-108	1.3323	50/50	1.3323
959681	AF2-259 C	1.9985	50/50	1.9985
959682	AF2-259 E	1.3323	50/50	1.3323
962271	AG1-075 C O1	34.7599	50/50	34.7599
962272	AG1-075 E O1	21.1841	50/50	21.1841
966731	AG1-544 C	1.6025	Adder	3.56
966732	AG1-544 E	0.8597	Adder	1.91
966741	AG1-545 C	0.5295	Adder	1.18
966742	AG1-545 E	0.2839	Adder	0.63
WEC	WEC	0.0756	Confirmed LTF	0.0756
LGEE	LGEE	0.1552	Confirmed LTF	0.1552
CPL	CPL	0.8552	Confirmed LTF	0.8552
CBM-W2	CBM-W2	3.3958	Confirmed LTF	3.3958

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	0.1095	Confirmed LTF	0.1095
TVA	TVA	0.6454	Confirmed LTF	0.6454
O-066	O-066	1.5344	Confirmed LTF	1.5344
SIGE	SIGE	0.0519	Confirmed LTF	0.0519
CBM-S2	CBM-S2	9.9806	Confirmed LTF	9.9806
CBM-S1	CBM-S1	0.1604	Confirmed LTF	0.1604
G-007	G-007	0.2404	Confirmed LTF	0.2404
MEC	MEC	0.4576	Confirmed LTF	0.4576
LAGN	LAGN	0.8033	Confirmed LTF	0.8033
CBM-W1	CBM-W1	3.1545	Confirmed LTF	3.1545

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
AA1-145	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
AB1-081	Anaconda-Mayo Dunbar 115kV	In Service
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-015	Franklin 115kV	Engineering and Procurement
AB2-025	Sapony 34.5kV	In Service
AB2-040	Brink 115kV	Engineering and Procurement
AB2-059	Benson-Dunbar 115kV	Partially in Service - Under Construction
AB2-068	Chickahominy 500kV	Withdrawn
AB2-099	Ahoskie 34.5kV	Suspended
AB2-100	Clubhouse-Lakeview 230kV	Partially in Service - Under Construction
AB2-134	Hopewell-Surry 230kV	In Service
AB2-160	Reams 115kV	Engineering and Procurement
AB2-161	Waverly #2 DP 115kV	Engineering and Procurement
AB2-174	Emporia-Trego 115kV	In Service
AB2-190	Hopewell-Surry 230kV	Engineering and Procurement
AC1-034	Heartsease DP - Mayo Dunbar 115kV	Engineering and Procurement
AC1-054	Kerr Dam-Eatons Ferry 115 kV	Engineering and Procurement
AC1-065	Harmony Village-Shackleford 115kV	Engineering and Procurement
AC1-086	Thelma 230kV	Active
AC1-098	Dawson-South Justice 115kV	Engineering and Procurement
AC1-099	Dawson-South Justice 115kV	Engineering and Procurement
AC1-107	Chickahominy 500kV	Engineering and Procurement
AC1-161	Septa 500kV	Engineering and Procurement
AC1-164	Chickahominy 230kV	Engineering and Procurement
AC1-189	Chinquapin-Everetts 230kV	Active
AC1-191	Elmont 115kV	Active
AC1-208	Cox-Whitakers 115kV	Engineering and Procurement
AC1-216	Hopewell-Surry 230kV	Partially in Service - Under Construction
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
AC2-137	Elko 34.5kV	Partially in Service - Under Construction

Queue Number	Project Name	Status
AC2-141	Septa 500kV	Active
AD1-023	Cashie-Trowbridge 230 kV	Active
AD1-025	Hopewell-Surry 230 kV	Active
AD1-033	Fentress-Landstown 230 kV	Engineering and Procurement
AD1-041	Harmony Village-Shackleford 115 kV	Engineering and Procurement
AD1-057	Hornertown-Hathaway 230 kV	Active
AD1-063	Harmony Village 34.5 kV	In Service
AD1-076	Trowbridge 230 kV	Active
AD1-082	Bakers Pond-Ivor 115kV	Engineering and Procurement
AD1-105	Kings Dominion DP 115 kV	Active
AD1-151	Hopewell-Surry 230 kV	Active
AD2-007	Hopewell-Surry 230 kV	Active
AD2-008	Hopewell-Surry 230 kV	Active
AD2-021	Elko 34.5 kV	Partially in Service - Under Construction
AD2-046	Boynton DP-Kerr Dam 115 kV	Active
AD2-051	Earleys – Northampton 230kV	Active
AD2-073	Sanders DP 230 kV	Active
AD2-074	Garner DP-Lancaster 115 kV	Active
AD2-085	Myrtle-Windsor DP 115kV	Active
AD2-097	Spruance NUG 230kV	In Service
AD2-160	Hickory-Moyock 230kV	Active
AE1-035	Earleys 230 kV	Partially in Service - Under Construction
AE1-068	Carson-Rogers Rd 500 kV	Active
AE1-069	Carson-Rogers Road 500 kV	Active
AE1-072	Shawboro-Sligo 230 kV	Active
AE1-074	Winterpock 34.5 kV	Engineering and Procurement
AE1-085	Bakers Pond-Bell Ave 115 kV	Active
AE1-103	Holland-Union Camp 115 kV	Active
AE1-148	Kerr Dam-Ridge Rd 115 kV	Active
AE1-149	Disputanta-Poe 115 kV	Active
AE1-155	Garner-Northern Neck 115 kV	Active
AE1-162	Smithfield 34.5 kV	Engineering and Procurement
AE1-173	Carson-Suffolk 500 kV	Active
AE1-175	Light Foot 34.5 kV	Engineering and Procurement
AE1-191	Harmony Village-Shackleford 115 kV	Active
AE1-206	Four Rivers-Hanover 230 kV	Active
AE2-000B	N/A	N/A
AE2-005	Harmony Village-Shackleford 115 kV	Engineering and Procurement
AE2-007	Chesapeake 230 kV	Withdrawn
AE2-027	Harrowgate-Locks 115kV	Active
AE2-031	Carson-Rawlings 500 kV	Active
AE2-033	Clubhouse-Sappony 230 kV	Active
AE2-034	Mackeys 230 kV	Active
AE2-040	Sapony 34.5 kV	Active
AE2-041	Harmony Village 230 kV	Active
AE2-044	Anaconda-Dunbar 115 kV	Active
AE2-051	Carson-Septa 500 kV	Active
AE2-052	Disputanta-Poe 115 kV	Active
AE2-078	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

Queue Number	Project Name	Status
AE2-122	Birdneck-Landstown 230 kV	Active
AE2-123	Birdneck-Landstown 230 kV	Active
AE2-124	Landstown 230 kV	Active
AE2-147	Swamp 230 kV	Active
AE2-151	Earleys 34.5kV	Withdrawn
AE2-155	Old Church 34.5 kV	Partially in Service - Under Construction
AE2-156	Yadkin 115 kV	Active
AE2-212	Harrowgate 34 kV	Active
AE2-225	Suffolk 34 kV	Engineering and Procurement
AE2-227	Iron Bridge 34 kV	Engineering and Procurement
AE2-228	Tyler 34 kV	Engineering and Procurement
AE2-229	Suffolk 34 kV	Engineering and Procurement
AE2-231	St. Johns 115 kV	Active
AE2-247	Myrtle-Windsor 115 kV	Active
AE2-250	Purdy Sw.-Reams 115 kV	Active
AE2-253	Hickory-Moyock 230 kV	Active
AE2-260	Clubhouse 230 kV	Active
AE2-270	Hopewell-Surry 230 kV	Active
AE2-313	Carson-Rawlins 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
AF1-059	Brodnax-South Hill 115 kV	Active
AF1-067	Kings Dominion DP 115 kV	Active
AF1-069	Carson-Rogers Rd 500 kV	Active
AF1-082	Heartsease-Mayo Dunbar DP	Active
AF1-123	Fentress 500 kV	Active
AF1-124	Fentress 500 kV	Active
AF1-125	Fentress 500 kV	Active
AF1-128	Chesterfield 230 kV	Active
AF1-129	Chesterfield 230 kV	Active
AF1-152	Swamp 230 kV	Active
AF1-201	Hayes-White Marsh 115 kV	Active
AF1-236	Mackeys 230 kV	Active
AF1-265	Four Rivers-Hanover 230 kV	Active
AF1-266	Clubhouse-Sapony 230 kV	Active
AF1-291	Tyler 34.5 kV	Engineering and Procurement
AF1-292	Fields 34.5kV	Active
AF2-035	St. Johns 115 kV	Active
AF2-043	Suffolk 34.5 kV	Engineering and Procurement
AF2-046	Tunis-Mapleton 115 kV	Active
AF2-047	Creswell-Riders Creek 115 kV	Active
AF2-054	Wan 34.5 kV	Active
AF2-057	Grassfield 34.5 kV	Active
AF2-065	Surry-Hopewell 230 kV	Active
AF2-076	Suffolk-Nucor Steel 230 kV	Active
AF2-077	White Marsh 34.5 kV	Active

Queue Number	Project Name	Status
AF2-080	Chinquapin-Everetts 230 kV	Active
AF2-081	Moyock 230 kV	Active
AF2-085	Midlothian 34.5 kV	Engineering and Procurement
AF2-108	Locks 34.5 kV	Active
AF2-110	Suffolk 115 kV	Active
AF2-120	Garner-Northern Neck 115 kV	Active
AF2-242	Wharton 115 kV	Active
AF2-255	Iron Bridge 34.5 kV	Engineering and Procurement
AF2-256	Tyler 34.5 kV	Engineering and Procurement
AF2-257	Tyler 34.5 kV	Active
AF2-258	Harrowgate 34.5 kV	Active
AF2-259	Locks 34.5 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
AG1-011	Colonial Trial 230 kV	Active
AG1-027	Suffolk-Holland 115 kV	Active
AG1-036	Tunis 34.5 kV	Active
AG1-037	Ahoskie 34.5 kV	Active
AG1-038	Garner DP-Lancaster 115 kV	Active
AG1-057	Harmony Village 230 kV	Active
AG1-064	Plaza 34.5 kV	Active
AG1-065	Plaza 34.5 kV	Active
AG1-075	Purdy-Sapony 115 kV	Active
AG1-081	Poolesville 34.5 kV	Withdrawn
AG1-082	Ahoskie 34.5 kV	Active
AG1-083	Ahoskie 34.5 kV	Active
AG1-084	Earlys 34.5 kV	Active
AG1-085	Earlys 34.5	Active
AG1-102	White Marsh 34.5 kV	Active
AG1-106	Thelma 230 kV	Active
AG1-134	N/A	N/A
AG1-135	Garner-Lancaster 115 kV	Active
AG1-145	Lightfoot 34.5 kV	Active
AG1-146	Garner DP-Lancaster 115 kV	Active
AG1-147	Garner DP-Lancaster 115 kV	Active
AG1-153	Heritage 500 kV	Active
AG1-160	Rogers Road 500 kV	Active
AG1-171	Hopewell-Surry 230kV	Active
AG1-172	Hopewell-Surry 230 kV	Active
AG1-173	Hopewell-Surry 230 kV	Active
AG1-174	Hopewell-Surry 230 kV	Active
AG1-175	Hopewell-Surry 230 kV	Active
AG1-178	Carson-Septa 500 kV	Active
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-183	St. Johns DP-REC 115 kV	Active
AG1-184	Carson-Septa 500 kV	Active
AG1-187	St. Johns DP-REC 115 kV	Active

Queue Number	Project Name	Status
AG1-210	Northern Neck 34.5 kV	Active
AG1-213	St Johns 13.2 kV	Active
AG1-235	Fentress-Sligo 230 kV	Active
AG1-256	Northern Neck 230 kV	Active
AG1-282	Dunnsville 34.5 kV	Active
AG1-312	Earleys-Cashie 230 kV	Active
AG1-313	Jackson DP-Occoneechee 115 kV	Active
AG1-343	Boykins-Murphy 115 kV	Active
AG1-357	Clover-Rawlings 500 kV	Active
AG1-359	Fentress 230 kV	Active
AG1-364	Deep Creek 115 kV	Active
AG1-383	Hickory 34.5 kV	Active
AG1-388	Dunnsville 34.5 kV	Active
AG1-394	Boykins 34.5 kV	Active
AG1-413	South Hill-Bordnax 115 kV	Active
AG1-428	Danieltown 69 kV	Active
AG1-431	Mackeys 230 kV	Active
AG1-431A	Mackeys 230 kV	Active
AG1-437	Cashie-Earleys 230 kV	Active
AG1-438	Cashie-Earleys 230 kV	Active
AG1-439	Chinquapin 230 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 kV	Active
AG1-442	Cashie-Earleys 230 kV	Active
AG1-443	Cashie-Earleys 230 kV	Active
AG1-444	Chinquapin 230 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-449	Rawlings-Carson 500 kV	Active
AG1-505	Rawlings-Clover 500 kV	Active
AG1-506	Rawlings-Clover 500 kV	Active
AG1-518	Suffolk 230 kV	Active
AG1-531	Poolesville-Winchester 230 kV	Active
AG1-532	Fields 34.5 kV	Active
AG1-536	Garner-Northern Neck 115 kV	Active
AG1-541	St. Johns 115 kV	Active
AG1-544	Bakers Pond DP 115 kV	Active
AG1-545	W. Quaker Rd-Disputanta 34.5 kV	Active
AG1-546	Ebony-Elams Road 115 kV	Active
AG1-551	Parmelee 12.5 kV	Active
AG1-552	Carolina 13.2 kV	Active
AG1-558	Buckner 34.5 kV	Active
AG1-559	Caroline Pines 22 kV	Active
Z1-086	Heritage-Carson	In Service

11.8 Contingency Descriptions - Primary POI

Contingency Name	Contingency Definition
DVP_P1-2: LN 228	CONTINGENCY 'DVP_P1-2: LN 228' OPEN BRANCH FROM BUS 314286 TO BUS 314303 CKT 1 /* 6CHESTF A 230.00 - 6HOPEWLL 230.00 END
DVP_P1-2: LN 574	CONTINGENCY 'DVP_P1-2: LN 574' OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END
DVP_P1-2: LN 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_P1-2: LN 205	CONTINGENCY 'DVP_P1-2: LN 205' OPEN BRANCH FROM BUS 314287 TO BUS 314346 CKT 1 /* 6CHESTF B 230.00 - 6TYLER 230.00 OPEN BRANCH FROM BUS 314301 TO BUS 314316 CKT 1 /* 6HARR205 230.00 - 6LOCKS 230.00 OPEN BRANCH FROM BUS 314301 TO BUS 314346 CKT 1 /* 6HARR205 230.00 - 6TYLER 230.00 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 1 /* 3LOCKS 115.00 - 6LOCKS 230.00 OPEN BUS 314301 /* ISLAND: 6HARR205 230.00 OPEN BUS 314346 /* ISLAND: 6TYLER 230.00 END
DVP_P1-2: LN 217	CONTINGENCY 'DVP_P1-2: LN 217' OPEN BRANCH FROM BUS 314225 TO BUS 314227 CKT 1 /* 6CHARCTY 230.00 - 6LAKESIDE 230.00 OPEN BRANCH FROM BUS 314225 TO BUS 314260 CKT 1 /* 6CHARCTY 230.00 - 6VARINA 230.00 OPEN BRANCH FROM BUS 314260 TO BUS 314287 CKT 1 /* 6VARINA 230.00 - 6CHESTF B 230.00 OPEN BUS 314225 /* ISLAND: 6CHARCTY 230.00 OPEN BUS 314260 /* ISLAND: 6VARINA 230.00 END

