



**Generation Interconnection
Feasibility Study Report
for
Queue Project AG1-176
BRIERY-CLOVER 230 KV
89.7 MW Capacity / 149.5 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 Prince Edward County, Virginia. The installed facilities will have a total capability of 149.5 MW with 89.7 MW of this output being recognized by PJM as Capacity. The proposed in-service date for this project is November 01, 2023. This study does not imply a TO commitment to this in-service date.

Queue Number	AG1-176
Project Name	BRIERY-CLOVER 230 KV
State	Virginia
County	Prince Edward
Transmission Owner	Dominion
MFO	149.5
MWE	149.5
MWC	89.7
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

AG1-176 "Briery-Clover 230 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 230 kV three breaker ring bus located on the line between the Briery substation and Clover 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 AG1-176 is a direct connect to the Briery DP 230 kV substation.

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

5 Cost Summary

The AG1-176 project will be responsible for the following costs:

Description	Total Cost
Total Physical Interconnection Costs	\$ 10,400,000
Total System Network Upgrade Costs	\$ 369,779,000 ¹
Total Costs	\$ 380,179,000

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

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

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

6 Transmission Owner Scope of Work

The required Attachment Facilities, Direct Connection and Non-Direct Connection work for the interconnection of AG1-176 to the Dominion Transmission System is detailed in the following sections. The associated one-line showing the generation project attachment facilities and primary direct and non-direct connection is shown in Attachment 1.

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

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

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

AG1-176 "Briery-Clover 230 kV" will interconnect with the Dominion transmission system. The primary POI will be a newly constructed 230 kV three breaker ring bus located on the line between the Briery substation and Clover substation.

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

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

7 Schedule

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

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

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

8 Transmission Owner Analysis

Dominion assessed the impact of the proposed AG1-176 for compliance with NERC Reliability Criteria on the Dominion Transmission System. The system was assessed using the summer 2024 AG1 case provided to Dominion by PJM.

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

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

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

8.1 Power Flow Analysis

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

9 Interconnection Customer Requirements

9.1 System Protection

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

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

9.2 Compliance Issues and Interconnection Customer Requirements

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

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

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

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

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

9.3 Power Factor Requirements

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

10 Revenue Metering and SCADA Requirements

10.1 PJM Requirements

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

10.2 Meteorological Data Reporting Requirements

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

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

10.3 Interconnected Transmission Owner Requirements

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

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

11 Summer Peak - Load Flow Analysis - Primary POI

The Queue Project AG1-176 was evaluated as a 149.5 MW (Capacity 89.7 MW) injection tapping the Briery to Clover 230 kV line in the Dominion area. Project AG1-176 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-176 was studied with a commercial probability of 53.0 %. Potential network impacts were as follows:

11.1 Generation Deliverability

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPACT
168384971	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY 2	115.0	DVP	1	DVP_P1-2: LN 298	single	269.779998779	99.46	101.57	DC	5.7
169145699	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	single	571.520019531	99.86	104.47	DC	26.3
169145678	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	single	559.299987793	99.31	104.01	DC	26.31

11.2 Multiple Facility Contingency

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPACT
163174093	314747	6BREMO	230.0	DVP	313868	6CARTER V	230.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	97.82	100.3	DC	24.27
163173695	934620	AD1-088 TAP	230.0	DVP	962490	AG1-098 TAP	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	84.52	103.19	DC	130.64

11.3 Contribution to Previously Identified Overloads

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC/D C	MW IMPACT
168385013	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	133.62	136.47	DC	18.85
168385014	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	129.82	132.66	DC	18.85
168385030	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	130.3	137.99	DC	43.94
168385031	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	130.33	138.02	DC	43.94
168385035	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	134.83	137.96	DC	20.72
168385036	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	130.66	133.79	DC	20.72

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADIN G %	POST PROJECT LOADIN G %	AC DC	MW IMPACT
168385178	313868	6CARTERV	230.0	DVP	933500	AC2-165 TAP	230.0	DVP	1	DVP_P1-2: LN 2028-B	single	800.880004883	100.61	102.43	DC	14.56
168385179	313868	6CARTERV	230.0	DVP	933500	AC2-165 TAP	230.0	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.880004883	100.6	102.42	DC	14.56
168385025	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	130.35	138.04	DC	43.94
168385026	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	130.37	138.06	DC	43.94
163174061	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	105.32	107.79	DC	24.25
168687402	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P1-2: LN 2028-B	single	800.880004883	106.4	108.22	DC	14.55
168687403	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.880004883	106.39	108.21	DC	14.55
163174056	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	105.43	107.9	DC	24.25
168687397	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.880004883	106.53	108.34	DC	14.55
168687398	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P1-2: LN 2028-B	single	800.880004883	106.53	108.34	DC	14.55
169145696	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	178.16	184.78	DC	37.85
169145697	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	178.17	184.8	DC	37.85
169145770	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	120.92	126.48	DC	45.34
169145771	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-C	single	814.979980469	120.95	126.52	DC	45.34
169145766	314690	6BLACK WALNU	230.0	DVP	962560	AG1-105 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	129.52	135.09	DC	45.34
169145767	314690	6BLACK WALNU	230.0	DVP	962560	AG1-105 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	814.979980469	129.56	135.13	DC	45.34
169145675	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	single	559.299987793	178.77	185.54	DC	37.87
169145676	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B	single	559.299987793	178.8	185.57	DC	37.87
169145702	314697	6SEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	single	674.91998291	161.16	166.5	DC	36.06

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
169145703	314697	6SEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	674.91998291	161.19	166.53	DC	36.06
168385156	314747	6BREMO	230.0	DVP	313868	6CARTERV	230.0	DVP	1	DVP_P1-2: LN 2028-B	single	800.880004883	102.02	103.84	DC	14.56
168385157	314747	6BREMO	230.0	DVP	313868	6CARTERV	230.0	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.880004883	102.01	103.83	DC	14.56
169364112	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009766	136.99	140.12	DC	20.72
169364113	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	132.82	135.95	DC	20.72
169364129	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	single	269.779998779	126.94	130.42	DC	9.38
169364102	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009766	137.5	140.35	DC	18.85
169364103	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	133.71	136.56	DC	18.85
163592754	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL	1	DVP_P1-2: LN 556-D	single	718.0	163.46	168.48	DC	36.06
163592755	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL	1	DVP_P1-2: LN 556-C	single	718.0	163.49	168.51	DC	36.06
163174071	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	DVP_P7-1: LN 5-2028-C	tower	980.0	103.63	106.1	DC	24.27
169608158	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	DVP_P1-2: LN 2028-B	single	800.880004883	105.44	107.26	DC	14.56
169608159	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.880004883	105.43	107.25	DC	14.56
169907390	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.760009766	141.07	143.92	DC	18.85
169907391	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	137.26	140.11	DC	18.85
163173640	962490	AG1-098 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	100.89	119.57	DC	130.64
169145746	962560	AG1-105 TAP	230.0	DVP	314697	6SEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 556-D	single	814.979980469	134.66	140.22	DC	45.34

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 PROJECTIONS LOADIN G %	POST PROJECTIONS LOADIN G %	AC/DC	MW IMPACT
169145747	962560	AG1-105 TAP	230.0	DVP	314697	6SEEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 556-C	single	814.979980469	134.7	140.26	DC	45.34
169907431	963270	AG1-176 TAP	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	131.42	139.11	DC	43.94
169907432	963270	AG1-176 TAP	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	131.45	139.14	DC	43.94
168687269	964840	AG1-347 TAP	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 556-C	single	571.520019531	131.42	139.11	DC	43.94
168687270	964840	AG1-347 TAP	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 556-B	single	571.520019531	131.45	139.14	DC	43.94
169907400	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	141.04	143.89	DC	18.85
169907401	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	DVP_P1-2: LN 2027	single	661.760009766	137.25	140.1	DC	18.85

11.4 Potential Congestion due to Local Energy Deliverability

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

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

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS LOADIN G %	POST PROJECTIONS LOADIN G %	AC/DC	MW IMPACT
168385011	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	159.46	164.21	DC	31.42
168385015	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	Base Case	operation	661.760009766	106.67	110.35	DC	24.34
168385259	313708	3FORK UNION	115.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P1-2: LN 2193	operation	269.779998779	105.95	107.54	DC	9.45
168385028	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	162.7	175.52	DC	73.24

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 %	ACDC	MW IMPACT
168385033	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	157.8	163.01	DC	34.53
168385037	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	Base Case	operation	661.760009766	107.44	111.49	DC	26.76
168385176	313868	6CARTERV	230.0	DVP	933500	AC2-165 TAP	230.0	DVP	1	DVP_P1-2: LN 2028-B	operation	800.880004883	117.2	120.23	DC	24.27
168385023	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	162.76	175.57	DC	73.24
168687400	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P1-2: LN 2028-B	operation	800.880004883	127.78	130.81	DC	24.25
168687395	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	3147656MTEAGL E 230 966790 AG1-550 TAP 230 1	operation	800.880004883	127.91	130.94	DC	24.25
168687396	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P1-2: LN 2028-B	operation	800.880004883	127.91	130.94	DC	24.25
169145694	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	238.5	249.53	DC	63.09
169145698	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	operation	571.520019531	140.88	148.54	DC	43.84
169145768	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	814.979980469	150.23	159.51	DC	75.57
169145764	314690	6BLACK WALNU	230.0	DVP	962560	AG1-105 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	814.979980469	162.34	171.61	DC	75.57
169145673	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	559.299987793	241.37	252.64	DC	63.11
169145677	314692	6FARMVIL	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	operation	559.299987793	139.22	147.05	DC	43.86
169145700	314697	6SEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	674.91998291	215.57	224.44	DC	60.1
169145704	314697	6SEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	Base Case	operation	509.480010986	104.42	109.5	DC	25.85
169145895	314714	3PERTH	115.0	DVP	942750	AE2-291 TAP	115.0	DVP	1	DVP_P1-2: LN 556-D	operation	285.760009766	101.96	103.51	DC	9.85
168385154	314747	6BREMO	230.0	DVP	313868	6CARTERV	230.0	DVP	1	DVP_P1-2: LN 2028-B	operation	800.880004883	118.61	121.65	DC	24.27
169364110	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	159.96	165.17	DC	34.53
169364114	314747	6BREMO	230.0	DVP	313867	6BREMODIST	230.0	DVP	1	Base Case	operation	661.760009766	109.6	113.65	DC	26.76
169364128	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	operation	269.779998779	156.69	162.49	DC	15.63

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 T LOADING %	POST PROJECTIONS T LOADING %	ACDC	MW IMPACT
169364100	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	157.84	162.58	DC	31.42
169364104	314765	6MTEAGLE	230.0	DVP	314749	6CHARLV	230.0	DVP	1	Base Case	operation	661.760009766	108.48	112.16	DC	24.33
168687292	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P1-2: LN 563	operation	903.903991699	173.67	174.24	DC	11.27
163593015	314935	8HERITAGE	500.0	DVP	314940	8ROGERS RD	500.0	DVP	1	DVP_P1-2: LN 511-A	operation	3256.15991211	104.72	106.06	DC	46.02
163592923	314936	8RAWLINGS	500.0	DVP	942930	AE2-313 TAP	500.0	DVP	1	DVP_P1-2: LN 585-A	operation	4070.19995117	129.85	131.08	DC	50.06
163592991	314940	8ROGERS RD	500.0	DVP	938490	AE1-068_POI	500.0	DVP	1	DVP_P1-2: LN 511-A	operation	4070.19995117	117.25	118.33	DC	44.74
163592749	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON2 30 T	230.0	CPL E	1	DVP_P1-2: LN 556-D	operation	718.0	220.0	228.33	DC	60.1
163592759	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON2 30 T	230.0	CPL E	1	Base Case	operation	542.0	116.94	121.71	DC	25.85
169608156	933500	AC2-165 TAP	230.0	DVP	314333	6POWHAT N	230.0	DVP	1	DVP_P1-2: LN 2028-B	operation	800.880004883	125.72	128.75	DC	24.27
169608084	934620	AD1-088 TAP	230.0	DVP	962490	AG1-098 TAP	230.0	DVP	1	DVP_P1-2: LN 298	operation	571.520019531	90.11	113.29	DC	132.63
163592955	938490	AE1-068_POI	500.0	DVP	941030	AE2-094 TAP	500.0	DVP	1	DVP_P1-2: LN 511-A	operation	4070.19995117	127.47	128.46	DC	44.74
163592862	940470	AE2-031 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P1-2: LN 585-A	operation	4070.19995117	137.26	138.49	DC	50.06
163592915	941030	AE2-094 TAP	500.0	DVP	314902	8CARSON	500.0	DVP	1	DVP_P1-2: LN 511-A	operation	4070.19995117	133.88	134.87	DC	44.74
163592896	942930	AE2-313 TAP	500.0	DVP	940470	AE2-031 TAP	500.0	DVP	1	DVP_P1-2: LN 585-A	operation	4070.19995117	134.14	135.37	DC	50.06
169907388	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	168.96	173.71	DC	31.42
169907392	961060	AF2-397 TAP	230.0	DVP	966790	AG1-550 TAP	230.0	DVP	1	Base Case	operation	661.760009766	112.62	116.3	DC	24.34
169145795	962490	AG1-098 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P1-2: LN 298	operation	571.520019531	110.33	133.52	DC	132.63
169145744	962560	AG1-105 TAP	230.0	DVP	314697	6SEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 556-D	operation	814.979980469	169.5	178.77	DC	75.57
169907429	963270	AG1-176 TAP	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	163.82	176.63	DC	73.24
168687267	964840	AG1-347 TAP	230.0	DVP	314268	6BRIERY	230.0	DVP	1	DVP_P1-2: LN 556-C	operation	571.520019531	163.82	176.64	DC	73.24

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169907398	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	3143336POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	165.66	170.4	DC	31.42
169907402	966790	AG1-550 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	Base Case	operation	661.760009766	111.41	115.09	DC	24.34

11.5 System Reinforcements - Summer Peak Load Flow - Primary POI

ID	Id x	Facility	Upgrade Description	Cost
168385035, 168385036	8	6BREMODIS T 230.0 kV - 6FORK UNION 230.0 kV Ckt 1	<u>DVP</u> dom-202 (1589) : Rebuild 1.63 miles of 230 kV Line 2028 from Fork Union to Bremono Dist with 2-636 ACSR. Project Type : FAC Cost : \$2,445,000 Time Estimate : 30-36 Months	\$2,445,000
168687397, 163174056, 168687398	12	6POWHATN 230.0 kV - 6JUDES F 230.0 kV Ckt 1	<u>DVP</u> dom-303 (1690) : Rebuild 7.09 miles of 230 kV Line 2027 from Judes to Powhatan with 2-795 ACSR 150 C Project Type : FAC Cost : \$17,725,000 Time Estimate : 36-40 Months	\$17,725,000
168385156, 168385157, 163174093	4	6BREMO 230.0 kV - 6CARTERV 230.0 kV Ckt 1	<u>DVP</u> dom-364 (1751) : Rebuild 9.46 miles of 230 kV Line 2027 from Bremono to Cartersville with 2-795 ACSR 150 C. Replace breaker lead at Bremono terminal. Project Type : FAC Cost : \$23,650,000 Time Estimate : 36-40 Months	\$23,650,000
169907401, 169907400	26	AG1-550 TAP 230.0 kV - 6MTEAGLE 230.0 kV Ckt 1	<u>DVP</u> dom-421 (1808) : Rebuild 6.5 miles of 230 kV Line 2028 from AG1-550 Tap to Mt Eagle with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$16,250,000 Time Estimate : 30-36 Months	\$16,250,000

ID	Id x	Facility	Upgrade Description	Cost
169364129	17	6BREMO 230.0 kV - 3BREMO 115.0 kV Ckt 1	<u>DVP</u> b2989 (1320) : PJM Baseline Upgrade b2989. Install a second 230 -115 kV Transformer(224 MVA) approximately 1 mile north of Bremono and tie 230 kV Line #2028(Bremo Charlottesville) and 115 kV Line #91 (Bremo-Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230-115 kV transformer at Bremono substation for the interim until the new substation is complete. The baseline project has an projected in-service date of 10/31/2019. Project Type : CON Cost : \$0	\$0
168687403, 168687402, 163174061	11	6JUDES F 230.0 kV - 6MDLTHAN 230.0 kV Ckt 1	<u>DVP</u> dom-302 (1689) : Rebuild 7.09 miles of 230 kV Line 2027 from Judesto Midlothian with 2-795 ACSR 150 C. Project Type : FAC Cost : \$17,725,000 Time Estimate : 36-40 Months	\$17,725,000
168384971	1	3BUTCHER CRK 115.0 kV - 3CHASCTY2 115.0 kV Ckt 1	<u>DVP</u> dom-279 (1666) : Rebuild 1.17 miles of 115 kV line 1045 from Butcher Creek to Chase City with 2-636 ACSR 150 C. Replace Breaker Switch at Chase City terminal Project Type : FAC Cost : \$2,005,000 Time Estimate : 30-36 Months	\$2,005,000
163173695	5	AD1-088 TAP 230.0 kV - AG1- 098 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-391 (1778) : Rebuild 8.936 miles of 230 kV line 235 from AD1-088 Tap to AG1-098 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$22,340,000 Time Estimate : 36-40 Months	\$22,340,000

ID	Id x	Facility	Upgrade Description	Cost
168385026, 168385025	10	6BRIERY 230.0 kV - 6PRINCE EDW 230.0 kV Ckt 1	<u>DVP</u> dom-212 (1599) : Rebuild 5.7 miles of 230 kV Line 235 from Briery to Prince EDW with 2-636 ACSR. Project Type : FAC Cost : \$8,550,000 Time Estimate : 30-36 Months	\$8,550,000
163173640	22	AG1-098 TAP 230.0 kV - 6CLOVER 230.0 kV Ckt 1	<u>DVP</u> dom-343 (1730) : Rebuild 6.534 miles of 230 kV Line 235 from Clover to AG1-098 with 2-795 ACSR 150 C. Replace Relay (Secondary CT) at Clover terminal Project Type : FAC Cost : \$16,455,000 Time Estimate : 36-40 Months	\$16,455,000
163174071, 169608159, 169608158	20	AC2-165 TAP 230.0 kV - 6POWHATN 230.0 kV Ckt 1	<u>DVP</u> dom-389 (1776) : Rebuild 4.01 miles of 230 kV Line 2027 from Powhatan to AC2-165 Tap with 2-795 ACSR (26/7) 150 C Project Type : FAC Cost : \$10,025,000 Time Estimate : 30-36 Months	\$10,025,000

ID	Id x	Facility	Upgrade Description	Cost
163592755, 163592754	19	AC1-221 TAP 230.0 kV - 6PERSON23 0 T 230.0 kV Ckt 1	<u>DVP</u> n6449 (1339) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-636 ACSR. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months dom-259 (1646) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-795 ACSR. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months dom-387 (1774) : For DEV portion, rebuild 2 miles of 230 kV Line 296 from AC1-221 Tap to Persons DEP with 2-768.2 ACSS 250 C. Project Type : FAC Cost : \$3,000,000 Time Estimate : 30-36 Months	\$9,000,000
168687269, 168687270	25	AG1-347 TAP 230.0 kV - 6BRIERY 230.0 kV Ckt 1	<u>DVP</u> dom-297 (1684) : Rebuild 16.821 mi miles of 230 kV Line 235 from Briery DP to AG1-347 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$42,052,500 Time Estimate : 36-40 Months	\$42,052,500

ID	Id x	Facility	Upgrade Description	Cost
169145699, 169145696, 169145697	2	6BUCKING 230.0 kV - 6BREMO 230.0 kV Ckt 1	<u>DVP</u> n6219 (1370) : Rebuild 15.51 miles of 230 kV Line 298 from Buckingham to Brema with 2-636 ACSR. Project Type : FAC Cost : \$23,265,000 Time Estimate : 30-36 Months dom-337 (1724) : Rebuild 15.51 miles of 230 kV Line 298 from Buckingham to Brema with 2-768.2 ACSS 250 C. Replace Breaker, Breaker Switch, Breaker Lead, Wave Trap, Relay (Secondary CT), Relay Trip at Brema terminal. Replace Line Switch at Buckingham terminal Project Type : FAC Cost : \$25,285,000 Time Estimate : 36-40 Months	\$48,550,000
169145675, 169145676, 169145678	3	6FARMVIL 230.0 kV - 6BUCKING 230.0 kV Ckt 1	<u>DVP</u> n6245 (1372) : Rebuild 12.76 miles of 230 kV Line 298 from Buckingham to Farmville with 2-636 ACSR. Project Type : FAC Cost : \$19,140,000 Time Estimate : 30-36 Months dom-346 (1733) : Rebuild 12.76 miles of 230 kV Line 298 from Buckingham to Farmville with 2-768.2 ACSS 250 C. Replace Line Lead, Line Switch, Relay (CT), Wave trap at Farmville terminal Project Type : FAC Cost : \$19,710,000 Time Estimate : 36-40 Months	\$38,850,000
169364112, 169364113	16	6BREMO 230.0 kV - 6BREMODIS T 230.0 kV Ckt 1	<u>DVP</u> n5873 (1538) : Rebuild 0.16 miles of Line 2028 from Brema to Brema Dist with 2-636 ACSR. Project Type : FAC Cost : \$500,000 Time Estimate : 30-36 Months	\$500,000

ID	Id x	Facility	Upgrade Description	Cost
169364103, 169364102	18	6MTEAGLE 230.0 kV - 6CHARLVL 230.0 kV Ckt 1	<u>DVP</u> n6184 (1576) : Rebuild 6.47 miles of 230 kV Line 2028 from Mt Eagle to Charlottesville with 2-636 ACSR. Project Type : FAC Cost : \$16,175,000 Time Estimate : 30-36 Months	\$16,175,000
168385178, 168385179	9	6CARTERV 230.0 kV - AC2-165 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-277 (1664) : Rebuild 7.67 miles of 230 kV Line 2027 from Carterville to AC2-165 Tap with 2-636 ACSR (24/7) 150 C Project Type : FAC Cost : \$19,175,000 Time Estimate : 36-40 Months	\$19,175,000
169145702, 169145703	15	6SEEDGE HILL 230.0 kV - AC1- 221 TAP 230.0 kV Ckt 1	<u>DVP</u> No upgrade needed on Dominion system. Need coordination with CPLE. <u>CPLE</u> The external (i.e. Non-PJM) Transmission Owner, CPLE, will not evaluate this violation until the impact study phase.	\$0
169145771, 169145770	13	6CLOVER 230.0 kV - 6BLACK WALNU 230.0 kV Ckt 1	<u>DVP</u> dom-342 (1729) : Rebuild 0.16 miles of 230 kV Line 2068 from Clover to Black Walnut with 2-768.2 ACSS 250 C. Replace wave trap at Clover terminal. Project Type : FAC Cost : \$440,000 Time Estimate : 30-36 Months	\$440,000

ID	Id x	Facility	Upgrade Description	Cost
168385014, 168385013	6	6FORK UNION 230.0 kV - AF2-397 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-198 (1585) : Rebuild 5 miles of 230 kV Line 2028 from Fork Union to AF2-397 Tap with 2-636 ACSR. Project Type : FAC Cost : \$7,500,000 Time Estimate : 30-36 Months	\$7,500,000
169145766, 169145767	14	6BLACK WALNU 230.0 kV - AG1-105 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-345 (1732) : Rebuild 3.441 miles of 230 kV Line 2068 from AG1-105 to Black Walnut with 2-768.2 ACSS 250 C Project Type : FAC Cost : \$5,161,500 Time Estimate : 30-36 Months	\$5,161,500
169907431, 169907432	24	AG1-176 TAP 230.0 kV - AG1- 347 TAP 230.0 kV Ckt 1	<u>DVP</u> dom-415 (1802) : Rebuild 0.17 mi miles of 230 kV Line 235 from AG1-347 Tap to AG1-176 Tap with 2-636 ACSR 150 C Project Type : FAC Cost : \$255,000 Time Estimate : 30-36 Months	\$255,000
169907391, 169907390	21	AF2-397 TAP 230.0 kV - J1180 TAP 345.0 kV Ckt 1	<u>DVP</u> dom-409 (1796) : Rebuild 5.6 miles of 230 kV Line 2028 from AG1-550 Tap to AF2-397 Tap with 2-636 ACSR 150 C. Project Type : FAC Cost : \$14,000,000 Time Estimate : 36-40 Months	\$14,000,000

ID	Id x	Facility	Upgrade Description	Cost
169145746, 169145747	23	AG1-105 TAP 230.0 kV - 6SEdge HILL 230.0 kV Ckt 1	<u>DVP</u> dom-412 (1799) : Rebuild 13.3 miles of 230 kV Line 2068 from AG1-105 to Sedge Hill with 2-768.2 ACSS 250 C. Replace Wave Trap at Sedge Hill terminal. Project Type : FAC Cost : \$20,150,000 Time Estimate : 36-40 Months	\$20,150,0 00
168385031, 168385030	7	6PRINCE EDW 230.0 kV - 6FARMVIL 230.0 kV Ckt 1	<u>DVP</u> dom-199 (1586) : Rebuild 7.2 miles of 230 kV Line 235 from Prince EDW to Farmville with 2-636 ACSR. Project Type : FAC Cost : \$10,800,000 Time Estimate : 30-36 Months	\$10,800,0 00
			TOTAL COST	\$369,779, 000

11.6 Flow Gate Details - Primary POI

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

11.6.1 Index 1

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168384971	313898	3BUTCHER CRK	DVP	314267	3CHASCTY2	DVP	1	DVP_P1-2: LN 298	single	269.78	99.46	101.57	DC	5.7

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314429	3JTRSVLE	1.3113	80/20	1.3113
316131	AB2-060 C	7.6090	80/20	7.6090
934625	AD1-088 C	4.1455	80/20	4.1455
935221	AD1-157 C	0.1688	80/20	0.1688
936265	AD2-033 C	57.3284	80/20	57.3284
938371	AE1-056 C	4.6129	80/20	4.6129
941791	AE2-182 C	0.6735	80/20	0.6735
942461	AE2-259 C O1	12.1362	80/20	12.1362
946301	AF1-294 C	13.2465	80/20	13.2465
958211	AF2-115 C	7.7921	80/20	7.7921
958801	AF2-171 C	7.7868	80/20	7.7868
961791	AG1-021 C	6.2336	80/20	6.2336
961891	AG1-030 C	52.2747	80/20	52.2747
962041	AG1-048 C	38.9602	80/20	38.9602
963171	AG1-166 C	6.2336	80/20	6.2336
963181	AG1-167 C	6.2336	80/20	6.2336
963191	AG1-168 C	6.2336	80/20	6.2336
963201	AG1-169 C	6.2336	80/20	6.2336
963211	AG1-170 C	6.2336	80/20	6.2336
963271	AG1-176 C O1	5.6995	80/20	5.6995
963641	AG1-215 C	2.9090	80/20	2.9090
964821	AG1-345 C	2.5035	80/20	2.5035
964841	AG1-347 C	3.5773	80/20	3.5773
965281	AG1-393 C	6.2336	80/20	6.2336
965641	AG1-432 C O1	24.2724	80/20	24.2724
965831	AG1-451	4.0454	80/20	4.0454
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.4272	80/20	2.4272
G-007A	G-007A	0.0048	Confirmed LTF	0.0048
VFT	VFT	0.0129	Confirmed LTF	0.0129
CALDERWOOD	CALDERWOOD	0.0581	Confirmed LTF	0.0581

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	0.0022	Confirmed LTF	0.0022
PRAIRIE	PRAIRIE	0.2325	Confirmed LTF	0.2325
CHEOAH	CHEOAH	0.0591	Confirmed LTF	0.0591
CBM-N	CBM-N	0.0012	Confirmed LTF	0.0012
COTTONWOOD	COTTONWOOD	0.2226	Confirmed LTF	0.2226
HAMLET	HAMLET	0.0964	Confirmed LTF	0.0964
GIBSON	GIBSON	0.0448	Confirmed LTF	0.0448
BLUEG	BLUEG	0.1406	Confirmed LTF	0.1406
TRIMBLE	TRIMBLE	0.0445	Confirmed LTF	0.0445
CATAWBA	CATAWBA	0.0539	Confirmed LTF	0.0539

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
169145697	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P1-2: LN 556-B	single	571.52	178.17	184.8	DC	37.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.6684	80/20	2.6684
313527	AB2-043 C	0.6826	80/20	0.6826
313719	3CHESTNUT	0.3600	80/20	0.3600
314429	3JTRSVLE	1.0076	80/20	1.0076
314572	3EMPORIA	0.1683	80/20	0.1683
314623	3WITAKRS	0.0667	80/20	0.0667
314677	6BUCKING	1.4768	80/20	1.4768
314704	3LAWRENC	0.1998	80/20	0.1998
315126	1ROARAP2	0.5063	80/20	0.5063
315128	1ROARAP4	0.4832	80/20	0.4832
315153	1CLOVER1	20.9369	80/20	20.9369
315154	1CLOVER2	20.7283	80/20	20.7283
315156	1HALLBR1	0.4996	80/20	0.4996
315158	1KERR 1	0.3755	80/20	0.3755
315159	1KERR 2	1.0513	80/20	1.0513
315160	1KERR 3	1.0513	80/20	1.0513
315161	1KERR 4	1.0513	80/20	1.0513
315162	1KERR 5	1.0513	80/20	1.0513
315163	1KERR 6	1.0513	80/20	1.0513
315164	1KERR 7	1.0513	80/20	1.0513
315266	1PLYWOOD A	1.3866	80/20	1.3866
315606	3AA2-053SOLA	0.5091	80/20	0.5091
315607	3AA1-063SOLA	0.4357	80/20	0.4357
316087	AB2-174 C	0.4407	80/20	0.4407
316118	AC1-105 C	6.9131	80/20	6.9131
316123	AC1-075 C	0.7898	80/20	0.7898
316129	AC1-054 C	5.1900	80/20	5.1900
316131	AB2-060 C	2.0201	80/20	2.0201
920591	AA2-165 C	0.0483	80/20	0.0483
923991	AB2-040 C O1	2.9062	80/20	2.9062
924301	AB2-077 C O1 (Suspended)	2.6962	80/20	2.6962

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924311	AB2-078 C O1 (Suspended)	2.6962	80/20	2.6962
924321	AB2-079 C O1 (Suspended)	2.6962	80/20	2.6962
925611	AC1-036 C	0.4351	80/20	0.4351
925661	AC1-042 C	0.8262	80/20	0.8262
926023	AC1-080 C	0.2640	80/20	0.2640
926645	AC1-145 C	0.1552	80/20	0.1552
927145	AC1-208 C	2.9573	80/20	2.9573
927251	AC1-221 C	1.6710	80/20	1.6710
927261	AC1-222 C	4.1067	80/20	4.1067
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.4549	80/20	1.4549
932761	AC2-100 C	3.8455	80/20	3.8455
934311	AD1-055 C	2.8513	80/20	2.8513
934341	AD1-058 C	4.1889	80/20	4.1889
934615	AD1-087 C	13.0965	80/20	13.0965
934625	AD1-088 C	29.0477	80/20	29.0477
934991	AD1-131 C	1.3734	80/20	1.3734
935171	AD1-152 C O1	14.3851	80/20	14.3851
935221	AD1-157 C	0.6064	80/20	0.6064
936161	AD2-022 C O1	4.1004	80/20	4.1004
936171	AD2-023 C O1	2.3919	80/20	2.3919
936265	AD2-033 C	23.6348	80/20	23.6348
936361	AD2-046 C O1	9.3324	80/20	9.3324
936485	AD2-063 C	23.7834	80/20	23.7834
937481	AD2-202 C O1	3.8360	80/20	3.8360
938371	AE1-056 C	16.5711	80/20	16.5711
939181	AE1-148 C	9.3242	80/20	9.3242
939941	AE1-230 C	0.3727	80/20	0.3727
940661	AE2-053 O1	3.4534	80/20	3.4534
941791	AE2-182 C	4.7192	80/20	4.7192
941801	AE2-185 C	1.8637	80/20	1.8637
941821	AE2-187 C	1.8637	80/20	1.8637
942451	AE2-258	3.2276	80/20	3.2276
942461	AE2-259 C O1	30.1788	80/20	30.1788
942671	AE2-283 C	2.0501	80/20	2.0501
942751	AE2-291 C	6.7081	80/20	6.7081
942761	AE2-292 C O1	8.3523	80/20	8.3523
943901	AF1-058 C	2.3154	80/20	2.3154
943911	AF1-059	15.5565	80/20	15.5565

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
945081	AF1-173	0.7222	80/20	0.7222
945811	AF1-246 C O1	12.6239	80/20	12.6239
946281	AF1-292 C	0.6035	80/20	0.6035
946301	AF1-294 C	10.1788	80/20	10.1788
957481	AF2-042 C	90.1710	80/20	90.1710
958211	AF2-115 C	5.9876	80/20	5.9876
958801	AF2-171 C	35.7867	80/20	35.7867
959311	AF2-222 C	33.1870	80/20	33.1870
959751	AF2-266	15.0290	80/20	15.0290
960061	AF2-297 C	9.2616	80/20	9.2616
960081	AF2-299 C	1.0172	80/20	1.0172
961121	AF2-403	0.4142	80/20	0.4142
961791	AG1-021 C	4.7900	80/20	4.7900
961891	AG1-030 C	33.4611	80/20	33.4611
962041	AG1-048 C	29.9378	80/20	29.9378
962441	AG1-093 C O1	18.4350	80/20	18.4350
962491	AG1-098 C O1	26.7862	80/20	26.7862
962561	AG1-105 C O1	16.8312	80/20	16.8312
963171	AG1-166 C	4.7900	80/20	4.7900
963181	AG1-167 C	4.7900	80/20	4.7900
963191	AG1-168 C	4.7900	80/20	4.7900
963201	AG1-169 C	4.7900	80/20	4.7900
963211	AG1-170 C	4.7900	80/20	4.7900
963271	AG1-176 C O1	37.8534	80/20	37.8534
963301	AG1-179 C	4.3337	80/20	4.3337
963311	AG1-180	2.1115	80/20	2.1115
963321	AG1-181 C O1	31.0660	80/20	31.0660
963361	AG1-185 O1	15.0305	80/20	15.0305
963601	AG1-209 C	0.1450	80/20	0.1450
963641	AG1-215 C	2.2354	80/20	2.2354
964111	AG1-272 C	4.9447	80/20	4.9447
964121	AG1-273 C	4.9447	80/20	4.9447
964131	AG1-274 C	4.9447	80/20	4.9447
964141	AG1-275 C	0.6212	80/20	0.6212
964151	AG1-276 C	0.6212	80/20	0.6212
964241	AG1-285 C O1	19.0492	80/20	19.0492
964261	AG1-287 C	1.7365	80/20	1.7365
964471	AG1-310 C	2.3287	80/20	2.3287
964501	AG1-313 C O1	1.4714	80/20	1.4714

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964791	AG1-342 C	5.2388	80/20	5.2388
964821	AG1-345 C	1.9116	80/20	1.9116
964841	AG1-347 C	23.6846	80/20	23.6846
965191	AG1-384 C	4.9447	80/20	4.9447
965281	AG1-393 C	4.7900	80/20	4.7900
965451	AG1-413 C O1	6.5394	80/20	6.5394
965591	AG1-427 C	18.1810	80/20	18.1810
965601	AG1-428 C O1	3.6179	80/20	3.6179
965641	AG1-432 C O1	60.3576	80/20	60.3576
965721	AG1-440 C	6.4480	80/20	6.4480
965731	AG1-441 C	6.4480	80/20	6.4480
965771	AG1-445	3.7255	80/20	3.7255
965781	AG1-446	3.7255	80/20	3.7255
965831	AG1-451	10.0596	80/20	10.0596
966621	AG1-532 C	0.5493	80/20	0.5493
966691	AG1-539 C	3.5075	80/20	3.5075
966751	AG1-546 C	10.8417	80/20	10.8417
966761	AG1-547 C	1.6846	80/20	1.6846
966811	AG1-552 C	0.8039	80/20	0.8039
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.0358	80/20	6.0358
WEC	WEC	0.2939	Confirmed LTF	0.2939
LGEE	LGEE	0.6051	Confirmed LTF	0.6051
CPL	CPL	3.6248	Confirmed LTF	3.6248
CBM-W2	CBM-W2	13.4490	Confirmed LTF	13.4490
NY	NY	0.4020	Confirmed LTF	0.4020
TVA	TVA	2.5732	Confirmed LTF	2.5732
SIGE	SIGE	0.1956	Confirmed LTF	0.1956
CBM-S2	CBM-S2	41.5512	Confirmed LTF	41.5512
CBM-S1	CBM-S1	0.6380	Confirmed LTF	0.6380
MEC	MEC	1.7940	Confirmed LTF	1.7940
LAGN	LAGN	3.1955	Confirmed LTF	3.1955
AA2-074	AA2-074	2.3936	LTF	2.3936
CBM-W1	CBM-W1	12.2254	Confirmed LTF	12.2254

11.6.3 Index 3

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169145676	314692	6FARMVIL	DVP	314677	6BUCKING	DVP	1	DVP_P1-2: LN 556-B	single	559.3	178.8	185.57	DC	37.87

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.6741	80/20	2.6741
313527	AB2-043 C	0.6830	80/20	0.6830
313719	3CHESTNUT	0.3610	80/20	0.3610
314429	3JTRSVLE	1.0080	80/20	1.0080
314572	3EMPORIA	0.1686	80/20	0.1686
314623	3WITAKRS	0.0669	80/20	0.0669
314704	3LAWRENC	0.2000	80/20	0.2000
315126	1ROARAP2	0.5074	80/20	0.5074
315128	1ROARAP4	0.4842	80/20	0.4842
315153	1CLOVER1	20.9467	80/20	20.9467
315154	1CLOVER2	20.7379	80/20	20.7379
315156	1HALLBR1	0.5007	80/20	0.5007
315158	1KERR 1	0.3758	80/20	0.3758
315159	1KERR 2	1.0523	80/20	1.0523
315160	1KERR 3	1.0523	80/20	1.0523
315161	1KERR 4	1.0523	80/20	1.0523
315162	1KERR 5	1.0523	80/20	1.0523
315163	1KERR 6	1.0523	80/20	1.0523
315164	1KERR 7	1.0523	80/20	1.0523
315266	1PLYWOOD A	1.3876	80/20	1.3876
315606	3AA2-053SOLA	0.5104	80/20	0.5104
315607	3AA1-063SOLA	0.4369	80/20	0.4369
316087	AB2-174 C	0.4416	80/20	0.4416
316118	AC1-105 C	6.9179	80/20	6.9179
316123	AC1-075 C	0.7907	80/20	0.7907
316129	AC1-054 C	5.1963	80/20	5.1963
316131	AB2-060 C	2.0213	80/20	2.0213
920591	AA2-165 C	0.0485	80/20	0.0485
923991	AB2-040 C O1	2.9124	80/20	2.9124
924301	AB2-077 C O1 (Suspended)	2.6978	80/20	2.6978

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924311	AB2-078 C O1 (Suspended)	2.6978	80/20	2.6978
924321	AB2-079 C O1 (Suspended)	2.6978	80/20	2.6978
925611	AC1-036 C	0.4353	80/20	0.4353
925661	AC1-042 C	0.8285	80/20	0.8285
926023	AC1-080 C	0.2642	80/20	0.2642
926645	AC1-145 C	0.1556	80/20	0.1556
927145	AC1-208 C	2.9650	80/20	2.9650
927251	AC1-221 C	1.6730	80/20	1.6730
927261	AC1-222 C	4.1099	80/20	4.1099
932761	AC2-100 C	3.8502	80/20	3.8502
934311	AD1-055 C	2.8536	80/20	2.8536
934341	AD1-058 C	4.1940	80/20	4.1940
934615	AD1-087 C	13.1026	80/20	13.1026
934625	AD1-088 C	29.0577	80/20	29.0577
934991	AD1-131 C	1.3751	80/20	1.3751
935171	AD1-152 C O1	14.3918	80/20	14.3918
935221	AD1-157 C	0.6066	80/20	0.6066
936161	AD2-022 C O1	4.1088	80/20	4.1088
936171	AD2-023 C O1	2.3968	80/20	2.3968
936265	AD2-033 C	23.6457	80/20	23.6457
936361	AD2-046 C O1	9.3407	80/20	9.3407
936485	AD2-063 C	23.7960	80/20	23.7960
937481	AD2-202 C O1	3.8378	80/20	3.8378
938371	AE1-056 C	16.5765	80/20	16.5765
939181	AE1-148 C	9.3317	80/20	9.3317
939941	AE1-230 C	0.3738	80/20	0.3738
940661	AE2-053 O1	3.4562	80/20	3.4562
941791	AE2-182 C	4.7209	80/20	4.7209
941801	AE2-185 C	1.8688	80/20	1.8688
941821	AE2-187 C	1.8688	80/20	1.8688
942451	AE2-258	3.2296	80/20	3.2296
942461	AE2-259 C O1	30.1872	80/20	30.1872
942671	AE2-283 C	2.0556	80/20	2.0556
942751	AE2-291 C	6.7167	80/20	6.7167
942761	AE2-292 C O1	8.3629	80/20	8.3629
943901	AF1-058 C	2.3171	80/20	2.3171
943911	AF1-059	15.5704	80/20	15.5704
945081	AF1-173	0.7241	80/20	0.7241

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
945811	AF1-246 C O1	12.6298	80/20	12.6298
946281	AF1-292 C	0.6048	80/20	0.6048
946301	AF1-294 C	10.1827	80/20	10.1827
957481	AF2-042 C	90.2130	80/20	90.2130
958211	AF2-115 C	5.9898	80/20	5.9898
958801	AF2-171 C	35.7993	80/20	35.7993
959311	AF2-222 C	33.2020	80/20	33.2020
959751	AF2-266	15.0360	80/20	15.0360
960061	AF2-297 C	9.2683	80/20	9.2683
960081	AF2-299 C	1.0193	80/20	1.0193
961121	AF2-403	0.4153	80/20	0.4153
961791	AG1-021 C	4.7918	80/20	4.7918
961891	AG1-030 C	33.4746	80/20	33.4746
962041	AG1-048 C	29.9490	80/20	29.9490
962441	AG1-093 C O1	18.4478	80/20	18.4478
962491	AG1-098 C O1	26.7967	80/20	26.7967
962561	AG1-105 C O1	16.8396	80/20	16.8396
963171	AG1-166 C	4.7918	80/20	4.7918
963181	AG1-167 C	4.7918	80/20	4.7918
963191	AG1-168 C	4.7918	80/20	4.7918
963201	AG1-169 C	4.7918	80/20	4.7918
963211	AG1-170 C	4.7918	80/20	4.7918
963271	AG1-176 C O1	37.8660	80/20	37.8660
963301	AG1-179 C	4.3384	80/20	4.3384
963311	AG1-180	2.1138	80/20	2.1138
963321	AG1-181 C O1	31.0801	80/20	31.0801
963361	AG1-185 O1	15.0374	80/20	15.0374
963601	AG1-209 C	0.1453	80/20	0.1453
963641	AG1-215 C	2.2362	80/20	2.2362
964111	AG1-272 C	4.9469	80/20	4.9469
964121	AG1-273 C	4.9469	80/20	4.9469
964131	AG1-274 C	4.9469	80/20	4.9469
964141	AG1-275 C	0.6229	80/20	0.6229
964151	AG1-276 C	0.6229	80/20	0.6229
964241	AG1-285 C O1	19.0605	80/20	19.0605
964261	AG1-287 C	1.7378	80/20	1.7378
964471	AG1-310 C	2.3305	80/20	2.3305
964501	AG1-313 C O1	1.4752	80/20	1.4752
964791	AG1-342 C	5.2424	80/20	5.2424

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964821	AG1-345 C	1.9122	80/20	1.9122
964841	AG1-347 C	23.6925	80/20	23.6925
965191	AG1-384 C	4.9469	80/20	4.9469
965281	AG1-393 C	4.7918	80/20	4.7918
965451	AG1-413 C O1	6.5452	80/20	6.5452
965591	AG1-427 C	18.1909	80/20	18.1909
965601	AG1-428 C O1	3.6218	80/20	3.6218
965641	AG1-432 C O1	60.3744	80/20	60.3744
965721	AG1-440 C	6.4543	80/20	6.4543
965731	AG1-441 C	6.4543	80/20	6.4543
965771	AG1-445	3.7292	80/20	3.7292
965781	AG1-446	3.7292	80/20	3.7292
965831	AG1-451	10.0624	80/20	10.0624
966621	AG1-532 C	0.5504	80/20	0.5504
966691	AG1-539 C	3.5120	80/20	3.5120
966751	AG1-546 C	10.8553	80/20	10.8553
966761	AG1-547 C	1.6892	80/20	1.6892
966811	AG1-552 C	0.8056	80/20	0.8056
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	6.0374	80/20	6.0374
WEC	WEC	0.2983	Confirmed LTF	0.2983
LGEE	LGEE	0.6138	Confirmed LTF	0.6138
CPL	CPL	3.6343	Confirmed LTF	3.6343
CBM-W2	CBM-W2	13.5744	Confirmed LTF	13.5744
NY	NY	0.3943	Confirmed LTF	0.3943
TVA	TVA	2.5928	Confirmed LTF	2.5928
SIGE	SIGE	0.1956	Confirmed LTF	0.1956
CBM-S2	CBM-S2	41.6974	Confirmed LTF	41.6974
CBM-S1	CBM-S1	0.6433	Confirmed LTF	0.6433
MEC	MEC	1.8162	Confirmed LTF	1.8162
LAGN	LAGN	3.2200	Confirmed LTF	3.2200
AA2-074	AA2-074	2.3999	LTF	2.3999
CBM-W1	CBM-W1	12.4217	Confirmed LTF	12.4217

11.6.4 Index 4

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168385157	314747	6BREMO	DVP	313868	6CARTERV	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.88	102.01	103.83	DC	14.56

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2811	80/20	0.2811
314429	3JTRSVLE	0.4835	80/20	0.4835
314677	6BUCKING	0.8051	80/20	0.8051
315153	1CLOVER1	4.3284	80/20	4.3284
315154	1CLOVER2	4.2852	80/20	4.2852
315158	1KERR 1	0.1411	80/20	0.1411
315159	1KERR 2	0.3952	80/20	0.3952
315160	1KERR 3	0.3952	80/20	0.3952
315161	1KERR 4	0.3952	80/20	0.3952
315162	1KERR 5	0.3952	80/20	0.3952
315163	1KERR 6	0.3952	80/20	0.3952
315164	1KERR 7	0.3952	80/20	0.3952
315191	1BEARGRDN G1	14.2615	80/20	14.2615
315192	1BEARGRDN G2	14.2615	80/20	14.2615
315193	1BEARGRDN S1	18.4429	80/20	18.4429
315266	1PLYWOOD A	0.4253	80/20	0.4253
316118	AC1-105 C	2.1876	80/20	2.1876
316131	AB2-060 C	0.8407	80/20	0.8407
924301	AB2-077 C O1 (Suspended)	1.0994	80/20	1.0994
924311	AB2-078 C O1 (Suspended)	1.0994	80/20	1.0994
924321	AB2-079 C O1 (Suspended)	1.0994	80/20	1.0994
925611	AC1-036 C	0.1990	80/20	0.1990
927261	AC1-222 C	1.2313	80/20	1.2313
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7932	80/20	0.7932
934311	AD1-055 C	0.8549	80/20	0.8549
934615	AD1-087 C	2.7103	80/20	2.7103
934625	AD1-088 C	10.6986	80/20	10.6986
935171	AD1-152 C O1	2.9770	80/20	2.9770

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935221	AD1-157 C	0.2946	80/20	0.2946
936265	AD2-033 C	10.6548	80/20	10.6548
936361	AD2-046 C O1	3.5828	80/20	3.5828
936485	AD2-063 C	10.3014	80/20	10.3014
937481	AD2-202 C O1	0.7939	80/20	0.7939
938371	AE1-056 C	8.0514	80/20	8.0514
938821	AE1-108 C O1	29.3769	80/20	29.3769
939181	AE1-148 C	3.5932	80/20	3.5932
940661	AE2-053 O1	1.3308	80/20	1.3308
941011	AE2-092 C	25.2830	80/20	25.2830
941791	AE2-182 C	1.7381	80/20	1.7381
942451	AE2-258	1.3292	80/20	1.3292
942461	AE2-259 C O1	15.0522	80/20	15.0522
943901	AF1-058 C	0.6646	80/20	0.6646
943911	AF1-059	5.9093	80/20	5.9093
946291	AF1-293 C O1	39.5443	80/20	39.5443
946301	AF1-294 C	4.8845	80/20	4.8845
946591	AF1-323 C	9.4261	80/20	9.4261
958131	AF2-107 C	4.3750	80/20	4.3750
958211	AF2-115 C	2.8733	80/20	2.8733
958801	AF2-171 C	17.1603	80/20	17.1603
959311	AF2-222 C	15.3100	80/20	15.3100
959751	AF2-266	3.1070	80/20	3.1070
960061	AF2-297 C	2.6582	80/20	2.6582
960111	AF2-302 C	3.4277	80/20	3.4277
961061	AF2-397 C	36.6545	80/20	36.6545
961791	AG1-021 C	2.2986	80/20	2.2986
961801	AG1-022 C	3.4277	80/20	3.4277
961891	AG1-030 C	15.8319	80/20	15.8319
962041	AG1-048 C	14.3663	80/20	14.3663
962441	AG1-093 C O1	5.8337	80/20	5.8337
962491	AG1-098 C O1	8.1622	80/20	8.1622
962561	AG1-105 C O1	3.5664	80/20	3.5664
962741	AG1-123 C O1	3.1842	80/20	3.1842
962751	AG1-124 C O1	3.5741	80/20	3.5741
963171	AG1-166 C	2.2986	80/20	2.2986
963181	AG1-167 C	2.2986	80/20	2.2986
963191	AG1-168 C	2.2986	80/20	2.2986
963201	AG1-169 C	2.2986	80/20	2.2986

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	2.2986	80/20	2.2986
963271	AG1-176 C O1	14.5637	80/20	14.5637
963321	AG1-181 C O1	14.0576	80/20	14.0576
963361	AG1-185 O1	6.8014	80/20	6.8014
963641	AG1-215 C	1.0727	80/20	1.0727
964111	AG1-272 C	2.2621	80/20	2.2621
964121	AG1-273 C	2.2621	80/20	2.2621
964131	AG1-274 C	2.2621	80/20	2.2621
964231	AG1-284 C O1	17.0012	80/20	17.0012
964241	AG1-285 C O1	8.1450	80/20	8.1450
964261	AG1-287 C	0.4984	80/20	0.4984
964471	AG1-310 C	0.7118	80/20	0.7118
964791	AG1-342 C	1.8023	80/20	1.8023
964821	AG1-345 C	0.9169	80/20	0.9169
964841	AG1-347 C	9.1358	80/20	9.1358
965191	AG1-384 C	2.2621	80/20	2.2621
965281	AG1-393 C	2.2986	80/20	2.2986
965451	AG1-413 C O1	2.4841	80/20	2.4841
965581	AG1-426	6.4002	80/20	6.4002
965591	AG1-427 C	7.7911	80/20	7.7911
965641	AG1-432 C O1	30.1044	80/20	30.1044
965721	AG1-440 C	2.3620	80/20	2.3620
965731	AG1-441 C	2.3620	80/20	2.3620
965771	AG1-445	1.3647	80/20	1.3647
965781	AG1-446	1.3647	80/20	1.3647
965831	AG1-451	5.0174	80/20	5.0174
966251	AG1-494 C	1.6494	80/20	1.6494
966791	AG1-550 O1	16.4475	80/20	16.4475
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0104	80/20	3.0104
WEC	WEC	0.1988	Confirmed LTF	0.1988
LGEE	LGEE	0.4247	Confirmed LTF	0.4247
CPLE	CPLE	1.0859	Confirmed LTF	1.0859
CBM-W2	CBM-W2	7.3114	Confirmed LTF	7.3114
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.3104	Confirmed LTF	1.3104
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.4907	Confirmed LTF	14.4907
CBM-S1	CBM-S1	0.3374	Confirmed LTF	0.3374

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
MEC	MEC	1.1075	Confirmed LTF	1.1075
LAGN	LAGN	1.5942	Confirmed LTF	1.5942
CBM-W1	CBM-W1	8.3419	Confirmed LTF	8.3419

11.6.5 Index 5

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
163173695	934620	AD1-088 TAP	DVP	962490	AG1-098 TAP	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	84.52	103.19	DC	130.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5789	50/50	0.5789
313853	3PONTONDP	1.8407	50/50	1.8407
314429	3JTRSVLE	1.1616	50/50	1.1616
314677	6BUCKING	1.6095	50/50	1.6095
314713	3PAMPLIN	4.9032	50/50	4.9032
315161	1KERR 4	0.7452	50/50	0.7452
315162	1KERR 5	0.7452	50/50	0.7452
315163	1KERR 6	0.7452	50/50	0.7452
315164	1KERR 7	0.7452	50/50	0.7452
316131	AB2-060 C	1.7524	50/50	1.7524
924022	AB2-043 E O1	3.2808	50/50	3.2808
924032	AB2-045 E	4.7608	50/50	4.7608
924162	AB2-060 E OP	5.2270	50/50	5.2270
924301	AB2-077 C O1 (Suspended)	2.2313	50/50	2.2313
924302	AB2-077 E O1 (Suspended)	1.4875	50/50	1.4875
924311	AB2-078 C O1 (Suspended)	2.2313	50/50	2.2313
924312	AB2-078 E O1 (Suspended)	1.4875	50/50	1.4875
924321	AB2-079 C O1 (Suspended)	2.2313	50/50	2.2313
924322	AB2-079 E O1 (Suspended)	1.4875	50/50	1.4875
925611	AC1-036 C	0.4580	50/50	0.4580
925612	AC1-036 E	1.7382	50/50	1.7382
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0631	50/50	5.0631
934625	AD1-088 C	63.1640	50/50	63.1640
934626	AD1-088 E	16.5430	50/50	16.5430
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0229	50/50	3.0229

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936265	AD2-033 C	24.1714	50/50	24.1714
936266	AD2-033 E	16.1143	50/50	16.1143
936361	AD2-046 C O1	6.9048	50/50	6.9048
936362	AD2-046 E O1	3.1752	50/50	3.1752
936485	AD2-063 C	22.4433	50/50	22.4433
936486	AD2-063 E	14.9622	50/50	14.9622
938371	AE1-056 C	19.5482	50/50	19.5482
938372	AE1-056 E	10.6810	50/50	10.6810
939181	AE1-148 C	6.9525	50/50	6.9525
939182	AE1-148 E	4.6350	50/50	4.6350
940661	AE2-053 O1	2.5750	50/50	2.5750
941791	AE2-182 C	10.2619	50/50	10.2619
941792	AE2-182 E	4.7771	50/50	4.7771
942451	AE2-258	2.7372	50/50	2.7372
942461	AE2-259 C O1	37.3440	50/50	37.3440
942462	AE2-259 E O1	24.8960	50/50	24.8960
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7343	50/50	11.7343
946302	AF1-294 E	7.8229	50/50	7.8229
958211	AF2-115 C	6.9026	50/50	6.9026
958212	AF2-115 E	4.6017	50/50	4.6017
958801	AF2-171 C	41.2002	50/50	41.2002
958802	AF2-171 E	27.4668	50/50	27.4668
959311	AF2-222 C	35.5030	50/50	35.5030
959312	AF2-222 E	23.7870	50/50	23.7870
961791	AG1-021 C	5.5220	50/50	5.5220
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5642	50/50	37.5642
961892	AG1-030 E	25.0428	50/50	25.0428
962041	AG1-048 C	34.5128	50/50	34.5128
962042	AG1-048 E	23.0085	50/50	23.0085
963171	AG1-166 C	5.5220	50/50	5.5220
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5220	50/50	5.5220
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5220	50/50	5.5220
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5220	50/50	5.5220
963202	AG1-169 E	3.6814	50/50	3.6814

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	5.5220	50/50	5.5220
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O1	78.3861	50/50	78.3861
963272	AG1-176 E O1	52.2574	50/50	52.2574
963321	AG1-181 C O1	32.0091	50/50	32.0091
963361	AG1-185 O1	15.4869	50/50	15.4869
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8654	50/50	3.8654
964111	AG1-272 C	5.2046	50/50	5.2046
964112	AG1-272 E	1.5458	50/50	1.5458
964121	AG1-273 C	5.2046	50/50	5.2046
964122	AG1-273 E	1.5458	50/50	1.5458
964131	AG1-274 C	5.2046	50/50	5.2046
964132	AG1-274 E	1.5458	50/50	1.5458
964241	AG1-285 C O1	17.4997	50/50	17.4997
964242	AG1-285 E O1	11.6665	50/50	11.6665
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679
964841	AG1-347 C	48.8992	50/50	48.8992
964842	AG1-347 E	38.4208	50/50	38.4208
965191	AG1-384 C	5.2046	50/50	5.2046
965192	AG1-384 E	1.5458	50/50	1.5458
965281	AG1-393 C	5.5220	50/50	5.5220
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O1	5.3401	50/50	5.3401
965452	AG1-413 E O1	3.5601	50/50	3.5601
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O1	74.6880	50/50	74.6880
965642	AG1-432 E O1	49.7920	50/50	49.7920
965831	AG1-451	12.4480	50/50	12.4480
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	7.4688	50/50	7.4688
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	4.9792	50/50	4.9792
WEC	WEC	0.0233	Confirmed LTF	0.0233
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPL	CPL	0.2539	Confirmed LTF	0.2539
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	0.0420	Confirmed LTF	0.0420
TVA	TVA	0.1806	Confirmed LTF	0.1806
O-066	O-066	0.5855	Confirmed LTF	0.5855
SIGE	SIGE	0.0177	Confirmed LTF	0.0177
CBM-S2	CBM-S2	2.6726	Confirmed LTF	2.6726
CBM-S1	CBM-S1	0.0456	Confirmed LTF	0.0456
G-007	G-007	0.0924	Confirmed LTF	0.0924
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2223	Confirmed LTF	0.2223
CBM-W1	CBM-W1	0.9814	Confirmed LTF	0.9814

11.6.6 Index 6

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168385013	313707	6FORK UNION	DVP	961060	AF2-397 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	133.62	136.47	DC	18.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0108	80/20	14.0108
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9386	80/20	13.9386
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8276	80/20	13.8276
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0480	80/20	10.0480
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2763	80/20	2.2763
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4836	80/20	18.4836
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9989	80/20	0.9989
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1432	80/20	6.1432
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6137	80/20	3.6137
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7380	80/20	19.7380
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9955	80/20	3.9955

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961791	AG1-021 C	2.8909	80/20	2.8909
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0682	80/20	18.0682
962441	AG1-093 C O1	8.5606	80/20	8.5606
962491	AG1-098 C O1	11.2875	80/20	11.2875
962561	AG1-105 C O1	5.6502	80/20	5.6502
962741	AG1-123 C O1	3.4622	80/20	3.4622
962751	AG1-124 C O1	3.7973	80/20	3.7973
963171	AG1-166 C	2.8909	80/20	2.8909
963181	AG1-167 C	2.8909	80/20	2.8909
963191	AG1-168 C	2.8909	80/20	2.8909
963201	AG1-169 C	2.8909	80/20	2.8909
963211	AG1-170 C	2.8909	80/20	2.8909
963271	AG1-176 C O1	18.8540	80/20	18.8540
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O1	18.3458	80/20	18.3458
963361	AG1-185 O1	8.8762	80/20	8.8762
963641	AG1-215 C	1.3491	80/20	1.3491
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O1	20.2255	80/20	20.2255
964241	AG1-285 C O1	11.0250	80/20	11.0250
964261	AG1-287 C	0.7492	80/20	0.7492
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8194	80/20	11.8194
964931	AG1-357 C	7.8348	80/20	7.8348
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8909	80/20	2.8909
965451	AG1-413 C O1	3.9569	80/20	3.9569
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299
965601	AG1-428 C O1	2.2741	80/20	2.2741

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965641	AG1-432 C O1	36.9672	80/20	36.9672
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1612	80/20	6.1612
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6967	80/20	3.6967
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPL	CPL	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

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
168385031	313802	6PRINCE EDW	DVP	314692	6FARMVIL	DVP	1	DVP_P1-2: LN 556-B	single	571.52	130.33	138.02	DC	43.94

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964841	AG1-347 C	27.5044	80/20	27.5044
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

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
168385035	313867	6BREMIST	DVP	313707	6FORK UNION	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	134.83	137.96	DC	20.72

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1780	80/20	2.1780
313527	AB2-043 C	0.4243	80/20	0.4243
314429	3JTRSVLE	0.6669	80/20	0.6669
314572	3EMPORIA	0.1382	80/20	0.1382
314677	6BUCKING	1.0571	80/20	1.0571
314704	3LAWRENC	0.1410	80/20	0.1410
315126	1ROARAP2	0.4085	80/20	0.4085
315128	1ROARAP4	0.3898	80/20	0.3898
315153	1CLOVER1	7.5116	80/20	7.5116
315154	1CLOVER2	7.4368	80/20	7.4368
315158	1KERR 1	0.2345	80/20	0.2345
315159	1KERR 2	0.6567	80/20	0.6567
315160	1KERR 3	0.6567	80/20	0.6567
315161	1KERR 4	0.6567	80/20	0.6567
315162	1KERR 5	0.6567	80/20	0.6567
315163	1KERR 6	0.6567	80/20	0.6567
315164	1KERR 7	0.6567	80/20	0.6567
315191	1BEARGRDN G1	18.4998	80/20	18.4998
315192	1BEARGRDN G2	18.4998	80/20	18.4998
315193	1BEARGRDN S1	23.9239	80/20	23.9239
315266	1PLYWOOD A	0.6737	80/20	0.6737
316087	AB2-174 C	0.3606	80/20	0.3606
316118	AC1-105 C	3.4200	80/20	3.4200
316123	AC1-075 C	0.3763	80/20	0.3763
316129	AC1-054 C	3.4710	80/20	3.4710
316131	AB2-060 C	1.2610	80/20	1.2610
923991	AB2-040 C O1	2.3720	80/20	2.3720
924301	AB2-077 C O1 (Suspended)	1.6661	80/20	1.6661
924311	AB2-078 C O1 (Suspended)	1.6661	80/20	1.6661

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924321	AB2-079 C O1 (Suspended)	1.6661	80/20	1.6661
925611	AC1-036 C	0.2822	80/20	0.2822
926023	AC1-080 C	0.1258	80/20	0.1258
927251	AC1-221 C	0.7947	80/20	0.7947
927261	AC1-222 C	1.8844	80/20	1.8844
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.0415	80/20	1.0415
932761	AC2-100 C	1.8288	80/20	1.8288
933501	AC2-165 C	34.9923	80/20	34.9923
934311	AD1-055 C	1.3084	80/20	1.3084
934341	AD1-058 C	1.9921	80/20	1.9921
934615	AD1-087 C	4.7030	80/20	4.7030
934625	AD1-088 C	15.3924	80/20	15.3924
934991	AD1-131 C	0.6532	80/20	0.6532
935171	AD1-152 C O1	5.1658	80/20	5.1658
935221	AD1-157 C	0.4035	80/20	0.4035
936265	AD2-033 C	15.2365	80/20	15.2365
936361	AD2-046 C O1	5.8230	80/20	5.8230
936485	AD2-063 C	15.0849	80/20	15.0849
937481	AD2-202 C O1	1.3775	80/20	1.3775
938371	AE1-056 C	11.0262	80/20	11.0262
938821	AE1-108 C O1	11.0132	80/20	11.0132
939181	AE1-148 C	5.8169	80/20	5.8169
940661	AE2-053 O1	2.1544	80/20	2.1544
941791	AE2-182 C	2.5007	80/20	2.5007
942451	AE2-258	2.0064	80/20	2.0064
942461	AE2-259 C O1	20.3100	80/20	20.3100
942751	AE2-291 C	3.2791	80/20	3.2791
942761	AE2-292 C O1	4.0828	80/20	4.0828
943901	AF1-058 C	1.0548	80/20	1.0548
943911	AF1-059	10.2781	80/20	10.2781
945811	AF1-246 C O1	3.6616	80/20	3.6616
946281	AF1-292 C	0.4969	80/20	0.4969
946291	AF1-293 C O1	6.2287	80/20	6.2287
946301	AF1-294 C	6.7368	80/20	6.7368
946591	AF1-323 C	3.5356	80/20	3.5356
957481	AF2-042 C	26.1540	80/20	26.1540
958131	AF2-107 C	1.6496	80/20	1.6496
958211	AF2-115 C	3.9629	80/20	3.9629

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958801	AF2-171 C	23.6781	80/20	23.6781
959311	AF2-222 C	21.6010	80/20	21.6010
959751	AF2-266	5.3920	80/20	5.3920
960061	AF2-297 C	4.2192	80/20	4.2192
960081	AF2-299 C	0.8375	80/20	0.8375
960111	AF2-302 C	1.2857	80/20	1.2857
961791	AG1-021 C	3.1703	80/20	3.1703
961801	AG1-022 C	1.2857	80/20	1.2857
961891	AG1-030 C	22.0131	80/20	22.0131
962041	AG1-048 C	19.8142	80/20	19.8142
962441	AG1-093 C O1	9.1200	80/20	9.1200
962491	AG1-098 C O1	12.3900	80/20	12.3900
962561	AG1-105 C O1	6.1674	80/20	6.1674
963171	AG1-166 C	3.1703	80/20	3.1703
963181	AG1-167 C	3.1703	80/20	3.1703
963191	AG1-168 C	3.1703	80/20	3.1703
963201	AG1-169 C	3.1703	80/20	3.1703
963211	AG1-170 C	3.1703	80/20	3.1703
963271	AG1-176 C O1	20.7171	80/20	20.7171
963301	AG1-179 C	2.9803	80/20	2.9803
963311	AG1-180	1.4521	80/20	1.4521
963321	AG1-181 C O1	20.0593	80/20	20.0593
963361	AG1-185 O1	9.7052	80/20	9.7052
963641	AG1-215 C	1.4795	80/20	1.4795
964111	AG1-272 C	3.2072	80/20	3.2072
964121	AG1-273 C	3.2072	80/20	3.2072
964131	AG1-274 C	3.2072	80/20	3.2072
964231	AG1-284 C O1	2.9513	80/20	2.9513
964241	AG1-285 C O1	12.0195	80/20	12.0195
964261	AG1-287 C	0.7911	80/20	0.7911
964471	AG1-310 C	1.0720	80/20	1.0720
964791	AG1-342 C	2.7843	80/20	2.7843
964821	AG1-345 C	1.2648	80/20	1.2648
964841	AG1-347 C	12.9875	80/20	12.9875
964931	AG1-357 C	8.6556	80/20	8.6556
965191	AG1-384 C	3.2072	80/20	3.2072
965281	AG1-393 C	3.1703	80/20	3.1703
965451	AG1-413 C O1	4.3205	80/20	4.3205
965581	AG1-426	2.3994	80/20	2.3994