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 - 8SURREY 500.00 END
DVP_P1-2: LN 2049	CONTINGENCY 'DVP_P1-2: LN 2049' OPEN BRANCH FROM BUS 314271 TO BUS 314281 CKT 1 /* 6ALLIED 230.00 - 6BURDET 230.00 OPEN BRANCH FROM BUS 314281 TO BUS 314294 CKT 1 /* 6BURDET 230.00 - 6ENON 230.00 OPEN BRANCH FROM BUS 314286 TO BUS 314294 CKT 1 /* 6CHESTF A 230.00 - 6ENON 230.00 OPEN BUS 314281 /* ISLAND: 6BURDET 230.00 OPEN BUS 314294 /* ISLAND: 6ENON 230.00 END
DVP_P1-2: LN 576	CONTINGENCY 'DVP_P1-2: LN 576' OPEN BRANCH FROM BUS 314914 TO BUS 314918 CKT 1 /* 8MDLTHAN 500.00 - 8NO ANNA 500.00 END
DVP_P1-2: LN 534	CONTINGENCY 'DVP_P1-2: LN 534' OPEN BRANCH FROM BUS 314907 TO BUS 314910 CKT 1 /* 8DOOMS 500.00 - 8CUNINGHAM 500.00 END
DVP_P7-1: LN 212-240-D	CONTINGENCY 'DVP_P7-1: LN 212-240-D' /* . OPEN BRANCH FROM BUS 313896 TO BUS 314538 CKT 1 /* 6COLONIAL TR230.00 - 6SURREY 230.00 OPEN BRANCH FROM BUS 961610 TO BUS 314538 CKT 2 /* AG1-000B TAP 230.00 - 6SURREY 230.00 END
DVP_P7-1: LN 212-240-C	CONTINGENCY 'DVP_P7-1: LN 212-240-C' /* . OPEN BRANCH FROM BUS 313896 TO BUS 314538 CKT 1 /* 6COLONIAL TR230.00 - 6SURREY 230.00 OPEN BRANCH FROM BUS 961610 TO BUS 942550 CKT 2 /* AG1-000B TAP 230.00 - AE2-270 TAP 230.00 END
Base Case	
DVP_P1-2: LN 240-D	CONTINGENCY 'DVP_P1-2: LN 240-D' OPEN BRANCH FROM BUS 314538 TO BUS 961610 CKT 2 /* 6SURREY 230.00 - AG1- 000B TAP 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 205-2003	CONTINGENCY 'DVP_P7-1: LN 205-2003' /* . OPEN BRANCH FROM BUS 314287 TO BUS 314346 CKT 1 /* 6CHESTF B 230.00 - 6TYLER 230.00 OPEN BRANCH FROM BUS 314301 TO BUS 314316 CKT 1 /* 6HARR205 230.00 - 6LOCKS 230.00 OPEN BRANCH FROM BUS 314301 TO BUS 314346 CKT 1 /* 6HARR205 230.00 - 6TYLER 230.00 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 1 /* 3LOCKS 115.00 - 6LOCKS 230.00 OPEN BUS 314301 /* ISLAND: 6HARR205 230.00 OPEN BUS 314346 /* ISLAND: 6TYLER 230.00 OPEN BRANCH FROM BUS 314263 TO BUS 314287 CKT 1 /* 6TYLER1 230.00 - 6CHESTF B 230.00 OPEN BRANCH FROM BUS 314263 TO BUS 314299 CKT 1 /* 6TYLER1 230.00 - 6HARROWG 230.00 OPEN BRANCH FROM BUS 314299 TO BUS 314331 CKT 1 /* 6HARROWG 230.00 - 6POE 230.00 OPEN BRANCH FROM BUS 314329 TO BUS 314331 CKT 2 /* 3POE 115.00 - 6POE 230.00 OPEN BUS 314263 /* ISLAND: 6TYLER1 230.00 OPEN BUS 314299 /* ISLAND: 6HARROWG 230.00 END
DVP_P1-2: LN 2002	CONTINGENCY 'DVP_P1-2: LN 2002' OPEN BRANCH FROM BUS 314282 TO BUS 314331 CKT 1 /* 6CARSON 230.00 - 6POE 230.00 OPEN BRANCH FROM BUS 314329 TO BUS 314331 CKT 1 /* 3POE 115.00 - 6POE 230.00 END
DVP_P2-2: BASIN B7	CONTINGENCY 'DVP_P2-2: BASIN B7' /* BASIN 230 KV OPEN BRANCH FROM BUS 314276 TO BUS 314287 CKT 1 /* 6BASIN 230.00 - 6CHESTF B 230.00 OPEN BRANCH FROM BUS 314276 TO BUS 314339 CKT 1 /* 6BASIN 230.00 - 6SPRUNCE 230.00 OPEN BRANCH FROM BUS 314274 TO BUS 314276 CKT 2 /* 3BASIN 115.00 - 6BASIN 230.00 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 AG1-075 was evaluated as a 150.0 MW (Capacity 93.2 MW) injection tapping the Clubhouse to Sapony 230 kV line in the Dominion area. Project AG1-075 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-075 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

13.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
168329862	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	3144356SAPO NY 230 940480 AE2-033 TAP 230 1	single	375.059997559	91.63	110.39	DC	70.35
168630999	314266	6NORTHAMPTON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P1 -2: LN 238-A	single	571.520019531	95.51	100.65	DC	29.41
168921576	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	DVP_P1 -2: LN 238-A	single	548.020019531	98.25	103.62	DC	29.41
168630963	314599	6ROA VAL	230.0	DVP	314266	6NORTHAMPTON	230.0	DVP	1	DVP_P1 -2: LN 238-A	single	548.020019531	98.2	103.56	DC	29.41

13.2 Multiple Facility Contingency

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
163105794	314225	6CHARCT Y	230.0	DVP	314227	6LAKESIDE	230.0	DVP	1	DVP_P7 -1: LN 208-259	tower	1204.0	98.92	100.59	DC	20.03
173787961	314563	6CLUBHSE	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	DVP_P4 -2: 23872	breaker	459.0	90.27	114.96	DC	113.28

13.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC D C	MW IMPACT
173787914	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P 4-2: 23872	breaker	459.0	107.82	132.5	DC	113.23
163496120	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT30T	230.0	CPL E	1	DVP_P 1-2: LN 2181	single	478.0	103.13	104.72	DC	7.61
168630922	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	2	DVP_P 1-2: LN 557	single	879.840026855	150.95	151.42	DC	10.32
168630950	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 1-2: LN 557	single	920.918029785	144.89	145.34	DC	10.37
174372680	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 4-2: H2T557	breaker	1050.59997559	206.87	207.07	DC	25.49

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
174372871	314225	6CHARCTY	230.0	DVP	314227	6LAKESIDE	230.0	DVP	1	DVP_P 4-2: 562T563	breaker	1204.0	106.35	107.79	DC	17.27
168630957	314236	6NRTHEST	230.0	DVP	314218	6ELMONT	230.0	DVP	1	DVP_P 1-2: LN 557	single	678.679992676	117.81	118.26	DC	6.83
163105778	314260	6VARINA	230.0	DVP	314225	6CHARCTY	230.0	DVP	1	DVP_P 7-1: LN 208-259	tower	1204.0	101.71	103.37	DC	20.03
174372858	314260	6VARINA	230.0	DVP	314225	6CHARCTY	230.0	DVP	1	DVP_P 4-2: 562T563	breaker	1204.0	109.14	110.58	DC	17.27
174165488	314266	6NORTHAMPTON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P 4-2: 23872	breaker	699.0	102.56	109.34	DC	47.36
168630873	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P 1-2: LN 563	single	559.299987793	150.52	153.64	DC	17.79
168631131	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P 1-2: LN 249	single	678.679992676	110.6	113.33	DC	21.9
173787850	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P 4-2: 562T563	breaker	684.0	180.06	184.51	DC	30.15
174165453	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P 4-2: 24972-4	breaker	830.0	111.02	120.83	DC	81.23
168630883	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P 1-2: LN 563	single	559.299987793	146.72	149.83	DC	17.79
173787851	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P 4-2: 562T563	breaker	684.0	176.94	181.38	DC	30.15
163105775	314287	6CHESTFB	230.0	DVP	314260	6VARINA	230.0	DVP	1	DVP_P 7-1: LN 208-259	tower	1204.0	102.01	103.67	DC	20.03
168630822	314287	6CHESTFB	230.0	DVP	314276	6BASIN	230.0	DVP	1	DVP_P 1-2: LN 217	single	663.640014648	147.04	147.05	DC	12.15
174165464	314287	6CHESTFB	230.0	DVP	314276	6BASIN	230.0	DVP	1	DVP_P 4-2: H8T217	breaker	812.0	131.98	134.39	DC	19.54
174372856	314287	6CHESTFB	230.0	DVP	314260	6VARINA	230.0	DVP	1	DVP_P 4-2: 562T563	breaker	1204.0	109.44	110.87	DC	17.27
168630908	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P 1-2: LN 249	single	441.799987793	106.93	110.69	DC	16.62
174165340	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P 4-2: 24972-4	breaker	541.0	152.25	163.34	DC	59.87
174372695	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P 4-2: 562T563	breaker	541.0	159.93	163.85	DC	21.19
168631026	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	125.79	127.86	DC	13.81

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS LOAD %	POST PROJECTIONS LOAD %	AC/D C	MW IMPACT
174165439	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P 4-2: 562T563	breaker	541.0	130.33	134.66	DC	23.37
163105230	314303	6HOPEWLL	230.0	DVP	314286	6CHESTFA	230.0	DVP	1	DVP_P 2-2: BASIN B7	bus	549.0	173.96	175.06	DC	13.31
168630818	314303	6HOPEWLL	230.0	DVP	314286	6CHESTFA	230.0	DVP	1	Base Case	single	449.320007324	145.99	147.35	DC	6.18
171391175	314303	6HOPEWLL	230.0	DVP	314286	6CHESTFA	230.0	DVP	1	DVP_P 7-1: LN 259-2065	tower	549.0	173.88	174.98	DC	13.33
175793857	314303	6HOPEWLL	230.0	DVP	314286	6CHESTFA	230.0	DVP	1	DVP_P 1-2: LN 563	single	449.320007324	166.69	168.23	DC	7.44
166888477	314314	3LOCKS	115.0	DVP	940430	AE2-027 TAP	115.0	DVP	1	DVP_P 7-1: LN 205-2003	tower	169.0	120.59	123.06	DC	9.27
168630953	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 563	single	441.799987793	130.96	133.02	DC	13.81
168630955	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 2002	single	441.799987793	100.78	104.77	DC	17.6
173971170	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 4-2: 562T563	breaker	541.0	153.91	158.23	DC	23.37
168630904	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P 1-2: LN 249	single	441.799987793	106.95	110.71	DC	16.62
174165339	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P 4-2: 24972-4	breaker	541.0	152.27	163.36	DC	59.87
174372693	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P 4-2: 562T563	breaker	541.0	159.97	163.89	DC	21.19
168630828	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 2012-B	single	678.679992676	128.39	138.5	DC	68.59
168630830	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	single	678.679992676	109.67	119.41	DC	66.11
173971258	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	DVP_P 4-2: 23872	breaker	671.0	105.75	112.82	DC	47.36
163496108	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P 1-2: LN 2058	single	478.0	103.32	104.94	DC	7.76
173971259	314599	6ROA VAL	230.0	DVP	314266	6NORTHAMPTON	230.0	DVP	1	DVP_P 4-2: 23872	breaker	671.0	105.71	112.77	DC	47.36
163496064	314908	8ELMONT	500.0	DVP	314911	8LADYSMITH	500.0	DVP	1	DVP_P 1-2: LN 576	single	2442.12011719	218.73	218.76	DC	26.78
163496129	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	DVP_P 1-2: LN 574	single	2442.12011719	173.68	173.94	DC	25.48
168921568	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P 1-2: LN 238-A	single	571.520019531	103.02	108.17	DC	29.41

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
168921569	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	314435 6SAPO NY 230 940480 AE2-033 TAP 230 1	single	571.520019531	103.01	108.15	DC	29.41
173971251	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P 4-2: 23872	breaker	699.0	109.94	116.72	DC	47.36
166888446	940430	AE2-027 TAP	115.0	DVP	314298	3HARROWG	115.0	DVP	1	DVP_P 7-1: LN 205-2003	tower	169.0	160.55	163.02	DC	9.27
163105540	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P 7-1: LN 2058-2181	tower	830.0	143.63	156.74	DC	108.49
169550830	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P 1-2: LN 2012-B	single	678.679992676	126.85	136.55	DC	68.6
169550832	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	single	678.679992676	106.48	116.22	DC	66.12

13.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
168329860	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	314435 6SAPO NY 230 940480 AE2-033 TAP 230 1	operation	375.059997559	131.87	162.07	DC	113.23
168329861	313725	6DRY BREAD	230.0	DVP	314583	6LAKEVEW	230.0	DVP	1	DVP_P 1-2: LN 238-A	operation	375.059997559	131.87	162.07	DC	113.23
163496118	313845	6HATHAWAY	230.0	DVP	304222	6ROCKYMT23 OT	230.0	CPL E	1	DVP_P 1-2: LN 2181	operation	478.0	147.34	148.5	DC	12.25
168630921	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	2	DVP_P 1-2: LN 557	operation	879.840026855	167.49	167.6	DC	16.61

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
168630949	314218	6ELMONT	230.0	DVP	314908	8ELMONT	500.0	DVP	1	DVP_P 1-2: LN 557	operation	920.918029785	160.76	160.87	DC	16.69
168631078	314225	6CHARCTY	230.0	DVP	314227	6LAKESIDE	230.0	DVP	1	DVP_P 1-2: LN 259	operation	984.179992676	107.91	109.87	DC	19.25
168630956	314236	6NRTHEST	230.0	DVP	314218	6ELMONT	230.0	DVP	1	DVP_P 1-2: LN 557	operation	678.679992676	156.12	156.18	DC	10.99
168631066	314260	6VARINA	230.0	DVP	314225	6CHARCTY	230.0	DVP	1	DVP_P 1-2: LN 259	operation	984.179992676	111.32	113.28	DC	19.25
168630997	314266	6NORTHAMPTON	230.0	DVP	936400	AD2-051 TAP	230.0	DVP	1	DVP_P 1-2: LN 238-A	operation	571.520019531	124.9	133.19	DC	47.34
168630872	314282	6CARSON	230.0	DVP	314285	6CHRL249	230.0	DVP	1	DVP_P 1-2: LN 563	operation	559.299987793	172.0	177.14	DC	28.64
168631132	314282	6CARSON	230.0	DVP	314331	6POE	230.0	DVP	1	DVP_P 1-2: LN 249	operation	678.679992676	109.8	115.0	DC	35.24
168630882	314285	6CHRL249	230.0	DVP	314316	6LOCKS	230.0	DVP	1	DVP_P 1-2: LN 563	operation	559.299987793	168.19	173.33	DC	28.64
168630820	314287	6CHESTFB	230.0	DVP	314276	6BASIN	230.0	DVP	1	DVP_P 1-2: LN 217	operation	663.640014648	161.4	164.35	DC	19.55
168630823	314287	6CHESTFB	230.0	DVP	314276	6BASIN	230.0	DVP	1	Base Case	operation	663.640014648	107.01	107.97	DC	14.05
168631059	314287	6CHESTFB	230.0	DVP	314260	6VARINA	230.0	DVP	1	DVP_P 1-2: LN 259	operation	984.179992676	111.69	113.65	DC	19.25
168631262	314287	6CHESTFB	230.0	DVP	314303	6HOPEWELL	230.0	DVP	1	DVP_P 1-2: LN 217	operation	449.320007324	103.3	104.65	DC	13.42
168630907	314299	6HARROWG	230.0	DVP	314263	6TYLER1	230.0	DVP	1	DVP_P 1-2: LN 249	operation	441.799987793	134.82	140.88	DC	26.75
168631027	314301	6HARR205	230.0	DVP	314346	6TYLER	230.0	DVP	1	DVP_P 1-2: LN 563	operation	441.799987793	119.82	124.85	DC	22.23
168631230	314311	6IRON282	230.0	DVP	314307	6HULL282	230.0	DVP	1	DVP_P 1-2: LN 563	operation	678.679992676	103.43	104.09	DC	9.77
168630952	314316	6LOCKS	230.0	DVP	314301	6HARR205	230.0	DVP	1	DVP_P 1-2: LN 563	operation	441.799987793	138.68	143.72	DC	22.23
168630903	314331	6POE	230.0	DVP	314299	6HARROWG	230.0	DVP	1	DVP_P 1-2: LN 249	operation	441.799987793	134.85	140.9	DC	26.75
168631205	314339	6SPRUNCE	230.0	DVP	314311	6IRON282	230.0	DVP	1	DVP_P 1-2: LN 563	operation	678.679992676	108.9	109.55	DC	9.77
168630825	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P 1-2: LN 2012-B	operation	678.679992676	173.47	189.78	DC	110.39
168630827	314435	6SAPONY	230.0	DVP	314282	6CARSON	230.0	DVP	1	Base Case	operation	678.679992676	151.54	167.26	DC	106.41
168921574	314561	6CAROLNA	230.0	DVP	314599	6ROA VAL	230.0	DVP	1	DVP_P 1-2: LN 238-A	operation	548.020019531	128.9	137.55	DC	47.34

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/D C	MW IMPACT
168329938	314563	6CLUBHSE	230.0	DVP	313725	6DRY BREAD	230.0	DVP	1	314435 6SAPO NY 230 940480 AE2-033 TAP 230 1	operation	375.059997559	110.42	140.63	DC	113.28
168921655	314563	6CLUBHSE	230.0	DVP	314562	3CLUBHSE	115.0	DVP	1	DVP_P 1-2: LN 238-A	operation	182.641998291	103.93	124.03	DC	36.72
168921490	314583	6LAKEVEW	230.0	DVP	314561	6CAROLNA	230.0	DVP	1	Base Case	operation	375.059997559	99.7	104.33	DC	17.37
168921609	314583	6LAKEVEW	230.0	DVP	314579	6HORNRTN	230.0	DVP	1	314435 6SAPO NY 230 940480 AE2-033 TAP 230 1	operation	441.799987793	105.49	116.42	DC	48.25
163496107	314591	6NASH	230.0	DVP	304226	6PA-RMOUNT#4	230.0	CPL E	1	DVP_P 1-2: LN 2058	operation	478.0	147.96	149.13	DC	12.48
168630961	314599	6ROA VAL	230.0	DVP	314266	6NORTHAMP TON	230.0	DVP	1	DVP_P 1-2: LN 238-A	operation	548.020019531	128.85	137.49	DC	47.34
163496138	314914	8MDLTHAN	500.0	DVP	314918	8NO ANNA	500.0	DVP	1	Base Case	operation	2442.12011719	136.99	137.16	DC	31.5
168329805	934330	AD1-057 TAP	230.0	DVP	313845	6HATHAWAY	230.0	DVP	1	Base Case	operation	441.799987793	98.86	102.29	DC	15.09
168921566	936400	AD2-051 TAP	230.0	DVP	314569	6EARLEYS	230.0	DVP	1	DVP_P 1-2: LN 238-A	operation	571.520019531	133.91	142.19	DC	47.34
169550827	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	DVP_P 1-2: LN 2012-B	operation	678.679992676	173.73	190.04	DC	110.4
169550829	940480	AE2-033 TAP	230.0	DVP	314435	6SAPONY	230.0	DVP	1	Base Case	operation	678.679992676	153.47	169.2	DC	106.42

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
173787914	313725	6DRY BREAD	DVP	314583	6LAKEVEW	DVP	1	DVP_P4-2: 23872	breaker	459.0	107.82	132.5	DC	113.23