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	11.4819	80/20	11.4819
965601	AG1-428 C O1	2.4880	80/20	2.4880
965641	AG1-432 C O1	40.6200	80/20	40.6200
965721	AG1-440 C	4.1121	80/20	4.1121
965731	AG1-441 C	4.1121	80/20	4.1121
965771	AG1-445	2.3759	80/20	2.3759
965781	AG1-446	2.3759	80/20	2.3759
965831	AG1-451	6.7700	80/20	6.7700
966361	AG1-505 C	4.9734	80/20	4.9734
966371	AG1-506 C	4.9734	80/20	4.9734
966621	AG1-532 C	0.4522	80/20	0.4522
966691	AG1-539 C	1.7146	80/20	1.7146
966751	AG1-546 C	7.3410	80/20	7.3410
966811	AG1-552 C	0.6485	80/20	0.6485
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	4.0620	80/20	4.0620
WEC	WEC	0.0699	Confirmed LTF	0.0699
LGEE	LGEE	0.1483	Confirmed LTF	0.1483
CPL	CPL	2.3396	Confirmed LTF	2.3396
CBM-W2	CBM-W2	5.8061	Confirmed LTF	5.8061
NY	NY	0.4076	Confirmed LTF	0.4076
TVA	TVA	1.2558	Confirmed LTF	1.2558
SIGE	SIGE	0.1120	Confirmed LTF	0.1120
CBM-S2	CBM-S2	25.9121	Confirmed LTF	25.9121
CBM-S1	CBM-S1	0.2953	Confirmed LTF	0.2953
MEC	MEC	0.5863	Confirmed LTF	0.5863
LAGN	LAGN	1.5645	Confirmed LTF	1.5645
AA2-074	AA2-074	1.5426	LTF	1.5426
CBM-W1	CBM-W1	2.5236	Confirmed LTF	2.5236

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
168385179	313868	6CARTERV	DVP	933500	AC2-165 TAP	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.88	100.6	102.42	DC	14.56

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2811	80/20	0.2811
314429	3JTRSVLE	0.4835	80/20	0.4835
314677	6BUCKING	0.8051	80/20	0.8051
315153	1CLOVER1	4.3284	80/20	4.3284
315154	1CLOVER2	4.2852	80/20	4.2852
315158	1KERR 1	0.1411	80/20	0.1411
315159	1KERR 2	0.3952	80/20	0.3952
315160	1KERR 3	0.3952	80/20	0.3952
315161	1KERR 4	0.3952	80/20	0.3952
315162	1KERR 5	0.3952	80/20	0.3952
315163	1KERR 6	0.3952	80/20	0.3952
315164	1KERR 7	0.3952	80/20	0.3952
315191	1BEARGRDN G1	14.2615	80/20	14.2615
315192	1BEARGRDN G2	14.2615	80/20	14.2615
315193	1BEARGRDN S1	18.4429	80/20	18.4429
315266	1PLYWOOD A	0.4253	80/20	0.4253
316118	AC1-105 C	2.1876	80/20	2.1876
316131	AB2-060 C	0.8407	80/20	0.8407
924301	AB2-077 C O1 (Suspended)	1.0994	80/20	1.0994
924311	AB2-078 C O1 (Suspended)	1.0994	80/20	1.0994
924321	AB2-079 C O1 (Suspended)	1.0994	80/20	1.0994
925611	AC1-036 C	0.1990	80/20	0.1990
927261	AC1-222 C	1.2313	80/20	1.2313
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7932	80/20	0.7932
934311	AD1-055 C	0.8549	80/20	0.8549
934615	AD1-087 C	2.7103	80/20	2.7103
934625	AD1-088 C	10.6986	80/20	10.6986
935171	AD1-152 C O1	2.9770	80/20	2.9770

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935221	AD1-157 C	0.2946	80/20	0.2946
936265	AD2-033 C	10.6548	80/20	10.6548
936361	AD2-046 C O1	3.5828	80/20	3.5828
936485	AD2-063 C	10.3014	80/20	10.3014
937481	AD2-202 C O1	0.7939	80/20	0.7939
938371	AE1-056 C	8.0514	80/20	8.0514
938821	AE1-108 C O1	29.3769	80/20	29.3769
939181	AE1-148 C	3.5932	80/20	3.5932
940661	AE2-053 O1	1.3308	80/20	1.3308
941011	AE2-092 C	25.2830	80/20	25.2830
941791	AE2-182 C	1.7381	80/20	1.7381
942451	AE2-258	1.3292	80/20	1.3292
942461	AE2-259 C O1	15.0522	80/20	15.0522
943901	AF1-058 C	0.6646	80/20	0.6646
943911	AF1-059	5.9093	80/20	5.9093
946291	AF1-293 C O1	39.5443	80/20	39.5443
946301	AF1-294 C	4.8845	80/20	4.8845
946591	AF1-323 C	9.4261	80/20	9.4261
958131	AF2-107 C	4.3750	80/20	4.3750
958211	AF2-115 C	2.8733	80/20	2.8733
958801	AF2-171 C	17.1603	80/20	17.1603
959311	AF2-222 C	15.3100	80/20	15.3100
959751	AF2-266	3.1070	80/20	3.1070
960061	AF2-297 C	2.6582	80/20	2.6582
960111	AF2-302 C	3.4277	80/20	3.4277
961061	AF2-397 C	36.6545	80/20	36.6545
961791	AG1-021 C	2.2986	80/20	2.2986
961801	AG1-022 C	3.4277	80/20	3.4277
961891	AG1-030 C	15.8319	80/20	15.8319
962041	AG1-048 C	14.3663	80/20	14.3663
962441	AG1-093 C O1	5.8337	80/20	5.8337
962491	AG1-098 C O1	8.1622	80/20	8.1622
962561	AG1-105 C O1	3.5664	80/20	3.5664
962741	AG1-123 C O1	3.1842	80/20	3.1842
962751	AG1-124 C O1	3.5741	80/20	3.5741
963171	AG1-166 C	2.2986	80/20	2.2986
963181	AG1-167 C	2.2986	80/20	2.2986
963191	AG1-168 C	2.2986	80/20	2.2986
963201	AG1-169 C	2.2986	80/20	2.2986

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	2.2986	80/20	2.2986
963271	AG1-176 C O1	14.5637	80/20	14.5637
963321	AG1-181 C O1	14.0576	80/20	14.0576
963361	AG1-185 O1	6.8014	80/20	6.8014
963641	AG1-215 C	1.0727	80/20	1.0727
964111	AG1-272 C	2.2621	80/20	2.2621
964121	AG1-273 C	2.2621	80/20	2.2621
964131	AG1-274 C	2.2621	80/20	2.2621
964231	AG1-284 C O1	17.0012	80/20	17.0012
964241	AG1-285 C O1	8.1450	80/20	8.1450
964261	AG1-287 C	0.4984	80/20	0.4984
964471	AG1-310 C	0.7118	80/20	0.7118
964791	AG1-342 C	1.8023	80/20	1.8023
964821	AG1-345 C	0.9169	80/20	0.9169
964841	AG1-347 C	9.1358	80/20	9.1358
965191	AG1-384 C	2.2621	80/20	2.2621
965281	AG1-393 C	2.2986	80/20	2.2986
965451	AG1-413 C O1	2.4841	80/20	2.4841
965581	AG1-426	6.4002	80/20	6.4002
965591	AG1-427 C	7.7911	80/20	7.7911
965641	AG1-432 C O1	30.1044	80/20	30.1044
965721	AG1-440 C	2.3620	80/20	2.3620
965731	AG1-441 C	2.3620	80/20	2.3620
965771	AG1-445	1.3647	80/20	1.3647
965781	AG1-446	1.3647	80/20	1.3647
965831	AG1-451	5.0174	80/20	5.0174
966251	AG1-494 C	1.6494	80/20	1.6494
966791	AG1-550 O1	16.4475	80/20	16.4475
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0104	80/20	3.0104
WEC	WEC	0.1988	Confirmed LTF	0.1988
LGEE	LGEE	0.4247	Confirmed LTF	0.4247
CPLE	CPLE	1.0859	Confirmed LTF	1.0859
CBM-W2	CBM-W2	7.3114	Confirmed LTF	7.3114
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.3104	Confirmed LTF	1.3104
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.4907	Confirmed LTF	14.4907
CBM-S1	CBM-S1	0.3374	Confirmed LTF	0.3374

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
MEC	MEC	1.1075	Confirmed LTF	1.1075
LAGN	LAGN	1.5942	Confirmed LTF	1.5942
CBM-W1	CBM-W1	8.3419	Confirmed LTF	8.3419

11.6.10 Index 10

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168385026	314268	6BRIERY	DVP	313802	6PRINCE EDW	DVP	1	DVP_P1-2: LN 556-B	single	571.52	130.37	138.06	DC	43.94

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964841	AG1-347 C	27.5044	80/20	27.5044
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

11.6.11 Index 11

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168687403	314310	6JUDES F	DVP	314322	6MDLTHAN	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.88	106.39	108.21	DC	14.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2807	80/20	0.2807
314333	6POWHATN	1.5975	80/20	1.5975
314429	3JTRSVLE	0.4832	80/20	0.4832
314677	6BUCKING	0.8048	80/20	0.8048
315153	1CLOVER1	4.3193	80/20	4.3193
315154	1CLOVER2	4.2763	80/20	4.2763
315158	1KERR 1	0.1408	80/20	0.1408
315159	1KERR 2	0.3943	80/20	0.3943
315160	1KERR 3	0.3943	80/20	0.3943
315161	1KERR 4	0.3943	80/20	0.3943
315162	1KERR 5	0.3943	80/20	0.3943
315163	1KERR 6	0.3943	80/20	0.3943
315164	1KERR 7	0.3943	80/20	0.3943
315191	1BEARGRDN G1	14.2573	80/20	14.2573
315192	1BEARGRDN G2	14.2573	80/20	14.2573
315193	1BEARGRDN S1	18.4374	80/20	18.4374
315266	1PLYWOOD A	0.4243	80/20	0.4243
316118	AC1-105 C	2.1828	80/20	2.1828
316131	AB2-060 C	0.8395	80/20	0.8395
924301	AB2-077 C O1 (Suspended)	1.0978	80/20	1.0978
924311	AB2-078 C O1 (Suspended)	1.0978	80/20	1.0978
924321	AB2-079 C O1 (Suspended)	1.0978	80/20	1.0978
925611	AC1-036 C	0.1989	80/20	0.1989
927261	AC1-222 C	1.2284	80/20	1.2284
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7929	80/20	0.7929
933501	AC2-165 C	39.2365	80/20	39.2365
934311	AD1-055 C	0.8529	80/20	0.8529
934615	AD1-087 C	2.7046	80/20	2.7046

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
934625	AD1-088 C	10.6886	80/20	10.6886
935171	AD1-152 C O1	2.9707	80/20	2.9707
935221	AD1-157 C	0.2944	80/20	0.2944
936265	AD2-033 C	10.6447	80/20	10.6447
936361	AD2-046 C O1	3.5752	80/20	3.5752
936485	AD2-063 C	10.2897	80/20	10.2897
937481	AD2-202 C O1	0.7922	80/20	0.7922
938371	AE1-056 C	8.0460	80/20	8.0460
938561	AE1-075 C	1.3891	80/20	1.3891
938821	AE1-108 C O1	29.3641	80/20	29.3641
939181	AE1-148 C	3.5861	80/20	3.5861
940661	AE2-053 O1	1.3282	80/20	1.3282
941011	AE2-092 C	25.2714	80/20	25.2714
941791	AE2-182 C	1.7365	80/20	1.7365
942451	AE2-258	1.3272	80/20	1.3272
942461	AE2-259 C O1	15.0438	80/20	15.0438
943901	AF1-058 C	0.6629	80/20	0.6629
943911	AF1-059	5.8955	80/20	5.8955
946291	AF1-293 C O1	39.5291	80/20	39.5291
946301	AF1-294 C	4.8812	80/20	4.8812
946591	AF1-323 C	9.4218	80/20	9.4218
958131	AF2-107 C	4.3708	80/20	4.3708
958211	AF2-115 C	2.8713	80/20	2.8713
958501	AF2-144 C	7.4840	80/20	7.4840
958801	AF2-171 C	17.1486	80/20	17.1486
959311	AF2-222 C	15.2960	80/20	15.2960
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8971	80/20	6.8971
959751	AF2-266	3.1005	80/20	3.1005
960061	AF2-297 C	2.6515	80/20	2.6515
960111	AF2-302 C	3.4261	80/20	3.4261
961061	AF2-397 C	36.6436	80/20	36.6436
961791	AG1-021 C	2.2970	80/20	2.2970
961801	AG1-022 C	3.4261	80/20	3.4261
961891	AG1-030 C	15.8193	80/20	15.8193
962041	AG1-048 C	14.3565	80/20	14.3565
962441	AG1-093 C O1	5.8208	80/20	5.8208
962491	AG1-098 C O1	8.1525	80/20	8.1525
962561	AG1-105 C O1	3.5580	80/20	3.5580

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962741	AG1-123 C O1	3.1784	80/20	3.1784
962751	AG1-124 C O1	3.5658	80/20	3.5658
963171	AG1-166 C	2.2970	80/20	2.2970
963181	AG1-167 C	2.2970	80/20	2.2970
963191	AG1-168 C	2.2970	80/20	2.2970
963201	AG1-169 C	2.2970	80/20	2.2970
963211	AG1-170 C	2.2970	80/20	2.2970
963271	AG1-176 C O1	14.5511	80/20	14.5511
963321	AG1-181 C O1	14.0444	80/20	14.0444
963361	AG1-185 O1	6.7951	80/20	6.7951
963641	AG1-215 C	1.0720	80/20	1.0720
964111	AG1-272 C	2.2600	80/20	2.2600
964121	AG1-273 C	2.2600	80/20	2.2600
964131	AG1-274 C	2.2600	80/20	2.2600
964231	AG1-284 C O1	16.9953	80/20	16.9953
964241	AG1-285 C O1	8.1345	80/20	8.1345
964261	AG1-287 C	0.4972	80/20	0.4972
964471	AG1-310 C	0.7101	80/20	0.7101
964791	AG1-342 C	1.7990	80/20	1.7990
964821	AG1-345 C	0.9162	80/20	0.9162
964841	AG1-347 C	9.1280	80/20	9.1280
965191	AG1-384 C	2.2600	80/20	2.2600
965281	AG1-393 C	2.2970	80/20	2.2970
965451	AG1-413 C O1	2.4782	80/20	2.4782
965581	AG1-426	6.3974	80/20	6.3974
965591	AG1-427 C	7.7812	80/20	7.7812
965641	AG1-432 C O1	30.0876	80/20	30.0876
965721	AG1-440 C	2.3562	80/20	2.3562
965731	AG1-441 C	2.3562	80/20	2.3562
965771	AG1-445	1.3614	80/20	1.3614
965781	AG1-446	1.3614	80/20	1.3614
965831	AG1-451	5.0146	80/20	5.0146
966251	AG1-494 C	1.6466	80/20	1.6466
966791	AG1-550 O1	16.4427	80/20	16.4427
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0088	80/20	3.0088
WEC	WEC	0.1947	Confirmed LTF	0.1947
LGEE	LGEE	0.4166	Confirmed LTF	0.4166
CPL	CPL	1.0770	Confirmed LTF	1.0770

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W2	CBM-W2	7.1949	Confirmed LTF	7.1949
NY	NY	0.3583	Confirmed LTF	0.3583
TVA	TVA	1.2922	Confirmed LTF	1.2922
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.3550	Confirmed LTF	14.3550
CBM-S1	CBM-S1	0.3325	Confirmed LTF	0.3325
MEC	MEC	1.0869	Confirmed LTF	1.0869
LAGN	LAGN	1.5715	Confirmed LTF	1.5715
CBM-W1	CBM-W1	8.1596	Confirmed LTF	8.1596

11.6.12 Index 12

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168687398	314333	6POWHATN	DVP	314310	6JUDES F	DVP	1	DVP_P1-2: LN 2028-B	single	800.88	106.53	108.34	DC	14.55

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2807	80/20	0.2807
314333	6POWHATN	1.5975	80/20	1.5975
314429	3JTRSVLE	0.4832	80/20	0.4832
314677	6BUCKING	0.8048	80/20	0.8048
315153	1CLOVER1	4.3193	80/20	4.3193
315154	1CLOVER2	4.2763	80/20	4.2763
315158	1KERR 1	0.1408	80/20	0.1408
315159	1KERR 2	0.3943	80/20	0.3943
315160	1KERR 3	0.3943	80/20	0.3943
315161	1KERR 4	0.3943	80/20	0.3943
315162	1KERR 5	0.3943	80/20	0.3943
315163	1KERR 6	0.3943	80/20	0.3943
315164	1KERR 7	0.3943	80/20	0.3943
315191	1BEARGRDN G1	14.2573	80/20	14.2573
315192	1BEARGRDN G2	14.2573	80/20	14.2573
315193	1BEARGRDN S1	18.4374	80/20	18.4374
315266	1PLYWOOD A	0.4243	80/20	0.4243
316118	AC1-105 C	2.1828	80/20	2.1828
316131	AB2-060 C	0.8395	80/20	0.8395
924301	AB2-077 C O1 (Suspended)	1.0978	80/20	1.0978
924311	AB2-078 C O1 (Suspended)	1.0978	80/20	1.0978
924321	AB2-079 C O1 (Suspended)	1.0978	80/20	1.0978
925611	AC1-036 C	0.1989	80/20	0.1989
927261	AC1-222 C	1.2284	80/20	1.2284
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7929	80/20	0.7929
933501	AC2-165 C	39.2365	80/20	39.2365
934311	AD1-055 C	0.8529	80/20	0.8529
934615	AD1-087 C	2.7046	80/20	2.7046
934625	AD1-088 C	10.6886	80/20	10.6886

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935171	AD1-152 C O1	2.9707	80/20	2.9707
935221	AD1-157 C	0.2944	80/20	0.2944
936265	AD2-033 C	10.6447	80/20	10.6447
936361	AD2-046 C O1	3.5752	80/20	3.5752
936485	AD2-063 C	10.2897	80/20	10.2897
937481	AD2-202 C O1	0.7922	80/20	0.7922
938371	AE1-056 C	8.0460	80/20	8.0460
938561	AE1-075 C	1.3891	80/20	1.3891
938821	AE1-108 C O1	29.3641	80/20	29.3641
939181	AE1-148 C	3.5861	80/20	3.5861
940661	AE2-053 O1	1.3282	80/20	1.3282
941011	AE2-092 C	25.2714	80/20	25.2714
941791	AE2-182 C	1.7365	80/20	1.7365
942451	AE2-258	1.3272	80/20	1.3272
942461	AE2-259 C O1	15.0438	80/20	15.0438
943901	AF1-058 C	0.6629	80/20	0.6629
943911	AF1-059	5.8955	80/20	5.8955
946291	AF1-293 C O1	39.5291	80/20	39.5291
946301	AF1-294 C	4.8812	80/20	4.8812
946591	AF1-323 C	9.4218	80/20	9.4218
958131	AF2-107 C	4.3708	80/20	4.3708
958211	AF2-115 C	2.8713	80/20	2.8713
958501	AF2-144 C	7.4840	80/20	7.4840
958801	AF2-171 C	17.1486	80/20	17.1486
959311	AF2-222 C	15.2960	80/20	15.2960
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8971	80/20	6.8971
959751	AF2-266	3.1005	80/20	3.1005
960061	AF2-297 C	2.6515	80/20	2.6515
960111	AF2-302 C	3.4261	80/20	3.4261
961061	AF2-397 C	36.6436	80/20	36.6436
961791	AG1-021 C	2.2970	80/20	2.2970
961801	AG1-022 C	3.4261	80/20	3.4261
961891	AG1-030 C	15.8193	80/20	15.8193
962041	AG1-048 C	14.3565	80/20	14.3565
962441	AG1-093 C O1	5.8208	80/20	5.8208
962491	AG1-098 C O1	8.1525	80/20	8.1525
962561	AG1-105 C O1	3.5580	80/20	3.5580
962741	AG1-123 C O1	3.1784	80/20	3.1784

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962751	AG1-124 C O1	3.5658	80/20	3.5658
963171	AG1-166 C	2.2970	80/20	2.2970
963181	AG1-167 C	2.2970	80/20	2.2970
963191	AG1-168 C	2.2970	80/20	2.2970
963201	AG1-169 C	2.2970	80/20	2.2970
963211	AG1-170 C	2.2970	80/20	2.2970
963271	AG1-176 C O1	14.5511	80/20	14.5511
963321	AG1-181 C O1	14.0444	80/20	14.0444
963361	AG1-185 O1	6.7951	80/20	6.7951
963641	AG1-215 C	1.0720	80/20	1.0720
964111	AG1-272 C	2.2600	80/20	2.2600
964121	AG1-273 C	2.2600	80/20	2.2600
964131	AG1-274 C	2.2600	80/20	2.2600
964231	AG1-284 C O1	16.9953	80/20	16.9953
964241	AG1-285 C O1	8.1345	80/20	8.1345
964261	AG1-287 C	0.4972	80/20	0.4972
964471	AG1-310 C	0.7101	80/20	0.7101
964791	AG1-342 C	1.7990	80/20	1.7990
964821	AG1-345 C	0.9162	80/20	0.9162
964841	AG1-347 C	9.1280	80/20	9.1280
965191	AG1-384 C	2.2600	80/20	2.2600
965281	AG1-393 C	2.2970	80/20	2.2970
965451	AG1-413 C O1	2.4782	80/20	2.4782
965581	AG1-426	6.3974	80/20	6.3974
965591	AG1-427 C	7.7812	80/20	7.7812
965641	AG1-432 C O1	30.0876	80/20	30.0876
965721	AG1-440 C	2.3562	80/20	2.3562
965731	AG1-441 C	2.3562	80/20	2.3562
965771	AG1-445	1.3614	80/20	1.3614
965781	AG1-446	1.3614	80/20	1.3614
965831	AG1-451	5.0146	80/20	5.0146
966251	AG1-494 C	1.6466	80/20	1.6466
966791	AG1-550 O1	16.4427	80/20	16.4427
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0088	80/20	3.0088
WEC	WEC	0.1947	Confirmed LTF	0.1947
LGEE	LGEE	0.4166	Confirmed LTF	0.4166
CPLE	CPLE	1.0770	Confirmed LTF	1.0770
CBM-W2	CBM-W2	7.1949	Confirmed LTF	7.1949

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	0.3583	Confirmed LTF	0.3583
TVA	TVA	1.2922	Confirmed LTF	1.2922
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.3550	Confirmed LTF	14.3550
CBM-S1	CBM-S1	0.3325	Confirmed LTF	0.3325
MEC	MEC	1.0869	Confirmed LTF	1.0869
LAGN	LAGN	1.5715	Confirmed LTF	1.5715
CBM-W1	CBM-W1	8.1596	Confirmed LTF	8.1596

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169145771	314686	6CLOVER	DVP	314690	6BLACK WALNU	DVP	1	DVP_P1-2: LN 556-C	single	814.98	120.95	126.52	DC	45.34

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6808	80/20	46.6808
315154	1CLOVER2	46.2156	80/20	46.2156
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934625	AD1-088 C	37.5628	80/20	37.5628
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
938371	AE1-056 C	5.9678	80/20	5.9678
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6406	80/20	6.6406
941791	AE2-182 C	6.1026	80/20	6.1026
942461	AE2-259 C O1	12.7938	80/20	12.7938
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1476	80/20	28.1476
946291	AF1-293 C O1	9.9685	80/20	9.9685
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0540	80/20	201.0540

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7666	80/20	11.7666
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5085	80/20	33.5085
960111	AF2-302 C	0.7429	80/20	0.7429
961061	AF2-397 C	7.7259	80/20	7.7259
961791	AG1-021 C	1.5832	80/20	1.5832
961801	AG1-022 C	0.7429	80/20	0.7429
961891	AG1-030 C	9.9432	80/20	9.9432
962041	AG1-048 C	9.8947	80/20	9.8947
962491	AG1-098 C O1	44.5095	80/20	44.5095
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O1	45.3442	80/20	45.3442
963321	AG1-181 C O1	6.0674	80/20	6.0674
963361	AG1-185 O1	2.9356	80/20	2.9356
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O1	4.1950	80/20	4.1950
964821	AG1-345 C	0.6297	80/20	0.6297
964841	AG1-347 C	28.2369	80/20	28.2369
964931	AG1-357 C	80.4216	80/20	80.4216
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O1	25.5876	80/20	25.5876
965831	AG1-451	4.2646	80/20	4.2646
966791	AG1-550 O1	2.9092	80/20	2.9092
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.5588	80/20	2.5588
G-007A	G-007A	0.4507	Confirmed LTF	0.4507

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7005	Confirmed LTF	0.7005
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

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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
169145767	314690	6BLACK WALNU	DVP	962560	AG1-105 TAP	DVP	1	DVP_P1-2: LN 556-C	single	814.98	129.56	135.13	DC	45.34

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6808	80/20	46.6808
315154	1CLOVER2	46.2156	80/20	46.2156
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934615	AD1-087 C	29.3393	80/20	29.3393
934625	AD1-088 C	37.5628	80/20	37.5628
935171	AD1-152 C O1	32.2262	80/20	32.2262
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
937481	AD2-202 C O1	8.5937	80/20	8.5937
938371	AE1-056 C	5.9678	80/20	5.9678
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6406	80/20	6.6406
941791	AE2-182 C	6.1026	80/20	6.1026
942461	AE2-259 C O1	12.7938	80/20	12.7938
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1476	80/20	28.1476
946291	AF1-293 C O1	9.9685	80/20	9.9685

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0540	80/20	201.0540
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7666	80/20	11.7666
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5085	80/20	33.5085
960111	AF2-302 C	0.7429	80/20	0.7429
961061	AF2-397 C	7.7259	80/20	7.7259
961791	AG1-021 C	1.5832	80/20	1.5832
961801	AG1-022 C	0.7429	80/20	0.7429
961891	AG1-030 C	9.9432	80/20	9.9432
962041	AG1-048 C	9.8947	80/20	9.8947
962491	AG1-098 C O1	44.5095	80/20	44.5095
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O1	45.3442	80/20	45.3442
963321	AG1-181 C O1	6.0674	80/20	6.0674
963361	AG1-185 O1	2.9356	80/20	2.9356
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O1	4.1950	80/20	4.1950
964821	AG1-345 C	0.6297	80/20	0.6297
964841	AG1-347 C	28.2369	80/20	28.2369
964931	AG1-357 C	80.4216	80/20	80.4216
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O1	25.5876	80/20	25.5876
965831	AG1-451	4.2646	80/20	4.2646
966791	AG1-550 O1	2.9092	80/20	2.9092

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.5588	80/20	2.5588
G-007A	G-007A	0.4507	Confirmed LTF	0.4507
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7005	Confirmed LTF	0.7005
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

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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
169145703	314697	6SEDGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-C	single	674.92	161.19	166.53	DC	36.06

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9277	80/20	0.9277
315160	1KERR 3	0.9277	80/20	0.9277
315161	1KERR 4	0.9277	80/20	0.9277
315162	1KERR 5	0.9277	80/20	0.9277
315163	1KERR 6	0.9277	80/20	0.9277
315164	1KERR 7	0.9277	80/20	0.9277
315191	1BEARGRDN G1	3.3141	80/20	3.3141
315192	1BEARGRDN G2	3.3141	80/20	3.3141
315193	1BEARGRDN S1	4.2858	80/20	4.2858
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6956	80/20	14.6956
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	-2.4502	Adder	-2.88
927261	AC1-222 C	10.1051	80/20	10.1051
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3929	80/20	0.3929
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0162	80/20	7.0162
934341	AD1-058 C	-6.1424	Adder	-7.23
934615	AD1-087 C	22.4303	80/20	22.4303
934625	AD1-088 C	29.6903	80/20	29.6903
935171	AD1-152 C O1	24.6374	80/20	24.6374
935221	AD1-157 C	0.3412	80/20	0.3412
936265	AD2-033 C	18.1139	80/20	18.1139
936361	AD2-046 C O1	8.4650	80/20	8.4650
936485	AD2-063 C	20.6649	80/20	20.6649
937481	AD2-202 C O1	6.5700	80/20	6.5700
938371	AE1-056 C	9.3221	80/20	9.3221
938561	AE1-075 C	0.1048	80/20	0.1048
938821	AE1-108 C O1	7.2807	80/20	7.2807
939181	AE1-148 C	8.5007	80/20	8.5007
939941	AE1-230 C	0.7209	80/20	0.7209
940661	AE2-053 O1	3.1484	80/20	3.1484
941011	AE2-092 C	6.3234	80/20	6.3234
941791	AE2-182 C	4.8236	80/20	4.8236
941801	AE2-185 C	3.6043	80/20	3.6043
941821	AE2-187 C	3.6043	80/20	3.6043
942451	AE2-258	3.2048	80/20	3.2048
942461	AE2-259 C O1	14.7132	80/20	14.7132
942671	AE2-283 C	3.9648	80/20	3.9648
942751	AE2-291 C	15.6354	80/20	15.6354
942761	AE2-292 C O1	19.4676	80/20	19.4676
943901	AF1-058 C	5.7308	80/20	5.7308
943911	AF1-059	14.4227	80/20	14.4227
945081	AF1-173	1.3967	80/20	1.3967
945811	AF1-246 C O1	21.5242	80/20	21.5242
946291	AF1-293 C O1	9.4568	80/20	9.4568
946301	AF1-294 C	6.0812	80/20	6.0812
946591	AF1-323 C	2.4073	80/20	2.4073

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957481	AF2-042 C	153.7440	80/20	153.7440
958211	AF2-115 C	3.5772	80/20	3.5772
958501	AF2-144 C	0.5649	80/20	0.5649
958801	AF2-171 C	21.4497	80/20	21.4497
959311	AF2-222 C	23.4030	80/20	23.4030
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5206	80/20	0.5206
959751	AF2-266	25.6235	80/20	25.6235
960061	AF2-297 C	22.9234	80/20	22.9234
960111	AF2-302 C	0.8754	80/20	0.8754
961061	AF2-397 C	7.1206	80/20	7.1206
961121	AF2-403	0.8010	80/20	0.8010
961791	AG1-021 C	2.8618	80/20	2.8618
961801	AG1-022 C	0.8754	80/20	0.8754
961891	AG1-030 C	21.3030	80/20	21.3030
962041	AG1-048 C	17.8860	80/20	17.8860
962441	AG1-093 C O1	39.1883	80/20	39.1883
962491	AG1-098 C O1	34.5765	80/20	34.5765
962561	AG1-105 C O1	31.8432	80/20	31.8432
963171	AG1-166 C	2.8618	80/20	2.8618
963181	AG1-167 C	2.8618	80/20	2.8618
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O1	36.0621	80/20	36.0621
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O1	23.4953	80/20	23.4953
963361	AG1-185 O1	11.3677	80/20	11.3677
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O1	3.9711	80/20	3.9711
964241	AG1-285 C O1	17.1705	80/20	17.1705
964251	AG1-286 C	0.4497	80/20	0.4497

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4655	80/20	22.4655
964931	AG1-357 C	61.4988	80/20	61.4988
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O1	6.0628	80/20	6.0628
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O1	3.1896	80/20	3.1896
965641	AG1-432 C O1	29.4264	80/20	29.4264
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9044	80/20	4.9044
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O1	2.6947	80/20	2.6947
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.9426	80/20	2.9426
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078
TRIMBLE	TRIMBLE	0.7618	Confirmed LTF	0.7618
CATAWBA	CATAWBA	1.6965	Confirmed LTF	1.6965

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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
169364112	314747	6BREMO	DVP	313867	6BREMODIST	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	136.99	140.12	DC	20.72

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1780	80/20	2.1780
313527	AB2-043 C	0.4243	80/20	0.4243
314429	3JTRSVLE	0.6669	80/20	0.6669
314572	3EMPORIA	0.1382	80/20	0.1382
314677	6BUCKING	1.0571	80/20	1.0571
314704	3LAWRENC	0.1410	80/20	0.1410
315126	1ROARAP2	0.4085	80/20	0.4085
315128	1ROARAP4	0.3898	80/20	0.3898
315153	1CLOVER1	7.5116	80/20	7.5116
315154	1CLOVER2	7.4368	80/20	7.4368
315158	1KERR 1	0.2345	80/20	0.2345
315159	1KERR 2	0.6567	80/20	0.6567
315160	1KERR 3	0.6567	80/20	0.6567
315161	1KERR 4	0.6567	80/20	0.6567
315162	1KERR 5	0.6567	80/20	0.6567
315163	1KERR 6	0.6567	80/20	0.6567
315164	1KERR 7	0.6567	80/20	0.6567
315191	1BEARGRDN G1	18.4998	80/20	18.4998
315192	1BEARGRDN G2	18.4998	80/20	18.4998
315193	1BEARGRDN S1	23.9239	80/20	23.9239
315266	1PLYWOOD A	0.6737	80/20	0.6737
316087	AB2-174 C	0.3606	80/20	0.3606
316118	AC1-105 C	3.4200	80/20	3.4200
316123	AC1-075 C	0.3763	80/20	0.3763
316129	AC1-054 C	3.4710	80/20	3.4710
316131	AB2-060 C	1.2610	80/20	1.2610
923991	AB2-040 C O1	2.3720	80/20	2.3720
924301	AB2-077 C O1 (Suspended)	1.6661	80/20	1.6661
924311	AB2-078 C O1 (Suspended)	1.6661	80/20	1.6661