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	12.0493	50/50	12.0493
314572	3EMPORIA	1.0948	50/50	1.0948
314704	3LAWRENC	0.6548	50/50	0.6548
316087	AB2-174 C	2.3146	50/50	2.3146
316088	AB2-174 E	13.2734	50/50	13.2734
316096	AB2-100 C1	4.0770	50/50	4.0770
316097	AB2-100 E1	12.7278	50/50	12.7278
316098	AB2-100 C2	4.0770	50/50	4.0770
316099	AB2-100 E2	12.7278	50/50	12.7278
923573	AB1-173 E OP	1.8790	50/50	1.8790
923991	AB2-040 C O1	13.1230	50/50	13.1230
923992	AB2-040 E O1	10.7370	50/50	10.7370
924022	AB2-043 E O1	1.4026	Adder	1.65
924162	AB2-060 E OP	2.0914	Adder	2.46
924301	AB2-077 C O1 (Suspended)	0.9603	Adder	1.13
924302	AB2-077 E O1 (Suspended)	0.6402	Adder	0.75
924311	AB2-078 C O1 (Suspended)	0.9603	Adder	1.13
924312	AB2-078 E O1 (Suspended)	0.6402	Adder	0.75
924321	AB2-079 C O1 (Suspended)	0.9603	Adder	1.13
924322	AB2-079 E O1 (Suspended)	0.6402	Adder	0.75
936485	AD2-063 C	6.8666	Adder	8.08
936486	AD2-063 E	4.5778	Adder	5.39
940481	AE2-033 C	67.1816	50/50	67.1816
940482	AE2-033 E	45.2910	50/50	45.2910
942451	AE2-258	1.1702	Adder	1.38
942471	AE2-260 C O1	62.4261	50/50	62.4261
942472	AE2-260 E O1	88.5439	50/50	88.5439
943911	AF1-059	27.2651	50/50	27.2651
946011	AF1-266	56.2363	50/50	56.2363
946281	AF1-292 C	4.3934	50/50	4.3934
946282	AF1-292 E	2.9618	50/50	2.9618
960081	AF2-299 C	7.4046	50/50	7.4046
960082	AF2-299 E	4.9364	50/50	4.9364
962271	AG1-075 C O2	70.3520	50/50	70.3520
962272	AG1-075 E O2	42.8755	50/50	42.8755
962491	AG1-098 C O2	3.1601	Adder	7.01
962492	AG1-098 E O2	2.1068	Adder	4.68

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963301	AG1-179 C	11.5737	50/50	11.5737
963311	AG1-180	5.6390	50/50	5.6390
964931	AG1-357 C O2	4.8638	Adder	10.8
964932	AG1-357 E O2	3.2425	Adder	7.2
965451	AG1-413 C O2	10.8303	50/50	10.8303
965452	AG1-413 E O2	7.2202	50/50	7.2202
965591	AG1-427 C	2.9359	Adder	6.52
965592	AG1-427 E	1.9614	Adder	4.35
965601	AG1-428 C O2	9.6619	50/50	9.6619
965602	AG1-428 E O2	6.4298	50/50	6.4298
966621	AG1-532 C	3.9985	50/50	3.9985
966622	AG1-532 E	2.6657	50/50	2.6657
CALDERWOOD	CALDERWOOD	0.0621	Confirmed LTF	0.0621
NY	NY	0.0160	Confirmed LTF	0.0160
PRAIRIE	PRAIRIE	0.1963	Confirmed LTF	0.1963
O-066	O-066	0.1952	Confirmed LTF	0.1952
CHEOAH	CHEOAH	0.0641	Confirmed LTF	0.0641
COTTONWOOD	COTTONWOOD	0.2352	Confirmed LTF	0.2352
G-007	G-007	0.0304	Confirmed LTF	0.0304
HAMLET	HAMLET	0.1912	Confirmed LTF	0.1912
GIBSON	GIBSON	0.0311	Confirmed LTF	0.0311
BLUEG	BLUEG	0.0920	Confirmed LTF	0.0920
TRIMBLE	TRIMBLE	0.0289	Confirmed LTF	0.0289
CATAWBA	CATAWBA	0.0745	Confirmed LTF	0.0745

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
174165488	314266	6NORTHAMPTON	DVP	936400	AD2-051 TAP	DVP	1	DVP_P4-2: 23872	breaker	699.0	102.56	109.34	DC	47.36

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3530	50/50	9.3530
314572	3EMPORIA	0.6243	50/50	0.6243
314704	3LAWRENC	0.3601	50/50	0.3601
315126	1ROARAP2	1.5793	50/50	1.5793
315128	1ROARAP4	1.5071	50/50	1.5071
315131	1EDGECSMA (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315132	1EDGECSMB (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315136	1ROSEMG1	3.8541	50/50	3.8541
315137	1ROSEMS1	2.3899	50/50	2.3899
315138	1ROSEMG2	1.8063	50/50	1.8063
315139	1GASTONA	6.0597	50/50	6.0597
315141	1GASTONB	6.0597	50/50	6.0597
315162	1KERR 5	0.6746	50/50	0.6746
315163	1KERR 6	0.6746	50/50	0.6746
315164	1KERR 7	0.6746	50/50	0.6746
315293	1DOMTR9	-3.2315	Adder	-3.8
315294	1DOMTR10	-3.9602	Adder	-4.66
315606	3AA2-053SOLA	1.2798	50/50	1.2798
315607	3AA1-063SOLA	1.1585	50/50	1.1585
316087	AB2-174 C	1.5782	50/50	1.5782
316088	AB2-174 E	9.0505	50/50	9.0505
316096	AB2-100 C1	1.6883	50/50	1.6883
316097	AB2-100 E1	5.2708	50/50	5.2708
316098	AB2-100 C2	1.6883	50/50	1.6883
316099	AB2-100 E2	5.2708	50/50	5.2708
316129	AC1-054 C	6.4467	50/50	6.4467
917342	Z2-044 E	0.2916	Adder	0.34
918492	AA1-063AE OP	3.4622	50/50	3.4622
919692	AA2-053 E OP	3.3307	50/50	3.3307
919702	AA2-057 E OP	1.7318	Adder	2.04
920592	AA2-165 E	0.2380	Adder	0.28
922923	AB1-081 E OP	1.9462	Adder	2.29
923262	AB1-132 C OP (Suspended)	29.3303	50/50	29.3303
923263	AB1-132 E OP (Suspended)	12.5701	50/50	12.5701
923573	AB1-173 E OP	1.4585	50/50	1.4585
923991	AB2-040 C O1	10.1864	50/50	10.1864
923992	AB2-040 E O1	8.3344	50/50	8.3344
924022	AB2-043 E O1	1.2716	Adder	1.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924152	AB2-059 E OP	2.7571	Adder	3.24
924162	AB2-060 E OP	1.8959	Adder	2.23
924301	AB2-077 C O1 (Suspended)	0.8937	Adder	1.05
924302	AB2-077 E O1 (Suspended)	0.5958	Adder	0.7
924311	AB2-078 C O1 (Suspended)	0.8937	Adder	1.05
924312	AB2-078 E O1 (Suspended)	0.5958	Adder	0.7
924321	AB2-079 C O1 (Suspended)	0.8937	Adder	1.05
924322	AB2-079 E O1 (Suspended)	0.5958	Adder	0.7
925591	AC1-034 C	3.4666	Adder	4.08
925592	AC1-034 E	2.6152	Adder	3.08
925612	AC1-036 E	0.3036	Adder	0.36
925785	AC1-054 E	2.9698	50/50	2.9698
926070	AC1-086 C	43.1923	50/50	43.1923
926071	AC1-086 E	19.6583	50/50	19.6583
927145	AC1-208 C	6.0602	50/50	6.0602
927146	AC1-208 E	2.6801	50/50	2.6801
934331	AD1-057 C O1	12.8853	50/50	12.8853
934332	AD1-057 E O1	6.8735	50/50	6.8735
936265	AD2-033 C	4.8406	Adder	5.69
936266	AD2-033 E	3.2270	Adder	3.8
936361	AD2-046 C O1	4.6394	Adder	5.46
936362	AD2-046 E O1	2.1334	Adder	2.51
936485	AD2-063 C	6.2072	Adder	7.3
936486	AD2-063 E	4.1381	Adder	4.87
939181	AE1-148 C	4.5510	Adder	5.35
939182	AE1-148 E	3.0340	Adder	3.57
940481	AE2-033 C	28.0982	50/50	28.0982
940482	AE2-033 E	18.9426	50/50	18.9426
940571	AE2-044 C	2.2705	Adder	2.67
940572	AE2-044 E	0.9731	Adder	1.14
940661	AE2-053 O1	1.6856	Adder	1.98
942451	AE2-258	1.0609	Adder	1.25
942471	AE2-260 C O1	26.1100	50/50	26.1100
942472	AE2-260 E O1	37.0340	50/50	37.0340
943911	AF1-059	16.2609	50/50	16.2609
944141	AF1-082	1.4596	Adder	1.72
946011	AF1-266	23.5204	50/50	23.5204
946281	AF1-292 C	2.2873	50/50	2.2873
946282	AF1-292 E	1.5420	50/50	1.5420
959311	AF2-222 C	5.6959	Adder	6.7
959312	AF2-222 E	3.8162	Adder	4.49
960081	AF2-299 C	3.8550	50/50	3.8550
960082	AF2-299 E	2.5700	50/50	2.5700
962271	AG1-075 C O2	29.4242	50/50	29.4242
962272	AG1-075 E O2	17.9323	50/50	17.9323
962491	AG1-098 C O2	2.8625	Adder	6.35
962492	AG1-098 E O2	1.9083	Adder	4.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962571	AG1-106 C	12.0114	50/50	12.0114
962572	AG1-106 E	5.4471	50/50	5.4471
963301	AG1-179 C	6.5051	50/50	6.5051
963311	AG1-180	3.1695	50/50	3.1695
963321	AG1-181 C O2	3.2371	Adder	7.19
963361	AG1-185 O2	1.5662	Adder	3.48
964111	AG1-272 C	0.4818	Adder	1.07
964112	AG1-272 E	0.1431	Adder	0.32
964121	AG1-273 C	0.4818	Adder	1.07
964122	AG1-273 E	0.1431	Adder	0.32
964131	AG1-274 C	0.4818	Adder	1.07
964132	AG1-274 E	0.1431	Adder	0.32
964493	AG1-312 BAT	11.1153	50/50	11.1153
964501	AG1-313 C O2	1.0258	Adder	2.28
964502	AG1-313 E O2	0.6839	Adder	1.52
964931	AG1-357 C O2	4.3994	Adder	9.77
964932	AG1-357 E O2	2.9329	Adder	6.51
965191	AG1-384 C	0.4818	Adder	1.07
965192	AG1-384 E	0.1431	Adder	0.32
965451	AG1-413 C O2	6.5669	50/50	6.5669
965452	AG1-413 E O2	4.3779	50/50	4.3779
965591	AG1-427 C	2.6560	Adder	5.9
965592	AG1-427 E	1.7744	Adder	3.94
965601	AG1-428 C O2	5.4306	50/50	5.4306
965602	AG1-428 E O2	3.6140	50/50	3.6140
965721	AG1-440 C	5.2898	50/50	5.2898
965722	AG1-440 E	3.5265	50/50	3.5265
965731	AG1-441 C	5.2898	50/50	5.2898
965732	AG1-441 E	3.5265	50/50	3.5265
965742	AG1-442 BAT	4.6785	50/50	4.6785
965752	AG1-443 BAT	4.6785	50/50	4.6785
965771	AG1-445	3.0563	50/50	3.0563
965781	AG1-446	3.0563	50/50	3.0563
966621	AG1-532 C	2.0817	50/50	2.0817
966622	AG1-532 E	1.3878	50/50	1.3878
966751	AG1-546 C	14.6996	50/50	14.6996
966752	AG1-546 E	7.8874	50/50	7.8874
966811	AG1-552 C	2.5075	50/50	2.5075
966812	AG1-552 E	1.0747	50/50	1.0747
966932	AG1-431A BAT	9.7064	Merchant Transmission	9.7064
WEC	WEC	0.1213	Confirmed LTF	0.1213
LGEE	LGEE	0.2507	Confirmed LTF	0.2507
CPL	CPL	1.2510	Confirmed LTF	1.2510
CBM-W2	CBM-W2	5.1789	Confirmed LTF	5.1789
NY	NY	0.1648	Confirmed LTF	0.1648
TVA	TVA	0.9716	Confirmed LTF	0.9716
O-066	O-066	2.3353	Confirmed LTF	2.3353
SIGE	SIGE	0.0810	Confirmed LTF	0.0810
CBM-S2	CBM-S2	14.5220	Confirmed LTF	14.5220
CBM-S1	CBM-S1	0.2432	Confirmed LTF	0.2432
G-007	G-007	0.3675	Confirmed LTF	0.3675
MEC	MEC	0.7182	Confirmed LTF	0.7182

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	1.2040	Confirmed LTF	1.2040
CBM-W1	CBM-W1	5.0893	Confirmed LTF	5.0893

13.5.3 Index 3

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173971258	314561	6CAROLNA	DVP	314599	6ROA VAL	DVP	1	DVP_P4-2: 23872	breaker	671.0	105.75	112.82	DC	47.36

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3530	50/50	9.3530
314572	3EMPORIA	0.6243	50/50	0.6243
314704	3LAWRENC	0.3601	50/50	0.3601
315126	1ROARAP2	1.5793	50/50	1.5793
315128	1ROARAP4	1.5071	50/50	1.5071
315131	1EDGE CMA (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315132	1EDGE CMB (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315136	1ROSEMG1	3.8541	50/50	3.8541
315137	1ROSEMS1	2.3899	50/50	2.3899
315138	1ROSEMG2	1.8063	50/50	1.8063
315139	1GASTONA	6.0597	50/50	6.0597
315141	1GASTONB	6.0597	50/50	6.0597
315162	1KERR 5	0.6746	50/50	0.6746
315163	1KERR 6	0.6746	50/50	0.6746
315164	1KERR 7	0.6746	50/50	0.6746
315293	1DOMTR9	-3.2315	Adder	-3.8
315294	1DOMTR10	-3.9602	Adder	-4.66
315606	3AA2-053SOLA	1.2798	50/50	1.2798
315607	3AA1-063SOLA	1.1585	50/50	1.1585
316087	AB2-174 C	1.5782	50/50	1.5782
316088	AB2-174 E	9.0505	50/50	9.0505
316096	AB2-100 C1	1.6883	50/50	1.6883
316097	AB2-100 E1	5.2708	50/50	5.2708
316098	AB2-100 C2	1.6883	50/50	1.6883
316099	AB2-100 E2	5.2708	50/50	5.2708
316129	AC1-054 C	6.4467	50/50	6.4467
917342	Z2-044 E	0.2916	Adder	0.34
918492	AA1-063AE OP	3.4622	50/50	3.4622
919692	AA2-053 E OP	3.3307	50/50	3.3307
919702	AA2-057 E OP	1.7318	Adder	2.04
920592	AA2-165 E	0.2380	Adder	0.28
922923	AB1-081 E OP	1.9462	Adder	2.29
923262	AB1-132 C OP (Suspended)	29.3303	50/50	29.3303
923263	AB1-132 E OP (Suspended)	12.5701	50/50	12.5701
923573	AB1-173 E OP	1.4585	50/50	1.4585
923991	AB2-040 C O1	10.1864	50/50	10.1864
923992	AB2-040 E O1	8.3344	50/50	8.3344
924022	AB2-043 E O1	1.2716	Adder	1.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924152	AB2-059 E OP	2.7571	Adder	3.24
924162	AB2-060 E OP	1.8959	Adder	2.23
924301	AB2-077 C O1 (Suspended)	0.8937	Adder	1.05
924302	AB2-077 E O1 (Suspended)	0.5958	Adder	0.7
924311	AB2-078 C O1 (Suspended)	0.8937	Adder	1.05
924312	AB2-078 E O1 (Suspended)	0.5958	Adder	0.7
924321	AB2-079 C O1 (Suspended)	0.8937	Adder	1.05
924322	AB2-079 E O1 (Suspended)	0.5958	Adder	0.7
925591	AC1-034 C	3.4666	Adder	4.08
925592	AC1-034 E	2.6152	Adder	3.08
925612	AC1-036 E	0.3036	Adder	0.36
925785	AC1-054 E	2.9698	50/50	2.9698
926070	AC1-086 C	43.1923	50/50	43.1923
926071	AC1-086 E	19.6583	50/50	19.6583
927145	AC1-208 C	6.0602	50/50	6.0602
927146	AC1-208 E	2.6801	50/50	2.6801
934331	AD1-057 C O1	12.8853	50/50	12.8853
934332	AD1-057 E O1	6.8735	50/50	6.8735
936265	AD2-033 C	4.8406	Adder	5.69
936266	AD2-033 E	3.2270	Adder	3.8
936361	AD2-046 C O1	4.6394	Adder	5.46
936362	AD2-046 E O1	2.1334	Adder	2.51
936485	AD2-063 C	6.2072	Adder	7.3
936486	AD2-063 E	4.1381	Adder	4.87
939181	AE1-148 C	4.5510	Adder	5.35
939182	AE1-148 E	3.0340	Adder	3.57
940481	AE2-033 C	28.0982	50/50	28.0982
940482	AE2-033 E	18.9426	50/50	18.9426
940571	AE2-044 C	2.2705	Adder	2.67
940572	AE2-044 E	0.9731	Adder	1.14
940661	AE2-053 O1	1.6856	Adder	1.98
942451	AE2-258	1.0609	Adder	1.25
942471	AE2-260 C O1	26.1100	50/50	26.1100
942472	AE2-260 E O1	37.0340	50/50	37.0340
943911	AF1-059	16.2609	50/50	16.2609
944141	AF1-082	1.4596	Adder	1.72
946011	AF1-266	23.5204	50/50	23.5204
946281	AF1-292 C	2.2873	50/50	2.2873
946282	AF1-292 E	1.5420	50/50	1.5420
959311	AF2-222 C	5.6959	Adder	6.7
959312	AF2-222 E	3.8162	Adder	4.49
960081	AF2-299 C	3.8550	50/50	3.8550
960082	AF2-299 E	2.5700	50/50	2.5700
962271	AG1-075 C O2	29.4242	50/50	29.4242
962272	AG1-075 E O2	17.9323	50/50	17.9323
962491	AG1-098 C O2	2.8625	Adder	6.35
962492	AG1-098 E O2	1.9083	Adder	4.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962571	AG1-106 C	12.0114	50/50	12.0114
962572	AG1-106 E	5.4471	50/50	5.4471
963301	AG1-179 C	6.5051	50/50	6.5051
963311	AG1-180	3.1695	50/50	3.1695
963321	AG1-181 C O2	3.2371	Adder	7.19
963361	AG1-185 O2	1.5662	Adder	3.48
964111	AG1-272 C	0.4818	Adder	1.07
964112	AG1-272 E	0.1431	Adder	0.32
964121	AG1-273 C	0.4818	Adder	1.07
964122	AG1-273 E	0.1431	Adder	0.32
964131	AG1-274 C	0.4818	Adder	1.07
964132	AG1-274 E	0.1431	Adder	0.32
964493	AG1-312 BAT	11.1153	50/50	11.1153
964501	AG1-313 C O2	1.0258	Adder	2.28
964502	AG1-313 E O2	0.6839	Adder	1.52
964931	AG1-357 C O2	4.3994	Adder	9.77
964932	AG1-357 E O2	2.9329	Adder	6.51
965191	AG1-384 C	0.4818	Adder	1.07
965192	AG1-384 E	0.1431	Adder	0.32
965451	AG1-413 C O2	6.5669	50/50	6.5669
965452	AG1-413 E O2	4.3779	50/50	4.3779
965591	AG1-427 C	2.6560	Adder	5.9
965592	AG1-427 E	1.7744	Adder	3.94
965601	AG1-428 C O2	5.4306	50/50	5.4306
965602	AG1-428 E O2	3.6140	50/50	3.6140
965721	AG1-440 C	5.2898	50/50	5.2898
965722	AG1-440 E	3.5265	50/50	3.5265
965731	AG1-441 C	5.2898	50/50	5.2898
965732	AG1-441 E	3.5265	50/50	3.5265
965742	AG1-442 BAT	4.6785	50/50	4.6785
965752	AG1-443 BAT	4.6785	50/50	4.6785
965771	AG1-445	3.0563	50/50	3.0563
965781	AG1-446	3.0563	50/50	3.0563
966621	AG1-532 C	2.0817	50/50	2.0817
966622	AG1-532 E	1.3878	50/50	1.3878
966751	AG1-546 C	14.6996	50/50	14.6996
966752	AG1-546 E	7.8874	50/50	7.8874
966811	AG1-552 C	2.5075	50/50	2.5075
966812	AG1-552 E	1.0747	50/50	1.0747
966932	AG1-431A BAT	9.7064	Merchant Transmission	9.7064
WEC	WEC	0.1213	Confirmed LTF	0.1213
LGEE	LGEE	0.2507	Confirmed LTF	0.2507
CPL	CPL	1.2510	Confirmed LTF	1.2510
CBM-W2	CBM-W2	5.1789	Confirmed LTF	5.1789
NY	NY	0.1648	Confirmed LTF	0.1648
TVA	TVA	0.9716	Confirmed LTF	0.9716
O-066	O-066	2.3353	Confirmed LTF	2.3353
SIGE	SIGE	0.0810	Confirmed LTF	0.0810
CBM-S2	CBM-S2	14.5220	Confirmed LTF	14.5220
CBM-S1	CBM-S1	0.2432	Confirmed LTF	0.2432
G-007	G-007	0.3675	Confirmed LTF	0.3675
MEC	MEC	0.7182	Confirmed LTF	0.7182

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	1.2040	Confirmed LTF	1.2040
CBM-W1	CBM-W1	5.0893	Confirmed LTF	5.0893

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
173971259	314599	6ROA VAL	DVP	314266	6NORTHAMPTON	DVP	1	DVP_P4-2: 23872	breaker	671.0	105.71	112.77	DC	47.36

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3530	50/50	9.3530
314572	3EMPORIA	0.6243	50/50	0.6243
314704	3LAWRENC	0.3601	50/50	0.3601
315126	1ROARAP2	1.5793	50/50	1.5793
315128	1ROARAP4	1.5071	50/50	1.5071
315131	1EDGECEMA (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315132	1EDGECEMB (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315136	1ROSEMG1	3.8541	50/50	3.8541
315137	1ROSEMS1	2.3899	50/50	2.3899
315138	1ROSEMG2	1.8063	50/50	1.8063
315139	1GASTONA	6.0597	50/50	6.0597
315141	1GASTONB	6.0597	50/50	6.0597
315162	1KERR 5	0.6746	50/50	0.6746
315163	1KERR 6	0.6746	50/50	0.6746
315164	1KERR 7	0.6746	50/50	0.6746
315293	1DOMTR9	-3.2315	Adder	-3.8
315294	1DOMTR10	-3.9602	Adder	-4.66
315606	3AA2-053SOLA	1.2798	50/50	1.2798
315607	3AA1-063SOLA	1.1585	50/50	1.1585
316087	AB2-174 C	1.5782	50/50	1.5782
316088	AB2-174 E	9.0505	50/50	9.0505
316096	AB2-100 C1	1.6883	50/50	1.6883
316097	AB2-100 E1	5.2708	50/50	5.2708
316098	AB2-100 C2	1.6883	50/50	1.6883
316099	AB2-100 E2	5.2708	50/50	5.2708
316129	AC1-054 C	6.4467	50/50	6.4467
917342	Z2-044 E	0.2916	Adder	0.34
918492	AA1-063AE OP	3.4622	50/50	3.4622
919692	AA2-053 E OP	3.3307	50/50	3.3307
919702	AA2-057 E OP	1.7318	Adder	2.04
920592	AA2-165 E	0.2380	Adder	0.28
922923	AB1-081 E OP	1.9462	Adder	2.29
923262	AB1-132 C OP (Suspended)	29.3303	50/50	29.3303
923263	AB1-132 E OP (Suspended)	12.5701	50/50	12.5701
923573	AB1-173 E OP	1.4585	50/50	1.4585
923991	AB2-040 C O1	10.1864	50/50	10.1864
923992	AB2-040 E O1	8.3344	50/50	8.3344
924022	AB2-043 E O1	1.2716	Adder	1.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924152	AB2-059 E OP	2.7571	Adder	3.24
924162	AB2-060 E OP	1.8959	Adder	2.23
924301	AB2-077 C O1 (Suspended)	0.8937	Adder	1.05
924302	AB2-077 E O1 (Suspended)	0.5958	Adder	0.7
924311	AB2-078 C O1 (Suspended)	0.8937	Adder	1.05
924312	AB2-078 E O1 (Suspended)	0.5958	Adder	0.7
924321	AB2-079 C O1 (Suspended)	0.8937	Adder	1.05
924322	AB2-079 E O1 (Suspended)	0.5958	Adder	0.7
925591	AC1-034 C	3.4666	Adder	4.08
925592	AC1-034 E	2.6152	Adder	3.08
925612	AC1-036 E	0.3036	Adder	0.36
925785	AC1-054 E	2.9698	50/50	2.9698
926070	AC1-086 C	43.1923	50/50	43.1923
926071	AC1-086 E	19.6583	50/50	19.6583
927145	AC1-208 C	6.0602	50/50	6.0602
927146	AC1-208 E	2.6801	50/50	2.6801
934331	AD1-057 C O1	12.8853	50/50	12.8853
934332	AD1-057 E O1	6.8735	50/50	6.8735
936265	AD2-033 C	4.8406	Adder	5.69
936266	AD2-033 E	3.2270	Adder	3.8
936361	AD2-046 C O1	4.6394	Adder	5.46
936362	AD2-046 E O1	2.1334	Adder	2.51
936485	AD2-063 C	6.2072	Adder	7.3
936486	AD2-063 E	4.1381	Adder	4.87
939181	AE1-148 C	4.5510	Adder	5.35
939182	AE1-148 E	3.0340	Adder	3.57
940481	AE2-033 C	28.0982	50/50	28.0982
940482	AE2-033 E	18.9426	50/50	18.9426
940571	AE2-044 C	2.2705	Adder	2.67
940572	AE2-044 E	0.9731	Adder	1.14
940661	AE2-053 O1	1.6856	Adder	1.98
942451	AE2-258	1.0609	Adder	1.25
942471	AE2-260 C O1	26.1100	50/50	26.1100
942472	AE2-260 E O1	37.0340	50/50	37.0340
943911	AF1-059	16.2609	50/50	16.2609
944141	AF1-082	1.4596	Adder	1.72
946011	AF1-266	23.5204	50/50	23.5204
946281	AF1-292 C	2.2873	50/50	2.2873
946282	AF1-292 E	1.5420	50/50	1.5420
959311	AF2-222 C	5.6959	Adder	6.7
959312	AF2-222 E	3.8162	Adder	4.49
960081	AF2-299 C	3.8550	50/50	3.8550
960082	AF2-299 E	2.5700	50/50	2.5700
962271	AG1-075 C O2	29.4242	50/50	29.4242
962272	AG1-075 E O2	17.9323	50/50	17.9323
962491	AG1-098 C O2	2.8625	Adder	6.35
962492	AG1-098 E O2	1.9083	Adder	4.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962571	AG1-106 C	12.0114	50/50	12.0114
962572	AG1-106 E	5.4471	50/50	5.4471
963301	AG1-179 C	6.5051	50/50	6.5051
963311	AG1-180	3.1695	50/50	3.1695
963321	AG1-181 C O2	3.2371	Adder	7.19
963361	AG1-185 O2	1.5662	Adder	3.48
964111	AG1-272 C	0.4818	Adder	1.07
964112	AG1-272 E	0.1431	Adder	0.32
964121	AG1-273 C	0.4818	Adder	1.07
964122	AG1-273 E	0.1431	Adder	0.32
964131	AG1-274 C	0.4818	Adder	1.07
964132	AG1-274 E	0.1431	Adder	0.32
964493	AG1-312 BAT	11.1153	50/50	11.1153
964501	AG1-313 C O2	1.0258	Adder	2.28
964502	AG1-313 E O2	0.6839	Adder	1.52
964931	AG1-357 C O2	4.3994	Adder	9.77
964932	AG1-357 E O2	2.9329	Adder	6.51
965191	AG1-384 C	0.4818	Adder	1.07
965192	AG1-384 E	0.1431	Adder	0.32
965451	AG1-413 C O2	6.5669	50/50	6.5669
965452	AG1-413 E O2	4.3779	50/50	4.3779
965591	AG1-427 C	2.6560	Adder	5.9
965592	AG1-427 E	1.7744	Adder	3.94
965601	AG1-428 C O2	5.4306	50/50	5.4306
965602	AG1-428 E O2	3.6140	50/50	3.6140
965721	AG1-440 C	5.2898	50/50	5.2898
965722	AG1-440 E	3.5265	50/50	3.5265
965731	AG1-441 C	5.2898	50/50	5.2898
965732	AG1-441 E	3.5265	50/50	3.5265
965742	AG1-442 BAT	4.6785	50/50	4.6785
965752	AG1-443 BAT	4.6785	50/50	4.6785
965771	AG1-445	3.0563	50/50	3.0563
965781	AG1-446	3.0563	50/50	3.0563
966621	AG1-532 C	2.0817	50/50	2.0817
966622	AG1-532 E	1.3878	50/50	1.3878
966751	AG1-546 C	14.6996	50/50	14.6996
966752	AG1-546 E	7.8874	50/50	7.8874
966811	AG1-552 C	2.5075	50/50	2.5075
966812	AG1-552 E	1.0747	50/50	1.0747
966932	AG1-431A BAT	9.7064	Merchant Transmission	9.7064
WEC	WEC	0.1213	Confirmed LTF	0.1213
LGEE	LGEE	0.2507	Confirmed LTF	0.2507
CPL	CPL	1.2510	Confirmed LTF	1.2510
CBM-W2	CBM-W2	5.1789	Confirmed LTF	5.1789
NY	NY	0.1648	Confirmed LTF	0.1648
TVA	TVA	0.9716	Confirmed LTF	0.9716
O-066	O-066	2.3353	Confirmed LTF	2.3353
SIGE	SIGE	0.0810	Confirmed LTF	0.0810
CBM-S2	CBM-S2	14.5220	Confirmed LTF	14.5220
CBM-S1	CBM-S1	0.2432	Confirmed LTF	0.2432
G-007	G-007	0.3675	Confirmed LTF	0.3675
MEC	MEC	0.7182	Confirmed LTF	0.7182

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	1.2040	Confirmed LTF	1.2040
CBM-W1	CBM-W1	5.0893	Confirmed LTF	5.0893

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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
174372871	314225	6CHARCTY	DVP	314227	6LAKESIDE	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	106.35	107.79	DC	17.27

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

13.5.6 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
173787961	314563	6CLUBHSE	DVP	313725	6DRY BREAD	DVP	1	DVP_P4-2: 23872	breaker	459.0	90.27	114.96	DC	113.28

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	12.0634	50/50	12.0634
314572	3EMPORIA	1.0956	50/50	1.0956
314704	3LAWRENC	0.6554	50/50	0.6554
316087	AB2-174 C	2.3169	50/50	2.3169
316088	AB2-174 E	13.2867	50/50	13.2867
923573	AB1-173 E OP	1.8812	50/50	1.8812
923991	AB2-040 C O1	13.1384	50/50	13.1384
923992	AB2-040 E O1	10.7496	50/50	10.7496
924022	AB2-043 E O1	1.4076	Adder	1.66
924162	AB2-060 E OP	2.0990	Adder	2.47
924301	AB2-077 C O1 (Suspended)	0.9639	Adder	1.13
924302	AB2-077 E O1 (Suspended)	0.6426	Adder	0.76
924311	AB2-078 C O1 (Suspended)	0.9639	Adder	1.13
924312	AB2-078 E O1 (Suspended)	0.6426	Adder	0.76
924321	AB2-079 C O1 (Suspended)	0.9639	Adder	1.13
924322	AB2-079 E O1 (Suspended)	0.6426	Adder	0.76
936265	AD2-033 C	5.3962	Adder	6.35
936266	AD2-033 E	3.5974	Adder	4.23
936485	AD2-063 C	6.8934	Adder	8.11
936486	AD2-063 E	4.5956	Adder	5.41
940481	AE2-033 C	67.2137	50/50	67.2137
940482	AE2-033 E	45.3126	50/50	45.3126
942451	AE2-258	1.1744	Adder	1.38
942471	AE2-260 C O1	62.4559	50/50	62.4559
942472	AE2-260 E O1	88.5861	50/50	88.5861
943911	AF1-059	27.2998	50/50	27.2998
946011	AF1-266	56.2631	50/50	56.2631
946281	AF1-292 C	4.3965	50/50	4.3965
946282	AF1-292 E	2.9639	50/50	2.9639
960081	AF2-299 C	7.4099	50/50	7.4099
960082	AF2-299 E	4.9399	50/50	4.9399
962271	AG1-075 C O2	70.3856	50/50	70.3856
962272	AG1-075 E O2	42.8959	50/50	42.8959
962491	AG1-098 C O2	3.1723	Adder	7.04
962492	AG1-098 E O2	2.1149	Adder	4.69
963301	AG1-179 C	11.5854	50/50	11.5854
963311	AG1-180	5.6447	50/50	5.6447

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963321	AG1-181 C O2	3.6141	Adder	8.02
963361	AG1-185 O2	1.7486	Adder	3.88
964931	AG1-357 C O2	4.8827	Adder	10.84
964932	AG1-357 E O2	3.2551	Adder	7.23
965451	AG1-413 C O2	10.8453	50/50	10.8453
965452	AG1-413 E O2	7.2302	50/50	7.2302
965591	AG1-427 C	2.9475	Adder	6.54
965592	AG1-427 E	1.9691	Adder	4.37
965601	AG1-428 C O2	9.6717	50/50	9.6717
965602	AG1-428 E O2	6.4364	50/50	6.4364
966621	AG1-532 C	4.0013	50/50	4.0013
966622	AG1-532 E	2.6675	50/50	2.6675
G-007A	G-007A	0.0144	Confirmed LTF	0.0144
VFT	VFT	0.0387	Confirmed LTF	0.0387
CALDERWOOD	CALDERWOOD	0.0447	Confirmed LTF	0.0447
PRAIRIE	PRAIRIE	0.1059	Confirmed LTF	0.1059
CHEOAH	CHEOAH	0.0465	Confirmed LTF	0.0465
CBM-N	CBM-N	0.0072	Confirmed LTF	0.0072
COTTONWOOD	COTTONWOOD	0.1617	Confirmed LTF	0.1617
HAMLET	HAMLET	0.1709	Confirmed LTF	0.1709
GIBSON	GIBSON	0.0120	Confirmed LTF	0.0120
BLUEG	BLUEG	0.0312	Confirmed LTF	0.0312
TRIMBLE	TRIMBLE	0.0095	Confirmed LTF	0.0095
CATAWBA	CATAWBA	0.0623	Confirmed LTF	0.0623

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
163496120	313845	6HATHAWAY	DVP	304222	6ROCKYMT230T	CPL	1	DVP_P1-2: LN 2181	single	478.0	103.13	104.72	DC	7.61

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

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

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

13.5.8 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
168630922	314218	6ELMONT	DVP	314908	8ELMONT	DVP	2	DVP_P1-2: LN 557	single	879.84	150.95	151.42	DC	10.32

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	11.0575	80/20	11.0575
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	17.8283	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
957521	AF2-046 C	7.7350	Adder	9.1
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	9.0924	Adder	10.7
957821	AF2-076 C	2.7764	Adder	3.27
957831	AF2-077 C	1.3275	Adder	1.56