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924321	AB2-079 C O1 (Suspended)	1.6661	80/20	1.6661
925611	AC1-036 C	0.2822	80/20	0.2822
926023	AC1-080 C	0.1258	80/20	0.1258
927251	AC1-221 C	0.7947	80/20	0.7947
927261	AC1-222 C	1.8844	80/20	1.8844
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.0415	80/20	1.0415
932761	AC2-100 C	1.8288	80/20	1.8288
933501	AC2-165 C	34.9923	80/20	34.9923
934311	AD1-055 C	1.3084	80/20	1.3084
934341	AD1-058 C	1.9921	80/20	1.9921
934615	AD1-087 C	4.7030	80/20	4.7030
934625	AD1-088 C	15.3924	80/20	15.3924
934991	AD1-131 C	0.6532	80/20	0.6532
935171	AD1-152 C O1	5.1658	80/20	5.1658
935221	AD1-157 C	0.4035	80/20	0.4035
936265	AD2-033 C	15.2365	80/20	15.2365
936361	AD2-046 C O1	5.8230	80/20	5.8230
936485	AD2-063 C	15.0849	80/20	15.0849
937481	AD2-202 C O1	1.3775	80/20	1.3775
938371	AE1-056 C	11.0262	80/20	11.0262
938821	AE1-108 C O1	11.0132	80/20	11.0132
939181	AE1-148 C	5.8169	80/20	5.8169
940661	AE2-053 O1	2.1544	80/20	2.1544
941791	AE2-182 C	2.5007	80/20	2.5007
942451	AE2-258	2.0064	80/20	2.0064
942461	AE2-259 C O1	20.3100	80/20	20.3100
942751	AE2-291 C	3.2791	80/20	3.2791
942761	AE2-292 C O1	4.0828	80/20	4.0828
943901	AF1-058 C	1.0548	80/20	1.0548
943911	AF1-059	10.2781	80/20	10.2781
945811	AF1-246 C O1	3.6616	80/20	3.6616
946281	AF1-292 C	0.4969	80/20	0.4969
946291	AF1-293 C O1	6.2287	80/20	6.2287
946301	AF1-294 C	6.7368	80/20	6.7368
946591	AF1-323 C	3.5356	80/20	3.5356
957481	AF2-042 C	26.1540	80/20	26.1540
958131	AF2-107 C	1.6496	80/20	1.6496
958211	AF2-115 C	3.9629	80/20	3.9629

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958801	AF2-171 C	23.6781	80/20	23.6781
959311	AF2-222 C	21.6010	80/20	21.6010
959751	AF2-266	5.3920	80/20	5.3920
960061	AF2-297 C	4.2192	80/20	4.2192
960081	AF2-299 C	0.8375	80/20	0.8375
960111	AF2-302 C	1.2857	80/20	1.2857
961791	AG1-021 C	3.1703	80/20	3.1703
961801	AG1-022 C	1.2857	80/20	1.2857
961891	AG1-030 C	22.0131	80/20	22.0131
962041	AG1-048 C	19.8142	80/20	19.8142
962441	AG1-093 C O1	9.1200	80/20	9.1200
962491	AG1-098 C O1	12.3900	80/20	12.3900
962561	AG1-105 C O1	6.1674	80/20	6.1674
963171	AG1-166 C	3.1703	80/20	3.1703
963181	AG1-167 C	3.1703	80/20	3.1703
963191	AG1-168 C	3.1703	80/20	3.1703
963201	AG1-169 C	3.1703	80/20	3.1703
963211	AG1-170 C	3.1703	80/20	3.1703
963271	AG1-176 C O1	20.7171	80/20	20.7171
963301	AG1-179 C	2.9803	80/20	2.9803
963311	AG1-180	1.4521	80/20	1.4521
963321	AG1-181 C O1	20.0593	80/20	20.0593
963361	AG1-185 O1	9.7052	80/20	9.7052
963641	AG1-215 C	1.4795	80/20	1.4795
964111	AG1-272 C	3.2072	80/20	3.2072
964121	AG1-273 C	3.2072	80/20	3.2072
964131	AG1-274 C	3.2072	80/20	3.2072
964231	AG1-284 C O1	2.9513	80/20	2.9513
964241	AG1-285 C O1	12.0195	80/20	12.0195
964261	AG1-287 C	0.7911	80/20	0.7911
964471	AG1-310 C	1.0720	80/20	1.0720
964791	AG1-342 C	2.7843	80/20	2.7843
964821	AG1-345 C	1.2648	80/20	1.2648
964841	AG1-347 C	12.9875	80/20	12.9875
964931	AG1-357 C	8.6556	80/20	8.6556
965191	AG1-384 C	3.2072	80/20	3.2072
965281	AG1-393 C	3.1703	80/20	3.1703
965451	AG1-413 C O1	4.3205	80/20	4.3205
965581	AG1-426	2.3994	80/20	2.3994

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	11.4819	80/20	11.4819
965601	AG1-428 C O1	2.4880	80/20	2.4880
965641	AG1-432 C O1	40.6200	80/20	40.6200
965721	AG1-440 C	4.1121	80/20	4.1121
965731	AG1-441 C	4.1121	80/20	4.1121
965771	AG1-445	2.3759	80/20	2.3759
965781	AG1-446	2.3759	80/20	2.3759
965831	AG1-451	6.7700	80/20	6.7700
966361	AG1-505 C	4.9734	80/20	4.9734
966371	AG1-506 C	4.9734	80/20	4.9734
966621	AG1-532 C	0.4522	80/20	0.4522
966691	AG1-539 C	1.7146	80/20	1.7146
966751	AG1-546 C	7.3410	80/20	7.3410
966811	AG1-552 C	0.6485	80/20	0.6485
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	4.0620	80/20	4.0620
WEC	WEC	0.0699	Confirmed LTF	0.0699
LGEE	LGEE	0.1483	Confirmed LTF	0.1483
CPL	CPL	2.3396	Confirmed LTF	2.3396
CBM-W2	CBM-W2	5.8061	Confirmed LTF	5.8061
NY	NY	0.4076	Confirmed LTF	0.4076
TVA	TVA	1.2558	Confirmed LTF	1.2558
SIGE	SIGE	0.1120	Confirmed LTF	0.1120
CBM-S2	CBM-S2	25.9121	Confirmed LTF	25.9121
CBM-S1	CBM-S1	0.2953	Confirmed LTF	0.2953
MEC	MEC	0.5863	Confirmed LTF	0.5863
LAGN	LAGN	1.5645	Confirmed LTF	1.5645
AA2-074	AA2-074	1.5426	LTF	1.5426
CBM-W1	CBM-W1	2.5236	Confirmed LTF	2.5236

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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
169364129	314747	6BREMO	DVP	314744	3BREMO	DVP	1	DVP_P1-2: LN 2193	single	269.78	126.94	130.42	DC	9.38

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.1964	80/20	0.1964
314333	6POWHATN	0.2978	80/20	0.2978
314429	3JTRSVLE	0.2939	80/20	0.2939
314677	6BUCKING	0.4512	80/20	0.4512
315153	1CLOVER1	3.8255	80/20	3.8255
315154	1CLOVER2	3.7873	80/20	3.7873
315191	1BEARGRDN G1	7.8222	80/20	7.8222
315192	1BEARGRDN G2	7.8222	80/20	7.8222
315193	1BEARGRDN S1	10.1156	80/20	10.1156
316131	AB2-060 C	0.5816	80/20	0.5816
924301	AB2-077 C O1 (Suspended)	0.7721	80/20	0.7721
924311	AB2-078 C O1 (Suspended)	0.7721	80/20	0.7721
924321	AB2-079 C O1 (Suspended)	0.7721	80/20	0.7721
925611	AC1-036 C	0.1263	80/20	0.1263
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4445	80/20	0.4445
932854	AC2-112 C	-5.0776	Adder	-5.97
933501	AC2-165 C	9.0146	80/20	9.0146
934615	AD1-087 C	2.3943	80/20	2.3943
934625	AD1-088 C	7.0229	80/20	7.0229
935171	AD1-152 C O1	2.6299	80/20	2.6299
935221	AD1-157 C	0.1771	80/20	0.1771
936265	AD2-033 C	6.8523	80/20	6.8523
936361	AD2-046 C O1	2.8074	80/20	2.8074
936485	AD2-063 C	6.8715	80/20	6.8715
937481	AD2-202 C O1	0.7013	80/20	0.7013
938371	AE1-056 C	4.8384	80/20	4.8384
938561	AE1-075 C	0.2589	80/20	0.2589
939181	AE1-148 C	2.7983	80/20	2.7983
940661	AE2-053 O1	1.0364	80/20	1.0364

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941791	AE2-182 C	1.1410	80/20	1.1410
942451	AE2-258	0.9286	80/20	0.9286
942461	AE2-259 C O1	8.8338	80/20	8.8338
943911	AF1-059	5.2100	80/20	5.2100
946301	AF1-294 C	2.9685	80/20	2.9685
957911	AF2-085	1.1020	80/20	1.1020
958211	AF2-115 C	1.7462	80/20	1.7462
958501	AF2-144 C	1.3951	80/20	1.3951
958801	AF2-171 C	10.4355	80/20	10.4355
959311	AF2-222 C	9.6430	80/20	9.6430
959531	AF2-244 C (Withdrawn : 01/06/2021)	1.2856	80/20	1.2856
959751	AF2-266	2.7460	80/20	2.7460
961791	AG1-021 C	1.3969	80/20	1.3969
961891	AG1-030 C	9.7452	80/20	9.7452
962041	AG1-048 C	8.7308	80/20	8.7308
962491	AG1-098 C O1	5.8538	80/20	5.8538
962561	AG1-105 C O1	3.1146	80/20	3.1146
963171	AG1-166 C	1.3969	80/20	1.3969
963181	AG1-167 C	1.3969	80/20	1.3969
963191	AG1-168 C	1.3969	80/20	1.3969
963201	AG1-169 C	1.3969	80/20	1.3969
963211	AG1-170 C	1.3969	80/20	1.3969
963271	AG1-176 C O1	9.3799	80/20	9.3799
963321	AG1-181 C O1	9.0112	80/20	9.0112
963361	AG1-185 O1	4.3598	80/20	4.3598
963641	AG1-215 C	0.6519	80/20	0.6519
964111	AG1-272 C	1.4356	80/20	1.4356
964121	AG1-273 C	1.4356	80/20	1.4356
964131	AG1-274 C	1.4356	80/20	1.4356
964241	AG1-285 C O1	5.4983	80/20	5.4983
964791	AG1-342 C	1.2713	80/20	1.2713
964821	AG1-345 C	0.5574	80/20	0.5574
964841	AG1-347 C	5.8772	80/20	5.8772
965191	AG1-384 C	1.4356	80/20	1.4356
965281	AG1-393 C	1.3969	80/20	1.3969
965451	AG1-413 C O1	2.1901	80/20	2.1901
965591	AG1-427 C	5.2486	80/20	5.2486
965641	AG1-432 C O1	17.6676	80/20	17.6676

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965831	AG1-451	2.9446	80/20	2.9446
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	1.7668	80/20	1.7668
CPLE	CPLE	1.1821	Confirmed LTF	1.1821
NY	NY	0.0879	Confirmed LTF	0.0879
PRAIRIE	PRAIRIE	0.5734	Confirmed LTF	0.5734
CBM-S2	CBM-S2	10.8576	Confirmed LTF	10.8576
GIBSON	GIBSON	0.1900	Confirmed LTF	0.1900
BLUEG	BLUEG	0.6562	Confirmed LTF	0.6562
TRIMBLE	TRIMBLE	0.2137	Confirmed LTF	0.2137
LAGN	LAGN	0.0263	Confirmed LTF	0.0263

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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
169364102	314765	6MTEAGLE	DVP	314749	6CHARLVL	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	137.5	140.35	DC	18.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1286	80/20	0.1286
315153	1CLOVER1	6.8555	80/20	6.8555
315154	1CLOVER2	6.7871	80/20	6.7871
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6056	80/20	0.6056
315160	1KERR 3	0.6056	80/20	0.6056
315161	1KERR 4	0.6056	80/20	0.6056
315162	1KERR 5	0.6056	80/20	0.6056
315163	1KERR 6	0.6056	80/20	0.6056
315164	1KERR 7	0.6056	80/20	0.6056
315191	1BEARGRDN G1	16.8015	80/20	16.8015
315192	1BEARGRDN G2	16.8015	80/20	16.8015
315193	1BEARGRDN S1	21.7276	80/20	21.7276
315266	1PLYWOOD A	0.6337	80/20	0.6337
316118	AC1-105 C	3.2095	80/20	3.2095
316123	AC1-075 C	0.3995	80/20	0.3995
316129	AC1-054 C	3.1893	80/20	3.1893
316131	AB2-060 C	1.1579	80/20	1.1579
924301	AB2-077 C O1 (Suspended)	1.5318	80/20	1.5318
924311	AB2-078 C O1 (Suspended)	1.5318	80/20	1.5318
924321	AB2-079 C O1 (Suspended)	1.5318	80/20	1.5318
925611	AC1-036 C	0.2579	80/20	0.2579
926023	AC1-080 C	0.1335	80/20	0.1335
926451	AC1-116 C	0.5713	80/20	0.5713
927251	AC1-221 C	0.7553	80/20	0.7553

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
927261	AC1-222 C	1.8201	80/20	1.8201
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9462	80/20	0.9462
932761	AC2-100 C	1.7381	80/20	1.7381
933501	AC2-165 C	31.7798	80/20	31.7798
934311	AD1-055 C	1.2637	80/20	1.2637
934341	AD1-058 C	1.8933	80/20	1.8933
934615	AD1-087 C	4.2927	80/20	4.2927
934625	AD1-088 C	14.0087	80/20	14.0087
934991	AD1-131 C	0.6208	80/20	0.6208
935171	AD1-152 C O1	4.7150	80/20	4.7150
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9363	80/20	13.9363
936361	AD2-046 C O1	5.3660	80/20	5.3660
936485	AD2-063 C	13.8249	80/20	13.8249
937481	AD2-202 C O1	1.2573	80/20	1.2573
938371	AE1-056 C	10.0469	80/20	10.0469
938821	AE1-108 C O1	34.7022	80/20	34.7022
939181	AE1-148 C	5.3595	80/20	5.3595
940661	AE2-053 O1	1.9850	80/20	1.9850
941011	AE2-092 C	28.7092	80/20	28.7092
941791	AE2-182 C	2.2759	80/20	2.2759
942451	AE2-258	1.8436	80/20	1.8436
942461	AE2-259 C O1	18.4818	80/20	18.4818
942751	AE2-291 C	3.6916	80/20	3.6916
942761	AE2-292 C O1	4.5964	80/20	4.5964
943901	AF1-058 C	0.9986	80/20	0.9986
943911	AF1-059	9.4111	80/20	9.4111
945811	AF1-246 C O1	3.3281	80/20	3.3281
946281	AF1-292 C	0.4501	80/20	0.4501
946291	AF1-293 C O1	46.3226	80/20	46.3226
946301	AF1-294 C	6.1424	80/20	6.1424
946591	AF1-323 C	11.1045	80/20	11.1045
957481	AF2-042 C	23.7720	80/20	23.7720
958131	AF2-107 C	5.0062	80/20	5.0062
958211	AF2-115 C	3.6132	80/20	3.6132
958801	AF2-171 C	21.5901	80/20	21.5901
959311	AF2-222 C	19.7350	80/20	19.7350
959751	AF2-266	4.9210	80/20	4.9210

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960061	AF2-297 C	3.9946	80/20	3.9946
960081	AF2-299 C	0.7586	80/20	0.7586
960111	AF2-302 C	4.0380	80/20	4.0380
961061	AF2-397 C	49.3795	80/20	49.3795
961791	AG1-021 C	2.8906	80/20	2.8906
961801	AG1-022 C	4.0380	80/20	4.0380
961891	AG1-030 C	20.0853	80/20	20.0853
962041	AG1-048 C	18.0660	80/20	18.0660
962441	AG1-093 C O1	8.5588	80/20	8.5588
962491	AG1-098 C O1	11.2860	80/20	11.2860
962561	AG1-105 C O1	5.6484	80/20	5.6484
962741	AG1-123 C O1	3.4609	80/20	3.4609
962751	AG1-124 C O1	3.7955	80/20	3.7955
963171	AG1-166 C	2.8906	80/20	2.8906
963181	AG1-167 C	2.8906	80/20	2.8906
963191	AG1-168 C	2.8906	80/20	2.8906
963201	AG1-169 C	2.8906	80/20	2.8906
963211	AG1-170 C	2.8906	80/20	2.8906
963271	AG1-176 C O1	18.8522	80/20	18.8522
963301	AG1-179 C	2.7231	80/20	2.7231
963311	AG1-180	1.3268	80/20	1.3268
963321	AG1-181 C O1	18.3438	80/20	18.3438
963361	AG1-185 O1	8.8752	80/20	8.8752
963641	AG1-215 C	1.3489	80/20	1.3489
964111	AG1-272 C	2.9313	80/20	2.9313
964121	AG1-273 C	2.9313	80/20	2.9313
964131	AG1-274 C	2.9313	80/20	2.9313
964231	AG1-284 C O1	20.2247	80/20	20.2247
964241	AG1-285 C O1	11.0228	80/20	11.0228
964261	AG1-287 C	0.7490	80/20	0.7490
964471	AG1-310 C	1.0445	80/20	1.0445
964791	AG1-342 C	2.5943	80/20	2.5943
964821	AG1-345 C	1.1533	80/20	1.1533
964841	AG1-347 C	11.8182	80/20	11.8182
964931	AG1-357 C	7.8312	80/20	7.8312
965191	AG1-384 C	2.9313	80/20	2.9313
965281	AG1-393 C	2.8906	80/20	2.8906
965451	AG1-413 C O1	3.9561	80/20	3.9561
965581	AG1-426	7.5604	80/20	7.5604

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	10.5285	80/20	10.5285
965601	AG1-428 C O1	2.2733	80/20	2.2733
965641	AG1-432 C O1	36.9636	80/20	36.9636
965721	AG1-440 C	3.7881	80/20	3.7881
965731	AG1-441 C	3.7881	80/20	3.7881
965771	AG1-445	2.1887	80/20	2.1887
965781	AG1-446	2.1887	80/20	2.1887
965831	AG1-451	6.1606	80/20	6.1606
966251	AG1-494 C	1.8190	80/20	1.8190
966621	AG1-532 C	0.4096	80/20	0.4096
966691	AG1-539 C	1.9302	80/20	1.9302
966751	AG1-546 C	6.7407	80/20	6.7407
966791	AG1-550 O1	24.3684	80/20	24.3684
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6964	80/20	3.6964
WEC	WEC	0.1332	Confirmed LTF	0.1332
LGEE	LGEE	0.2859	Confirmed LTF	0.2859
CPL	CPL	2.2666	Confirmed LTF	2.2666
CBM-W2	CBM-W2	7.4995	Confirmed LTF	7.4995
NY	NY	0.4413	Confirmed LTF	0.4413
TVA	TVA	1.5190	Confirmed LTF	1.5190
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.1835	Confirmed LTF	26.1835
CBM-S1	CBM-S1	0.3690	Confirmed LTF	0.3690
MEC	MEC	0.9010	Confirmed LTF	0.9010
LAGN	LAGN	1.8743	Confirmed LTF	1.8743
AA2-074	AA2-074	1.4958	LTF	1.4958
CBM-W1	CBM-W1	5.2575	Confirmed LTF	5.2575

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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
163592755	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-C	single	718.0	163.49	168.51	DC	36.06

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9277	80/20	0.9277
315160	1KERR 3	0.9277	80/20	0.9277
315161	1KERR 4	0.9277	80/20	0.9277
315162	1KERR 5	0.9277	80/20	0.9277
315163	1KERR 6	0.9277	80/20	0.9277
315164	1KERR 7	0.9277	80/20	0.9277
315191	1BEARGRDN G1	3.3141	80/20	3.3141
315192	1BEARGRDN G2	3.3141	80/20	3.3141
315193	1BEARGRDN S1	4.2858	80/20	4.2858
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6956	80/20	14.6956
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	11.7174	80/20	11.7174
927261	AC1-222 C	10.1051	80/20	10.1051
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3929	80/20	0.3929
932761	AC2-100 C	26.9660	80/20	26.9660
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0162	80/20	7.0162
934341	AD1-058 C	29.3737	80/20	29.3737
934615	AD1-087 C	22.4303	80/20	22.4303
934625	AD1-088 C	29.6903	80/20	29.6903
934991	AD1-131 C	9.6307	80/20	9.6307
935171	AD1-152 C O1	24.6374	80/20	24.6374
935221	AD1-157 C	0.3412	80/20	0.3412
936265	AD2-033 C	18.1139	80/20	18.1139
936361	AD2-046 C O1	8.4650	80/20	8.4650
936485	AD2-063 C	20.6649	80/20	20.6649
937481	AD2-202 C O1	6.5700	80/20	6.5700
938371	AE1-056 C	9.3221	80/20	9.3221
938561	AE1-075 C	0.1048	80/20	0.1048
938821	AE1-108 C O1	7.2807	80/20	7.2807
939181	AE1-148 C	8.5007	80/20	8.5007
939941	AE1-230 C	0.7209	80/20	0.7209
940661	AE2-053 O1	3.1484	80/20	3.1484
941011	AE2-092 C	6.3234	80/20	6.3234
941791	AE2-182 C	4.8236	80/20	4.8236
941801	AE2-185 C	3.6043	80/20	3.6043
941821	AE2-187 C	3.6043	80/20	3.6043
942451	AE2-258	3.2048	80/20	3.2048
942461	AE2-259 C O1	14.7132	80/20	14.7132
942671	AE2-283 C	3.9648	80/20	3.9648
942751	AE2-291 C	15.6354	80/20	15.6354
942761	AE2-292 C O1	19.4676	80/20	19.4676
943901	AF1-058 C	5.7308	80/20	5.7308
943911	AF1-059	14.4227	80/20	14.4227
945081	AF1-173	1.3967	80/20	1.3967
945811	AF1-246 C O1	21.5242	80/20	21.5242
946291	AF1-293 C O1	9.4568	80/20	9.4568

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946301	AF1-294 C	6.0812	80/20	6.0812
946591	AF1-323 C	2.4073	80/20	2.4073
957481	AF2-042 C	153.7440	80/20	153.7440
958211	AF2-115 C	3.5772	80/20	3.5772
958501	AF2-144 C	0.5649	80/20	0.5649
958801	AF2-171 C	21.4497	80/20	21.4497
959311	AF2-222 C	23.4030	80/20	23.4030
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5206	80/20	0.5206
959751	AF2-266	25.6235	80/20	25.6235
960061	AF2-297 C	22.9234	80/20	22.9234
960111	AF2-302 C	0.8754	80/20	0.8754
961061	AF2-397 C	7.1206	80/20	7.1206
961121	AF2-403	0.8010	80/20	0.8010
961791	AG1-021 C	2.8618	80/20	2.8618
961801	AG1-022 C	0.8754	80/20	0.8754
961891	AG1-030 C	21.3030	80/20	21.3030
962041	AG1-048 C	17.8860	80/20	17.8860
962441	AG1-093 C O1	39.1883	80/20	39.1883
962491	AG1-098 C O1	34.5765	80/20	34.5765
962561	AG1-105 C O1	31.8432	80/20	31.8432
963171	AG1-166 C	2.8618	80/20	2.8618
963181	AG1-167 C	2.8618	80/20	2.8618
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O1	36.0621	80/20	36.0621
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O1	23.4953	80/20	23.4953
963361	AG1-185 O1	11.3677	80/20	11.3677
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O1	3.9711	80/20	3.9711

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964241	AG1-285 C O1	17.1705	80/20	17.1705
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4655	80/20	22.4655
964931	AG1-357 C	61.4988	80/20	61.4988
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O1	6.0628	80/20	6.0628
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O1	3.1896	80/20	3.1896
965641	AG1-432 C O1	29.4264	80/20	29.4264
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9044	80/20	4.9044
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O1	2.6947	80/20	2.6947
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.9426	80/20	2.9426
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078
TRIMBLE	TRIMBLE	0.7618	Confirmed LTF	0.7618
CATAWBA	CATAWBA	1.6965	Confirmed LTF	1.6965

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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
169608159	933500	AC2-165 TAP	DVP	314333	6POWHATN	DVP	1	314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	single	800.88	105.43	107.25	DC	14.56

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2811	80/20	0.2811
314429	3JTRSVLE	0.4835	80/20	0.4835
314677	6BUCKING	0.8051	80/20	0.8051
315153	1CLOVER1	4.3284	80/20	4.3284
315154	1CLOVER2	4.2852	80/20	4.2852
315158	1KERR 1	0.1411	80/20	0.1411
315159	1KERR 2	0.3952	80/20	0.3952
315160	1KERR 3	0.3952	80/20	0.3952
315161	1KERR 4	0.3952	80/20	0.3952
315162	1KERR 5	0.3952	80/20	0.3952
315163	1KERR 6	0.3952	80/20	0.3952
315164	1KERR 7	0.3952	80/20	0.3952
315191	1BEARGRDN G1	14.2615	80/20	14.2615
315192	1BEARGRDN G2	14.2615	80/20	14.2615
315193	1BEARGRDN S1	18.4429	80/20	18.4429
315266	1PLYWOOD A	0.4253	80/20	0.4253
316118	AC1-105 C	2.1876	80/20	2.1876
316131	AB2-060 C	0.8407	80/20	0.8407
924301	AB2-077 C O1 (Suspended)	1.0994	80/20	1.0994
924311	AB2-078 C O1 (Suspended)	1.0994	80/20	1.0994
924321	AB2-079 C O1 (Suspended)	1.0994	80/20	1.0994
925611	AC1-036 C	0.1990	80/20	0.1990
927261	AC1-222 C	1.2313	80/20	1.2313
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7932	80/20	0.7932
933501	AC2-165 C	39.2445	80/20	39.2445
934311	AD1-055 C	0.8549	80/20	0.8549
934615	AD1-087 C	2.7103	80/20	2.7103
934625	AD1-088 C	10.6986	80/20	10.6986

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935171	AD1-152 C O1	2.9770	80/20	2.9770
935221	AD1-157 C	0.2946	80/20	0.2946
936265	AD2-033 C	10.6548	80/20	10.6548
936361	AD2-046 C O1	3.5828	80/20	3.5828
936485	AD2-063 C	10.3014	80/20	10.3014
937481	AD2-202 C O1	0.7939	80/20	0.7939
938371	AE1-056 C	8.0514	80/20	8.0514
938821	AE1-108 C O1	29.3769	80/20	29.3769
939181	AE1-148 C	3.5932	80/20	3.5932
940661	AE2-053 O1	1.3308	80/20	1.3308
941011	AE2-092 C	25.2830	80/20	25.2830
941791	AE2-182 C	1.7381	80/20	1.7381
942451	AE2-258	1.3292	80/20	1.3292
942461	AE2-259 C O1	15.0522	80/20	15.0522
943901	AF1-058 C	0.6646	80/20	0.6646
943911	AF1-059	5.9093	80/20	5.9093
946291	AF1-293 C O1	39.5443	80/20	39.5443
946301	AF1-294 C	4.8845	80/20	4.8845
946591	AF1-323 C	9.4261	80/20	9.4261
958131	AF2-107 C	4.3750	80/20	4.3750
958211	AF2-115 C	2.8733	80/20	2.8733
958801	AF2-171 C	17.1603	80/20	17.1603
959311	AF2-222 C	15.3100	80/20	15.3100
959751	AF2-266	3.1070	80/20	3.1070
960061	AF2-297 C	2.6582	80/20	2.6582
960111	AF2-302 C	3.4277	80/20	3.4277
961061	AF2-397 C	36.6545	80/20	36.6545
961791	AG1-021 C	2.2986	80/20	2.2986
961801	AG1-022 C	3.4277	80/20	3.4277
961891	AG1-030 C	15.8319	80/20	15.8319
962041	AG1-048 C	14.3663	80/20	14.3663
962441	AG1-093 C O1	5.8337	80/20	5.8337
962491	AG1-098 C O1	8.1622	80/20	8.1622
962561	AG1-105 C O1	3.5664	80/20	3.5664
962741	AG1-123 C O1	3.1842	80/20	3.1842
962751	AG1-124 C O1	3.5741	80/20	3.5741
963171	AG1-166 C	2.2986	80/20	2.2986
963181	AG1-167 C	2.2986	80/20	2.2986
963191	AG1-168 C	2.2986	80/20	2.2986

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963201	AG1-169 C	2.2986	80/20	2.2986
963211	AG1-170 C	2.2986	80/20	2.2986
963271	AG1-176 C O1	14.5637	80/20	14.5637
963321	AG1-181 C O1	14.0576	80/20	14.0576
963361	AG1-185 O1	6.8014	80/20	6.8014
963641	AG1-215 C	1.0727	80/20	1.0727
964111	AG1-272 C	2.2621	80/20	2.2621
964121	AG1-273 C	2.2621	80/20	2.2621
964131	AG1-274 C	2.2621	80/20	2.2621
964231	AG1-284 C O1	17.0012	80/20	17.0012
964241	AG1-285 C O1	8.1450	80/20	8.1450
964261	AG1-287 C	0.4984	80/20	0.4984
964471	AG1-310 C	0.7118	80/20	0.7118
964791	AG1-342 C	1.8023	80/20	1.8023
964821	AG1-345 C	0.9169	80/20	0.9169
964841	AG1-347 C	9.1358	80/20	9.1358
965191	AG1-384 C	2.2621	80/20	2.2621
965281	AG1-393 C	2.2986	80/20	2.2986
965451	AG1-413 C O1	2.4841	80/20	2.4841
965581	AG1-426	6.4002	80/20	6.4002
965591	AG1-427 C	7.7911	80/20	7.7911
965641	AG1-432 C O1	30.1044	80/20	30.1044
965721	AG1-440 C	2.3620	80/20	2.3620
965731	AG1-441 C	2.3620	80/20	2.3620
965771	AG1-445	1.3647	80/20	1.3647
965781	AG1-446	1.3647	80/20	1.3647
965831	AG1-451	5.0174	80/20	5.0174
966251	AG1-494 C	1.6494	80/20	1.6494
966791	AG1-550 O1	16.4475	80/20	16.4475
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.0104	80/20	3.0104
WEC	WEC	0.1988	Confirmed LTF	0.1988
LGEE	LGEE	0.4247	Confirmed LTF	0.4247
CPL	CPL	1.0859	Confirmed LTF	1.0859
CBM-W2	CBM-W2	7.3114	Confirmed LTF	7.3114
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.3104	Confirmed LTF	1.3104
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.4907	Confirmed LTF	14.4907

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-S1	CBM-S1	0.3374	Confirmed LTF	0.3374
MEC	MEC	1.1075	Confirmed LTF	1.1075
LAGN	LAGN	1.5942	Confirmed LTF	1.5942
CBM-W1	CBM-W1	8.3419	Confirmed LTF	8.3419

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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
169907390	961060	AF2-397 TAP	DVP	966790	AG1-550 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	141.07	143.92	DC	18.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0108	80/20	14.0108
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9386	80/20	13.9386
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8276	80/20	13.8276
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0480	80/20	10.0480
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2763	80/20	2.2763
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4836	80/20	18.4836
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9989	80/20	0.9989
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1432	80/20	6.1432
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6137	80/20	3.6137
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7380	80/20	19.7380
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9955	80/20	3.9955

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961061	AF2-397 C	49.3810	80/20	49.3810
961791	AG1-021 C	2.8909	80/20	2.8909
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0682	80/20	18.0682
962441	AG1-093 C O1	8.5606	80/20	8.5606
962491	AG1-098 C O1	11.2875	80/20	11.2875
962561	AG1-105 C O1	5.6502	80/20	5.6502
962741	AG1-123 C O1	3.4622	80/20	3.4622
962751	AG1-124 C O1	3.7973	80/20	3.7973
963171	AG1-166 C	2.8909	80/20	2.8909
963181	AG1-167 C	2.8909	80/20	2.8909
963191	AG1-168 C	2.8909	80/20	2.8909
963201	AG1-169 C	2.8909	80/20	2.8909
963211	AG1-170 C	2.8909	80/20	2.8909
963271	AG1-176 C O1	18.8540	80/20	18.8540
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O1	18.3458	80/20	18.3458
963361	AG1-185 O1	8.8762	80/20	8.8762
963641	AG1-215 C	1.3491	80/20	1.3491
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O1	20.2255	80/20	20.2255
964241	AG1-285 C O1	11.0250	80/20	11.0250
964261	AG1-287 C	0.7492	80/20	0.7492
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8194	80/20	11.8194
964931	AG1-357 C	7.8348	80/20	7.8348
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8909	80/20	2.8909
965451	AG1-413 C O1	3.9569	80/20	3.9569
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965601	AG1-428 C O1	2.2741	80/20	2.2741
965641	AG1-432 C O1	36.9672	80/20	36.9672
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1612	80/20	6.1612
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6967	80/20	3.6967
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPL	CPL	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

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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
163173640	962490	AG1-098 TAP	DVP	314686	6CLOVER	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	100.89	119.57	DC	130.64

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5789	50/50	0.5789
313853	3PONTONDP	1.8407	50/50	1.8407
314429	3JTRSVLE	1.1616	50/50	1.1616
314677	6BUCKING	1.6095	50/50	1.6095
314713	3PAMPLIN	4.9032	50/50	4.9032
315161	1KERR 4	0.7452	50/50	0.7452
315162	1KERR 5	0.7452	50/50	0.7452
315163	1KERR 6	0.7452	50/50	0.7452
315164	1KERR 7	0.7452	50/50	0.7452
316131	AB2-060 C	1.7524	50/50	1.7524
924022	AB2-043 E O1	3.2808	50/50	3.2808
924032	AB2-045 E	4.7608	50/50	4.7608
924162	AB2-060 E OP	5.2270	50/50	5.2270
924301	AB2-077 C O1 (Suspended)	2.2313	50/50	2.2313
924302	AB2-077 E O1 (Suspended)	1.4875	50/50	1.4875
924311	AB2-078 C O1 (Suspended)	2.2313	50/50	2.2313
924312	AB2-078 E O1 (Suspended)	1.4875	50/50	1.4875
924321	AB2-079 C O1 (Suspended)	2.2313	50/50	2.2313
924322	AB2-079 E O1 (Suspended)	1.4875	50/50	1.4875
925611	AC1-036 C	0.4580	50/50	0.4580
925612	AC1-036 E	1.7382	50/50	1.7382
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0631	50/50	5.0631
934625	AD1-088 C	63.1640	50/50	63.1640
934626	AD1-088 E	16.5430	50/50	16.5430
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0229	50/50	3.0229