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957871	AF2-081 C	5.2279	Adder	6.15
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
961681	AG1-008 C	4.2653	Adder	9.47
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 O2	4.6500	Adder	10.32
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
963341	AG1-183 C	1.5779	Adder	3.5
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 O2	6.7361	Adder	14.95
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 O2	2.0330	Adder	4.51
965181	AG1-383 C	0.7685	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
965691	AG1-437 C O1	2.5689	Adder	5.7
965701	AG1-438 C O1	2.5689	Adder	5.7
965741	AG1-442 O1	1.4985	Adder	3.33
965751	AG1-443 O1	1.4985	Adder	3.33
966491	AG1-518 O2	2.4818	Adder	5.51

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966611	AG1-531 C	2.0603	Adder	4.57
966661	AG1-536 C	1.7118	Adder	3.8
966711	AG1-541 C	1.4216	Adder	3.16
966731	AG1-544 C	2.3216	Adder	5.15
966741	AG1-545 C	0.7727	Adder	1.72
966871	AG1-558 C	2.4848	80/20	2.4848
966881	AG1-559 C	0.5331	Adder	1.18
966931	AG1-431A	8.9595	Adder	19.89
WEC	WEC	0.0702	Confirmed LTF	0.0702
LGEE	LGEE	0.1502	Confirmed LTF	0.1502
CPL	CPL	3.2692	Confirmed LTF	3.2692
CBM-W2	CBM-W2	7.4816	Confirmed LTF	7.4816
NY	NY	0.7001	Confirmed LTF	0.7001
TVA	TVA	1.6660	Confirmed LTF	1.6660
SIGE	SIGE	0.1751	Confirmed LTF	0.1751
CBM-S2	CBM-S2	35.9554	Confirmed LTF	35.9554
CBM-S1	CBM-S1	0.3865	Confirmed LTF	0.3865
MEC	MEC	0.6896	Confirmed LTF	0.6896
LAGN	LAGN	2.0825	Confirmed LTF	2.0825
AA2-074	AA2-074	2.1551	LTF	2.1551
CBM-W1	CBM-W1	2.3133	Confirmed LTF	2.3133

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174372680	314218	6ELMONT	DVP	314908	8ELMONT	DVP	1	DVP_P4-2: H2T557	breaker	1050.6	206.87	207.07	DC	25.49

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314177	3HAYES89	0.0523	Adder	0.06
314189	6PAPERMILL	7.2970	Adder	8.58
314229	6MT RD221	0.2202	50/50	0.2202
314236	6NRTHEST	0.2917	50/50	0.2917
314241	6OLDCHRC	1.3771	50/50	1.3771
314331	6POE	2.1924	Adder	2.58
314466	6FENTRES	1.7255	Adder	2.03
314525	6KINGFORK	3.5337	Adder	4.16
315045	1FOUR RIVERC	5.9659	50/50	5.9659
315047	1FOUR RIVERE	4.8812	50/50	4.8812
315048	1FOUR RIVERF	5.9659	50/50	5.9659
315051	1AA1-145 CT1	7.6834	50/50	7.6834
315052	1AA1-145 CT2	7.6834	50/50	7.6834
315058	1CHESTF3 (Deactivation : 13/12/2018)	22.6151	Adder	26.61
315059	1CHESTF4 (Deactivation : 13/12/2018)	36.6591	Adder	43.13
315060	1CHESTF5 (Deactivation : 31/05/2023)	76.8324	Adder	90.39
315065	1CHESTF6 (Deactivation : 31/05/2023)	144.2692	Adder	169.73
315067	1DARBY 1	3.9475	50/50	3.9475
315068	1DARBY 2	3.9521	50/50	3.9521
315069	1DARBY 3	3.9660	50/50	3.9660
315070	1DARBY 4	3.9706	50/50	3.9706
315073	1STONECA	7.8267	Adder	9.21
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0204	Adder	0.02
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0204	Adder	0.02
315083	1SPRUNCA (Deactivation : 12/01/2021)	12.4754	Adder	14.68
315084	1SPRUNCB (Deactivation : 12/01/2021)	12.4754	Adder	14.68
316076	AC2-137 E	1.7109	Adder	2.01
316078	AC2-138 E	0.8670	Adder	1.02
316083	AB2-161 C	3.2639	Adder	3.84
316084	AB2-161 E	5.3253	Adder	6.27
316108	AB2-160 C	5.9613	Adder	7.01
316109	AB2-160 E	9.7263	Adder	11.44
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	39.9445	Adder	46.99

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	39.9445	Adder	46.99
316114	AB2-068 ST (Withdrawn : 01/11/2021)	69.1996	Adder	81.41
316132	AB2-190 C	20.9840	Adder	24.69
316134	AC1-107 G1	75.0084	Adder	88.25
316135	AC1-107 G2	75.0084	Adder	88.25
316136	AC1-107 G3	75.0224	Adder	88.26
316151	AD2-215 E (Withdrawn : 01/14/2021)	0.7562	Adder	0.89
316157	AD2-030 E	1.2318	Adder	1.45
916192	Z1-068 E	1.4734	Adder	1.73
923842	AB2-024 E	1.2299	Adder	1.45
923852	AB2-025 E	0.9087	Adder	1.07
924814	AB2-134 E	12.9256	Adder	15.21
925332	AB2-190 E	8.9931	Adder	10.58
925522	AC1-027 E	0.8989	Adder	1.06
925863	AC1-065 C	7.9911	Adder	9.4
925865	AC1-065 E	5.9264	Adder	6.97
926412	AC1-112 E	1.9016	50/50	1.9016
926662	AC1-147 E	1.0483	Adder	1.23
926784	AC1-164 C	48.6842	Adder	57.28
926785	AC1-164 E	21.8726	Adder	25.73
927044	AC1-191 C	17.4832	50/50	17.4832
927045	AC1-191 E	8.7088	50/50	8.7088
927226	AC1-216 E	7.8908	Adder	9.28
930122	AB1-027 E	1.8704	50/50	1.8704
932044	AC2-012 C	8.0747	Adder	9.5
932046	AC2-012 E	13.1745	Adder	15.5
932501	AC2-070 C (Withdrawn : 01/22/2021)	0.4525	50/50	0.4525
932502	AC2-070 E (Withdrawn : 01/22/2021)	1.1846	50/50	1.1846
932581	AC2-078 C O1	3.9380	Adder	4.63
932582	AC2-078 E O1	6.4252	Adder	7.56
932591	AC2-079 C O1	5.1110	Adder	6.01
932592	AC2-079 E O1	8.3390	Adder	9.81
933732	AC2-196 E	0.9269	Adder	1.09
934014	AD1-025 C	17.2463	Adder	20.29
934015	AD1-025 E	10.2159	Adder	12.02
934061	AD1-033 C	5.8523	Adder	6.89
934062	AD1-033 E	3.9015	Adder	4.59
934141	AD1-041 C	5.6398	Adder	6.64
934142	AD1-041 E	3.7599	Adder	4.42
934392	AD1-063 E	1.1572	Adder	1.36
934575	AD1-082 C	7.4383	Adder	8.75
934576	AD1-082 E	4.2431	Adder	4.99
934781	AD1-105 C	10.0593	Adder	11.83
934782	AD1-105 E	6.9904	Adder	8.22
935112	AD1-144 E	0.7708	Adder	0.91
935164	AD1-151 C	16.8621	Adder	19.84
935165	AD1-151 E	11.2414	Adder	13.23
936041	AD2-007 C	0.8239	Adder	0.97

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936042	AD2-007 E	0.5676	Adder	0.67
936051	AD2-008 C	3.0025	Adder	3.53
936052	AD2-008 E	6.5360	Adder	7.69
936581	AD2-073 C	1.9130	Adder	2.25
936582	AD2-073 E	0.9479	Adder	1.12
936591	AD2-074 C	5.4228	Adder	6.38
936592	AD2-074 E	8.8478	Adder	10.41
936661	AD2-085 C	2.9376	Adder	3.46
936662	AD2-085 E	4.7930	Adder	5.64
936761	AD2-097 C	2.3660	Adder	2.78
936762	AD2-097 E	11.8301	Adder	13.92
938552	AE1-074 E	1.3210	Adder	1.55
938634	AE1-085 C	8.6759	Adder	10.21
938635	AE1-085 E	4.3380	Adder	5.1
939195	AE1-149 C	10.6508	Adder	12.53
939196	AE1-149 E	7.1006	Adder	8.35
939245	AE1-155 C	12.4135	Adder	14.6
939246	AE1-155 E	8.3301	Adder	9.8
939312	AE1-162 E	1.2547	Adder	1.48
939431	AE1-175 C	2.4146	Adder	2.84
939432	AE1-175 E	1.1982	Adder	1.41
939611	AE1-191 C	11.2797	Adder	13.27
939612	AE1-191 E	7.5198	Adder	8.85
939755	AE1-206 C	52.5244	50/50	52.5244
939756	AE1-206 E	35.0162	50/50	35.0162
940061	AE2-000BC O1	10.2128	Adder	12.02
940062	AE2-000BE O1	6.8085	Adder	8.01
940231	AE2-005 C	1.4529	Adder	1.71
940232	AE2-005 E	2.3706	Adder	2.79
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	136.6928	Adder	160.82
940431	AE2-027 C O1	14.9677	Adder	17.61
940432	AE2-027 E O1	9.9785	Adder	11.74
940481	AE2-033 C	12.8560	Adder	15.12
940482	AE2-033 E	8.6669	Adder	10.2
940541	AE2-040	2.3011	Adder	2.71
940551	AE2-041	7.7149	Adder	9.08
940651	AE2-052	3.5503	Adder	4.18
940891	AE2-078 C	2.1879	Adder	2.57
940892	AE2-078 E	1.1271	Adder	1.33
940901	AE2-079 C	2.1879	Adder	2.57
940902	AE2-079 E	1.1271	Adder	1.33
941101	AE2-104 C O1	2.6973	Adder	3.17
941102	AE2-104 E O1	4.2883	Adder	5.05
941281	AE2-122 C O1	22.2830	Adder	26.22
941282	AE2-122 E O1	89.9174	Adder	105.79
941291	AE2-123 C O1	22.9000	Adder	26.94
941292	AE2-123 E O1	89.3004	Adder	105.06
941301	AE2-124 C O1	20.8031	Adder	24.47
941302	AE2-124 E O1	91.2817	Adder	107.39
941581	AE2-155 C	0.1722	50/50	0.1722
941582	AE2-155 E	0.4676	50/50	0.4676

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941591	AE2-156 O1	14.1525	Adder	16.65
942001	AE2-212 C	2.3765	Adder	2.8
942002	AE2-212 E	1.5843	Adder	1.86
942131	AE2-225 C	1.6729	Adder	1.97
942132	AE2-225 E	1.1153	Adder	1.31
942151	AE2-227 C	2.7553	Adder	3.24
942152	AE2-227 E	1.8369	Adder	2.16
942161	AE2-228 C	2.5076	Adder	2.95
942162	AE2-228 E	1.6717	Adder	1.97
942171	AE2-229 C	1.2547	Adder	1.48
942172	AE2-229 E	0.8365	Adder	0.98
942341	AE2-247 C	1.2743	Adder	1.5
942342	AE2-247 E	1.7598	Adder	2.07
942371	AE2-250 C O1	10.5891	Adder	12.46
942372	AE2-250 E O1	5.5887	Adder	6.57
942551	AE2-270	27.7504	Adder	32.65
943431	AF1-014 C	1.3764	Adder	1.62
943432	AF1-014 E	2.4279	Adder	2.86
943461	AF1-017 C	1.1530	Adder	1.36
943462	AF1-017 E	1.8812	Adder	2.21
943471	AF1-018	7.7149	Adder	9.08
943601	AF1-031 C	13.4383	Adder	15.81
943602	AF1-031 E	7.2650	Adder	8.55
943611	AF1-032 C	1.3662	Adder	1.61
943612	AF1-032 E	0.7249	Adder	0.85
943621	AF1-033 C	2.1879	Adder	2.57
943622	AF1-033 E	1.1271	Adder	1.33
943741	AF1-042 C	2.8375	Adder	3.34
943742	AF1-042 E	4.6296	Adder	5.45
943991	AF1-067 C	6.6428	Adder	7.82
943992	AF1-067 E	4.4285	Adder	5.21
944631	AF1-128 O1	67.3710	Adder	79.26
944641	AF1-129	121.0576	Adder	142.42
945361	AF1-201 C O1	15.2640	Adder	17.96
945362	AF1-201 E O1	10.1760	Adder	11.97
946001	AF1-265	46.0740	50/50	46.0740
946011	AF1-266	10.7615	Adder	12.66
946261	AF1-291 C	2.5083	Adder	2.95
946262	AF1-291 E	1.6722	Adder	1.97
957491	AF2-043 C	1.6729	Adder	1.97
957492	AF2-043 E	1.1153	Adder	1.31
957601	AF2-054 C	2.1952	Adder	2.58
957602	AF2-054 E	1.4635	Adder	1.72
957631	AF2-057	2.8332	Adder	3.33
957711	AF2-065 C	14.1527	Adder	16.65
957712	AF2-065 E	13.5977	Adder	16.0
957831	AF2-077 C	2.0755	Adder	2.44
957832	AF2-077 E	1.3837	Adder	1.63
957911	AF2-085	3.2365	Adder	3.81
958141	AF2-108	1.8567	Adder	2.18
958161	AF2-110 C	1.1120	Adder	1.31
958162	AF2-110 E	1.7393	Adder	2.05

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958261	AF2-120 C	6.0793	Adder	7.15
958262	AF2-120 E	4.0528	Adder	4.77
959641	AF2-255 C	0.6888	Adder	0.81
959642	AF2-255 E	0.4592	Adder	0.54
959651	AF2-256 C	0.6269	Adder	0.74
959652	AF2-256 E	0.4179	Adder	0.49
959661	AF2-257 C	0.6271	Adder	0.74
959662	AF2-257 E	0.4180	Adder	0.49
959671	AF2-258 C	0.5941	Adder	0.7
959672	AF2-258 E	0.3961	Adder	0.47
959681	AF2-259 C	2.7850	Adder	3.28
959682	AF2-259 E	1.8567	Adder	2.18
961711	AG1-011	15.5253	Adder	34.46
961851	AG1-027 C	7.1296	Adder	15.83
961852	AG1-027 E	3.9412	Adder	8.75
961951	AG1-038 C	1.6622	Adder	3.69
961952	AG1-038 E	2.2954	Adder	5.1
962131	AG1-057	2.0445	Adder	4.54
962191	AG1-064 C	1.0116	Adder	2.25
962192	AG1-064 E	1.4036	Adder	3.12
962201	AG1-065 C	1.0116	Adder	2.25
962202	AG1-065 E	1.4036	Adder	3.12
962271	AG1-075 C O2	7.1352	Adder	15.84
962272	AG1-075 E O2	4.3485	Adder	9.65
962321	AG1-081 C (Withdrawn : 01/15/2021)	1.0542	Adder	2.34
962322	AG1-081 E (Withdrawn : 01/15/2021)	0.7028	Adder	1.56
962531	AG1-102 C	0.5647	Adder	1.25
962532	AG1-102 E	1.1770	Adder	2.61
962533	AG1-102 BAT	0.0092	Adder	0.02
962851	AG1-134 C	7.0413	Adder	15.63
962852	AG1-134 E	4.6942	Adder	10.42
962861	AG1-135 C	3.1382	Adder	6.97
962862	AG1-135 E	2.0921	Adder	4.64
962961	AG1-145 C	1.1547	Adder	2.56
962962	AG1-145 E	0.7698	Adder	1.71
962971	AG1-146 C	1.6316	Adder	3.62
962972	AG1-146 E	1.0877	Adder	2.41
962981	AG1-147 C	3.8071	Adder	8.45
962982	AG1-147 E	2.5381	Adder	5.63
963221	AG1-171 C	1.1916	Adder	2.65
963222	AG1-171 E	0.7944	Adder	1.76
963231	AG1-172 C	1.1916	Adder	2.65
963232	AG1-172 E	0.7944	Adder	1.76
963241	AG1-173 C	1.1916	Adder	2.65
963242	AG1-173 E	0.7944	Adder	1.76
963251	AG1-174 C	1.1916	Adder	2.65
963252	AG1-174 E	0.7944	Adder	1.76
963261	AG1-175 C	1.1916	Adder	2.65
963262	AG1-175 E	0.7944	Adder	1.76
963611	AG1-210 C	0.3282	Adder	0.73
963612	AG1-210 E	0.4924	Adder	1.09

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963821	AG1-235 C O2	2.4724	Adder	5.49
963822	AG1-235 E O2	1.6483	Adder	3.66
964021	AG1-256 C	0.6366	Adder	1.41
964022	AG1-256 E	0.9549	Adder	2.12
964211	AG1-282 C	1.0295	Adder	2.29
964212	AG1-282 E	0.6863	Adder	1.52
964951	AG1-359 O1	11.0647	Adder	24.56
965001	AG1-364 C O2	3.0142	Adder	6.69
965002	AG1-364 E O2	4.5213	Adder	10.04
965231	AG1-388 C	1.0295	Adder	2.29
965232	AG1-388 E	0.6863	Adder	1.52
966611	AG1-531 C	3.1424	Adder	6.98
966612	AG1-531 E	2.0949	Adder	4.65
966661	AG1-536 C	2.7702	Adder	6.15
966662	AG1-536 E	3.7224	Adder	8.26
966731	AG1-544 C	3.5912	Adder	7.97
966732	AG1-544 E	1.9267	Adder	4.28
966741	AG1-545 C	1.1948	Adder	2.65
966742	AG1-545 E	0.6405	Adder	1.42
966871	AG1-558 C	3.9288	50/50	3.9288
966872	AG1-558 E	2.6192	50/50	2.6192
WEC	WEC	0.0936	Confirmed LTF	0.0936
LGEE	LGEE	0.2011	Confirmed LTF	0.2011
CPL	CPL	4.8853	Confirmed LTF	4.8853
CBM-W2	CBM-W2	10.8774	Confirmed LTF	10.8774
NY	NY	1.0573	Confirmed LTF	1.0573
TVA	TVA	2.4458	Confirmed LTF	2.4458
O-066	O-066	13.6215	Confirmed LTF	13.6215
SIGE	SIGE	0.2597	Confirmed LTF	0.2597
CBM-S2	CBM-S2	53.5885	Confirmed LTF	53.5885
CBM-S1	CBM-S1	0.5654	Confirmed LTF	0.5654
G-007	G-007	2.1315	Confirmed LTF	2.1315
MEC	MEC	0.9725	Confirmed LTF	0.9725
LAGN	LAGN	3.0573	Confirmed LTF	3.0573
AA2-074	AA2-074	3.2207	LTF	3.2207
CBM-W1	CBM-W1	2.9442	Confirmed LTF	2.9442

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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
168630957	314236	6NRTHEST	DVP	314218	6ELMONT	DVP	1	DVP_P1-2: LN 557	single	678.68	117.81	118.26	DC	6.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314184	3SHACKLE	0.3039	80/20	0.3039
314236	6NRTHEST	0.3943	80/20	0.3943
314243	3PROV 92	0.2838	80/20	0.2838
314314	3LOCKS	0.1625	80/20	0.1625
314375	6CORRCTN	0.2160	80/20	0.2160
315058	1CHESTF3 (Deactivation : 13/12/2018)	13.0820	80/20	13.0820
315059	1CHESTF4 (Deactivation : 13/12/2018)	21.2059	80/20	21.2059
315060	1CHESTF5 (Deactivation : 31/05/2023)	27.2332	Adder	32.04
315065	1CHESTF6 (Deactivation : 31/05/2023)	72.1431	80/20	72.1431
315067	1DARBY 1	4.8719	80/20	4.8719
315068	1DARBY 2	4.8776	80/20	4.8776
315069	1DARBY 3	4.8947	80/20	4.8947
315070	1DARBY 4	4.9004	80/20	4.9004
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0095	80/20	0.0095
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0095	80/20	0.0095
315076	1HOPPOLC	0.7985	80/20	0.7985
315077	1HOPHCF1	1.2481	80/20	1.2481
315078	1HOPHCF2	1.2481	80/20	1.2481
315079	1HOPHCF3	1.2481	80/20	1.2481
315080	1HOPHCF4	1.8947	80/20	1.8947
315083	1SPRUNCA (Deactivation : 12/01/2021)	12.1446	80/20	12.1446
315084	1SPRUNCB (Deactivation : 12/01/2021)	12.1446	80/20	12.1446
316075	AC2-137 C	0.3699	80/20	0.3699
316083	AB2-161 C	1.3994	Adder	1.65
316103	AB2-015 C	2.8777	Adder	3.39
316108	AB2-160 C	3.1321	80/20	3.1321
316112	AB2-068 CT1 (Withdrawn : 01/11/2021)	21.7960	Adder	25.64
316113	AB2-068 CT2 (Withdrawn : 01/11/2021)	21.7960	Adder	25.64
316114	AB2-068 ST (Withdrawn : 01/11/2021)	37.7593	Adder	44.42
316132	AB2-190 C	8.5604	Adder	10.07
316134	AC1-107 G1	40.9289	Adder	48.15

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316135	AC1-107 G2	40.9289	Adder	48.15
316136	AC1-107 G3	40.9366	Adder	48.16
925863	AC1-065 C	4.0262	80/20	4.0262
926754	AC1-161 C	10.3668	Adder	12.2
926784	AC1-164 C	24.4404	80/20	24.4404
932044	AC2-012 C	3.5785	Adder	4.21
932581	AC2-078 C O1	1.6872	Adder	1.98
932591	AC2-079 C O1	2.2167	Adder	2.61
933294	AC2-141 C	10.3668	Adder	12.2
934014	AD1-025 C	7.0878	Adder	8.34
934061	AD1-033 C	2.6032	Adder	3.06
934141	AD1-041 C	2.8263	80/20	2.8263
934391	AD1-063 C	0.1367	80/20	0.1367
934575	AD1-082 C	3.1892	Adder	3.75
935164	AD1-151 C	6.8789	Adder	8.09
936041	AD2-007 C	0.3386	Adder	0.4
936051	AD2-008 C	1.2340	Adder	1.45
936151	AD2-021	0.0422	80/20	0.0422
936591	AD2-074 C	2.1500	Adder	2.53
936661	AD2-085 C	1.2821	Adder	1.51
936761	AD2-097 C	2.3033	80/20	2.3033
937221	AD2-160 C O1	2.0188	Adder	2.38
938535	AE1-072 C	6.0622	Adder	7.13
938634	AE1-085 C	3.7149	Adder	4.37
938771	AE1-103 C	1.2395	Adder	1.46
939195	AE1-149 C	4.5467	Adder	5.35
939245	AE1-155 C	4.8683	Adder	5.73
939431	AE1-175 C	1.2430	80/20	1.2430
939611	AE1-191 C	5.6526	80/20	5.6526
940061	AE2-000BC O1	4.3845	Adder	5.16
940231	AE2-005 C	0.7320	80/20	0.7320
940251	AE2-007 O1 (Withdrawn : 12/11/2020)	60.6400	Adder	71.34
940431	AE2-027 C O1	8.2030	80/20	8.2030
940481	AE2-033 C	5.5436	Adder	6.52
940541	AE2-040	0.9914	Adder	1.17
940551	AE2-041	3.8512	80/20	3.8512
940651	AE2-052	1.5155	Adder	1.78
940891	AE2-078 C	0.9337	Adder	1.1
940901	AE2-079 C	0.9337	Adder	1.1
941101	AE2-104 C O1	1.1883	Adder	1.4
941281	AE2-122 C O1	9.8976	Adder	11.64
941291	AE2-123 C O1	10.1716	Adder	11.97
941301	AE2-124 C O1	9.2422	Adder	10.87
941501	AE2-147 C	5.3925	Adder	6.34
941591	AE2-156 O1	6.2747	Adder	7.38
942001	AE2-212 C	1.1974	80/20	1.1974
942131	AE2-225 C	0.7413	Adder	0.87
942161	AE2-228 C	1.2563	80/20	1.2563
942171	AE2-229 C	0.5560	Adder	0.65
942341	AE2-247 C	0.5561	Adder	0.65
942371	AE2-250 C O1	5.5636	80/20	5.5636

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942401	AE2-253 C	2.1234	Adder	2.5
942471	AE2-260 C O1	4.7386	Adder	5.57
942551	AE2-270	11.3666	Adder	13.37
943431	AF1-014 C	0.6935	80/20	0.6935
943461	AF1-017 C	0.5032	Adder	0.59
943471	AF1-018	3.8512	80/20	3.8512
943611	AF1-032 C	0.6054	Adder	0.71
943621	AF1-033 C	0.9337	Adder	1.1
943741	AF1-042 C	1.1250	Adder	1.32
944581	AF1-123 C O1	16.5029	Adder	19.42
944591	AF1-124 C O1	16.5029	Adder	19.42
944601	AF1-125 C O1	16.5029	Adder	19.42
944631	AF1-128 O1	23.8796	Adder	28.09
944641	AF1-129	60.5359	80/20	60.5359
944871	AF1-152 C	1.7975	Adder	2.11
945361	AF1-201 C O1	6.6479	Adder	7.82
946011	AF1-266	4.6405	Adder	5.46
946261	AF1-291 C	1.2548	80/20	1.2548
957491	AF2-043 C	0.7413	Adder	0.87
957601	AF2-054 C	0.9283	Adder	1.09
957631	AF2-057	1.2556	Adder	1.48
957711	AF2-065 C	5.7970	Adder	6.82
957821	AF2-076 C	1.8278	Adder	2.15
957831	AF2-077 C	0.8974	Adder	1.06
957871	AF2-081 C	3.4381	Adder	4.04
958141	AF2-108	0.9422	80/20	0.9422
958161	AF2-110 C	0.4899	Adder	0.58
958261	AF2-120 C	2.3851	Adder	2.81
959651	AF2-256 C	0.3141	80/20	0.3141
959661	AF2-257 C	0.3137	80/20	0.3137
959671	AF2-258 C	0.2993	80/20	0.2993
959681	AF2-259 C	1.4133	80/20	1.4133
961091	AF2-400 C	0.1554	Adder	0.18
961711	AG1-011	6.3805	Adder	14.16
961851	AG1-027 C	3.1398	Adder	6.97
961951	AG1-038 C	0.6590	Adder	1.46
962131	AG1-057	1.9256	80/20	1.9256
962271	AG1-075 C O2	3.0768	Adder	6.83
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.4499	Adder	1.0
962531	AG1-102 C	0.2442	Adder	0.54
962861	AG1-135 C	1.2368	Adder	2.75
962961	AG1-145 C	1.1215	80/20	1.1215
962971	AG1-146 C	0.6601	Adder	1.47
962981	AG1-147 C	1.5402	Adder	3.42
963221	AG1-171 C	0.4861	Adder	1.08
963231	AG1-172 C	0.4861	Adder	1.08
963241	AG1-173 C	0.4861	Adder	1.08
963251	AG1-174 C	0.4861	Adder	1.08
963261	AG1-175 C	0.4861	Adder	1.08
963611	AG1-210 C	0.1238	Adder	0.27
963821	AG1-235 C O2	4.4287	Adder	9.83

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964211	AG1-282 C	0.3960	Adder	0.88
964951	AG1-359 O1	4.9228	Adder	10.93
965001	AG1-364 C O2	1.3346	Adder	2.96
965181	AG1-383 C	0.5054	Adder	1.12
965231	AG1-388 C	0.3960	Adder	0.88
966491	AG1-518 O2	1.6333	Adder	3.63
966611	AG1-531 C	1.3594	Adder	3.02
966661	AG1-536 C	1.0864	Adder	2.41
966731	AG1-544 C	1.5377	Adder	3.41
966741	AG1-545 C	0.5117	Adder	1.14
WEC	WEC	0.1191	Confirmed LTF	0.1191
LGEE	LGEE	0.2494	Confirmed LTF	0.2494
CPL	CPL	2.2154	Confirmed LTF	2.2154
CBM-W2	CBM-W2	6.9440	Confirmed LTF	6.9440
NY	NY	0.4606	Confirmed LTF	0.4606
TVA	TVA	1.4112	Confirmed LTF	1.4112
SIGE	SIGE	0.1432	Confirmed LTF	0.1432
CBM-S2	CBM-S2	25.2439	Confirmed LTF	25.2439
CBM-S1	CBM-S1	0.3409	Confirmed LTF	0.3409
MEC	MEC	0.8183	Confirmed LTF	0.8183
LAGN	LAGN	1.7552	Confirmed LTF	1.7552
AA2-074	AA2-074	1.4616	LTF	1.4616
CBM-W1	CBM-W1	4.7107	Confirmed LTF	4.7107

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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
174372858	314260	6VARINA	DVP	314225	6CHARCTY	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	109.14	110.58	DC	17.27

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
SIG	SIG	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
173787850	314282	6CARSON	DVP	314285	6CHRL249	DVP	1	DVP_P4-2: 562T563	breaker	684.0	180.06	184.51	DC	30.15

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
174165453	314282	6CARSON	DVP	314331	6POE	DVP	1	DVP_P4-2: 24972-4	breaker	830.0	111.02	120.83	DC	81.23

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

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

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173787851	314285	6CHRL249	DVP	314316	6LOCKS	DVP	1	DVP_P4-2: 562T563	breaker	684.0	176.94	181.38	DC	30.15

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
174372856	314287	6CHESTFB	DVP	314260	6VARINA	DVP	1	DVP_P4-2: 562T563	breaker	1204.0	109.44	110.87	DC	17.27

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
168630822	314287	6CHESTFB	DVP	314276	6BASIN	DVP	1	DVP_P1-2: LN 217	single	663.64	147.04	147.05	DC	12.15

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	3.2797	80/20	3.2797
314314	3LOCKS	0.2313	80/20	0.2313
314435	6SAPONY	0.2923	80/20	0.2923
314572	3EMPORIA	0.2183	80/20	0.2183
314589	3MURPHYS	0.0339	80/20	0.0339
314704	3LAWRENC	0.1309	80/20	0.1309
315065	1CHESTF6 (Deactivation : 31/05/2023)	223.4543	80/20	223.4543
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0165	80/20	0.0165
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0165	80/20	0.0165
315076	1HOPPOLC	1.3793	80/20	1.3793
315077	1HOPHCF1	2.1559	80/20	2.1559
315078	1HOPHCF2	2.1559	80/20	2.1559
315079	1HOPHCF3	2.1559	80/20	2.1559
315080	1HOPHCF4	3.2729	80/20	3.2729
315115	1S HAMPT1	0.5744	80/20	0.5744
315116	1SURREY 1	11.5889	80/20	11.5889
315117	1GRAVELC	0.4061	80/20	0.4061
315119	1GRAVEL3	1.1773	80/20	1.1773
315120	1GRAVEL4	1.1924	80/20	1.1924
315121	1GRAVEL5	1.1773	80/20	1.1773
315122	1GRAVEL6	1.1910	80/20	1.1910
315126	1ROARAP2	0.5573	80/20	0.5573
315128	1ROARAP4	0.5318	80/20	0.5318
315136	1ROSEMG1	0.9193	80/20	0.9193
315137	1ROSEMS1	0.5701	80/20	0.5701
315138	1ROSEMG2	0.4309	80/20	0.4309
315139	1GASTONA	1.3748	80/20	1.3748
315141	1GASTONB	1.3748	80/20	1.3748
315606	3AA2-053SOLA	0.5953	80/20	0.5953
315607	3AA1-063SOLA	0.5574	80/20	0.5574
315608	3AA2-088SOLA	0.4090	80/20	0.4090
316033	AB2-134 C	1.3803	80/20	1.3803
316083	AB2-161 C	2.8859	80/20	2.8859
316087	AB2-174 C	0.5528	80/20	0.5528
316096	AB2-100 C1	0.5535	80/20	0.5535
316098	AB2-100 C2	0.5535	80/20	0.5535
316103	AB2-015 C	3.4330	80/20	3.4330
316108	AB2-160 C	4.4560	80/20	4.4560
316132	AB2-190 C	14.6339	80/20	14.6339

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
316140	AB2-099 C (Suspended)	0.2224	80/20	0.2224
316258	AE1-162 C	0.1407	80/20	0.1407
923991	AB2-040 C O1	3.5719	80/20	3.5719
926070	AC1-086 C	9.7995	80/20	9.7995
927225	AC1-216 C	1.0536	80/20	1.0536
932581	AC2-078 C O1	3.5233	80/20	3.5233
932591	AC2-079 C O1	3.6709	80/20	3.6709
934014	AD1-025 C	11.4783	80/20	11.4783
934331	AD1-057 C O1	3.9698	80/20	3.9698
934575	AD1-082 C	6.5768	80/20	6.5768
935164	AD1-151 C	11.7594	80/20	11.7594
936041	AD2-007 C	0.5483	80/20	0.5483
936051	AD2-008 C	1.9983	80/20	1.9983
936661	AD2-085 C	1.8386	80/20	1.8386
936761	AD2-097 C	-2.2386	Adder	-2.63
938634	AE1-085 C	7.8390	80/20	7.8390
938771	AE1-103 C	1.4465	80/20	1.4465
939195	AE1-149 C	10.0836	80/20	10.0836
940061	AE2-000BC O1	8.8470	80/20	8.8470
940431	AE2-027 C O1	5.6527	80/20	5.6527
940481	AE2-033 C	11.6020	80/20	11.6020
940541	AE2-040	2.1077	80/20	2.1077
940651	AE2-052	3.3612	80/20	3.3612
940891	AE2-078 C	1.0571	80/20	1.0571
940901	AE2-079 C	1.0571	80/20	1.0571
941101	AE2-104 C O1	1.3136	80/20	1.3136
942001	AE2-212 C	3.2214	80/20	3.2214
942161	AE2-228 C	3.7655	80/20	3.7655
942341	AE2-247 C	0.8000	80/20	0.8000
942371	AE2-250 C O1	7.9153	80/20	7.9153
942471	AE2-260 C O1	8.9242	80/20	8.9242
942551	AE2-270	18.8715	80/20	18.8715
943171	AE2-346 C	0.5337	80/20	0.5337
943461	AF1-017 C	0.7238	80/20	0.7238
943621	AF1-033 C	1.0571	80/20	1.0571
944641	AF1-129	187.5026	80/20	187.5026
946011	AF1-266	9.7118	80/20	9.7118
946261	AF1-291 C	3.7985	80/20	3.7985
946281	AF1-292 C	0.7990	80/20	0.7990
957521	AF2-046 C	6.5758	80/20	6.5758
957711	AF2-065 C	9.6245	80/20	9.6245
958141	AF2-108	2.1709	80/20	2.1709
958161	AF2-110 C	0.5416	80/20	0.5416
959651	AF2-256 C	0.9414	80/20	0.9414
959661	AF2-257 C	0.9496	80/20	0.9496
959671	AF2-258 C	0.8053	80/20	0.8053
959681	AF2-259 C	3.2564	80/20	3.2564
960081	AF2-299 C	1.3466	80/20	1.3466
961091	AF2-400 C	0.1854	80/20	0.1854
961681	AG1-008 C	6.5890	80/20	6.5890
961711	AG1-011	19.4960	80/20	19.4960
961851	AG1-027 C	6.6857	80/20	6.6857