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936265	AD2-033 C	24.1714	50/50	24.1714
936266	AD2-033 E	16.1143	50/50	16.1143
936361	AD2-046 C O1	6.9048	50/50	6.9048
936362	AD2-046 E O1	3.1752	50/50	3.1752
936485	AD2-063 C	22.4433	50/50	22.4433
936486	AD2-063 E	14.9622	50/50	14.9622
938371	AE1-056 C	19.5482	50/50	19.5482
938372	AE1-056 E	10.6810	50/50	10.6810
939181	AE1-148 C	6.9525	50/50	6.9525
939182	AE1-148 E	4.6350	50/50	4.6350
940661	AE2-053 O1	2.5750	50/50	2.5750
941791	AE2-182 C	10.2619	50/50	10.2619
941792	AE2-182 E	4.7771	50/50	4.7771
942451	AE2-258	2.7372	50/50	2.7372
942461	AE2-259 C O1	37.3440	50/50	37.3440
942462	AE2-259 E O1	24.8960	50/50	24.8960
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7343	50/50	11.7343
946302	AF1-294 E	7.8229	50/50	7.8229
958211	AF2-115 C	6.9026	50/50	6.9026
958212	AF2-115 E	4.6017	50/50	4.6017
958801	AF2-171 C	41.2002	50/50	41.2002
958802	AF2-171 E	27.4668	50/50	27.4668
959311	AF2-222 C	35.5030	50/50	35.5030
959312	AF2-222 E	23.7870	50/50	23.7870
961791	AG1-021 C	5.5220	50/50	5.5220
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5642	50/50	37.5642
961892	AG1-030 E	25.0428	50/50	25.0428
962041	AG1-048 C	34.5128	50/50	34.5128
962042	AG1-048 E	23.0085	50/50	23.0085
962491	AG1-098 C O1	68.9970	50/50	68.9970
962492	AG1-098 E O1	45.9980	50/50	45.9980
963171	AG1-166 C	5.5220	50/50	5.5220
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5220	50/50	5.5220
963182	AG1-167 E	3.6814	50/50	3.6814
963191	AG1-168 C	5.5220	50/50	5.5220
963192	AG1-168 E	3.6814	50/50	3.6814

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963201	AG1-169 C	5.5220	50/50	5.5220
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5220	50/50	5.5220
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O1	78.3861	50/50	78.3861
963272	AG1-176 E O1	52.2574	50/50	52.2574
963321	AG1-181 C O1	32.0091	50/50	32.0091
963361	AG1-185 O1	15.4869	50/50	15.4869
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8654	50/50	3.8654
964111	AG1-272 C	5.2046	50/50	5.2046
964112	AG1-272 E	1.5458	50/50	1.5458
964121	AG1-273 C	5.2046	50/50	5.2046
964122	AG1-273 E	1.5458	50/50	1.5458
964131	AG1-274 C	5.2046	50/50	5.2046
964132	AG1-274 E	1.5458	50/50	1.5458
964241	AG1-285 C O1	17.4997	50/50	17.4997
964242	AG1-285 E O1	11.6665	50/50	11.6665
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679
964841	AG1-347 C	48.8992	50/50	48.8992
964842	AG1-347 E	38.4208	50/50	38.4208
965191	AG1-384 C	5.2046	50/50	5.2046
965192	AG1-384 E	1.5458	50/50	1.5458
965281	AG1-393 C	5.5220	50/50	5.5220
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O1	5.3401	50/50	5.3401
965452	AG1-413 E O1	3.5601	50/50	3.5601
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O1	74.6880	50/50	74.6880
965642	AG1-432 E O1	49.7920	50/50	49.7920
965831	AG1-451	12.4480	50/50	12.4480
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	7.4688	50/50	7.4688
966862	AG1-557 E O1 (Withdrawn : 12/14/2020)	4.9792	50/50	4.9792
WEC	WEC	0.0233	Confirmed LTF	0.0233
LGEE	LGEE	0.0496	Confirmed LTF	0.0496

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CPL	CPL	0.2539	Confirmed LTF	0.2539
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677
NY	NY	0.0420	Confirmed LTF	0.0420
TVA	TVA	0.1806	Confirmed LTF	0.1806
O-066	O-066	0.5855	Confirmed LTF	0.5855
SIG	SIG	0.0177	Confirmed LTF	0.0177
CBM-S2	CBM-S2	2.6726	Confirmed LTF	2.6726
CBM-S1	CBM-S1	0.0456	Confirmed LTF	0.0456
G-007	G-007	0.0924	Confirmed LTF	0.0924
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2223	Confirmed LTF	0.2223
CBM-W1	CBM-W1	0.9814	Confirmed LTF	0.9814

11.6.23 Index 23

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169145747	962560	AG1-105 TAP	DVP	314697	6SEGE HILL	DVP	1	DVP_P1-2: LN 556-C	single	814.98	134.7	140.26	DC	45.34

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6808	80/20	46.6808
315154	1CLOVER2	46.2156	80/20	46.2156
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934615	AD1-087 C	29.3393	80/20	29.3393
934625	AD1-088 C	37.5628	80/20	37.5628
935171	AD1-152 C O1	32.2262	80/20	32.2262
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
937481	AD2-202 C O1	8.5937	80/20	8.5937
938371	AE1-056 C	5.9678	80/20	5.9678
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6406	80/20	6.6406
941791	AE2-182 C	6.1026	80/20	6.1026
942461	AE2-259 C O1	12.7938	80/20	12.7938
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1476	80/20	28.1476
946291	AF1-293 C O1	9.9685	80/20	9.9685

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0540	80/20	201.0540
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7666	80/20	11.7666
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5085	80/20	33.5085
960111	AF2-302 C	0.7429	80/20	0.7429
961061	AF2-397 C	7.7259	80/20	7.7259
961791	AG1-021 C	1.5832	80/20	1.5832
961801	AG1-022 C	0.7429	80/20	0.7429
961891	AG1-030 C	9.9432	80/20	9.9432
962041	AG1-048 C	9.8947	80/20	9.8947
962491	AG1-098 C O1	44.5095	80/20	44.5095
962561	AG1-105 C O1	41.8428	80/20	41.8428
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O1	45.3442	80/20	45.3442
963321	AG1-181 C O1	6.0674	80/20	6.0674
963361	AG1-185 O1	2.9356	80/20	2.9356
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O1	4.1950	80/20	4.1950
964821	AG1-345 C	0.6297	80/20	0.6297
964841	AG1-347 C	28.2369	80/20	28.2369
964931	AG1-357 C	80.4216	80/20	80.4216
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O1	25.5876	80/20	25.5876
965831	AG1-451	4.2646	80/20	4.2646

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966791	AG1-550 O1	2.9092	80/20	2.9092
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	2.5588	80/20	2.5588
G-007A	G-007A	0.4507	Confirmed LTF	0.4507
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7005	Confirmed LTF	0.7005
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

11.6.24 Index 24

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
169907432	963270	AG1-176 TAP	DVP	964840	AG1-347 TAP	DVP	1	DVP_P1-2: LN 556-B	single	571.52	131.45	139.14	DC	43.94

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPLE	CPLE	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

11.6.25 Index 25

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
168687270	964840	AG1-347 TAP	DVP	314268	6BRIERY	DVP	1	DVP_P1-2: LN 556-B	single	571.52	131.45	139.14	DC	43.94

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
315153	1CLOVER1	22.6526	80/20	22.6526
315154	1CLOVER2	22.4268	80/20	22.4268
315266	1PLYWOOD A	0.8741	80/20	0.8741
316118	AC1-105 C	3.9872	80/20	3.9872
316123	AC1-075 C	0.6040	80/20	0.6040
926023	AC1-080 C	0.2018	80/20	0.2018
927251	AC1-221 C	1.4969	80/20	1.4969
927261	AC1-222 C	3.1206	80/20	3.1206
932761	AC2-100 C	3.4450	80/20	3.4450
934311	AD1-055 C	2.1667	80/20	2.1667
934341	AD1-058 C	3.7526	80/20	3.7526
934615	AD1-087 C	14.1588	80/20	14.1588
934625	AD1-088 C	33.5073	80/20	33.5073
934991	AD1-131 C	1.2304	80/20	1.2304
935171	AD1-152 C O1	15.5520	80/20	15.5520
936161	AD2-022 C O1	3.4044	80/20	3.4044
936171	AD2-023 C O1	1.9859	80/20	1.9859
937481	AD2-202 C O1	4.1472	80/20	4.1472
941791	AE2-182 C	5.4438	80/20	5.4438
942751	AE2-291 C	5.1524	80/20	5.1524
942761	AE2-292 C O1	6.4153	80/20	6.4153
943901	AF1-058 C	1.7574	80/20	1.7574
945811	AF1-246 C O1	13.6584	80/20	13.6584
957481	AF2-042 C	97.5600	80/20	97.5600
959751	AF2-266	16.2605	80/20	16.2605
960061	AF2-297 C	7.0296	80/20	7.0296
962441	AG1-093 C O1	10.6324	80/20	10.6324
962491	AG1-098 C O1	30.1440	80/20	30.1440
962561	AG1-105 C O1	17.8794	80/20	17.8794
963271	AG1-176 C O1	43.9413	80/20	43.9413
964261	AG1-287 C	1.3180	80/20	1.3180

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964471	AG1-310 C	1.7705	80/20	1.7705
964791	AG1-342 C	2.1254	80/20	2.1254
964841	AG1-347 C	27.5044	80/20	27.5044
966691	AG1-539 C	2.6941	80/20	2.6941
WEC	WEC	0.2463	Confirmed LTF	0.2463
LGEE	LGEE	0.5083	Confirmed LTF	0.5083
CPL	CPL	2.7976	Confirmed LTF	2.7976
CBM-W2	CBM-W2	10.9312	Confirmed LTF	10.9312
NY	NY	0.3113	Confirmed LTF	0.3113
TVA	TVA	2.0734	Confirmed LTF	2.0734
SIGE	SIGE	0.1586	Confirmed LTF	0.1586
CBM-S2	CBM-S2	32.5206	Confirmed LTF	32.5206
CBM-S1	CBM-S1	0.5164	Confirmed LTF	0.5164
MEC	MEC	1.4841	Confirmed LTF	1.4841
LAGN	LAGN	2.5707	Confirmed LTF	2.5707
AA2-074	AA2-074	1.8477	LTF	1.8477
CBM-W1	CBM-W1	10.2907	Confirmed LTF	10.2907

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
169907400	966790	AG1-550 TAP	DVP	314765	6MTEAGLE	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	141.04	143.89	DC	18.85

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0108	80/20	14.0108
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9386	80/20	13.9386
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8276	80/20	13.8276
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0480	80/20	10.0480
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2763	80/20	2.2763
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4836	80/20	18.4836
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9989	80/20	0.9989
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1432	80/20	6.1432
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6137	80/20	3.6137
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7380	80/20	19.7380
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9955	80/20	3.9955

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961061	AF2-397 C	49.3810	80/20	49.3810
961791	AG1-021 C	2.8909	80/20	2.8909
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0682	80/20	18.0682
962441	AG1-093 C O1	8.5606	80/20	8.5606
962491	AG1-098 C O1	11.2875	80/20	11.2875
962561	AG1-105 C O1	5.6502	80/20	5.6502
962741	AG1-123 C O1	3.4622	80/20	3.4622
962751	AG1-124 C O1	3.7973	80/20	3.7973
963171	AG1-166 C	2.8909	80/20	2.8909
963181	AG1-167 C	2.8909	80/20	2.8909
963191	AG1-168 C	2.8909	80/20	2.8909
963201	AG1-169 C	2.8909	80/20	2.8909
963211	AG1-170 C	2.8909	80/20	2.8909
963271	AG1-176 C O1	18.8540	80/20	18.8540
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O1	18.3458	80/20	18.3458
963361	AG1-185 O1	8.8762	80/20	8.8762
963641	AG1-215 C	1.3491	80/20	1.3491
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O1	20.2255	80/20	20.2255
964241	AG1-285 C O1	11.0250	80/20	11.0250
964261	AG1-287 C	0.7492	80/20	0.7492
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8194	80/20	11.8194
964931	AG1-357 C	7.8348	80/20	7.8348
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8909	80/20	2.8909
965451	AG1-413 C O1	3.9569	80/20	3.9569
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965601	AG1-428 C O1	2.2741	80/20	2.2741
965641	AG1-432 C O1	36.9672	80/20	36.9672
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1612	80/20	6.1612
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966791	AG1-550 O1	24.3694	80/20	24.3694
966861	AG1-557 C O1 (Withdrawn : 12/14/2020)	3.6967	80/20	3.6967
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPL	CPL	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

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
AA2-053	Carolina-Jackson 115kV	In Service
AA2-074	CPLP-PJM	Confirmed
AA2-165	Hornertown-Whitakers 115kV	In Service
AB1-173	Brink-Trego 115kV	Engineering and Procurement
AB2-040	Brink 115kV	Engineering and Procurement
AB2-043	Chase City 115kV	Under Construction
AB2-045	Buckingham 34.5kV	In Service
AB2-060	Chase City-Lunenburg 115kV	In Service
AB2-077	Buggs Island-Chase City 115kV	Suspended
AB2-078	Buggs Island-Chase City 115kV	Suspended
AB2-079	Buggs Island-Chase City 115kV	Suspended
AB2-174	Emporia-Trego 115kV	In Service
AC1-036	Twittys Creek 34.5kV	Partially in Service - Under Construction
AC1-042	Altavista-Mt. Airy 69kV	Engineering and Procurement
AC1-054	Kerr Dam—Eatons Ferry 115 kV	Engineering and Procurement
AC1-075	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-080	Perth-Hickory Grove 115kV	Engineering and Procurement
AC1-105	Halifax-Mt. Laurel 115kV	Engineering and Procurement
AC1-116	Mount Eagle 34.5kV	Engineering and Procurement
AC1-131	PJM-CPLP	Confirmed
AC1-145	Gretna DP 69 kV	Engineering and Procurement
AC1-208	Cox-Whitakers 115kV	Engineering and Procurement
AC1-221	Halifax-Person 230kV	Engineering and Procurement
AC1-222	Crystal Hill-Halifax 115kV	Engineering and Procurement
AC2-071	Buckingham 35kV	Withdrawn
AC2-100	Halifax-Person 230kV	Engineering and Procurement
AC2-112	Stuarts Draft-Waynesboro 115kV	Engineering and Procurement
AC2-165	Bremo-Powhatan 230kV	Engineering and Procurement
AD1-055	Crystal Hill-Halifax 115 kV	Engineering and Procurement

Queue Number	Project Name	Status
AD1-058	Halifax-Person 230 kV	Engineering and Procurement
AD1-087	Clover-Sedge Hill 230 kV	Active
AD1-088	Briery-Clover 230 kV	Active
AD1-131	Sedge Hill-Person 230 kV	Engineering and Procurement
AD1-152	Clover-Sedge Hill 230 kV	Active
AD1-157	South Creek 34.5 kV	Engineering and Procurement
AD2-022	East Danville-Roxborough 230 kV	Active
AD2-023	E. Danville-Roxborough 230 kV	Active
AD2-033	Chase City-Lunenburg 115 kV	Active
AD2-046	Boydton DP-Kerr Dam 115 kV	Active
AD2-063	Central-Chase City 115kV	Active
AD2-202	Clover-Sedge Hill 230kV	Active
AE1-056	Red House-South Creek 115 kV	Active
AE1-075	Powhatan 34.5 kV	Engineering and Procurement
AE1-108	Bremo-Scottsville 138 kV	Active
AE1-148	Kerr Dam-Ridge Rd 115 kV	Active
AE1-230	Shockoe 69 kV	Active
AE2-053	Kerr Dam-Ridge Road 115 kV	Active
AE2-092	Kidds Store-Sherwood 115 kV	Active
AE2-182	Briery-Clover 230 kV	Active
AE2-185	Gladys DP-Stonemill Switching Station 69 kV	Active
AE2-187	Shockoe DP-Chatham 69 kV	Active
AE2-258	Chase City 115 kV	Active
AE2-259	Curdsville-Willis Mtn 115 kV	Active
AE2-283	Gladys-Stone Mill 69 kV	Active
AE2-291	Grit DP-Perth 115 kV	Active
AE2-292	Grit DP-Perth 115 kV	Active
AF1-058	Welco 34.5 kV	Engineering and Procurement
AF1-059	Brodnax-South Hill 115 kV	Active
AF1-173	Gretna DP-Shockoe DP 69 kV	Active
AF1-246	Clover-Rawlings 500 kV	Active
AF1-292	Fields 34.5kV	Active
AF1-293	Kidds Store-Fort Union 115 kV	Active
AF1-294	Jetersville-Ponton 115 kV	Active
AF1-323	Scottsville-Colleen 138 kV	Active
AF2-042	Clover-Rawlings 500 kV	Active
AF2-085	Midlothian 34.5 kV	Engineering and Procurement
AF2-107	Clifford 138 kV	Active
AF2-115	Jetersville-Ponton 115 kV	Active

Queue Number	Project Name	Status
AF2-144	Powhatan 34.5 kV	Active
AF2-171	Madisonville 115 kV	Active
AF2-222	Madisonville DP-Twitty's Creek 115 kV	Active
AF2-244	Powhatan 34.5 kV	Withdrawn
AF2-266	Clover 230 kV	Active
AF2-297	Sedge Hill 115 kV	Active
AF2-299	Fields 34.5 kV	Active
AF2-302	Scottsville-Colleen 138 kV	Active
AF2-397	Fork Union-Mt. Eagle 230 kV	Active
AF2-403	Shockoe DP-Chatham 69 kV	Active
AG1-021	Jetersville-Ponton 115 kV	Active
AG1-022	Scottsville-Colleen 138 kV	Active
AG1-030	Victoria DP-Martin DP 115 kV	Active
AG1-048	Jetersville-Ponton 115 kV	Active
AG1-093	Halifax-Chase City 115 kV	Active
AG1-098	Briery-Clover 230 kV	Active
AG1-105	Clover-Sedge Hill 230 kV	Active
AG1-123	Amherst-Riverville 138 kV	Active
AG1-124	Gladstone 138 kV	Active
AG1-166	Lone Pine 115 kV	Active
AG1-167	Lone Pine 115 kV	Active
AG1-168	Lone Pine 115 kV	Active
AG1-169	Lone Pine 115 kV	Active
AG1-170	Lone Pine 115 kV	Active
AG1-176	Briery-Clover 230 kV	Active
AG1-179	Brunswick 69 kV	Active
AG1-180	Brunswick 69 kV	Active
AG1-181	Pamplin-Chase City 115 kV	Active
AG1-185	Pamplin-Chase City 115 kV	Active
AG1-209	Gretna 12.5 kV	Active
AG1-215	Fort Pickett 13.2 kV	Active
AG1-272	Twitty's Creek 115 kV	Active
AG1-273	Twitty's Creek 115 kV	Active
AG1-274	Twitty's Creek 115 kV	Active
AG1-275	Gladys DP-Stone Mill 69 kV	Active
AG1-276	Gladys DP-Stone Mill 69 kV	Active
AG1-284	Bremo-Cunningham DP 115 kV	Active
AG1-285	Chase City-Central 115 kV	Active
AG1-286	Johnson Mountain 138 kV	Active

Queue Number	Project Name	Status
AG1-287	South Boston 12.5 kV	Active
AG1-310	Crystal Hill-Perth 115 kV	Active
AG1-313	Jackson DP-Occoneechee 115 kV	Active
AG1-342	Dryburg 115 kV	Active
AG1-345	Crewe 12.5 kV	Active
AG1-347	Briery DP-Clover 230 kV	Active
AG1-357	Clover-Rawlins 500 kV	Active
AG1-384	Twitty's Creek 115 kV	Active
AG1-393	Fort Pickett DP 34.5 kV	Active
AG1-413	South Hill-Bordnax 115 kV	Active
AG1-426	Bremo-Scottsville 138 kV	Active
AG1-427	Chase City-Drakes Branch 115 kV	Active
AG1-428	Danieltown 69 kV	Active
AG1-432	Curdsville DP-Willis Mt. 115 kV	Active
AG1-440	Palmer Springs 115 kV	Active
AG1-441	Palmer Springs 115 kV	Active
AG1-445	Palmer Spring 115 kV	Active
AG1-446	Palmer Springs 115 kV	Active
AG1-451	Curdsville DP-Willis Mt. 115 kV	Active
AG1-494	Boxwood-Riverville 138 kV	Active
AG1-505	Rawlings-Clover 500 kV	Active
AG1-506	Rawlings-Clover 500 kV	Active
AG1-532	Fields 34.5 kV	Active
AG1-539	Grit DP-Perth 115 kV	Active
AG1-546	Ebony-Elams Road 115 kV	Active
AG1-547	Mount Airy-Chatham 69 kV	Active
AG1-550	Mount Eagle-Fork Union 230 kV	Active
AG1-552	Carolina 13.2 kV	Active
AG1-557	Curdsville DP 115 kV	Withdrawn

11.8 Contingency Descriptions - Primary POI

Contingency Name	Contingency Definition
DVP_P1-2: LN 556-D	CONTINGENCY 'DVP_P1-2: LN 556-D' OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-055 TAP 500.00 - 8RAWLINGS 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 556-B	CONTINGENCY 'DVP_P1-2: LN 556-B' OPEN BRANCH FROM BUS 945810 TO BUS 964930 CKT 1 /* AF1-246 TAP 500.00 - AG1-357 TAP 500.00 END
DVP_P1-2: LN 556-C	CONTINGENCY 'DVP_P1-2: LN 556-C' OPEN BRANCH FROM BUS 964930 TO BUS 966360 CKT 1 /* AG1-357 TAP 500.00 - AG1-055 TAP 500.00 END
DVP_P1-2: LN 2193	CONTINGENCY 'DVP_P1-2: LN 2193' OPEN BRANCH FROM BUS 313707 TO BUS 313867 CKT 1 /* 6FORK UNION 230.00 - 6BREMODIST 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BUS 313867 /* ISLAND: 6BREMODIST 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2028-B	CONTINGENCY 'DVP_P1-2: LN 2028-B' OPEN BRANCH FROM BUS 966790 TO BUS 314765 CKT 1 /* AF2-397 TAP 230.00 - 6MTEAGLE 230.00 OPEN BRANCH FROM BUS 314749 TO BUS 314765 CKT 1 /* 6CHARLVL 230.00 - 6MTEAGLE 230.00 OPEN BUS 314765 /* ISLAND: 6MTEAGLE 230.00 OPEN BUS 926451 /* ISLAND: AC1-116 C 230.00 OPEN BUS 926452 /* ISLAND: AC1-116 E 230.00 END
DVP_P1-2: LN 298	CONTINGENCY 'DVP_P1-2: LN 298' OPEN BRANCH FROM BUS 314677 TO BUS 314692 CKT 1 /* 6BUCKING 230.00 - 6FARMVIL 230.00 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314691 TO BUS 314692 CKT 2 /* 3FARMVIL 115.00 - 6FARMVIL 230.00 OPEN BUS 314677 /* ISLAND: 6BUCKING 230.00 OPEN BUS 924032 /* ISLAND: AB2-045 E 230.00 OPEN BUS 932511 /* ISLAND: AC2-071 C 230.00 OPEN BUS 932512 /* ISLAND: AC2-071 E 230.00 END

Contingency Name	Contingency Definition
DVP_P2-2: BREMO B1	CONTINGENCY 'DVP_P2-2: BREMO B1' /* BREMO 230 KV OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 2027	CONTINGENCY 'DVP_P1-2: LN 2027' OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 933500 CKT 1 /* 6CARTERV 230.00 - AC2-165 TAP 230.00 OPEN BRANCH FROM BUS 314310 TO BUS 314322 CKT 1 /* 6JUDES F 230.00 - 6MDLTHAN 230.00 OPEN BRANCH FROM BUS 314310 TO BUS 314333 CKT 1 /* 6JUDES F 230.00 - 6POWHATN 230.00 OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 /* 6POWHATN 230.00 - AC2-165 TAP 230.00 OPEN BUS 313868 /* ISLAND: 6CARTERV 230.00 OPEN BUS 314310 /* ISLAND: 6JUDES F 230.00 OPEN BUS 314333 /* ISLAND: 6POWHATN 230.00 OPEN BUS 923862 /* ISLAND: AB2-026 E 230.00 OPEN BUS 938561 /* ISLAND: AE1-075 C 230.00 OPEN BUS 938562 /* ISLAND: AE1-075 E 230.00 OPEN BUS 933500 /* ISLAND: AC2-165 TAP 230.00 OPEN BUS 933501 /* ISLAND: AC2-165 C 230.00 OPEN BUS 933502 /* ISLAND: AC2-165 E 230.00 END
DVP_P1-2: LN 511-A	CONTINGENCY 'DVP_P1-2: LN 511-A' OPEN BRANCH FROM BUS 314902 TO BUS 940470 CKT 1 /* 8CARSON 500.00 - AE2-031 TAP 500.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 585-A	CONTINGENCY 'DVP_P1-2: LN 585-A' OPEN BRANCH FROM BUS 314902 TO BUS 941030 CKT 1 /* 8CARSON 500.00 - AE2-094 TAP 500.00 END
Base Case	
DVP_P7-1: LN 5-2028-C	CONTINGENCY 'DVP_P7-1: LN 5-2028-C' /* OPEN BRANCH FROM BUS 314744 TO BUS 314754 CKT 1 /* 3BREMO 115.00 - 3CUNNING 115.00 OPEN BUS 314754 /* ISLAND: 3CUNNING 115.00 OPEN BRANCH FROM BUS 966790 TO BUS 314765 CKT 1 /* AG1-550 TAP 230.00 - 6MTEAGLE 230.00 OPEN BRANCH FROM BUS 314749 TO BUS 314765 CKT 1 /* 6CHARLVL 230.00 - 6MTEAGLE 230.00 OPEN BUS 314765 /* ISLAND: 6MTEAGLE 230.00 OPEN BUS 926451 /* ISLAND: AC1-116 C 230.00 OPEN BUS 926452 /* ISLAND: AC1-116 E 230.00 END
314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1	CONTINGENCY '314765 6MTEAGLE 230 966790 AG1-550 TAP 230 1' OPEN BRANCH FROM BUS 314765 TO BUS 966790 CKT 1 END
314333 6POWHATN 230 933500 AC2-165 TAP 230 1	CONTINGENCY '314333 6POWHATN 230 933500 AC2-165 TAP 230 1' OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 END

12 Short Circuit Analysis - Primary POI

The following Breakers are overdutied

Bus Number	Bus Name	BREAKER	Type	Capacity (Amps)	Duty Percentage Post Queue	Duty Percentage Pre Queue

12.1 System Reinforcements - Short Circuit

13 Summer Peak - Load Flow Analysis - Secondary POI

The Queue Project AG1-176 was evaluated as a 149.5 MW (Capacity 89.7 MW) injection at the Briery 230 kV substation in the Dominion area. Project AG1-176 was evaluated for compliance with applicable reliability planning criteria (PJM, NERC, NERC Regional Reliability Councils, and Transmission Owners). Project AG1-176 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 IMPAC T
169145699	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	single	571.520019531	99.81	106.37	DC	37.52
175028037	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	Base Case	single	559.299987793	99.25	105.96	DC	37.53
174826091	941010	AE2-092 TAP	115.0	DVP	314774	3SHERWOOD	115.0	DVP	1	DVP_P1-2: LN 2028-B-1	single	169.199996948	98.0	100.91	DC	4.92
175028045	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	single	559.299987793	99.25	105.96	DC	37.53

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 IMPAC T
174204887	314686	6CLOVER	230.0	DVP	314906	8CLOVER	500.0	DVP	2	DVP_P4-5: L912	breaker	1275.09997559	99.43	102.76	DC	42.72
174204876	314747	6BREMO	230.0	DVP	313868	6CARTER V	230.0	DVP	1	DVP_P4-2: 2028T2054	breaker	980.0	97.37	101.03	DC	35.92
171448794	934620	AD1-088 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P2-2: BREMO B1	bus	699.0	90.04	107.28	DC	120.61
174006427	934620	AD1-088 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P4-2: 219322	breaker	699.0	90.04	107.28	DC	120.61
172895602	964930	AG1-357 TAP	115.0	DVP	962490	AG1-098 TAP	115.0	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	98.35	103.04	DC	16.34

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 IMPAC T
168385013	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	133.61	137.63	DC	26.65
174006418	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P4-2: 511T556	breaker	699.0	126.74	139.96	DC	92.41

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 PROJECTIONS LOADING %	POST PROJECTIONS LOADING %	AC/D C	MW IMPACT
175028150	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	571.520019531	125.05	134.75	DC	55.43
163174005	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P7-1: LN 181-2027	tower	809.0	128.8	134.83	DC	48.84
168385035	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	134.79	139.21	DC	29.31
174006428	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P4-2: 202712	breaker	809.0	128.75	134.78	DC	48.84
175428718	313868	6CARTERV	230.0	DVP	933500	AC2-165 TAP	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.880004883	100.61	103.3	DC	21.56
164015325	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY 2	115.0	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	148.68	153.35	DC	16.3
168384972	313898	3BUTCHER CRK	115.0	DVP	314267	3CHASCTY 2	115.0	DVP	1	Base Case	single	247.220001221	114.75	116.62	DC	4.61
174006417	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P4-2: 511T556	breaker	699.0	126.77	139.99	DC	92.41
175028148	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	571.520019531	125.08	134.78	DC	55.43
174204828	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P4-2: 2028T2054	breaker	980.0	104.61	108.27	DC	35.9
175225181	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.880004883	106.4	109.09	DC	21.54
174006531	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P4-2: 2028T2054	breaker	980.0	104.71	108.37	DC	35.9
175225178	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.880004883	106.53	109.22	DC	21.54
174006379	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P4-2: 556T591	breaker	699.0	194.56	205.6	DC	77.24
175028050	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	571.520019531	176.89	184.99	DC	46.32
175028130	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-B-C	single	814.979980469	115.45	119.61	DC	33.86
175028101	314690	6BLACK WALNU	230.0	DVP	962440	AG1-093 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-C	single	814.979980469	124.06	128.22	DC	33.86
174006378	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	DVP_P4-2: 556T591	breaker	684.0	197.91	209.19	DC	77.27
175028035	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	559.299987793	177.47	185.75	DC	46.34
175835501	314694	3GRIT	115.0	DVP	314712	3OTTER R	115.0	DVP	1	DVP_P1-2: LN 556-B-C	single	285.760009766	107.67	109.36	DC	4.84
175835502	314694	3GRIT	115.0	DVP	314712	3OTTER R	115.0	DVP	1	DVP_P1-2: LN 556-B-A	single	285.760009766	107.7	109.4	DC	4.84

ID	FROM BUS#	FROM BUS	kV	FROM BUS AREA	TO BUS#	TO BUS	kV	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECTIONS LOADING %	POST PROJECTIONS LOADING %	AC/D C	MW IMPACT
175225058	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-C	single	674.91998291	158.74	162.94	DC	28.36
175835425	314697	6SEEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	674.91998291	158.86	163.06	DC	28.36
175835491	314712	3OTTER R	115.0	DVP	314666	3ALTVSTA	115.0	DVP	1	DVP_P1-2: LN 556-B-C	single	269.779998779	106.7	108.5	DC	4.84
175835492	314712	3OTTER R	115.0	DVP	314666	3ALTVSTA	115.0	DVP	1	DVP_P1-2: LN 556-B-A	single	269.779998779	106.74	108.54	DC	4.84
163173990	314747	6BREMO	230.0	DVP	313867	6BREMOMODIST	230.0	DVP	1	DVP_P7-1: LN 181-2027	tower	809.0	130.57	136.6	DC	48.84
169364112	314747	6BREMO	230.0	DVP	313867	6BREMOMODIST	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	136.95	141.37	DC	29.31
169364129	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	single	269.779998779	126.77	131.53	DC	12.84
174006424	314747	6BREMO	230.0	DVP	313867	6BREMOMODIST	230.0	DVP	1	DVP_P4-2: 202712	breaker	809.0	130.52	136.55	DC	48.84
175428706	314747	6BREMO	230.0	DVP	313868	6CARTERV	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.880004883	102.02	104.71	DC	21.56
169364102	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	137.48	141.51	DC	26.65
173821387	314902	8CARSON	500.0	DVP	314282	6CARSON	230.0	DVP	1	DVP_P4-2: 562T563	breaker	1039.69995117	178.1	178.58	DC	10.91
173387050	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-B-C	single	718.0	161.19	165.14	DC	28.36
173387051	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON230 T	230.0	CPL E	1	DVP_P1-2: LN 556-B-B	single	718.0	161.28	165.23	DC	28.36
174204841	933500	AC2-165 TAP	230.0	DVP	314333	6POWHAT N	230.0	DVP	1	DVP_P4-2: 2028T2054	breaker	980.0	103.18	106.85	DC	35.92
175225189	933500	AC2-165 TAP	230.0	DVP	314333	6POWHAT N	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.880004883	105.43	108.12	DC	21.56
164015290	936480	AD2-063 TAP	115.0	DVP	965590	AG1-427 TAP	115.0	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	103.51	105.13	DC	12.5
175835496	942750	AE2-291 TAP	115.0	DVP	314694	3GRIT	115.0	DVP	1	DVP_P1-2: LN 556-B-C	single	285.760009766	108.71	110.41	DC	4.84
175835497	942750	AE2-291 TAP	115.0	DVP	314694	3GRIT	115.0	DVP	1	DVP_P1-2: LN 556-B-A	single	285.760009766	108.75	110.45	DC	4.84
175028095	961060	AF2-397 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	single	661.760009766	141.01	145.04	DC	26.65

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
174006410	962440	AG1-093 TAP	230.0	DVP	314697	6SEDGE HILL	230.0	DVP	1	DVP_P4-2: 556T591	breaker	997.0	132.27	137.92	DC	56.4
174402725	962440	AG1-093 TAP	230.0	DVP	314697	6SEDGE HILL	230.0	DVP	1	DVP_P4-2: 511T556	breaker	997.0	132.27	137.92	DC	56.4
175028140	962440	AG1-093 TAP	230.0	DVP	314697	6SEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	814.979980469	132.46	136.62	DC	33.86
172895567	962490	AG1-098 TAP	115.0	DVP	313898	3BUTCHER CRK	115.0	DVP	1	DVP_P2-2: BREMOB1	bus	349.0	128.72	133.4	DC	16.34
174006377	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P4-2: 511T556	breaker	684.0	197.89	209.17	DC	77.27
175028043	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B-A	single	559.299987793	177.47	185.75	DC	46.34

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
168385011	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	159.52	166.23	DC	44.42
168385015	313707	6FORK UNION	230.0	DVP	961060	AF2-397 TAP	230.0	DVP	1	Base Case	operation	661.760009766	105.92	110.94	DC	33.21
168385259	313708	3FORK UNION	115.0	DVP	313707	6FORK UNION	230.0	DVP	1	DVP_P1-2: LN 2193	operation	269.779998779	105.29	107.44	DC	12.87
175028149	313802	6PRINCE EDW	230.0	DVP	314692	6FARMVIL	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	571.520019531	152.39	168.55	DC	92.38
168385033	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	157.45	164.82	DC	48.84
168385037	313867	6BREMODIST	230.0	DVP	313707	6FORK UNION	230.0	DVP	1	Base Case	operation	661.760009766	107.31	112.84	DC	36.55

ID	FROM BUS#	FROM BUS	KV	FROM BUS AREA	TO BUS#	TO BUS	KV	TO BUS AREA	CK T ID	CONT NAME	Type	Rating MVA	PRE PROJE CT LOADI NG %	POST PROJE CT LOADI NG %	AC D C	MW IMPA CT
175428717	313868	6CARTERV	230.0	DVP	933500	AC2-165 TAP	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operati on	800.880004883	117.12	121.61	DC	35.93
175028147	314268	6BRIERY	230.0	DVP	313802	6PRINCE EDW	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operati on	571.520019531	152.42	168.59	DC	92.38
175028170	314268	6BRIERY	230.0	DVP	964840	AG1-347 TAP	230.0	DVP	1	DVP_P1-2: LN 298-A	operati on	571.520019531	89.28	110.36	DC	120.64
175225180	314310	6JUDES F	230.0	DVP	314322	6MDLTHA N	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operati on	800.880004883	127.71	132.19	DC	35.91
175225177	314333	6POWHAT N	230.0	DVP	314310	6JUDES F	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operati on	800.880004883	127.84	132.33	DC	35.91
169145698	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	Base Case	operati on	571.520019531	139.94	150.87	DC	62.54
175028049	314677	6BUCKING	230.0	DVP	314747	6BREMO	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operati on	571.520019531	236.04	249.53	DC	77.21
175028129	314686	6CLOVER	230.0	DVP	314690	6BLACK WALNU	230.0	DVP	1	DVP_P1-2: LN 556-B-C	operati on	814.979980469	140.39	147.31	DC	56.43
175028100	314690	6BLACK WALNU	230.0	DVP	962440	AG1-093 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-C	operati on	814.979980469	152.5	159.42	DC	56.43
175028034	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operati on	559.299987793	242.73	256.53	DC	77.23
175028036	314692	6FARMVIL	230.0	DVP	966860	AG1-557 TAP	230.0	DVP	1	Base Case	operati on	559.299987793	139.2	150.37	DC	62.56
169145704	314697	6SEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	Base Case	operati on	509.480010986	103.13	107.28	DC	21.16
175225057	314697	6SEDGE HILL	230.0	DVP	927250	AC1-221 TAP	230.0	DVP	1	DVP_P1-2: LN 556-B-C	operati on	674.91998291	210.91	217.89	DC	47.26
169364110	314747	6BREMO	230.0	DVP	313867	6BREMOD IST	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operati on	661.760009766	159.61	166.98	DC	48.84
169364114	314747	6BREMO	230.0	DVP	313867	6BREMOD IST	230.0	DVP	1	Base Case	operati on	661.760009766	109.47	115.0	DC	36.55
169364128	314747	6BREMO	230.0	DVP	314744	3BREMO	115.0	DVP	1	DVP_P1-2: LN 2193	operati on	269.779998779	152.46	160.41	DC	21.41
175428705	314747	6BREMO	230.0	DVP	313868	6CARTERV	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operati on	800.880004883	118.54	123.02	DC	35.93
169364100	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	314333 6POWHA TN 230 933500 AC2-165 TAP 230 1	operati on	661.760009766	160.74	167.45	DC	44.41
169364104	314765	6MTEAGLE	230.0	DVP	314749	6CHARLVL	230.0	DVP	1	Base Case	operati on	661.760009766	108.38	113.39	DC	33.2
163593015	314935	8HERITAG E	500.0	DVP	314940	8ROGERS RD	500.0	DVP	1	DVP_P1-2: LN 511-A	operati on	3256.15991211	103.46	104.43	DC	33.85
163592759	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON2 30 T	230.0	CPL E	1	Base Case	operati on	542.0	115.71	119.61	DC	21.16
173387045	927250	AC1-221 TAP	230.0	DVP	304070	6PERSON2 30 T	230.0	CPL E	1	DVP_P1-2: LN 556-B-C	operati on	718.0	215.61	222.16	DC	47.26

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
175225188	933500	AC2-165 TAP	230.0	DVP	314333	6POWHATN	230.0	DVP	1	DVP_P1-2: LN 2028-B-1	operation	800.880004883	125.64	130.12	DC	35.93
175028118	934620	AD1-088 TAP	230.0	DVP	314686	6CLOVER	230.0	DVP	1	DVP_P1-2: LN 298-A	operation	571.520019531	105.71	126.79	DC	120.64
174826090	941010	AE2-092 TAP	115.0	DVP	314774	3SHERWOOD	115.0	DVP	1	DVP_P1-2: LN 2028-B-1	operation	169.199996948	118.67	120.86	DC	8.2
175028094	961060	AF2-397 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	operation	661.760009766	168.35	175.06	DC	44.42
175028096	961060	AF2-397 TAP	230.0	DVP	314765	6MTEAGLE	230.0	DVP	1	Base Case	operation	661.760009766	111.82	116.84	DC	33.21
175028139	962440	AG1-093 TAP	230.0	DVP	314697	6SEDGE HILL	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	814.979980469	164.69	171.62	DC	56.43
175028141	964840	AG1-347 TAP	230.0	DVP	934620	AD1-088 TAP	230.0	DVP	1	DVP_P1-2: LN 298-A	operation	571.520019531	89.28	110.37	DC	120.64
175028042	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	DVP_P1-2: LN 556-B-A	operation	559.299987793	238.85	252.64	DC	77.23
175028044	966860	AG1-557 TAP	230.0	DVP	314677	6BUCKING	230.0	DVP	1	Base Case	operation	559.299987793	139.2	150.37	DC	62.56

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
174006379	314677	6BUCKING	DVP	314747	6BREMO	DVP	1	DVP_P4-2: 556T591	breaker	699.0	194.56	205.6	DC	77.24

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6837	50/50	0.6837
313853	3PONTONDP	1.5977	50/50	1.5977
314429	3JTRSVLE	1.0083	50/50	1.0083
314677	6BUCKING	1.4767	50/50	1.4767
314713	3PAMPLIN	4.1587	50/50	4.1587
315153	1CLOVER1	20.9801	50/50	20.9801
315154	1CLOVER2	20.7710	50/50	20.7710
315266	1PLYWOOD A	1.3910	50/50	1.3910
316118	AC1-105 C	6.9342	50/50	6.9342
316131	AB2-060 C	2.0233	50/50	2.0233
924022	AB2-043 E O1	3.8748	50/50	3.8748
924032	AB2-045 E	4.3680	50/50	4.3680
924162	AB2-060 E OP	6.0349	50/50	6.0349
924301	AB2-077 C O1 (Suspended)	2.7008	50/50	2.7008
924302	AB2-077 E O1 (Suspended)	1.8006	50/50	1.8006
924311	AB2-078 C O1 (Suspended)	2.7008	50/50	2.7008
924312	AB2-078 E O1 (Suspended)	1.8006	50/50	1.8006
924321	AB2-079 C O1 (Suspended)	2.7008	50/50	2.7008
924322	AB2-079 E O1 (Suspended)	1.8006	50/50	1.8006
925611	AC1-036 C	0.4355	50/50	0.4355
925612	AC1-036 E	1.6530	50/50	1.6530
925997	AC1-075 E	2.4211	Adder	2.85
926024	AC1-080 E	0.8033	Adder	0.95
926274	AC1-105 E	3.4068	50/50	3.4068
927261	AC1-222 C	4.1213	50/50	4.1213
927262	AC1-222 E	3.9233	50/50	3.9233
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.4548	50/50	1.4548

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932512	AC2-071 E (Withdrawn : 01/22/2021)	4.6453	50/50	4.6453
934311	AD1-055 C	2.8615	50/50	2.8615
934312	AD1-055 E	0.7379	50/50	0.7379
934615	AD1-087 C	13.1235	50/50	13.1235
934616	AD1-087 E	5.6158	50/50	5.6158
934625	AD1-088 C	29.0791	50/50	29.0791
934626	AD1-088 E	7.6159	50/50	7.6159
935171	AD1-152 C O1	14.4149	50/50	14.4149
935172	AD1-152 E O1	9.6099	50/50	9.6099
935221	AD1-157 C	0.6068	50/50	0.6068
935222	AD1-157 E	2.5639	50/50	2.5639
936265	AD2-033 C	23.6597	50/50	23.6597
936266	AD2-033 E	15.7732	50/50	15.7732
936361	AD2-046 C O1	9.3566	50/50	9.3566
936362	AD2-046 E O1	4.3026	50/50	4.3026
936485	AD2-063 C	23.8140	50/50	23.8140
936486	AD2-063 E	15.8760	50/50	15.8760
937481	AD2-202 C O1	3.8440	50/50	3.8440
937482	AD2-202 E O1	2.1622	50/50	2.1622
938371	AE1-056 C	16.5800	50/50	16.5800
938372	AE1-056 E	9.0592	50/50	9.0592
939181	AE1-148 C	9.3474	50/50	9.3474
939182	AE1-148 E	6.2316	50/50	6.2316
940661	AE2-053 O1	3.4620	50/50	3.4620
941791	AE2-182 C	4.7243	50/50	4.7243
941792	AE2-182 E	2.1993	50/50	2.1993
942451	AE2-258	3.2328	50/50	3.2328
942461	AE2-259 C O1	30.1896	50/50	30.1896
942462	AE2-259 E O1	20.1264	50/50	20.1264
943901	AF1-058 C	2.3234	50/50	2.3234
943902	AF1-058 E	1.5490	50/50	1.5490
943911	AF1-059	13.2340	Adder	15.57
945811	AF1-246 C O1	12.6500	50/50	12.6500
945812	AF1-246 E O1	17.4690	50/50	17.4690
946293	AF1-293 BAT	11.1823	Merchant Transmission	11.1823
946301	AF1-294 C	10.1855	50/50	10.1855
946302	AF1-294 E	6.7903	50/50	6.7903
957481	AF2-042 C	90.3570	50/50	90.3570

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957482	AF2-042 E	60.2380	50/50	60.2380
958211	AF2-115 C	5.9915	50/50	5.9915
958212	AF2-115 E	3.9943	50/50	3.9943
958801	AF2-171 C	35.8092	50/50	35.8092
958802	AF2-171 E	23.8728	50/50	23.8728
959311	AF2-222 C	33.2170	50/50	33.2170
959312	AF2-222 E	22.2554	50/50	22.2554
959751	AF2-266	15.0600	50/50	15.0600
960061	AF2-297 C	9.2938	50/50	9.2938
960062	AF2-297 E	6.1958	50/50	6.1958
961063	AF2-397 BAT	7.8364	Merchant Transmission	7.8364
961791	AG1-021 C	4.7932	50/50	4.7932
961792	AG1-021 E	3.1954	50/50	3.1954
961891	AG1-030 C	33.4863	50/50	33.4863
961892	AG1-030 E	22.3242	50/50	22.3242
962041	AG1-048 C	29.9573	50/50	29.9573
962042	AG1-048 E	19.9715	50/50	19.9715
962441	AG1-093 C O2	23.3634	50/50	23.3634
962442	AG1-093 E O2	7.1106	50/50	7.1106
962491	AG1-098 C O2	18.5460	50/50	18.5460
962492	AG1-098 E O2	12.3640	50/50	12.3640
962561	AG1-105 C O2	12.7050	50/50	12.7050
962562	AG1-105 E O2	8.4700	50/50	8.4700
963171	AG1-166 C	4.7932	50/50	4.7932
963172	AG1-166 E	3.1954	50/50	3.1954
963181	AG1-167 C	4.7932	50/50	4.7932
963182	AG1-167 E	3.1954	50/50	3.1954
963191	AG1-168 C	4.7932	50/50	4.7932
963192	AG1-168 E	3.1954	50/50	3.1954
963201	AG1-169 C	4.7932	50/50	4.7932
963202	AG1-169 E	3.1954	50/50	3.1954
963211	AG1-170 C	4.7932	50/50	4.7932
963212	AG1-170 E	3.1954	50/50	3.1954
963271	AG1-176 C O2	46.3462	50/50	46.3462
963272	AG1-176 E O2	30.8975	50/50	30.8975
963301	AG1-179 C	1.9529	Adder	4.33
963311	AG1-180	0.9515	Adder	2.11
963321	AG1-181 C O2	31.6159	50/50	31.6159

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963361	AG1-185 O2	15.2966	50/50	15.2966
963641	AG1-215 C	2.2368	50/50	2.2368
963642	AG1-215 E	3.3552	50/50	3.3552
964111	AG1-272 C	4.9495	50/50	4.9495
964112	AG1-272 E	1.4701	50/50	1.4701
964121	AG1-273 C	4.9495	50/50	4.9495
964122	AG1-273 E	1.4701	50/50	1.4701
964131	AG1-274 C	4.9495	50/50	4.9495
964132	AG1-274 E	1.4701	50/50	1.4701
964241	AG1-285 C O2	22.5892	50/50	22.5892
964242	AG1-285 E O2	15.0595	50/50	15.0595
964261	AG1-287 C	1.7426	50/50	1.7426
964262	AG1-287 E	1.1617	50/50	1.1617
964471	AG1-310 C	2.3371	50/50	2.3371
964472	AG1-310 E	1.1511	50/50	1.1511
964791	AG1-342 C	5.2527	50/50	5.2527
964792	AG1-342 E	4.1271	50/50	4.1271
964821	AG1-345 C	1.9128	50/50	1.9128
964822	AG1-345 E	1.2752	50/50	1.2752
964841	AG1-347 C	23.7070	50/50	23.7070
964842	AG1-347 E	18.6270	50/50	18.6270
964931	AG1-357 C O2	31.5924	50/50	31.5924
964932	AG1-357 E O2	21.0616	50/50	21.0616
965191	AG1-384 C	4.9495	50/50	4.9495
965192	AG1-384 E	1.4701	50/50	1.4701
965281	AG1-393 C	4.7932	50/50	4.7932
965282	AG1-393 E	3.1954	50/50	3.1954
965451	AG1-413 C O2	6.8021	50/50	6.8021
965452	AG1-413 E O2	4.5347	50/50	4.5347
965591	AG1-427 C	18.2059	50/50	18.2059
965592	AG1-427 E	12.1629	50/50	12.1629
965601	AG1-428 C O2	1.6304	Adder	3.62
965602	AG1-428 E O2	1.0850	Adder	2.41
965641	AG1-432 C O2	60.3792	50/50	60.3792
965642	AG1-432 E O2	40.2528	50/50	40.2528
965721	AG1-440 C	2.9125	Adder	6.47
965722	AG1-440 E	1.9417	Adder	4.31
965731	AG1-441 C	2.9125	Adder	6.47
965732	AG1-441 E	1.9417	Adder	4.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965771	AG1-445	1.6828	Adder	3.74
965781	AG1-446	1.6828	Adder	3.74
965831	AG1-451	10.0632	50/50	10.0632
966361	AG1-505 C	27.1053	50/50	27.1053
966362	AG1-505 E	18.0702	50/50	18.0702
966371	AG1-506 C	27.1053	50/50	27.1053
966372	AG1-506 E	18.0702	50/50	18.0702
966792	AG1-550 BAT	2.7931	Merchant Transmission	2.7931
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	7.8611	50/50	7.8611
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	5.2407	50/50	5.2407
WEC	WEC	0.3018	Confirmed LTF	0.3018
LGEE	LGEE	0.6214	Confirmed LTF	0.6214
CPL	CPL	3.7073	Confirmed LTF	3.7073
CBM-W2	CBM-W2	13.8074	Confirmed LTF	13.8074
NY	NY	0.4131	Confirmed LTF	0.4131
TVA	TVA	2.6418	Confirmed LTF	2.6418
O-066	O-066	5.7070	Confirmed LTF	5.7070
SIGE	SIGE	0.2010	Confirmed LTF	0.2010
CBM-S2	CBM-S2	42.5848	Confirmed LTF	42.5848
CBM-S1	CBM-S1	0.6551	Confirmed LTF	0.6551
G-007	G-007	0.8967	Confirmed LTF	0.8967
MEC	MEC	1.8432	Confirmed LTF	1.8432
LAGN	LAGN	3.2813	Confirmed LTF	3.2813
AA2-074	AA2-074	2.4484	LTF	2.4484
CBM-W1	CBM-W1	12.5619	Confirmed LTF	12.5619

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
174006378	314692	6FARMVIL	DVP	966860	AG1-557 TAP	DVP	1	DVP_P4-2: 556T591	breaker	684.0	197.91	209.19	DC	77.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6841	50/50	0.6841
313853	3PONTONDP	1.5983	50/50	1.5983
314429	3JTRSVLE	1.0086	50/50	1.0086
314713	3PAMPLIN	4.1600	50/50	4.1600
315153	1CLOVER1	20.9906	50/50	20.9906
315154	1CLOVER2	20.7814	50/50	20.7814
315266	1PLYWOOD A	1.3921	50/50	1.3921
316118	AC1-105 C	6.9390	50/50	6.9390
316129	AC1-054 C	4.4267	Adder	5.21
316131	AB2-060 C	2.0245	50/50	2.0245
924022	AB2-043 E O1	3.8772	50/50	3.8772
924162	AB2-060 E OP	6.0385	50/50	6.0385
924301	AB2-077 C O1 (Suspended)	2.7025	50/50	2.7025
924302	AB2-077 E O1 (Suspended)	1.8017	50/50	1.8017
924311	AB2-078 C O1 (Suspended)	2.7025	50/50	2.7025
924312	AB2-078 E O1 (Suspended)	1.8017	50/50	1.8017
924321	AB2-079 C O1 (Suspended)	2.7025	50/50	2.7025
924322	AB2-079 E O1 (Suspended)	1.8017	50/50	1.8017
925611	AC1-036 C	0.4357	50/50	0.4357
925612	AC1-036 E	1.6538	50/50	1.6538
925785	AC1-054 E	2.0392	Adder	2.4
925997	AC1-075 E	2.4237	Adder	2.85
926024	AC1-080 E	0.8042	Adder	0.95
926274	AC1-105 E	3.4092	50/50	3.4092
927251	AC1-221 C	1.4351	Adder	1.69
927252	AC1-221 E	1.4351	Adder	1.69
927261	AC1-222 C	4.1245	50/50	4.1245
927262	AC1-222 E	3.9264	50/50	3.9264

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932761	AC2-100 C	3.3027	Adder	3.89
932762	AC2-100 E	1.6120	Adder	1.9
934311	AD1-055 C	2.8637	50/50	2.8637
934312	AD1-055 E	0.7385	50/50	0.7385
934341	AD1-058 C	3.5976	Adder	4.23
934342	AD1-058 E	0.9141	Adder	1.08
934615	AD1-087 C	13.1301	50/50	13.1301
934616	AD1-087 E	5.6186	50/50	5.6186
934625	AD1-088 C	29.0891	50/50	29.0891
934626	AD1-088 E	7.6186	50/50	7.6186
934991	AD1-131 C	1.1795	Adder	1.39
934992	AD1-131 E	0.7864	Adder	0.93
935171	AD1-152 C O1	14.4221	50/50	14.4221
935172	AD1-152 E O1	9.6147	50/50	9.6147
935221	AD1-157 C	0.6070	50/50	0.6070
935222	AD1-157 E	2.5648	50/50	2.5648
936265	AD2-033 C	23.6707	50/50	23.6707
936266	AD2-033 E	15.7804	50/50	15.7804
936361	AD2-046 C O1	9.3642	50/50	9.3642
936362	AD2-046 E O1	4.3062	50/50	4.3062
936485	AD2-063 C	23.8266	50/50	23.8266
936486	AD2-063 E	15.8844	50/50	15.8844
937481	AD2-202 C O1	3.8459	50/50	3.8459
937482	AD2-202 E O1	2.1633	50/50	2.1633
938371	AE1-056 C	16.5854	50/50	16.5854
938372	AE1-056 E	9.0622	50/50	9.0622
939181	AE1-148 C	9.3550	50/50	9.3550
939182	AE1-148 E	6.2366	50/50	6.2366
940661	AE2-053 O1	3.4648	50/50	3.4648
941791	AE2-182 C	4.7260	50/50	4.7260
941792	AE2-182 E	2.2000	50/50	2.2000
942451	AE2-258	3.2348	50/50	3.2348
942461	AE2-259 C O1	30.1980	50/50	30.1980
942462	AE2-259 E O1	20.1320	50/50	20.1320
943901	AF1-058 C	2.3251	50/50	2.3251
943902	AF1-058 E	1.5501	50/50	1.5501
943911	AF1-059	13.2458	Adder	15.58
945811	AF1-246 C O1	12.6559	50/50	12.6559
945812	AF1-246 E O1	17.4771	50/50	17.4771

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946293	AF1-293 BAT	11.1710	Merchant Transmission	11.1710
946301	AF1-294 C	10.1890	50/50	10.1890
946302	AF1-294 E	6.7927	50/50	6.7927
957481	AF2-042 C	90.3990	50/50	90.3990
957482	AF2-042 E	60.2660	50/50	60.2660
958211	AF2-115 C	5.9936	50/50	5.9936
958212	AF2-115 E	3.9957	50/50	3.9957
958801	AF2-171 C	35.8218	50/50	35.8218
958802	AF2-171 E	23.8812	50/50	23.8812
959311	AF2-222 C	33.2310	50/50	33.2310
959312	AF2-222 E	22.2648	50/50	22.2648
959751	AF2-266	15.0675	50/50	15.0675
960061	AF2-297 C	9.3005	50/50	9.3005
960062	AF2-297 E	6.2003	50/50	6.2003
961063	AF2-397 BAT	7.8291	Merchant Transmission	7.8291
961791	AG1-021 C	4.7948	50/50	4.7948
961792	AG1-021 E	3.1966	50/50	3.1966
961891	AG1-030 C	33.4989	50/50	33.4989
961892	AG1-030 E	22.3326	50/50	22.3326
962041	AG1-048 C	29.9677	50/50	29.9677
962042	AG1-048 E	19.9785	50/50	19.9785
962441	AG1-093 C O2	23.3763	50/50	23.3763
962442	AG1-093 E O2	7.1145	50/50	7.1145
962491	AG1-098 C O2	18.5565	50/50	18.5565
962492	AG1-098 E O2	12.3710	50/50	12.3710
962561	AG1-105 C O2	12.7134	50/50	12.7134
962562	AG1-105 E O2	8.4756	50/50	8.4756
963171	AG1-166 C	4.7948	50/50	4.7948
963172	AG1-166 E	3.1966	50/50	3.1966
963181	AG1-167 C	4.7948	50/50	4.7948
963182	AG1-167 E	3.1966	50/50	3.1966
963191	AG1-168 C	4.7948	50/50	4.7948
963192	AG1-168 E	3.1966	50/50	3.1966
963201	AG1-169 C	4.7948	50/50	4.7948
963202	AG1-169 E	3.1966	50/50	3.1966
963211	AG1-170 C	4.7948	50/50	4.7948
963212	AG1-170 E	3.1966	50/50	3.1966

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963271	AG1-176 C O2	46.3597	50/50	46.3597
963272	AG1-176 E O2	30.9064	50/50	30.9064
963301	AG1-179 C	1.9551	Adder	4.34
963311	AG1-180	0.9526	Adder	2.11
963321	AG1-181 C O2	31.6301	50/50	31.6301
963361	AG1-185 O2	15.3034	50/50	15.3034
963641	AG1-215 C	2.2376	50/50	2.2376
963642	AG1-215 E	3.3564	50/50	3.3564
964111	AG1-272 C	4.9517	50/50	4.9517
964112	AG1-272 E	1.4707	50/50	1.4707
964121	AG1-273 C	4.9517	50/50	4.9517
964122	AG1-273 E	1.4707	50/50	1.4707
964131	AG1-274 C	4.9517	50/50	4.9517
964132	AG1-274 E	1.4707	50/50	1.4707
964241	AG1-285 C O2	22.5998	50/50	22.5998
964242	AG1-285 E O2	15.0665	50/50	15.0665
964261	AG1-287 C	1.7438	50/50	1.7438
964262	AG1-287 E	1.1626	50/50	1.1626
964471	AG1-310 C	2.3390	50/50	2.3390
964472	AG1-310 E	1.1520	50/50	1.1520
964791	AG1-342 C	5.2562	50/50	5.2562
964792	AG1-342 E	4.1299	50/50	4.1299
964821	AG1-345 C	1.9134	50/50	1.9134
964822	AG1-345 E	1.2756	50/50	1.2756
964841	AG1-347 C	23.7149	50/50	23.7149
964842	AG1-347 E	18.6331	50/50	18.6331
964931	AG1-357 C O2	31.6092	50/50	31.6092
964932	AG1-357 E O2	21.0728	50/50	21.0728
965191	AG1-384 C	4.9517	50/50	4.9517
965192	AG1-384 E	1.4707	50/50	1.4707
965281	AG1-393 C	4.7948	50/50	4.7948
965282	AG1-393 E	3.1966	50/50	3.1966
965451	AG1-413 C O2	6.8079	50/50	6.8079
965452	AG1-413 E O2	4.5386	50/50	4.5386
965582	AG1-426 BAT	1.1885	Merchant Transmission	1.1885
965591	AG1-427 C	18.2158	50/50	18.2158
965592	AG1-427 E	12.1695	50/50	12.1695
965601	AG1-428 C O2	1.6321	Adder	3.62

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965602	AG1-428 E O2	1.0862	Adder	2.41
965641	AG1-432 C O2	60.3960	50/50	60.3960
965642	AG1-432 E O2	40.2640	50/50	40.2640
965721	AG1-440 C	2.9154	Adder	6.47
965722	AG1-440 E	1.9436	Adder	4.31
965731	AG1-441 C	2.9154	Adder	6.47
965732	AG1-441 E	1.9436	Adder	4.31
965771	AG1-445	1.6844	Adder	3.74
965781	AG1-446	1.6844	Adder	3.74
965831	AG1-451	10.0660	50/50	10.0660
966361	AG1-505 C	27.1179	50/50	27.1179
966362	AG1-505 E	18.0786	50/50	18.0786
966371	AG1-506 C	27.1179	50/50	27.1179
966372	AG1-506 E	18.0786	50/50	18.0786
966751	AG1-546 C	4.9009	Adder	10.88
966752	AG1-546 E	2.6297	Adder	5.84
966792	AG1-550 BAT	2.7905	Merchant Transmission	2.7905
WEC	WEC	0.3062	Confirmed LTF	0.3062
LGEE	LGEE	0.6302	Confirmed LTF	0.6302
CPLE	CPLE	3.7169	Confirmed LTF	3.7169
CBM-W2	CBM-W2	13.9328	Confirmed LTF	13.9328
NY	NY	0.4053	Confirmed LTF	0.4053
TVA	TVA	2.6614	Confirmed LTF	2.6614
O-066	O-066	5.6128	Confirmed LTF	5.6128
SIGE	SIGE	0.2010	Confirmed LTF	0.2010
CBM-S2	CBM-S2	42.7309	Confirmed LTF	42.7309
CBM-S1	CBM-S1	0.6604	Confirmed LTF	0.6604
G-007	G-007	0.8820	Confirmed LTF	0.8820
MEC	MEC	1.8655	Confirmed LTF	1.8655
LAGN	LAGN	3.3058	Confirmed LTF	3.3058
AA2-074	AA2-074	2.4547	LTF	2.4547
CBM-W1	CBM-W1	12.7582	Confirmed LTF	12.7582

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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
174826091	941010	AE2-092 TAP	DVP	314774	3SHERWOD	DVP	1	DVP_P1-2: LN 2028-B-1	single	169.2	98.0	100.91	DC	4.92

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1118	80/20	0.1118
314677	6BUCKING	0.1716	80/20	0.1716
315191	1BEARGRDN G1	2.9664	80/20	2.9664
315192	1BEARGRDN G2	2.9664	80/20	2.9664
315193	1BEARGRDN S1	3.8361	80/20	3.8361
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.1691	80/20	0.1691
932854	AC2-112 C	-5.8435	Adder	-6.87
933501	AC2-165 C	3.3938	80/20	3.3938
938561	AE1-075 C	0.0972	80/20	0.0972
938821	AE1-108 C O1	10.9435	80/20	10.9435
941011	AE2-092 C	30.5466	80/20	30.5466
942461	AE2-259 C O1	3.3924	80/20	3.3924
946291	AF1-293 C O1	26.9341	80/20	26.9341
946591	AF1-323 C	3.4901	80/20	3.4901
958501	AF2-144 C	0.5237	80/20	0.5237
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.4826	80/20	0.4826
960111	AF2-302 C	1.2691	80/20	1.2691
961061	AF2-397 C	7.9412	80/20	7.9412
961801	AG1-022 C	1.2691	80/20	1.2691
963271	AG1-176 C O2	4.9200	80/20	4.9200
964231	AG1-284 C O2	6.4197	80/20	6.4197
965581	AG1-426	2.3842	80/20	2.3842
965641	AG1-432 C O2	6.7848	80/20	6.7848
965831	AG1-451	1.1308	80/20	1.1308
966791	AG1-550 O2	5.3498	80/20	5.3498
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	0.9028	80/20	0.9028
WEC	WEC	0.0019	Confirmed LTF	0.0019
LGEE	LGEE	0.0057	Confirmed LTF	0.0057
CPLE	CPLE	0.5678	Confirmed LTF	0.5678

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
CBM-W2	CBM-W2	1.0304	Confirmed LTF	1.0304
NY	NY	0.0758	Confirmed LTF	0.0758
TVA	TVA	0.2506	Confirmed LTF	0.2506
SIGE	SIGE	0.0162	Confirmed LTF	0.0162
CBM-S2	CBM-S2	6.1387	Confirmed LTF	6.1387
CBM-S1	CBM-S1	0.0562	Confirmed LTF	0.0562
MEC	MEC	0.0699	Confirmed LTF	0.0699
LAGN	LAGN	0.3133	Confirmed LTF	0.3133

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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
174006377	966860	AG1-557 TAP	DVP	314677	6BUCKING	DVP	1	DVP_P4-2: 511T556	breaker	684.0	197.89	209.17	DC	77.27

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.6841	50/50	0.6841
313853	3PONTONDP	1.5983	50/50	1.5983
314429	3JTRSVLE	1.0086	50/50	1.0086
314713	3PAMPLIN	4.1600	50/50	4.1600
315153	1CLOVER1	20.9906	50/50	20.9906
315154	1CLOVER2	20.7814	50/50	20.7814
315266	1PLYWOOD A	1.3921	50/50	1.3921
316118	AC1-105 C	6.9390	50/50	6.9390
316129	AC1-054 C	4.4267	Adder	5.21
316131	AB2-060 C	2.0245	50/50	2.0245
924022	AB2-043 E O1	3.8772	50/50	3.8772
924162	AB2-060 E OP	6.0385	50/50	6.0385
924301	AB2-077 C O1 (Suspended)	2.7025	50/50	2.7025
924302	AB2-077 E O1 (Suspended)	1.8017	50/50	1.8017
924311	AB2-078 C O1 (Suspended)	2.7025	50/50	2.7025
924312	AB2-078 E O1 (Suspended)	1.8017	50/50	1.8017
924321	AB2-079 C O1 (Suspended)	2.7025	50/50	2.7025
924322	AB2-079 E O1 (Suspended)	1.8017	50/50	1.8017
925611	AC1-036 C	0.4357	50/50	0.4357
925612	AC1-036 E	1.6538	50/50	1.6538
925785	AC1-054 E	2.0392	Adder	2.4
925997	AC1-075 E	2.4237	Adder	2.85
926024	AC1-080 E	0.8042	Adder	0.95
926274	AC1-105 E	3.4092	50/50	3.4092
927251	AC1-221 C	1.4351	Adder	1.69
927252	AC1-221 E	1.4351	Adder	1.69
927261	AC1-222 C	4.1245	50/50	4.1245
927262	AC1-222 E	3.9264	50/50	3.9264