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
961931	AG1-036 C	0.5236	80/20	0.5236
961941	AG1-037 C	0.1906	80/20	0.1906
962271	AG1-075 C O2	12.1496	80/20	12.1496
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.9610	80/20	0.9610
962331	AG1-082 C	0.7625	80/20	0.7625
962341	AG1-083 C	0.7625	80/20	0.7625
962571	AG1-106 C	2.7252	80/20	2.7252
963221	AG1-171 C	1.5679	80/20	1.5679
963231	AG1-172 C	1.5679	80/20	1.5679
963241	AG1-173 C	1.5679	80/20	1.5679
963251	AG1-174 C	1.5679	80/20	1.5679
963261	AG1-175 C	1.5679	80/20	1.5679
963301	AG1-179 C	2.3986	80/20	2.3986
963311	AG1-180	1.1687	80/20	1.1687
964501	AG1-313 C O2	1.8520	80/20	1.8520
964801	AG1-343 C	2.3754	80/20	2.3754
965291	AG1-394 C	0.8179	80/20	0.8179
965601	AG1-428 C O2	2.0024	80/20	2.0024
966611	AG1-531 C	2.2680	80/20	2.2680
966621	AG1-532 C	0.7271	80/20	0.7271
966731	AG1-544 C	6.1223	80/20	6.1223
966741	AG1-545 C	2.0275	80/20	2.0275
966811	AG1-552 C	0.8848	80/20	0.8848
WEC	WEC	0.1386	Confirmed LTF	0.1386
LGEE	LGEE	0.2865	Confirmed LTF	0.2865
CPL	CPL	2.0352	Confirmed LTF	2.0352
CBM-W2	CBM-W2	7.0515	Confirmed LTF	7.0515
NY	NY	0.3451	Confirmed LTF	0.3451
TVA	TVA	1.3860	Confirmed LTF	1.3860
SIGE	SIGE	0.1258	Confirmed LTF	0.1258
CBM-S2	CBM-S2	23.2708	Confirmed LTF	23.2708
CBM-S1	CBM-S1	0.3393	Confirmed LTF	0.3393
MEC	MEC	0.8898	Confirmed LTF	0.8898
LAGN	LAGN	1.7255	Confirmed LTF	1.7255
CBM-W1	CBM-W1	5.6641	Confirmed LTF	5.6641

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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
174372695	314299	6HARROWG	DVP	314263	6TYLER1	DVP	1	DVP_P4-2: 562T563	breaker	541.0	159.93	163.85	DC	21.19

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
174165439	314301	6HARR205	DVP	314346	6TYLER	DVP	1	DVP_P4-2: 562T563	breaker	541.0	130.33	134.66	DC	23.37

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
163105230	314303	6HOPEWLL	DVP	314286	6CHESTF A	DVP	1	DVP_P2-2: BASIN B7	bus	549.0	173.96	175.06	DC	13.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314331	6POE	1.4798	Adder	1.74
315065	1CHESTF6 (Deactivation : 31/05/2023)	129.9036	50/50	129.9036
315073	1STONECA	14.4864	50/50	14.4864
315074	1HOPCGN1 (Deactivation : 25/06/2019)	0.0377	50/50	0.0377
315075	1HOPCGN2 (Deactivation : 25/06/2019)	0.0377	50/50	0.0377
315076	1HOPPOLC	3.1604	50/50	3.1604
315077	1HOPHCF1	4.9400	50/50	4.9400
315078	1HOPHCF2	4.9400	50/50	4.9400
315079	1HOPHCF3	4.9400	50/50	4.9400
315080	1HOPHCF4	7.4993	50/50	7.4993
315116	1SURRY 1	21.1471	50/50	21.1471
315120	1GRAVEL4	2.1758	50/50	2.1758
316033	AB2-134 C	2.9096	50/50	2.9096
316083	AB2-161 C	2.3056	Adder	2.71
316084	AB2-161 E	3.7617	Adder	4.43
316108	AB2-160 C	2.3597	Adder	2.78
316109	AB2-160 E	3.8501	Adder	4.53
316132	AB2-190 C	31.5448	50/50	31.5448
923852	AB2-025 E	0.4790	Adder	0.56
924814	AB2-134 E	18.1336	50/50	18.1336
925332	AB2-190 E	13.5192	50/50	13.5192
926784	AC1-164 C	-19.5994	Adder	-23.06
927225	AC1-216 C	2.2209	50/50	2.2209
927226	AC1-216 E	11.0702	50/50	11.0702
932581	AC2-078 C O1	2.8109	Adder	3.31
932582	AC2-078 E O1	4.5862	Adder	5.4
932591	AC2-079 C O1	3.0107	Adder	3.54
932592	AC2-079 E O1	4.9122	Adder	5.78
934014	AD1-025 C	24.1953	50/50	24.1953
934015	AD1-025 E	14.3322	50/50	14.3322
934575	AD1-082 C	5.2543	Adder	6.18
934576	AD1-082 E	2.9972	Adder	3.53
935164	AD1-151 C	25.3485	50/50	25.3485
935165	AD1-151 E	16.8990	50/50	16.8990
936041	AD2-007 C	1.1558	50/50	1.1558
936042	AD2-007 E	0.7962	50/50	0.7962
936051	AD2-008 C	4.2123	50/50	4.2123
936052	AD2-008 E	9.1695	50/50	9.1695
936661	AD2-085 C	1.5387	Adder	1.81

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936662	AD2-085 E	2.5106	Adder	2.95
938634	AE1-085 C	6.2471	Adder	7.35
938635	AE1-085 E	3.1235	Adder	3.67
939195	AE1-149 C	7.9948	Adder	9.41
939196	AE1-149 E	5.3298	Adder	6.27
939312	AE1-162 E	0.8375	Adder	0.99
940061	AE2-000BC O1	7.0849	Adder	8.34
940062	AE2-000BE O1	4.7233	Adder	5.56
940481	AE2-033 C	6.7139	Adder	7.9
940482	AE2-033 E	4.5263	Adder	5.33
940541	AE2-040	1.2129	Adder	1.43
940651	AE2-052	2.6649	Adder	3.14
940891	AE2-078 C	1.5746	Adder	1.85
940892	AE2-078 E	0.8112	Adder	0.95
940901	AE2-079 C	1.5746	Adder	1.85
940902	AE2-079 E	0.8112	Adder	0.95
942001	AE2-212 C	1.9147	50/50	1.9147
942002	AE2-212 E	1.2765	50/50	1.2765
942151	AE2-227 C	-1.9926	Adder	-2.34
942161	AE2-228 C	2.1998	50/50	2.1998
942162	AE2-228 E	1.4666	50/50	1.4666
942341	AE2-247 C	0.6692	Adder	0.79
942342	AE2-247 E	0.9241	Adder	1.09
942371	AE2-250 C O1	4.1916	Adder	4.93
942372	AE2-250 E O1	2.2122	Adder	2.6
942551	AE2-270	40.2000	50/50	40.2000
943461	AF1-017 C	0.6054	Adder	0.71
943462	AF1-017 E	0.9878	Adder	1.16
943621	AF1-033 C	1.5746	Adder	1.85
943622	AF1-033 E	0.8112	Adder	0.95
944641	AF1-129	109.0033	50/50	109.0033
946011	AF1-266	5.6201	Adder	6.61
946261	AF1-291 C	2.2336	50/50	2.2336
946262	AF1-291 E	1.4890	50/50	1.4890
957711	AF2-065 C	20.5020	50/50	20.5020
957712	AF2-065 E	19.6980	50/50	19.6980
958141	AF2-108	1.1275	Adder	1.33
959641	AF2-255 C	-0.4981	Adder	-0.59
959651	AF2-256 C	0.5500	50/50	0.5500
959652	AF2-256 E	0.3666	50/50	0.3666
959661	AF2-257 C	0.5584	50/50	0.5584
959662	AF2-257 E	0.3723	50/50	0.3723
959671	AF2-258 C	0.4787	50/50	0.4787
959672	AF2-258 E	0.3191	50/50	0.3191
959681	AF2-259 C	1.6913	Adder	1.99
959682	AF2-259 E	1.1275	Adder	1.33
961711	AG1-011	41.0960	50/50	41.0960
962193	AG1-064 BAT	1.1885	Merchant Transmission	1.1885
962203	AG1-065 BAT	1.1885	Merchant Transmission	1.1885
962271	AG1-075 C O2	3.7263	Adder	8.27
962272	AG1-075 E O2	2.2710	Adder	5.04

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962321	AG1-081 C (Withdrawn : 01/15/2021)	0.7587	Adder	1.68
962322	AG1-081 E (Withdrawn : 01/15/2021)	0.5058	Adder	1.12
963221	AG1-171 C	3.3798	50/50	3.3798
963222	AG1-171 E	2.2532	50/50	2.2532
963231	AG1-172 C	3.3798	50/50	3.3798
963232	AG1-172 E	2.2532	50/50	2.2532
963241	AG1-173 C	3.3798	50/50	3.3798
963242	AG1-173 E	2.2532	50/50	2.2532
963251	AG1-174 C	3.3798	50/50	3.3798
963252	AG1-174 E	2.2532	50/50	2.2532
963261	AG1-175 C	3.3798	50/50	3.3798
963262	AG1-175 E	2.2532	50/50	2.2532
966611	AG1-531 C	1.5384	Adder	3.41
966612	AG1-531 E	1.0256	Adder	2.28
966731	AG1-544 C	2.5859	Adder	5.74
966732	AG1-544 E	1.3873	Adder	3.08
966741	AG1-545 C	0.8568	Adder	1.9
966742	AG1-545 E	0.4593	Adder	1.02
WEC	WEC	0.0983	Confirmed LTF	0.0983
LGEE	LGEE	0.2048	Confirmed LTF	0.2048
CPL	CPL	1.6639	Confirmed LTF	1.6639
CBM-W2	CBM-W2	5.3939	Confirmed LTF	5.3939
NY	NY	0.3296	Confirmed LTF	0.3296
TVA	TVA	1.0822	Confirmed LTF	1.0822
O-066	O-066	4.4283	Confirmed LTF	4.4283
SIG	SIG	0.1074	Confirmed LTF	0.1074
CBM-S2	CBM-S2	18.8755	Confirmed LTF	18.8755
CBM-S1	CBM-S1	0.2626	Confirmed LTF	0.2626
G-007	G-007	0.6951	Confirmed LTF	0.6951
MEC	MEC	0.6547	Confirmed LTF	0.6547
LAGN	LAGN	1.3457	Confirmed LTF	1.3457
CBM-W1	CBM-W1	3.9396	Confirmed LTF	3.9396

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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
166888477	314314	3LOCKS	DVP	940430	AE2-027 TAP	DVP	1	DVP_P7-1: LN 205-2003	tower	169.0	120.59	123.06	DC	9.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314314	3LOCKS	0.5884	50/50	0.5884
314331	6POE	0.8296	Adder	0.98
316083	AB2-161 C	1.4110	Adder	1.66
316084	AB2-161 E	2.3022	Adder	2.71
316108	AB2-160 C	11.3380	50/50	11.3380
316109	AB2-160 E	18.4988	50/50	18.4988
923852	AB2-025 E	0.3367	Adder	0.4
932581	AC2-078 C O1	1.7322	Adder	2.04
932582	AC2-078 E O1	2.8262	Adder	3.32
932591	AC2-079 C O1	1.6004	Adder	1.88
932592	AC2-079 E O1	2.6111	Adder	3.07
934575	AD1-082 C	3.2157	Adder	3.78
934576	AD1-082 E	1.8343	Adder	2.16
938634	AE1-085 C	3.8713	Adder	4.55
938635	AE1-085 E	1.9357	Adder	2.28
939195	AE1-149 C	5.0832	Adder	5.98
939196	AE1-149 E	3.3888	Adder	3.99
940061	AE2-000BC O1	4.2835	Adder	5.04
940062	AE2-000BE O1	2.8557	Adder	3.36
940481	AE2-033 C	4.6767	Adder	5.5
940482	AE2-033 E	3.1528	Adder	3.71
940541	AE2-040	0.8526	Adder	1.0
940651	AE2-052	1.6944	Adder	1.99
942371	AE2-250 C O1	20.1398	50/50	20.1398
942372	AE2-250 E O1	10.6294	50/50	10.6294
946011	AF1-266	3.9148	Adder	4.61
958141	AF2-108	1.3323	50/50	1.3323
959681	AF2-259 C	1.9985	50/50	1.9985
959682	AF2-259 E	1.3323	50/50	1.3323
962271	AG1-075 C O2	2.5956	Adder	5.76
962272	AG1-075 E O2	1.5819	Adder	3.51
966731	AG1-544 C	1.6025	Adder	3.56
966732	AG1-544 E	0.8597	Adder	1.91
966741	AG1-545 C	0.5295	Adder	1.18
966742	AG1-545 E	0.2839	Adder	0.63
WEC	WEC	0.0756	Confirmed LTF	0.0756
LGEE	LGEE	0.1552	Confirmed LTF	0.1552
CPL	CPL	0.8552	Confirmed LTF	0.8552
CBM-W2	CBM-W2	3.3958	Confirmed LTF	3.3958
NY	NY	0.1095	Confirmed LTF	0.1095
TVA	TVA	0.6454	Confirmed LTF	0.6454

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
O-066	O-066	1.5344	Confirmed LTF	1.5344
SIGE	SIGE	0.0519	Confirmed LTF	0.0519
CBM-S2	CBM-S2	9.9806	Confirmed LTF	9.9806
CBM-S1	CBM-S1	0.1604	Confirmed LTF	0.1604
G-007	G-007	0.2404	Confirmed LTF	0.2404
MEC	MEC	0.4576	Confirmed LTF	0.4576
LAGN	LAGN	0.8033	Confirmed LTF	0.8033
CBM-W1	CBM-W1	3.1545	Confirmed LTF	3.1545

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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
173971170	314316	6LOCKS	DVP	314301	6HARR205	DVP	1	DVP_P4-2: 562T563	breaker	541.0	153.91	158.23	DC	23.37

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

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

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

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

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

13.5.22 Index 22

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174372693	314331	6POE	DVP	314299	6HARROWG	DVP	1	DVP_P4-2: 562T563	breaker	541.0	159.97	163.89	DC	21.19

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
168630828	314435	6SAPONY	DVP	314282	6CARSON	DVP	1	DVP_P1-2: LN 2012-B	single	678.68	128.39	138.5	DC	68.59

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

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

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

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163496108	314591	6NASH	DVP	304226	6PA-RMOUNT#4	CPLE	1	DVP_P1-2: LN 2058	single	478.0	103.32	104.94	DC	7.76

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

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

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

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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
163496064	314908	8ELMONT	DVP	314911	8LADYSMITH	DVP	1	DVP_P1-2: LN 576	single	2442.12	218.73	218.76	DC	26.78

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
163496129	314914	8MDLTHAN	DVP	314918	8NO ANNA	DVP	1	DVP_P1-2: LN 574	single	2442.12	173.68	173.94	DC	25.48

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
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
173971251	936400	AD2-051 TAP	DVP	314569	6EARLEYS	DVP	1	DVP_P4-2: 23872	breaker	699.0	109.94	116.72	DC	47.36

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	9.3530	50/50	9.3530
314572	3EMPORIA	0.6243	50/50	0.6243
314704	3LAWRENC	0.3601	50/50	0.3601
315126	1ROARAP2	1.5793	50/50	1.5793
315128	1ROARAP4	1.5071	50/50	1.5071
315131	1EDGE CMA (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315132	1EDGE CMB (Deactivation : 22/04/2019)	4.8920	Adder	5.76
315136	1ROSEMG1	3.8541	50/50	3.8541
315137	1ROSEMS1	2.3899	50/50	2.3899
315138	1ROSEMG2	1.8063	50/50	1.8063
315139	1GASTONA	6.0597	50/50	6.0597
315141	1GASTONB	6.0597	50/50	6.0597
315162	1KERR 5	0.6746	50/50	0.6746
315163	1KERR 6	0.6746	50/50	0.6746
315164	1KERR 7	0.6746	50/50	0.6746
315293	1DOMTR9	-3.2315	Adder	-3.8
315294	1DOMTR10	-3.9602	Adder	-4.66
315606	3AA2-053SOLA	1.2798	50/50	1.2798
315607	3AA1-063SOLA	1.1585	50/50	1.1585
316087	AB2-174 C	1.5782	50/50	1.5782
316088	AB2-174 E	9.0505	50/50	9.0505
316096	AB2-100 C1	1.6883	50/50	1.6883
316097	AB2-100 E1	5.2708	50/50	5.2708
316098	AB2-100 C2	1.6883	50/50	1.6883
316099	AB2-100 E2	5.2708	50/50	5.2708
316129	AC1-054 C	6.4467	50/50	6.4467
917342	Z2-044 E	0.2916	Adder	0.34
918492	AA1-063AE OP	3.4622	50/50	3.4622
919692	AA2-053 E OP	3.3307	50/50	3.3307
919702	AA2-057 E OP	1.7318	Adder	2.04
920592	AA2-165 E	0.2380	Adder	0.28
922923	AB1-081 E OP	1.9462	Adder	2.29
923262	AB1-132 C OP (Suspended)	29.3303	50/50	29.3303
923263	AB1-132 E OP (Suspended)	12.5701	50/50	12.5701
923573	AB1-173 E OP	1.4585	50/50	1.4585
923991	AB2-040 C O1	10.1864	50/50	10.1864
923992	AB2-040 E O1	8.3344	50/50	8.3344
924022	AB2-043 E O1	1.2716	Adder	1.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924152	AB2-059 E OP	2.7571	Adder	3.24
924162	AB2-060 E OP	1.8959	Adder	2.23
924301	AB2-077 C O1 (Suspended)	0.8937	Adder	1.05
924302	AB2-077 E O1 (Suspended)	0.5958	Adder	0.7
924311	AB2-078 C O1 (Suspended)	0.8937	Adder	1.05
924312	AB2-078 E O1 (Suspended)	0.5958	Adder	0.7
924321	AB2-079 C O1 (Suspended)	0.8937	Adder	1.05
924322	AB2-079 E O1 (Suspended)	0.5958	Adder	0.7
925591	AC1-034 C	3.4666	Adder	4.08
925592	AC1-034 E	2.6152	Adder	3.08
925785	AC1-054 E	2.9698	50/50	2.9698
926070	AC1-086 C	43.1923	50/50	43.1923
926071	AC1-086 E	19.6583	50/50	19.6583
927145	AC1-208 C	6.0602	50/50	6.0602
927146	AC1-208 E	2.6801	50/50	2.6801
934331	AD1-057 C O1	12.8853	50/50	12.8853
934332	AD1-057 E O1	6.8735	50/50	6.8735
936265	AD2-033 C	4.8406	Adder	5.69
936266	AD2-033 E	3.2270	Adder	3.8
936361	AD2-046 C O1	4.6394	Adder	5.46
936362	AD2-046 E O1	2.1334	Adder	2.51
936401	AD2-051 C O1	43.0670	50/50	43.0670
936402	AD2-051 E O1	18.4925	50/50	18.4925
936485	AD2-063 C	6.2072	Adder	7.3
936486	AD2-063 E	4.1381	Adder	4.87
939181	AE1-148 C	4.5510	Adder	5.35
939182	AE1-148 E	3.0340	Adder	3.57
940481	AE2-033 C	28.0982	50/50	28.0982
940482	AE2-033 E	18.9426	50/50	18.9426
940571	AE2-044 C	2.2705	Adder	2.67
940572	AE2-044 E	0.9731	Adder	1.14
940661	AE2-053 O1	1.6856	Adder	1.98
942451	AE2-258	1.0609	Adder	1.25
942471	AE2-260 C O1	26.1100	50/50	26.1100
942472	AE2-260 E O1	37.0340	50/50	37.0340
943911	AF1-059	16.2609	50/50	16.2609
944141	AF1-082	1.4596	Adder	1.72
946011	AF1-266	23.5204	50/50	23.5204
946281	AF1-292 C	2.2873	50/50	2.2873
946282	AF1-292 E	1.5420	50/50	1.5420
960081	AF2-299 C	3.8550	50/50	3.8550
960082	AF2-299 E	2.5700	50/50	2.5700
962271	AG1-075 C O2	29.4242	50/50	29.4242
962272	AG1-075 E O2	17.9323	50/50	17.9323
962491	AG1-098 C O2	2.8625	Adder	6.35
962492	AG1-098 E O2	1.9083	Adder	4.24
962571	AG1-106 C	12.0114	50/50	12.0114