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932761	AC2-100 C	3.3027	Adder	3.89
932762	AC2-100 E	1.6120	Adder	1.9
934311	AD1-055 C	2.8637	50/50	2.8637
934312	AD1-055 E	0.7385	50/50	0.7385
934341	AD1-058 C	3.5976	Adder	4.23
934342	AD1-058 E	0.9141	Adder	1.08
934615	AD1-087 C	13.1301	50/50	13.1301
934616	AD1-087 E	5.6186	50/50	5.6186
934625	AD1-088 C	29.0891	50/50	29.0891
934626	AD1-088 E	7.6186	50/50	7.6186
934991	AD1-131 C	1.1795	Adder	1.39
934992	AD1-131 E	0.7864	Adder	0.93
935171	AD1-152 C O1	14.4221	50/50	14.4221
935172	AD1-152 E O1	9.6147	50/50	9.6147
935221	AD1-157 C	0.6070	50/50	0.6070
935222	AD1-157 E	2.5648	50/50	2.5648
936265	AD2-033 C	23.6707	50/50	23.6707
936266	AD2-033 E	15.7804	50/50	15.7804
936361	AD2-046 C O1	9.3642	50/50	9.3642
936362	AD2-046 E O1	4.3062	50/50	4.3062
936485	AD2-063 C	23.8266	50/50	23.8266
936486	AD2-063 E	15.8844	50/50	15.8844
937481	AD2-202 C O1	3.8459	50/50	3.8459
937482	AD2-202 E O1	2.1633	50/50	2.1633
938371	AE1-056 C	16.5854	50/50	16.5854
938372	AE1-056 E	9.0622	50/50	9.0622
939181	AE1-148 C	9.3550	50/50	9.3550
939182	AE1-148 E	6.2366	50/50	6.2366
940661	AE2-053 O1	3.4648	50/50	3.4648
941791	AE2-182 C	4.7260	50/50	4.7260
941792	AE2-182 E	2.2000	50/50	2.2000
942451	AE2-258	3.2348	50/50	3.2348
942461	AE2-259 C O1	30.1980	50/50	30.1980
942462	AE2-259 E O1	20.1320	50/50	20.1320
943901	AF1-058 C	2.3251	50/50	2.3251
943902	AF1-058 E	1.5501	50/50	1.5501
943911	AF1-059	13.2458	Adder	15.58
945811	AF1-246 C O1	12.6559	50/50	12.6559
945812	AF1-246 E O1	17.4771	50/50	17.4771

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946293	AF1-293 BAT	11.1710	Merchant Transmission	11.1710
946301	AF1-294 C	10.1890	50/50	10.1890
946302	AF1-294 E	6.7927	50/50	6.7927
957481	AF2-042 C	90.3990	50/50	90.3990
957482	AF2-042 E	60.2660	50/50	60.2660
958211	AF2-115 C	5.9936	50/50	5.9936
958212	AF2-115 E	3.9957	50/50	3.9957
958801	AF2-171 C	35.8218	50/50	35.8218
958802	AF2-171 E	23.8812	50/50	23.8812
959311	AF2-222 C	33.2310	50/50	33.2310
959312	AF2-222 E	22.2648	50/50	22.2648
959751	AF2-266	15.0675	50/50	15.0675
960061	AF2-297 C	9.3005	50/50	9.3005
960062	AF2-297 E	6.2003	50/50	6.2003
961063	AF2-397 BAT	7.8291	Merchant Transmission	7.8291
961791	AG1-021 C	4.7948	50/50	4.7948
961792	AG1-021 E	3.1966	50/50	3.1966
961891	AG1-030 C	33.4989	50/50	33.4989
961892	AG1-030 E	22.3326	50/50	22.3326
962041	AG1-048 C	29.9677	50/50	29.9677
962042	AG1-048 E	19.9785	50/50	19.9785
962441	AG1-093 C O2	23.3763	50/50	23.3763
962442	AG1-093 E O2	7.1145	50/50	7.1145
962491	AG1-098 C O2	18.5565	50/50	18.5565
962492	AG1-098 E O2	12.3710	50/50	12.3710
962561	AG1-105 C O2	12.7134	50/50	12.7134
962562	AG1-105 E O2	8.4756	50/50	8.4756
963171	AG1-166 C	4.7948	50/50	4.7948
963172	AG1-166 E	3.1966	50/50	3.1966
963181	AG1-167 C	4.7948	50/50	4.7948
963182	AG1-167 E	3.1966	50/50	3.1966
963191	AG1-168 C	4.7948	50/50	4.7948
963192	AG1-168 E	3.1966	50/50	3.1966
963201	AG1-169 C	4.7948	50/50	4.7948
963202	AG1-169 E	3.1966	50/50	3.1966
963211	AG1-170 C	4.7948	50/50	4.7948
963212	AG1-170 E	3.1966	50/50	3.1966

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963271	AG1-176 C O2	46.3597	50/50	46.3597
963272	AG1-176 E O2	30.9064	50/50	30.9064
963301	AG1-179 C	1.9551	Adder	4.34
963311	AG1-180	0.9526	Adder	2.11
963321	AG1-181 C O2	31.6301	50/50	31.6301
963361	AG1-185 O2	15.3034	50/50	15.3034
963641	AG1-215 C	2.2376	50/50	2.2376
963642	AG1-215 E	3.3564	50/50	3.3564
964111	AG1-272 C	4.9517	50/50	4.9517
964112	AG1-272 E	1.4707	50/50	1.4707
964121	AG1-273 C	4.9517	50/50	4.9517
964122	AG1-273 E	1.4707	50/50	1.4707
964131	AG1-274 C	4.9517	50/50	4.9517
964132	AG1-274 E	1.4707	50/50	1.4707
964241	AG1-285 C O2	22.5998	50/50	22.5998
964242	AG1-285 E O2	15.0665	50/50	15.0665
964261	AG1-287 C	1.7438	50/50	1.7438
964262	AG1-287 E	1.1626	50/50	1.1626
964471	AG1-310 C	2.3390	50/50	2.3390
964472	AG1-310 E	1.1520	50/50	1.1520
964791	AG1-342 C	5.2562	50/50	5.2562
964792	AG1-342 E	4.1299	50/50	4.1299
964821	AG1-345 C	1.9134	50/50	1.9134
964822	AG1-345 E	1.2756	50/50	1.2756
964841	AG1-347 C	23.7149	50/50	23.7149
964842	AG1-347 E	18.6331	50/50	18.6331
964931	AG1-357 C O2	31.6092	50/50	31.6092
964932	AG1-357 E O2	21.0728	50/50	21.0728
965191	AG1-384 C	4.9517	50/50	4.9517
965192	AG1-384 E	1.4707	50/50	1.4707
965281	AG1-393 C	4.7948	50/50	4.7948
965282	AG1-393 E	3.1966	50/50	3.1966
965451	AG1-413 C O2	6.8079	50/50	6.8079
965452	AG1-413 E O2	4.5386	50/50	4.5386
965591	AG1-427 C	18.2158	50/50	18.2158
965592	AG1-427 E	12.1695	50/50	12.1695
965601	AG1-428 C O2	1.6321	Adder	3.62
965602	AG1-428 E O2	1.0862	Adder	2.41
965641	AG1-432 C O2	60.3960	50/50	60.3960

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965642	AG1-432 E O2	40.2640	50/50	40.2640
965721	AG1-440 C	2.9154	Adder	6.47
965722	AG1-440 E	1.9436	Adder	4.31
965731	AG1-441 C	2.9154	Adder	6.47
965732	AG1-441 E	1.9436	Adder	4.31
965771	AG1-445	1.6844	Adder	3.74
965781	AG1-446	1.6844	Adder	3.74
965831	AG1-451	10.0660	50/50	10.0660
966361	AG1-505 C	27.1179	50/50	27.1179
966362	AG1-505 E	18.0786	50/50	18.0786
966371	AG1-506 C	27.1179	50/50	27.1179
966372	AG1-506 E	18.0786	50/50	18.0786
966792	AG1-550 BAT	2.7905	Merchant Transmission	2.7905
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	7.8628	50/50	7.8628
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	5.2418	50/50	5.2418
WEC	WEC	0.3062	Confirmed LTF	0.3062
LGEE	LGEE	0.6302	Confirmed LTF	0.6302
CPLE	CPLE	3.7169	Confirmed LTF	3.7169
CBM-W2	CBM-W2	13.9328	Confirmed LTF	13.9328
NY	NY	0.4053	Confirmed LTF	0.4053
TVA	TVA	2.6614	Confirmed LTF	2.6614
O-066	O-066	5.6128	Confirmed LTF	5.6128
SIGE	SIGE	0.2010	Confirmed LTF	0.2010
CBM-S2	CBM-S2	42.7309	Confirmed LTF	42.7309
CBM-S1	CBM-S1	0.6604	Confirmed LTF	0.6604
G-007	G-007	0.8820	Confirmed LTF	0.8820
MEC	MEC	1.8655	Confirmed LTF	1.8655
LAGN	LAGN	3.3058	Confirmed LTF	3.3058
AA2-074	AA2-074	2.4547	LTF	2.4547
CBM-W1	CBM-W1	12.7582	Confirmed LTF	12.7582

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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
174204887	314686	6CLOVER	DVP	314906	8CLOVER	DVP	2	DVP_P4-5: L912	breaker	1275.1	99.43	102.76	DC	42.72

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.4450	50/50	0.4450
313853	3PONTONDP	0.7271	50/50	0.7271
314429	3JTRSVLE	0.4589	50/50	0.4589
314677	6BUCKING	0.3319	50/50	0.3319
314713	3PAMPLIN	1.8208	50/50	1.8208
315153	1CLOVER1	34.1185	50/50	34.1185
315154	1CLOVER2	33.7785	50/50	33.7785
315266	1PLYWOOD A	1.6528	50/50	1.6528
316118	AC1-105 C	7.9771	50/50	7.9771
316123	AC1-075 C	1.0733	50/50	1.0733
316131	AB2-060 C	1.2919	50/50	1.2919
924022	AB2-043 E O1	2.5222	50/50	2.5222
924032	AB2-045 E	0.9818	50/50	0.9818
924162	AB2-060 E OP	3.8536	50/50	3.8536
924301	AB2-077 C O1 (Suspended)	1.8008	50/50	1.8008
924302	AB2-077 E O1 (Suspended)	1.2006	50/50	1.2006
924311	AB2-078 C O1 (Suspended)	1.8008	50/50	1.8008
924312	AB2-078 E O1 (Suspended)	1.2006	50/50	1.2006
924321	AB2-079 C O1 (Suspended)	1.8008	50/50	1.8008
924322	AB2-079 E O1 (Suspended)	1.2006	50/50	1.2006
925611	AC1-036 C	0.2263	50/50	0.2263
925612	AC1-036 E	0.8588	50/50	0.8588
925997	AC1-075 E	3.8544	50/50	3.8544
926023	AC1-080 C	0.3587	50/50	0.3587
926024	AC1-080 E	1.2789	50/50	1.2789
926274	AC1-105 E	3.9192	50/50	3.9192
927251	AC1-221 C	2.1044	50/50	2.1044
927252	AC1-221 E	2.1044	50/50	2.1044
927261	AC1-222 C	5.4071	50/50	5.4071

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
927262	AC1-222 E	5.1474	50/50	5.1474
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3270	50/50	0.3270
932512	AC2-071 E (Withdrawn : 01/22/2021)	1.0441	50/50	1.0441
932761	AC2-100 C	4.8431	50/50	4.8431
932762	AC2-100 E	2.3639	50/50	2.3639
934311	AD1-055 C	3.7543	50/50	3.7543
934312	AD1-055 E	0.9681	50/50	0.9681
934341	AD1-058 C	5.2755	50/50	5.2755
934342	AD1-058 E	1.3405	50/50	1.3405
934615	AD1-087 C	21.3278	50/50	21.3278
934616	AD1-087 E	9.1265	50/50	9.1265
934625	AD1-088 C	27.8010	50/50	27.8010
934626	AD1-088 E	7.2812	50/50	7.2812
934991	AD1-131 C	1.7297	50/50	1.7297
934992	AD1-131 E	1.1531	50/50	1.1531
935171	AD1-152 C O1	23.4264	50/50	23.4264
935172	AD1-152 E O1	15.6176	50/50	15.6176
935221	AD1-157 C	0.2657	50/50	0.2657
935222	AD1-157 E	1.1225	50/50	1.1225
936265	AD2-033 C	12.7475	50/50	12.7475
936266	AD2-033 E	8.4984	50/50	8.4984
936361	AD2-046 C O1	5.3404	Adder	6.28
936362	AD2-046 E O1	2.4558	Adder	2.89
936485	AD2-063 C	14.0391	50/50	14.0391
936486	AD2-063 E	9.3594	50/50	9.3594
937481	AD2-202 C O1	6.2470	50/50	6.2470
937482	AD2-202 E O1	3.5140	50/50	3.5140
938371	AE1-056 C	7.2591	50/50	7.2591
938372	AE1-056 E	3.9663	50/50	3.9663
939181	AE1-148 C	6.2667	50/50	6.2667
939182	AE1-148 E	4.1778	50/50	4.1778
940661	AE2-053 O1	1.9728	Adder	2.32
941791	AE2-182 C	4.5167	50/50	4.5167
941792	AE2-182 E	2.1026	50/50	2.1026
942451	AE2-258	2.1043	50/50	2.1043
942461	AE2-259 C O1	12.0948	50/50	12.0948
942462	AE2-259 E O1	8.0632	50/50	8.0632
942751	AE2-291 C	9.3171	50/50	9.3171

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942752	AE2-291 E	6.2114	50/50	6.2114
942761	AE2-292 C O1	11.6007	50/50	11.6007
942762	AE2-292 E O1	7.7338	50/50	7.7338
943901	AF1-058 C	3.0301	50/50	3.0301
943902	AF1-058 E	2.0201	50/50	2.0201
946301	AF1-294 C	4.6354	50/50	4.6354
946302	AF1-294 E	3.0903	50/50	3.0903
958211	AF2-115 C	2.7267	50/50	2.7267
958212	AF2-115 E	1.8178	50/50	1.8178
958801	AF2-171 C	16.3314	50/50	16.3314
958802	AF2-171 E	10.8876	50/50	10.8876
959311	AF2-222 C	16.8900	50/50	16.8900
959312	AF2-222 E	11.3163	50/50	11.3163
959751	AF2-266	24.4910	50/50	24.4910
960061	AF2-297 C	12.1205	50/50	12.1205
960062	AF2-297 E	8.0803	50/50	8.0803
961741	AG1-014 BAT	10.0467	Merchant Transmission	10.0467
961751	AG1-015 BAT	8.0373	Merchant Transmission	8.0373
961791	AG1-021 C	2.1814	50/50	2.1814
961792	AG1-021 E	1.4542	50/50	1.4542
961891	AG1-030 C	15.8895	50/50	15.8895
961892	AG1-030 E	10.5930	50/50	10.5930
962041	AG1-048 C	13.6335	50/50	13.6335
962042	AG1-048 E	9.0890	50/50	9.0890
962441	AG1-093 C O2	36.4532	50/50	36.4532
962442	AG1-093 E O2	11.0944	50/50	11.0944
962491	AG1-098 C O2	11.4548	50/50	11.4548
962492	AG1-098 E O2	7.6365	50/50	7.6365
962561	AG1-105 C O2	12.0078	50/50	12.0078
962562	AG1-105 E O2	8.0052	50/50	8.0052
963043	AG1-153 BAT	3.9309	Merchant Transmission	3.9309
963113	AG1-160 BAT	3.8367	Merchant Transmission	3.8367
963171	AG1-166 C	2.1814	50/50	2.1814
963172	AG1-166 E	1.4542	50/50	1.4542
963181	AG1-167 C	2.1814	50/50	2.1814

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963182	AG1-167 E	1.4542	50/50	1.4542
963191	AG1-168 C	2.1814	50/50	2.1814
963192	AG1-168 E	1.4542	50/50	1.4542
963201	AG1-169 C	2.1814	50/50	2.1814
963202	AG1-169 E	1.4542	50/50	1.4542
963211	AG1-170 C	2.1814	50/50	2.1814
963212	AG1-170 E	1.4542	50/50	1.4542
963271	AG1-176 C O2	25.6327	50/50	25.6327
963272	AG1-176 E O2	17.0884	50/50	17.0884
963321	AG1-181 C O2	16.6991	50/50	16.6991
963361	AG1-185 O2	8.0794	50/50	8.0794
963641	AG1-215 C	1.0180	50/50	1.0180
963642	AG1-215 E	1.5270	50/50	1.5270
964111	AG1-272 C	2.5714	50/50	2.5714
964112	AG1-272 E	0.7638	50/50	0.7638
964121	AG1-273 C	2.5714	50/50	2.5714
964122	AG1-273 E	0.7638	50/50	0.7638
964131	AG1-274 C	2.5714	50/50	2.5714
964132	AG1-274 E	0.7638	50/50	0.7638
964261	AG1-287 C	2.2726	50/50	2.2726
964262	AG1-287 E	1.5151	50/50	1.5151
964471	AG1-310 C	3.0745	50/50	3.0745
964472	AG1-310 E	1.5143	50/50	1.5143
964791	AG1-342 C	5.2839	50/50	5.2839
964792	AG1-342 E	4.1517	50/50	4.1517
964821	AG1-345 C	0.8717	50/50	0.8717
964822	AG1-345 E	0.5811	50/50	0.5811
964841	AG1-347 C	20.9530	50/50	20.9530
964842	AG1-347 E	16.4630	50/50	16.4630
964931	AG1-357 C O2	18.6936	50/50	18.6936
964932	AG1-357 E O2	12.4624	50/50	12.4624
965191	AG1-384 C	2.5714	50/50	2.5714
965192	AG1-384 E	0.7638	50/50	0.7638
965281	AG1-393 C	2.1814	50/50	2.1814
965282	AG1-393 E	1.4542	50/50	1.4542
965451	AG1-413 C O2	1.7401	Adder	3.86
965452	AG1-413 E O2	1.1601	Adder	2.58
965591	AG1-427 C	10.9750	50/50	10.9750
965592	AG1-427 E	7.3321	50/50	7.3321

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965641	AG1-432 C O2	24.1896	50/50	24.1896
965642	AG1-432 E O2	16.1264	50/50	16.1264
965721	AG1-440 C	1.8768	Adder	4.17
965722	AG1-440 E	1.2512	Adder	2.78
965731	AG1-441 C	1.8768	Adder	4.17
965732	AG1-441 E	1.2512	Adder	2.78
965771	AG1-445	1.0844	Adder	2.41
965781	AG1-446	1.0844	Adder	2.41
965812	AG1-449 BAT	7.1010	Merchant Transmission	7.1010
965831	AG1-451	4.0316	50/50	4.0316
966691	AG1-539 C	4.8717	50/50	4.8717
966692	AG1-539 E	6.5463	50/50	6.5463
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.1413	50/50	2.1413
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	1.4275	50/50	1.4275
WEC	WEC	0.3978	Confirmed LTF	0.3978
LGEE	LGEE	0.8356	Confirmed LTF	0.8356
CPL	CPL	2.6181	Confirmed LTF	2.6181
CBM-W2	CBM-W2	14.4614	Confirmed LTF	14.4614
NY	NY	0.4109	Confirmed LTF	0.4109
TVA	TVA	2.5732	Confirmed LTF	2.5732
O-066	O-066	6.1041	Confirmed LTF	6.1041
SIGE	SIGE	0.2380	Confirmed LTF	0.2380
CBM-S2	CBM-S2	31.7063	Confirmed LTF	31.7063
CBM-S1	CBM-S1	0.6635	Confirmed LTF	0.6635
G-007	G-007	0.9618	Confirmed LTF	0.9618
MEC	MEC	2.2039	Confirmed LTF	2.2039
LAGN	LAGN	3.1483	Confirmed LTF	3.1483
AA2-074	AA2-074	1.7321	LTF	1.7321
CBM-W1	CBM-W1	16.8661	Confirmed LTF	16.8661

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
175428706	314747	6BREMO	DVP	313868	6CARTERV	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88	102.02	104.71	DC	21.56

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2811	80/20	0.2811
314429	3JTRSVLE	0.4835	80/20	0.4835
314677	6BUCKING	0.8051	80/20	0.8051
315153	1CLOVER1	4.3284	80/20	4.3284
315154	1CLOVER2	4.2852	80/20	4.2852
315158	1KERR 1	0.1411	80/20	0.1411
315159	1KERR 2	0.3952	80/20	0.3952
315160	1KERR 3	0.3952	80/20	0.3952
315161	1KERR 4	0.3952	80/20	0.3952
315162	1KERR 5	0.3952	80/20	0.3952
315163	1KERR 6	0.3952	80/20	0.3952
315164	1KERR 7	0.3952	80/20	0.3952
315191	1BEARGRDN G1	14.2612	80/20	14.2612
315192	1BEARGRDN G2	14.2612	80/20	14.2612
315193	1BEARGRDN S1	18.4425	80/20	18.4425
315266	1PLYWOOD A	0.4253	80/20	0.4253
316118	AC1-105 C	2.1876	80/20	2.1876
316131	AB2-060 C	0.8407	80/20	0.8407
924301	AB2-077 C O1 (Suspended)	1.0994	80/20	1.0994
924311	AB2-078 C O1 (Suspended)	1.0994	80/20	1.0994
924321	AB2-079 C O1 (Suspended)	1.0994	80/20	1.0994
925611	AC1-036 C	0.1990	80/20	0.1990
927261	AC1-222 C	1.2313	80/20	1.2313
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7931	80/20	0.7931
934311	AD1-055 C	0.8549	80/20	0.8549
934615	AD1-087 C	2.7103	80/20	2.7103
934625	AD1-088 C	10.6986	80/20	10.6986
935171	AD1-152 C O1	2.9770	80/20	2.9770
935221	AD1-157 C	0.2946	80/20	0.2946

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936265	AD2-033 C	10.6548	80/20	10.6548
936361	AD2-046 C O1	3.5828	80/20	3.5828
936485	AD2-063 C	10.3014	80/20	10.3014
937481	AD2-202 C O1	0.7939	80/20	0.7939
938371	AE1-056 C	8.0510	80/20	8.0510
938821	AE1-108 C O1	29.3760	80/20	29.3760
939181	AE1-148 C	3.5932	80/20	3.5932
940661	AE2-053 O1	1.3308	80/20	1.3308
941011	AE2-092 C	25.2822	80/20	25.2822
941791	AE2-182 C	1.7381	80/20	1.7381
942451	AE2-258	1.3291	80/20	1.3291
942461	AE2-259 C O1	15.0516	80/20	15.0516
943901	AF1-058 C	0.6646	80/20	0.6646
943911	AF1-059	5.9093	80/20	5.9093
946291	AF1-293 C O1	39.5443	80/20	39.5443
946301	AF1-294 C	4.8845	80/20	4.8845
946591	AF1-323 C	9.4261	80/20	9.4261
958131	AF2-107 C	4.3750	80/20	4.3750
958211	AF2-115 C	2.8733	80/20	2.8733
958801	AF2-171 C	17.1603	80/20	17.1603
959311	AF2-222 C	15.3100	80/20	15.3100
959751	AF2-266	3.1070	80/20	3.1070
960061	AF2-297 C	2.6582	80/20	2.6582
960111	AF2-302 C	3.4277	80/20	3.4277
961061	AF2-397 C	36.6538	80/20	36.6538
961791	AG1-021 C	2.2986	80/20	2.2986
961801	AG1-022 C	3.4277	80/20	3.4277
961891	AG1-030 C	15.8310	80/20	15.8310
962041	AG1-048 C	14.3663	80/20	14.3663
962441	AG1-093 C O2	5.1308	80/20	5.1308
962491	AG1-098 C O2	7.8412	80/20	7.8412
962561	AG1-105 C O2	4.5072	80/20	4.5072
962741	AG1-123 C O2	2.8673	80/20	2.8673
962751	AG1-124 C O2	4.0170	80/20	4.0170
963171	AG1-166 C	2.2986	80/20	2.2986
963181	AG1-167 C	2.2986	80/20	2.2986
963191	AG1-168 C	2.2986	80/20	2.2986
963201	AG1-169 C	2.2986	80/20	2.2986
963211	AG1-170 C	2.2986	80/20	2.2986

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963271	AG1-176 C O2	21.5558	80/20	21.5558
963321	AG1-181 C O2	14.3538	80/20	14.3538
963361	AG1-185 O2	6.9447	80/20	6.9447
963641	AG1-215 C	1.0727	80/20	1.0727
964111	AG1-272 C	2.2620	80/20	2.2620
964121	AG1-273 C	2.2620	80/20	2.2620
964131	AG1-274 C	2.2620	80/20	2.2620
964231	AG1-284 C O2	17.0478	80/20	17.0478
964261	AG1-287 C	0.4984	80/20	0.4984
964471	AG1-310 C	0.7118	80/20	0.7118
964791	AG1-342 C	1.8023	80/20	1.8023
964821	AG1-345 C	0.9168	80/20	0.9168
964841	AG1-347 C	9.1353	80/20	9.1353
964931	AG1-357 C O2	13.6428	80/20	13.6428
965191	AG1-384 C	2.2620	80/20	2.2620
965281	AG1-393 C	2.2986	80/20	2.2986
965451	AG1-413 C O2	2.6075	80/20	2.6075
965581	AG1-426	6.4000	80/20	6.4000
965591	AG1-427 C	7.7911	80/20	7.7911
965641	AG1-432 C O2	30.1032	80/20	30.1032
965721	AG1-440 C	2.3620	80/20	2.3620
965731	AG1-441 C	2.3620	80/20	2.3620
965771	AG1-445	1.3647	80/20	1.3647
965781	AG1-446	1.3647	80/20	1.3647
965831	AG1-451	5.0172	80/20	5.0172
966251	AG1-494 C	1.6494	80/20	1.6494
966791	AG1-550 O2	14.2065	80/20	14.2065
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1932	80/20	4.1932
WEC	WEC	0.1988	Confirmed LTF	0.1988
LGEE	LGEE	0.4247	Confirmed LTF	0.4247
CPL	CPL	1.0859	Confirmed LTF	1.0859
CBM-W2	CBM-W2	7.3114	Confirmed LTF	7.3114
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.3104	Confirmed LTF	1.3104
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.5012	Confirmed LTF	14.5012
CBM-S1	CBM-S1	0.3374	Confirmed LTF	0.3374
MEC	MEC	1.1075	Confirmed LTF	1.1075

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	1.5942	Confirmed LTF	1.5942
CBM-W1	CBM-W1	8.3419	Confirmed LTF	8.3419

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
174006427	934620	AD1-088 TAP	DVP	314686	6CLOVER	DVP	1	DVP_P4-2: 219322	breaker	699.0	90.04	107.28	DC	120.61

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.5789	50/50	0.5789
313853	3PONTONDP	1.8407	50/50	1.8407
314429	3JTRSVLE	1.1616	50/50	1.1616
314677	6BUCKING	1.6096	50/50	1.6096
314713	3PAMPLIN	4.9033	50/50	4.9033
315161	1KERR 4	0.7452	50/50	0.7452
315162	1KERR 5	0.7452	50/50	0.7452
315163	1KERR 6	0.7452	50/50	0.7452
315164	1KERR 7	0.7452	50/50	0.7452
316131	AB2-060 C	1.7524	50/50	1.7524
924022	AB2-043 E O1	3.2808	50/50	3.2808
924032	AB2-045 E	4.7609	50/50	4.7609
924162	AB2-060 E OP	5.2270	50/50	5.2270
924301	AB2-077 C O1 (Suspended)	2.2313	50/50	2.2313
924302	AB2-077 E O1 (Suspended)	1.4875	50/50	1.4875
924311	AB2-078 C O1 (Suspended)	2.2313	50/50	2.2313
924312	AB2-078 E O1 (Suspended)	1.4875	50/50	1.4875
924321	AB2-079 C O1 (Suspended)	2.2313	50/50	2.2313
924322	AB2-079 E O1 (Suspended)	1.4875	50/50	1.4875
925611	AC1-036 C	0.4580	50/50	0.4580
925612	AC1-036 E	1.7383	50/50	1.7383
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.5857	50/50	1.5857
932512	AC2-071 E (Withdrawn : 01/22/2021)	5.0632	50/50	5.0632
934625	AD1-088 C	63.1640	50/50	63.1640
934626	AD1-088 E	16.5430	50/50	16.5430
935221	AD1-157 C	0.7154	50/50	0.7154
935222	AD1-157 E	3.0230	50/50	3.0230

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936265	AD2-033 C	24.1714	50/50	24.1714
936266	AD2-033 E	16.1143	50/50	16.1143
936361	AD2-046 C O1	6.9048	50/50	6.9048
936362	AD2-046 E O1	3.1752	50/50	3.1752
936485	AD2-063 C	22.4433	50/50	22.4433
936486	AD2-063 E	14.9622	50/50	14.9622
938371	AE1-056 C	19.5486	50/50	19.5486
938372	AE1-056 E	10.6812	50/50	10.6812
939181	AE1-148 C	6.9525	50/50	6.9525
939182	AE1-148 E	4.6350	50/50	4.6350
940661	AE2-053 O1	2.5750	50/50	2.5750
941791	AE2-182 C	10.2619	50/50	10.2619
941792	AE2-182 E	4.7771	50/50	4.7771
942451	AE2-258	2.7372	50/50	2.7372
942461	AE2-259 C O1	37.3446	50/50	37.3446
942462	AE2-259 E O1	24.8964	50/50	24.8964
943911	AF1-059	12.7036	50/50	12.7036
946301	AF1-294 C	11.7346	50/50	11.7346
946302	AF1-294 E	7.8231	50/50	7.8231
958211	AF2-115 C	6.9027	50/50	6.9027
958212	AF2-115 E	4.6018	50/50	4.6018
958801	AF2-171 C	41.2011	50/50	41.2011
958802	AF2-171 E	27.4674	50/50	27.4674
959311	AF2-222 C	35.5040	50/50	35.5040
959312	AF2-222 E	23.7877	50/50	23.7877
961791	AG1-021 C	5.5222	50/50	5.5222
961792	AG1-021 E	3.6814	50/50	3.6814
961891	AG1-030 C	37.5651	50/50	37.5651
961892	AG1-030 E	25.0434	50/50	25.0434
962041	AG1-048 C	34.5135	50/50	34.5135
962042	AG1-048 E	23.0090	50/50	23.0090
962491	AG1-098 C O2	16.6673	50/50	16.6673
962492	AG1-098 E O2	11.1115	50/50	11.1115
962561	AG1-105 C O2	6.7818	50/50	6.7818
962562	AG1-105 E O2	4.5212	50/50	4.5212
963171	AG1-166 C	5.5222	50/50	5.5222
963172	AG1-166 E	3.6814	50/50	3.6814
963181	AG1-167 C	5.5222	50/50	5.5222
963182	AG1-167 E	3.6814	50/50	3.6814

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963191	AG1-168 C	5.5222	50/50	5.5222
963192	AG1-168 E	3.6814	50/50	3.6814
963201	AG1-169 C	5.5222	50/50	5.5222
963202	AG1-169 E	3.6814	50/50	3.6814
963211	AG1-170 C	5.5222	50/50	5.5222
963212	AG1-170 E	3.6814	50/50	3.6814
963271	AG1-176 C O2	72.3655	50/50	72.3655
963272	AG1-176 E O2	48.2436	50/50	48.2436
963321	AG1-181 C O2	32.8199	50/50	32.8199
963361	AG1-185 O2	15.8791	50/50	15.8791
963641	AG1-215 C	2.5770	50/50	2.5770
963642	AG1-215 E	3.8655	50/50	3.8655
964111	AG1-272 C	5.2047	50/50	5.2047
964112	AG1-272 E	1.5459	50/50	1.5459
964121	AG1-273 C	5.2047	50/50	5.2047
964122	AG1-273 E	1.5459	50/50	1.5459
964131	AG1-274 C	5.2047	50/50	5.2047
964132	AG1-274 E	1.5459	50/50	1.5459
964821	AG1-345 C	2.2018	50/50	2.2018
964822	AG1-345 E	1.4679	50/50	1.4679
964841	AG1-347 C	48.8998	50/50	48.8998
964842	AG1-347 E	38.4212	50/50	38.4212
964931	AG1-357 C O2	29.6676	50/50	29.6676
964932	AG1-357 E O2	19.7784	50/50	19.7784
965191	AG1-384 C	5.2047	50/50	5.2047
965192	AG1-384 E	1.5459	50/50	1.5459
965281	AG1-393 C	5.5222	50/50	5.5222
965282	AG1-393 E	3.6814	50/50	3.6814
965451	AG1-413 C O2	5.5753	50/50	5.5753
965452	AG1-413 E O2	3.7169	50/50	3.7169
965591	AG1-427 C	16.7803	50/50	16.7803
965592	AG1-427 E	11.2105	50/50	11.2105
965641	AG1-432 C O2	74.6892	50/50	74.6892
965642	AG1-432 E O2	49.7928	50/50	49.7928
965831	AG1-451	12.4482	50/50	12.4482
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	9.0684	50/50	9.0684
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	6.0456	50/50	6.0456

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
WEC	WEC	0.0233	Confirmed LTF	0.0233
LGEE	LGEE	0.0496	Confirmed LTF	0.0496
CPL	CPL	0.2539	Confirmed LTF	0.2539
CBM-W2	CBM-W2	0.9677	Confirmed LTF	0.9677
NY	NY	0.0420	Confirmed LTF	0.0420
TVA	TVA	0.1806	Confirmed LTF	0.1806
O-066	O-066	0.5855	Confirmed LTF	0.5855
SIGE	SIGE	0.0177	Confirmed LTF	0.0177
CBM-S2	CBM-S2	2.6726	Confirmed LTF	2.6726
CBM-S1	CBM-S1	0.0456	Confirmed LTF	0.0456
G-007	G-007	0.0924	Confirmed LTF	0.0924
MEC	MEC	0.1367	Confirmed LTF	0.1367
LAGN	LAGN	0.2223	Confirmed LTF	0.2223
CBM-W1	CBM-W1	0.9814	Confirmed LTF	0.9814

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
172895602	964930	AG1-357 TAP	DVP	962490	AG1-098 TAP	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	98.35	103.04	DC	16.34