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962572	AG1-106 E	5.4471	50/50	5.4471
963301	AG1-179 C	6.5051	50/50	6.5051
963311	AG1-180	3.1695	50/50	3.1695
964493	AG1-312 BAT	11.1153	50/50	11.1153
964501	AG1-313 C O2	1.0258	Adder	2.28
964502	AG1-313 E O2	0.6839	Adder	1.52
964931	AG1-357 C O2	4.3994	Adder	9.77
964932	AG1-357 E O2	2.9329	Adder	6.51
965451	AG1-413 C O2	6.5669	50/50	6.5669
965452	AG1-413 E O2	4.3779	50/50	4.3779
965591	AG1-427 C	2.6560	Adder	5.9
965592	AG1-427 E	1.7744	Adder	3.94
965601	AG1-428 C O2	5.4306	50/50	5.4306
965602	AG1-428 E O2	3.6140	50/50	3.6140
965721	AG1-440 C	5.2898	50/50	5.2898
965722	AG1-440 E	3.5265	50/50	3.5265
965731	AG1-441 C	5.2898	50/50	5.2898
965732	AG1-441 E	3.5265	50/50	3.5265
965742	AG1-442 BAT	4.6785	50/50	4.6785
965752	AG1-443 BAT	4.6785	50/50	4.6785
965771	AG1-445	3.0563	50/50	3.0563
965781	AG1-446	3.0563	50/50	3.0563
966621	AG1-532 C	2.0817	50/50	2.0817
966622	AG1-532 E	1.3878	50/50	1.3878
966751	AG1-546 C	14.6996	50/50	14.6996
966752	AG1-546 E	7.8874	50/50	7.8874
966811	AG1-552 C	2.5075	50/50	2.5075
966812	AG1-552 E	1.0747	50/50	1.0747
966932	AG1-431A BAT	9.7064	Merchant Transmission	9.7064
WEC	WEC	0.1213	Confirmed LTF	0.1213
LGEE	LGEE	0.2507	Confirmed LTF	0.2507
CPL	CPL	1.2510	Confirmed LTF	1.2510
CBM-W2	CBM-W2	5.1789	Confirmed LTF	5.1789
NY	NY	0.1648	Confirmed LTF	0.1648
TVA	TVA	0.9716	Confirmed LTF	0.9716
O-066	O-066	2.3353	Confirmed LTF	2.3353
SIGE	SIGE	0.0810	Confirmed LTF	0.0810
CBM-S2	CBM-S2	14.5220	Confirmed LTF	14.5220
CBM-S1	CBM-S1	0.2432	Confirmed LTF	0.2432
G-007	G-007	0.3675	Confirmed LTF	0.3675
MEC	MEC	0.7182	Confirmed LTF	0.7182
LAGN	LAGN	1.2040	Confirmed LTF	1.2040
CBM-W1	CBM-W1	5.0893	Confirmed LTF	5.0893

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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
166888446	940430	AE2-027 TAP	DVP	314298	3HARROWG	DVP	1	DVP_P7-1: LN 205-2003	tower	169.0	160.55	163.02	DC	9.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314314	3LOCKS	0.5884	50/50	0.5884
314331	6POE	0.8296	Adder	0.98
316083	AB2-161 C	1.4110	Adder	1.66
316084	AB2-161 E	2.3022	Adder	2.71
316108	AB2-160 C	11.3380	50/50	11.3380
316109	AB2-160 E	18.4988	50/50	18.4988
923852	AB2-025 E	0.3367	Adder	0.4
932581	AC2-078 C O1	1.7322	Adder	2.04
932582	AC2-078 E O1	2.8262	Adder	3.32
932591	AC2-079 C O1	1.6004	Adder	1.88
932592	AC2-079 E O1	2.6111	Adder	3.07
934575	AD1-082 C	3.2157	Adder	3.78
934576	AD1-082 E	1.8343	Adder	2.16
938634	AE1-085 C	3.8713	Adder	4.55
938635	AE1-085 E	1.9357	Adder	2.28
939195	AE1-149 C	5.0832	Adder	5.98
939196	AE1-149 E	3.3888	Adder	3.99
940061	AE2-000BC O1	4.2835	Adder	5.04
940062	AE2-000BE O1	2.8557	Adder	3.36
940431	AE2-027 C O1	40.5173	50/50	40.5173
940432	AE2-027 E O1	27.0115	50/50	27.0115
940481	AE2-033 C	4.6767	Adder	5.5
940482	AE2-033 E	3.1528	Adder	3.71
940541	AE2-040	0.8526	Adder	1.0
940651	AE2-052	1.6944	Adder	1.99
942371	AE2-250 C O1	20.1398	50/50	20.1398
942372	AE2-250 E O1	10.6294	50/50	10.6294
946011	AF1-266	3.9148	Adder	4.61
958141	AF2-108	1.3323	50/50	1.3323
959681	AF2-259 C	1.9985	50/50	1.9985
959682	AF2-259 E	1.3323	50/50	1.3323
962271	AG1-075 C O2	2.5956	Adder	5.76
962272	AG1-075 E O2	1.5819	Adder	3.51
966731	AG1-544 C	1.6025	Adder	3.56
966732	AG1-544 E	0.8597	Adder	1.91
966741	AG1-545 C	0.5295	Adder	1.18
966742	AG1-545 E	0.2839	Adder	0.63
WEC	WEC	0.0756	Confirmed LTF	0.0756
LGEE	LGEE	0.1552	Confirmed LTF	0.1552
CPL	CPL	0.8552	Confirmed LTF	0.8552
CBM-W2	CBM-W2	3.3958	Confirmed LTF	3.3958

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	0.1095	Confirmed LTF	0.1095
TVA	TVA	0.6454	Confirmed LTF	0.6454
O-066	O-066	1.5344	Confirmed LTF	1.5344
SIGE	SIGE	0.0519	Confirmed LTF	0.0519
CBM-S2	CBM-S2	9.9806	Confirmed LTF	9.9806
CBM-S1	CBM-S1	0.1604	Confirmed LTF	0.1604
G-007	G-007	0.2404	Confirmed LTF	0.2404
MEC	MEC	0.4576	Confirmed LTF	0.4576
LAGN	LAGN	0.8033	Confirmed LTF	0.8033
CBM-W1	CBM-W1	3.1545	Confirmed LTF	3.1545

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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
163105540	940480	AE2-033 TAP	DVP	314435	6SAPONY	DVP	1	DVP_P7-1: LN 2058-2181	tower	830.0	143.63	156.74	DC	108.49

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

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

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

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

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

13.6 Contingency Descriptions - Secondary POI

Contingency Name	Contingency Definition
DVP_P7-1: LN 259-2065	CONTINGENCY 'DVP_P7-1: LN 259-2065' /* . OPEN BRANCH FROM BUS 314276 TO BUS 314287 CKT 1 /* 6BASIN 230.00 - 6CHESTF B 230.00 OPEN BRANCH FROM BUS 314276 TO BUS 314339 CKT 1 /* 6BASIN 230.00 - 6SPRUNCE 230.00 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: 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_P2-2: BASIN B7	CONTINGENCY 'DVP_P2-2: BASIN B7' /* BASIN 230 KV OPEN BRANCH FROM BUS 314276 TO BUS 314287 CKT 1 /* 6BASIN 230.00 - 6CHESTF B 230.00 OPEN BRANCH FROM BUS 314276 TO BUS 314339 CKT 1 /* 6BASIN 230.00 - 6SPRUNCE 230.00 OPEN BRANCH FROM BUS 314274 TO BUS 314276 CKT 2 /* 3BASIN 115.00 - 6BASIN 230.00 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 2181	CONTINGENCY 'DVP_P1-2: LN 2181' OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END

Contingency Name	Contingency Definition
DVP_P7-1: LN 2058-2181	CONTINGENCY 'DVP_P7-1: LN 2058-2181' /* . OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 OPEN BUS 304226 /* ISLAND: 6PA-RMOUNT#4115.00 OPEN BRANCH FROM BUS 304226 TO BUS 314591 CKT 1 /* 6PA-RMOUNT#4230.00 - 6NASH 230.00 OPEN BRANCH FROM BUS 313845 TO BUS 314591 CKT 1 /* 6HATHAWAY 230.00 - 6NASH 230.00 OPEN BUS 314591 /* ISLAND: 6NASH 230.00 END
DVP_P1-2: LN 238-A	CONTINGENCY 'DVP_P1-2: LN 238-A' OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2-033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 END
DVP_P7-1: LN 205-2003	CONTINGENCY 'DVP_P7-1: LN 205-2003' /* . OPEN BRANCH FROM BUS 314287 TO BUS 314346 CKT 1 /* 6CHESTF B 230.00 - 6TYLER 230.00 OPEN BRANCH FROM BUS 314301 TO BUS 314316 CKT 1 /* 6HARR205 230.00 - 6LOCKS 230.00 OPEN BRANCH FROM BUS 314301 TO BUS 314346 CKT 1 /* 6HARR205 230.00 - 6TYLER 230.00 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 1 /* 3LOCKS 115.00 - 6LOCKS 230.00 OPEN BUS 314301 /* ISLAND: 6HARR205 230.00 OPEN BUS 314346 /* ISLAND: 6TYLER 230.00 OPEN BRANCH FROM BUS 314263 TO BUS 314287 CKT 1 /* 6TYLER1 230.00 - 6CHESTF B 230.00 OPEN BRANCH FROM BUS 314263 TO BUS 314299 CKT 1 /* 6TYLER1 230.00 - 6HARROWG 230.00 OPEN BRANCH FROM BUS 314299 TO BUS 314331 CKT 1 /* 6HARROWG 230.00 - 6POE 230.00 OPEN BRANCH FROM BUS 314329 TO BUS 314331 CKT 2 /* 3POE 115.00 - 6POE 230.00 OPEN BUS 314263 /* ISLAND: 6TYLER1 230.00 OPEN BUS 314299 /* ISLAND: 6HARROWG 230.00 END
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

Contingency Name	Contingency Definition
DVP_P1-2: LN 259	CONTINGENCY 'DVP_P1-2: LN 259' / 1579 OPEN BRANCH FROM BUS 314276 TO BUS 314287 CKT 1 / 314276 6BASIN 230 314287 6CHESTF B 230 1 END
DVP_P1-2: LN 217	CONTINGENCY 'DVP_P1-2: LN 217' / 1114 OPEN BRANCH FROM BUS 314225 TO BUS 314227 CKT 1 / 314225 6CHARCTY 230 314227 6LAKESIDE 230 1 OPEN BRANCH FROM BUS 314225 TO BUS 314260 CKT 1 / 314225 6CHARCTY 230 314260 6VARINA 230 1 OPEN BRANCH FROM BUS 314260 TO BUS 314287 CKT 1 / 314260 6VARINA 230 314287 6CHESTF B 230 1 END
DVP_P4-2: 23872	CONTINGENCY 'DVP_P4-2: 23872' /* CARSON 230 KV OPEN BRANCH FROM BUS 314282 TO BUS 314435 CKT 1 /* 6CARSON 230.00 - 6SAPONY 230.00 OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 /* 6SAPONY 230.00 - AE2- 033 TAP 230.00 OPEN BUS 314435 /* ISLAND: 6SAPONY 230.00 OPEN BUS 923852 /* ISLAND: AB2-025 E 230.00 OPEN BRANCH FROM BUS 314282 TO BUS 314902 CKT 1 /* 6CARSON 230.00 - 8CARSON 500.00 OPEN BUS 314455 /* 6CARSO_1 230.00 KV END
DVP_P1-2: LN 574	CONTINGENCY 'DVP_P1-2: LN 574' OPEN BRANCH FROM BUS 314908 TO BUS 314911 CKT 1 /* 8ELMONT 500.00 - 8LADYSMITH 500.00 END
DVP_P1-2: LN 576	CONTINGENCY 'DVP_P1-2: LN 576' OPEN BRANCH FROM BUS 314914 TO BUS 314918 CKT 1 /* 8MDLTHAN 500.00 - 8NO ANNA 500.00 END
Base Case	
DVP_P1-2: LN 2002	CONTINGENCY 'DVP_P1-2: LN 2002' / 544 OPEN BRANCH FROM BUS 314282 TO BUS 314331 CKT 1 / 314282 6CARSON 230 314331 6POE 230 1 OPEN BRANCH FROM BUS 314329 TO BUS 314331 CKT 1 / 314329 3POE 115 314331 6POE 230 1 END

Contingency Name	Contingency Definition
DVP_P4-2: H8T217	CONTINGENCY 'DVP_P4-2: H8T217' / 2279 OPEN BRANCH FROM BUS 314225 TO BUS 314227 CKT 1 / 314225 6CHARCTY 230 314227 6LAKESIDE 230 1 OPEN BRANCH FROM BUS 314225 TO BUS 314260 CKT 1 / 314225 6CHARCTY 230 314260 6VARINA 230 1 OPEN BRANCH FROM BUS 314260 TO BUS 314287 CKT 1 / 314260 6VARINA 230 314287 6CHESTF B 230 1 OPEN BRANCH FROM BUS 314226 TO BUS 314227 CKT 1 / 314226 3LAKESIDE 115 314227 6LAKESIDE 230 1 END
DVP_P7-1: LN 208-259	CONTINGENCY 'DVP_P7-1: LN 208-259' /* . OPEN BRANCH FROM BUS 314286 TO BUS 314309 CKT 1 /* 6CHESTF A 230.00 - 6IRON208 230.00 OPEN BRANCH FROM BUS 314309 TO BUS 314338 CKT 1 /* 6IRON208 230.00 - 6SOUWEST 230.00 OPEN BUS 314309 /* ISLAND: 6IRON208 230.00 OPEN BRANCH FROM BUS 314276 TO BUS 314287 CKT 1 /* 6BASIN 230.00 - 6CHESTF B 230.00 END
314435 6SAPONY 230 940480 AE2-033 TAP 230 1	CONTINGENCY '314435 6SAPONY 230 940480 AE2-033 TAP 230 1' OPEN BRANCH FROM BUS 314435 TO BUS 940480 CKT 1 END
DVP_P4-2: 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 2058	CONTINGENCY 'DVP_P1-2: LN 2058' OPEN BRANCH FROM BUS 304222 TO BUS 313845 CKT 1 /* 6ROCKYMT230T230.00 - 6HATHAWAY 230.00 OPEN BRANCH FROM BUS 313844 TO BUS 313845 CKT 2 /* 3HATHAWAY 115.00 - 6HATHAWAY 230.00 END
DVP_P1-2: LN 2012-B	CONTINGENCY 'DVP_P1-2: LN 2012-B' / 1410 OPEN BRANCH FROM BUS 314569 TO BUS 936400 CKT 1 / 314569 6EARLEYS 230 936400 AD2-051 TAP 230 1 END

Contingency Name	Contingency Definition
DVP_P4-2: 24972-4	CONTINGENCY 'DVP_P4-2: 24972-4' / 1024 OPEN BRANCH FROM BUS 314282 TO BUS 314285 CKT 1 / 314282 6CARSON 230 314285 6CHRL249 230 1 OPEN BRANCH FROM BUS 314285 TO BUS 314316 CKT 1 / 314285 6CHRL249 230 314316 6LOCKS 230 1 OPEN BRANCH FROM BUS 314314 TO BUS 314316 CKT 2 / 314314 3LOCKS 115 314316 6LOCKS 230 2 OPEN BRANCH FROM BUS 314902 TO BUS 314282 CKT 1 / 314902 8CARSON 500 314282 6CARSON 230 1 OPEN BRANCH FROM BUS 314282 TO BUS 314455 CKT 1 / 314282 6CARSON 230 314455 6CARSO_1 230 1 END

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