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	1.9704	50/50	1.9704
314429	3JTRSVLE	1.2434	50/50	1.2434
314677	6BUCKING	0.2944	50/50	0.2944
314713	3PAMPLIN	0.7398	Adder	0.87
924032	AB2-045 E	0.8708	50/50	0.8708
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.2900	50/50	0.2900
932512	AC2-071 E (Withdrawn : 01/22/2021)	0.9261	50/50	0.9261
935222	AD1-157 E	0.4561	Adder	0.54
936265	AD2-033 C	55.9237	50/50	55.9237
936266	AD2-033 E	37.2824	50/50	37.2824
938371	AE1-056 C	2.9494	Adder	3.47
938372	AE1-056 E	1.6115	Adder	1.9
942461	AE2-259 C O1	9.9486	50/50	9.9486
942462	AE2-259 E O1	6.6324	50/50	6.6324
946301	AF1-294 C	12.5610	50/50	12.5610
946302	AF1-294 E	8.3740	50/50	8.3740
958211	AF2-115 C	7.3889	50/50	7.3889
958212	AF2-115 E	4.9259	50/50	4.9259
961791	AG1-021 C	5.9111	50/50	5.9111
961792	AG1-021 E	3.9407	50/50	3.9407
961891	AG1-030 C	50.0823	50/50	50.0823
961892	AG1-030 E	33.3882	50/50	33.3882
962041	AG1-048 C	36.9443	50/50	36.9443
962042	AG1-048 E	24.6295	50/50	24.6295
963171	AG1-166 C	5.9111	50/50	5.9111
963172	AG1-166 E	3.9407	50/50	3.9407
963181	AG1-167 C	5.9111	50/50	5.9111
963182	AG1-167 E	3.9407	50/50	3.9407
963191	AG1-168 C	5.9111	50/50	5.9111
963192	AG1-168 E	3.9407	50/50	3.9407

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963201	AG1-169 C	5.9111	50/50	5.9111
963202	AG1-169 E	3.9407	50/50	3.9407
963211	AG1-170 C	5.9111	50/50	5.9111
963212	AG1-170 E	3.9407	50/50	3.9407
963271	AG1-176 C O2	9.8042	50/50	9.8042
963272	AG1-176 E O2	6.5361	50/50	6.5361
963641	AG1-215 C	2.7585	50/50	2.7585
963642	AG1-215 E	4.1378	50/50	4.1378
964821	AG1-345 C	2.3749	50/50	2.3749
964822	AG1-345 E	1.5833	50/50	1.5833
964931	AG1-357 C O2	97.2612	50/50	97.2612
964932	AG1-357 E O2	64.8408	50/50	64.8408
965281	AG1-393 C	5.9111	50/50	5.9111
965282	AG1-393 E	3.9407	50/50	3.9407
965641	AG1-432 C O2	19.8972	50/50	19.8972
965642	AG1-432 E O2	13.2648	50/50	13.2648
965831	AG1-451	3.3162	50/50	3.3162
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	1.6586	50/50	1.6586
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	1.1058	50/50	1.1058
G-007A	G-007A	0.0815	Confirmed LTF	0.0815
VFT	VFT	0.2129	Confirmed LTF	0.2129
CALDERWOOD	CALDERWOOD	0.0497	Confirmed LTF	0.0497
PRAIRIE	PRAIRIE	0.1808	Confirmed LTF	0.1808
CHEOAH	CHEOAH	0.0506	Confirmed LTF	0.0506
CBM-N	CBM-N	0.0396	Confirmed LTF	0.0396
COTTONWOOD	COTTONWOOD	0.1848	Confirmed LTF	0.1848
HAMLET	HAMLET	0.0889	Confirmed LTF	0.0889
GIBSON	GIBSON	0.0333	Confirmed LTF	0.0333
BLUEG	BLUEG	0.1042	Confirmed LTF	0.1042
TRIMBLE	TRIMBLE	0.0328	Confirmed LTF	0.0328
CATAWBA	CATAWBA	0.0490	Confirmed LTF	0.0490

13.5.9 Index 9

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
168385013	313707	6FORK UNION	DVP	961060	AF2-397 TAP	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	133.61	137.63	DC	26.65

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0115	80/20	14.0115
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9378	80/20	13.9378
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8267	80/20	13.8267
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0476	80/20	10.0476
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2764	80/20	2.2764
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4830	80/20	18.4830
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9990	80/20	0.9990
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1429	80/20	6.1429
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6135	80/20	3.6135
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7370	80/20	19.7370
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9960	80/20	3.9960

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961791	AG1-021 C	2.8908	80/20	2.8908
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0675	80/20	18.0675
962441	AG1-093 C O2	8.1291	80/20	8.1291
962491	AG1-098 C O2	10.6807	80/20	10.6807
962561	AG1-105 C O2	6.4428	80/20	6.4428
962741	AG1-123 C O2	3.0883	80/20	3.0883
962751	AG1-124 C O2	4.3368	80/20	4.3368
963171	AG1-166 C	2.8908	80/20	2.8908
963181	AG1-167 C	2.8908	80/20	2.8908
963191	AG1-168 C	2.8908	80/20	2.8908
963201	AG1-169 C	2.8908	80/20	2.8908
963211	AG1-170 C	2.8908	80/20	2.8908
963271	AG1-176 C O2	26.6508	80/20	26.6508
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O2	18.6814	80/20	18.6814
963361	AG1-185 O2	9.0386	80/20	9.0386
963641	AG1-215 C	1.3490	80/20	1.3490
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O2	20.2377	80/20	20.2377
964241	AG1-285 C O2	5.6317	80/20	5.6317
964261	AG1-287 C	0.7493	80/20	0.7493
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8188	80/20	11.8188
964931	AG1-357 C O2	18.3312	80/20	18.3312
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8908	80/20	2.8908
965451	AG1-413 C O2	4.0845	80/20	4.0845
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299
965601	AG1-428 C O2	2.2741	80/20	2.2741

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965641	AG1-432 C O2	36.9660	80/20	36.9660
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1610	80/20	6.1610
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966791	AG1-550 O2	16.8647	80/20	16.8647
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	5.0279	80/20	5.0279
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPL	CPL	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

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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
174006418	313802	6PRINCE EDW	DVP	314692	6FARMVIL	DVP	1	DVP_P4-2: 511T556	breaker	699.0	126.74	139.96	DC	92.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	-0.4636	Adder	-0.55
315153	1CLOVER1	22.6895	50/50	22.6895
315154	1CLOVER2	22.4633	50/50	22.4633
315266	1PLYWOOD A	0.8779	50/50	0.8779
316118	AC1-105 C	4.0048	50/50	4.0048
316123	AC1-075 C	0.6069	50/50	0.6069
925997	AC1-075 E	2.1793	50/50	2.1793
926023	AC1-080 C	0.2028	50/50	0.2028
926024	AC1-080 E	0.7231	50/50	0.7231
926274	AC1-105 E	1.9676	50/50	1.9676
927251	AC1-221 C	1.5101	50/50	1.5101
927252	AC1-221 E	1.5101	50/50	1.5101
927261	AC1-222 C	3.1332	50/50	3.1332
927262	AC1-222 E	2.9827	50/50	2.9827
932761	AC2-100 C	3.4752	50/50	3.4752
932762	AC2-100 E	1.6963	50/50	1.6963
934311	AD1-055 C	2.1754	50/50	2.1754
934312	AD1-055 E	0.5610	50/50	0.5610
934341	AD1-058 C	3.7855	50/50	3.7855
934342	AD1-058 E	0.9619	50/50	0.9619
934615	AD1-087 C	14.1820	50/50	14.1820
934616	AD1-087 E	6.0687	50/50	6.0687
934625	AD1-088 C	33.5344	50/50	33.5344
934626	AD1-088 E	8.7828	50/50	8.7828
934991	AD1-131 C	1.2412	50/50	1.2412
934992	AD1-131 E	0.8274	50/50	0.8274
935171	AD1-152 C O1	15.5774	50/50	15.5774
935172	AD1-152 E O1	10.3850	50/50	10.3850
937481	AD2-202 C O1	4.1540	50/50	4.1540
937482	AD2-202 E O1	2.3366	50/50	2.3366
941791	AE2-182 C	5.4482	50/50	5.4482

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941792	AE2-182 E	2.5362	50/50	2.5362
942751	AE2-291 C	4.4025	Adder	5.18
942752	AE2-291 E	2.9350	Adder	3.45
942761	AE2-292 C O1	5.4815	Adder	6.45
942762	AE2-292 E O1	3.6543	Adder	4.3
943901	AF1-058 C	1.7642	50/50	1.7642
943902	AF1-058 E	1.1762	50/50	1.1762
945811	AF1-246 C O1	13.6807	50/50	13.6807
945812	AF1-246 E O1	18.8923	50/50	18.8923
946293	AF1-293 BAT	7.7876	Merchant Transmission	7.7876
957481	AF2-042 C	97.7190	50/50	97.7190
957482	AF2-042 E	65.1460	50/50	65.1460
959751	AF2-266	16.2870	50/50	16.2870
960061	AF2-297 C	7.0570	50/50	7.0570
960062	AF2-297 E	4.7046	50/50	4.7046
961063	AF2-397 BAT	5.4682	50/50	5.4682
962441	AG1-093 C O2	24.0672	50/50	24.0672
962442	AG1-093 E O2	7.3248	50/50	7.3248
962561	AG1-105 C O2	1.9170	Adder	4.26
962562	AG1-105 E O2	1.2780	Adder	2.84
963271	AG1-176 C O2	55.4481	50/50	55.4481
963272	AG1-176 E O2	36.9654	50/50	36.9654
963362	AG1-185 BAT	3.2622	Merchant Transmission	3.2622
963643	AG1-215 BAT	1.9088	50/50	1.9088
964113	AG1-272 BAT	0.7934	Merchant Transmission	0.7934
964123	AG1-273 BAT	0.7934	Merchant Transmission	0.7934
964133	AG1-274 BAT	0.7934	Merchant Transmission	0.7934
964241	AG1-285 C O2	24.4297	50/50	24.4297
964242	AG1-285 E O2	16.2865	50/50	16.2865
964261	AG1-287 C	1.3232	50/50	1.3232
964262	AG1-287 E	0.8821	50/50	0.8821
964471	AG1-310 C	1.7778	50/50	1.7778
964472	AG1-310 E	0.8756	50/50	0.8756
964791	AG1-342 C	0.9627	Adder	2.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964792	AG1-342 E	0.7564	Adder	1.68
964841	AG1-347 C	27.5223	50/50	27.5223
964842	AG1-347 E	21.6247	50/50	21.6247
965193	AG1-384 BAT	0.3400	Merchant Transmission	0.3400
965582	AG1-426 BAT	0.8211	Merchant Transmission	0.8211
965832	AG1-451 BAT	4.3542	50/50	4.3542
966361	AG1-505 C	29.3139	50/50	29.3139
966362	AG1-505 E	19.5426	50/50	19.5426
966371	AG1-506 C	29.3139	50/50	29.3139
966372	AG1-506 E	19.5426	50/50	19.5426
966691	AG1-539 C	1.2200	Adder	2.71
966692	AG1-539 E	1.6394	Adder	3.64
966792	AG1-550 BAT	3.6662	50/50	3.6662
WEC	WEC	0.2533	Confirmed LTF	0.2533
LGEE	LGEE	0.5221	Confirmed LTF	0.5221
CPLE	CPLE	2.8672	Confirmed LTF	2.8672
CBM-W2	CBM-W2	11.2358	Confirmed LTF	11.2358
NY	NY	0.3207	Confirmed LTF	0.3207
TVA	TVA	2.1308	Confirmed LTF	2.1308
O-066	O-066	4.4754	Confirmed LTF	4.4754
SIGE	SIGE	0.1632	Confirmed LTF	0.1632
CBM-S2	CBM-S2	33.3871	Confirmed LTF	33.3871
CBM-S1	CBM-S1	0.5309	Confirmed LTF	0.5309
G-007	G-007	0.7035	Confirmed LTF	0.7035
MEC	MEC	1.5254	Confirmed LTF	1.5254
LAGN	LAGN	2.6425	Confirmed LTF	2.6425
AA2-074	AA2-074	1.8936	LTF	1.8936
CBM-W1	CBM-W1	10.5711	Confirmed LTF	10.5711

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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
168385035	313867	6BREMIST	DVP	313707	6FORK UNION	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	134.79	139.21	DC	29.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1784	80/20	2.1784
313527	AB2-043 C	0.4243	80/20	0.4243
314429	3JTRSVLE	0.6669	80/20	0.6669
314572	3EMPORIA	0.1382	80/20	0.1382
314677	6BUCKING	1.0571	80/20	1.0571
314704	3LAWRENC	0.1410	80/20	0.1410
315126	1ROARAP2	0.4085	80/20	0.4085
315128	1ROARAP4	0.3898	80/20	0.3898
315153	1CLOVER1	7.5116	80/20	7.5116
315154	1CLOVER2	7.4368	80/20	7.4368
315158	1KERR 1	0.2345	80/20	0.2345
315159	1KERR 2	0.6567	80/20	0.6567
315160	1KERR 3	0.6567	80/20	0.6567
315161	1KERR 4	0.6567	80/20	0.6567
315162	1KERR 5	0.6567	80/20	0.6567
315163	1KERR 6	0.6567	80/20	0.6567
315164	1KERR 7	0.6567	80/20	0.6567
315191	1BEARGRDN G1	18.4998	80/20	18.4998
315192	1BEARGRDN G2	18.4998	80/20	18.4998
315193	1BEARGRDN S1	23.9239	80/20	23.9239
315266	1PLYWOOD A	0.6737	80/20	0.6737
316087	AB2-174 C	0.3606	80/20	0.3606
316118	AC1-105 C	3.4200	80/20	3.4200
316123	AC1-075 C	0.3763	80/20	0.3763
316129	AC1-054 C	3.4710	80/20	3.4710
316131	AB2-060 C	1.2609	80/20	1.2609
923991	AB2-040 C O1	2.3725	80/20	2.3725
924301	AB2-077 C O1 (Suspended)	1.6661	80/20	1.6661
924311	AB2-078 C O1 (Suspended)	1.6661	80/20	1.6661

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924321	AB2-079 C O1 (Suspended)	1.6661	80/20	1.6661
925611	AC1-036 C	0.2822	80/20	0.2822
926023	AC1-080 C	0.1258	80/20	0.1258
927251	AC1-221 C	0.7947	80/20	0.7947
927261	AC1-222 C	1.8844	80/20	1.8844
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.0414	80/20	1.0414
932761	AC2-100 C	1.8288	80/20	1.8288
933501	AC2-165 C	34.9923	80/20	34.9923
934311	AD1-055 C	1.3084	80/20	1.3084
934341	AD1-058 C	1.9921	80/20	1.9921
934615	AD1-087 C	4.7030	80/20	4.7030
934625	AD1-088 C	15.3924	80/20	15.3924
934991	AD1-131 C	0.6532	80/20	0.6532
935171	AD1-152 C O1	5.1658	80/20	5.1658
935221	AD1-157 C	0.4035	80/20	0.4035
936265	AD2-033 C	15.2365	80/20	15.2365
936361	AD2-046 C O1	5.8230	80/20	5.8230
936485	AD2-063 C	15.0849	80/20	15.0849
937481	AD2-202 C O1	1.3775	80/20	1.3775
938371	AE1-056 C	11.0258	80/20	11.0258
938821	AE1-108 C O1	11.0123	80/20	11.0123
939181	AE1-148 C	5.8169	80/20	5.8169
940661	AE2-053 O1	2.1544	80/20	2.1544
941791	AE2-182 C	2.5007	80/20	2.5007
942451	AE2-258	2.0064	80/20	2.0064
942461	AE2-259 C O1	20.3100	80/20	20.3100
942751	AE2-291 C	3.2791	80/20	3.2791
942761	AE2-292 C O1	4.0828	80/20	4.0828
943901	AF1-058 C	1.0548	80/20	1.0548
943911	AF1-059	10.2781	80/20	10.2781
945811	AF1-246 C O1	3.6616	80/20	3.6616
946281	AF1-292 C	0.4969	80/20	0.4969
946291	AF1-293 C O1	6.2287	80/20	6.2287
946301	AF1-294 C	6.7366	80/20	6.7366
946591	AF1-323 C	3.5356	80/20	3.5356
957481	AF2-042 C	26.1540	80/20	26.1540
958131	AF2-107 C	1.6496	80/20	1.6496
958211	AF2-115 C	3.9627	80/20	3.9627

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958801	AF2-171 C	23.6772	80/20	23.6772
959311	AF2-222 C	21.6010	80/20	21.6010
959751	AF2-266	5.3920	80/20	5.3920
960061	AF2-297 C	4.2192	80/20	4.2192
960081	AF2-299 C	0.8375	80/20	0.8375
960111	AF2-302 C	1.2857	80/20	1.2857
961791	AG1-021 C	3.1702	80/20	3.1702
961801	AG1-022 C	1.2857	80/20	1.2857
961891	AG1-030 C	22.0122	80/20	22.0122
962041	AG1-048 C	19.8135	80/20	19.8135
962441	AG1-093 C O2	8.8246	80/20	8.8246
962491	AG1-098 C O2	11.6385	80/20	11.6385
962561	AG1-105 C O2	6.9312	80/20	6.9312
963171	AG1-166 C	3.1702	80/20	3.1702
963181	AG1-167 C	3.1702	80/20	3.1702
963191	AG1-168 C	3.1702	80/20	3.1702
963201	AG1-169 C	3.1702	80/20	3.1702
963211	AG1-170 C	3.1702	80/20	3.1702
963271	AG1-176 C O2	29.3068	80/20	29.3068
963301	AG1-179 C	2.9803	80/20	2.9803
963311	AG1-180	1.4521	80/20	1.4521
963321	AG1-181 C O2	20.4293	80/20	20.4293
963361	AG1-185 O2	9.8842	80/20	9.8842
963641	AG1-215 C	1.4794	80/20	1.4794
964111	AG1-272 C	3.2072	80/20	3.2072
964121	AG1-273 C	3.2072	80/20	3.2072
964131	AG1-274 C	3.2072	80/20	3.2072
964231	AG1-284 C O2	6.3853	80/20	6.3853
964241	AG1-285 C O2	6.2010	80/20	6.2010
964261	AG1-287 C	0.7911	80/20	0.7911
964471	AG1-310 C	1.0721	80/20	1.0721
964791	AG1-342 C	2.7841	80/20	2.7841
964821	AG1-345 C	1.2648	80/20	1.2648
964841	AG1-347 C	12.9864	80/20	12.9864
964931	AG1-357 C O2	19.9968	80/20	19.9968
965191	AG1-384 C	3.2072	80/20	3.2072
965281	AG1-393 C	3.1702	80/20	3.1702
965451	AG1-413 C O2	4.4581	80/20	4.4581
965581	AG1-426	2.3992	80/20	2.3992

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	11.4819	80/20	11.4819
965601	AG1-428 C O2	2.4880	80/20	2.4880
965641	AG1-432 C O2	40.6200	80/20	40.6200
965721	AG1-440 C	4.1121	80/20	4.1121
965731	AG1-441 C	4.1121	80/20	4.1121
965771	AG1-445	2.3759	80/20	2.3759
965781	AG1-446	2.3759	80/20	2.3759
965831	AG1-451	6.7700	80/20	6.7700
966361	AG1-505 C	4.9734	80/20	4.9734
966371	AG1-506 C	4.9734	80/20	4.9734
966621	AG1-532 C	0.4522	80/20	0.4522
966691	AG1-539 C	1.7146	80/20	1.7146
966751	AG1-546 C	7.3410	80/20	7.3410
966791	AG1-550 O2	5.3211	80/20	5.3211
966811	AG1-552 C	0.6485	80/20	0.6485
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	5.5327	80/20	5.5327
WEC	WEC	0.0699	Confirmed LTF	0.0699
LGEE	LGEE	0.1483	Confirmed LTF	0.1483
CPLE	CPLE	2.3396	Confirmed LTF	2.3396
CBM-W2	CBM-W2	5.8061	Confirmed LTF	5.8061
NY	NY	0.4076	Confirmed LTF	0.4076
TVA	TVA	1.2558	Confirmed LTF	1.2558
SIGE	SIGE	0.1120	Confirmed LTF	0.1120
CBM-S2	CBM-S2	25.9121	Confirmed LTF	25.9121
CBM-S1	CBM-S1	0.2953	Confirmed LTF	0.2953
MEC	MEC	0.5863	Confirmed LTF	0.5863
LAGN	LAGN	1.5645	Confirmed LTF	1.5645
AA2-074	AA2-074	1.5426	LTF	1.5426
CBM-W1	CBM-W1	2.5236	Confirmed LTF	2.5236

13.5.12 Index 12

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
175428718	313868	6CARTERV	DVP	933500	AC2-165 TAP	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88	100.61	103.3	DC	21.56

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2811	80/20	0.2811
314429	3JTRSVLE	0.4835	80/20	0.4835
314677	6BUCKING	0.8051	80/20	0.8051
315153	1CLOVER1	4.3284	80/20	4.3284
315154	1CLOVER2	4.2852	80/20	4.2852
315158	1KERR 1	0.1411	80/20	0.1411
315159	1KERR 2	0.3952	80/20	0.3952
315160	1KERR 3	0.3952	80/20	0.3952
315161	1KERR 4	0.3952	80/20	0.3952
315162	1KERR 5	0.3952	80/20	0.3952
315163	1KERR 6	0.3952	80/20	0.3952
315164	1KERR 7	0.3952	80/20	0.3952
315191	1BEARGRDN G1	14.2612	80/20	14.2612
315192	1BEARGRDN G2	14.2612	80/20	14.2612
315193	1BEARGRDN S1	18.4425	80/20	18.4425
315266	1PLYWOOD A	0.4253	80/20	0.4253
316118	AC1-105 C	2.1876	80/20	2.1876
316131	AB2-060 C	0.8407	80/20	0.8407
924301	AB2-077 C O1 (Suspended)	1.0994	80/20	1.0994
924311	AB2-078 C O1 (Suspended)	1.0994	80/20	1.0994
924321	AB2-079 C O1 (Suspended)	1.0994	80/20	1.0994
925611	AC1-036 C	0.1990	80/20	0.1990
927261	AC1-222 C	1.2313	80/20	1.2313
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7931	80/20	0.7931
934311	AD1-055 C	0.8549	80/20	0.8549
934615	AD1-087 C	2.7103	80/20	2.7103
934625	AD1-088 C	10.6986	80/20	10.6986
935171	AD1-152 C O1	2.9770	80/20	2.9770
935221	AD1-157 C	0.2946	80/20	0.2946

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
936265	AD2-033 C	10.6548	80/20	10.6548
936361	AD2-046 C O1	3.5828	80/20	3.5828
936485	AD2-063 C	10.3014	80/20	10.3014
937481	AD2-202 C O1	0.7939	80/20	0.7939
938371	AE1-056 C	8.0510	80/20	8.0510
938821	AE1-108 C O1	29.3760	80/20	29.3760
939181	AE1-148 C	3.5932	80/20	3.5932
940661	AE2-053 O1	1.3308	80/20	1.3308
941011	AE2-092 C	25.2822	80/20	25.2822
941791	AE2-182 C	1.7381	80/20	1.7381
942451	AE2-258	1.3291	80/20	1.3291
942461	AE2-259 C O1	15.0516	80/20	15.0516
943901	AF1-058 C	0.6646	80/20	0.6646
943911	AF1-059	5.9093	80/20	5.9093
946291	AF1-293 C O1	39.5443	80/20	39.5443
946301	AF1-294 C	4.8845	80/20	4.8845
946591	AF1-323 C	9.4261	80/20	9.4261
958131	AF2-107 C	4.3750	80/20	4.3750
958211	AF2-115 C	2.8733	80/20	2.8733
958801	AF2-171 C	17.1603	80/20	17.1603
959311	AF2-222 C	15.3100	80/20	15.3100
959751	AF2-266	3.1070	80/20	3.1070
960061	AF2-297 C	2.6582	80/20	2.6582
960111	AF2-302 C	3.4277	80/20	3.4277
961061	AF2-397 C	36.6538	80/20	36.6538
961791	AG1-021 C	2.2986	80/20	2.2986
961801	AG1-022 C	3.4277	80/20	3.4277
961891	AG1-030 C	15.8310	80/20	15.8310
962041	AG1-048 C	14.3663	80/20	14.3663
962441	AG1-093 C O2	5.1308	80/20	5.1308
962491	AG1-098 C O2	7.8412	80/20	7.8412
962561	AG1-105 C O2	4.5072	80/20	4.5072
962741	AG1-123 C O2	2.8673	80/20	2.8673
962751	AG1-124 C O2	4.0170	80/20	4.0170
963171	AG1-166 C	2.2986	80/20	2.2986
963181	AG1-167 C	2.2986	80/20	2.2986
963191	AG1-168 C	2.2986	80/20	2.2986
963201	AG1-169 C	2.2986	80/20	2.2986
963211	AG1-170 C	2.2986	80/20	2.2986

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963271	AG1-176 C O2	21.5558	80/20	21.5558
963321	AG1-181 C O2	14.3538	80/20	14.3538
963361	AG1-185 O2	6.9447	80/20	6.9447
963641	AG1-215 C	1.0727	80/20	1.0727
964111	AG1-272 C	2.2620	80/20	2.2620
964121	AG1-273 C	2.2620	80/20	2.2620
964131	AG1-274 C	2.2620	80/20	2.2620
964231	AG1-284 C O2	17.0478	80/20	17.0478
964261	AG1-287 C	0.4984	80/20	0.4984
964471	AG1-310 C	0.7118	80/20	0.7118
964791	AG1-342 C	1.8023	80/20	1.8023
964821	AG1-345 C	0.9168	80/20	0.9168
964841	AG1-347 C	9.1353	80/20	9.1353
964931	AG1-357 C O2	13.6428	80/20	13.6428
965191	AG1-384 C	2.2620	80/20	2.2620
965281	AG1-393 C	2.2986	80/20	2.2986
965451	AG1-413 C O2	2.6075	80/20	2.6075
965581	AG1-426	6.4000	80/20	6.4000
965591	AG1-427 C	7.7911	80/20	7.7911
965641	AG1-432 C O2	30.1032	80/20	30.1032
965721	AG1-440 C	2.3620	80/20	2.3620
965731	AG1-441 C	2.3620	80/20	2.3620
965771	AG1-445	1.3647	80/20	1.3647
965781	AG1-446	1.3647	80/20	1.3647
965831	AG1-451	5.0172	80/20	5.0172
966251	AG1-494 C	1.6494	80/20	1.6494
966791	AG1-550 O2	14.2065	80/20	14.2065
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1932	80/20	4.1932
WEC	WEC	0.1988	Confirmed LTF	0.1988
LGEE	LGEE	0.4247	Confirmed LTF	0.4247
CPL	CPL	1.0859	Confirmed LTF	1.0859
CBM-W2	CBM-W2	7.3114	Confirmed LTF	7.3114
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.3104	Confirmed LTF	1.3104
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.5012	Confirmed LTF	14.5012
CBM-S1	CBM-S1	0.3374	Confirmed LTF	0.3374
MEC	MEC	1.1075	Confirmed LTF	1.1075

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
LAGN	LAGN	1.5942	Confirmed LTF	1.5942
CBM-W1	CBM-W1	8.3419	Confirmed LTF	8.3419

13.5.13 Index 13

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
164015325	313898	3BUTCHER CRK	DVP	314267	3CHASCTY2	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	148.68	153.35	DC	16.3

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	1.9692	50/50	1.9692
314429	3JTRSVLE	1.2427	50/50	1.2427
314677	6BUCKING	0.2938	50/50	0.2938
316131	AB2-060 C	7.5056	50/50	7.5056
924032	AB2-045 E	0.8690	50/50	0.8690
924162	AB2-060 E OP	22.3875	50/50	22.3875
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.2894	50/50	0.2894
932512	AC2-071 E (Withdrawn : 01/22/2021)	0.9241	50/50	0.9241
936265	AD2-033 C	55.9010	50/50	55.9010
936266	AD2-033 E	37.2674	50/50	37.2674
942461	AE2-259 C O1	9.9318	50/50	9.9318
942462	AE2-259 E O1	6.6212	50/50	6.6212
946301	AF1-294 C	12.5537	50/50	12.5537
946302	AF1-294 E	8.3691	50/50	8.3691
958211	AF2-115 C	7.3845	50/50	7.3845
958212	AF2-115 E	4.9230	50/50	4.9230
961791	AG1-021 C	5.9076	50/50	5.9076
961792	AG1-021 E	3.9384	50/50	3.9384
961891	AG1-030 C	50.0571	50/50	50.0571
961892	AG1-030 E	33.3714	50/50	33.3714
962041	AG1-048 C	36.9225	50/50	36.9225
962042	AG1-048 E	24.6150	50/50	24.6150
962491	AG1-098 C O2	63.5662	50/50	63.5662
962492	AG1-098 E O2	42.3775	50/50	42.3775
963171	AG1-166 C	5.9076	50/50	5.9076
963172	AG1-166 E	3.9384	50/50	3.9384
963181	AG1-167 C	5.9076	50/50	5.9076
963182	AG1-167 E	3.9384	50/50	3.9384
963191	AG1-168 C	5.9076	50/50	5.9076
963192	AG1-168 E	3.9384	50/50	3.9384

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963201	AG1-169 C	5.9076	50/50	5.9076
963202	AG1-169 E	3.9384	50/50	3.9384
963211	AG1-170 C	5.9076	50/50	5.9076
963212	AG1-170 E	3.9384	50/50	3.9384
963271	AG1-176 C O2	9.7782	50/50	9.7782
963272	AG1-176 E O2	6.5188	50/50	6.5188
963641	AG1-215 C	2.7569	50/50	2.7569
963642	AG1-215 E	4.1353	50/50	4.1353
964821	AG1-345 C	2.3736	50/50	2.3736
964822	AG1-345 E	1.5824	50/50	1.5824
964931	AG1-357 C O2	97.2276	50/50	97.2276
964932	AG1-357 E O2	64.8184	50/50	64.8184
965281	AG1-393 C	5.9076	50/50	5.9076
965282	AG1-393 E	3.9384	50/50	3.9384
965641	AG1-432 C O2	19.8636	50/50	19.8636
965642	AG1-432 E O2	13.2424	50/50	13.2424
965831	AG1-451	3.3106	50/50	3.3106
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	1.6552	50/50	1.6552
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	1.1034	50/50	1.1034
G-007A	G-007A	0.0120	Confirmed LTF	0.0120
VFT	VFT	0.0258	Confirmed LTF	0.0258
CALDERWOOD	CALDERWOOD	0.0641	Confirmed LTF	0.0641
NY	NY	0.0011	Confirmed LTF	0.0011
PRAIRIE	PRAIRIE	0.2557	Confirmed LTF	0.2557
CHEOAH	CHEOAH	0.0651	Confirmed LTF	0.0651
CBM-N	CBM-N	0.0048	Confirmed LTF	0.0048
COTTONWOOD	COTTONWOOD	0.2457	Confirmed LTF	0.2457
HAMLET	HAMLET	0.1057	Confirmed LTF	0.1057
GIBSON	GIBSON	0.0491	Confirmed LTF	0.0491
BLUEG	BLUEG	0.1545	Confirmed LTF	0.1545
TRIMBLE	TRIMBLE	0.0490	Confirmed LTF	0.0490
CATAWBA	CATAWBA	0.0591	Confirmed LTF	0.0591

13.5.14 Index 14

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
174006417	314268	6BRIERY	DVP	313802	6PRINCE EDW	DVP	1	DVP_P4-2: 511T556	breaker	699.0	126.77	139.99	DC	92.41

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	-0.4636	Adder	-0.55
315153	1CLOVER1	22.6895	50/50	22.6895
315154	1CLOVER2	22.4633	50/50	22.4633
315266	1PLYWOOD A	0.8779	50/50	0.8779
316118	AC1-105 C	4.0048	50/50	4.0048
316123	AC1-075 C	0.6069	50/50	0.6069
925997	AC1-075 E	2.1793	50/50	2.1793
926023	AC1-080 C	0.2028	50/50	0.2028
926024	AC1-080 E	0.7231	50/50	0.7231
926274	AC1-105 E	1.9676	50/50	1.9676
927251	AC1-221 C	1.5101	50/50	1.5101
927252	AC1-221 E	1.5101	50/50	1.5101
927261	AC1-222 C	3.1332	50/50	3.1332
927262	AC1-222 E	2.9827	50/50	2.9827
932761	AC2-100 C	3.4752	50/50	3.4752
932762	AC2-100 E	1.6963	50/50	1.6963
934311	AD1-055 C	2.1754	50/50	2.1754
934312	AD1-055 E	0.5610	50/50	0.5610
934341	AD1-058 C	3.7855	50/50	3.7855
934342	AD1-058 E	0.9619	50/50	0.9619
934615	AD1-087 C	14.1820	50/50	14.1820
934616	AD1-087 E	6.0687	50/50	6.0687
934625	AD1-088 C	33.5344	50/50	33.5344
934626	AD1-088 E	8.7828	50/50	8.7828
934991	AD1-131 C	1.2412	50/50	1.2412
934992	AD1-131 E	0.8274	50/50	0.8274
935171	AD1-152 C O1	15.5774	50/50	15.5774
935172	AD1-152 E O1	10.3850	50/50	10.3850
937481	AD2-202 C O1	4.1540	50/50	4.1540
937482	AD2-202 E O1	2.3366	50/50	2.3366
941791	AE2-182 C	5.4482	50/50	5.4482

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941792	AE2-182 E	2.5362	50/50	2.5362
942751	AE2-291 C	4.4025	Adder	5.18
942752	AE2-291 E	2.9350	Adder	3.45
942761	AE2-292 C O1	5.4815	Adder	6.45
942762	AE2-292 E O1	3.6543	Adder	4.3
943901	AF1-058 C	1.7642	50/50	1.7642
943902	AF1-058 E	1.1762	50/50	1.1762
945811	AF1-246 C O1	13.6807	50/50	13.6807
945812	AF1-246 E O1	18.8923	50/50	18.8923
946293	AF1-293 BAT	7.7876	Merchant Transmission	7.7876
957481	AF2-042 C	97.7190	50/50	97.7190
957482	AF2-042 E	65.1460	50/50	65.1460
959751	AF2-266	16.2870	50/50	16.2870
960061	AF2-297 C	7.0570	50/50	7.0570
960062	AF2-297 E	4.7046	50/50	4.7046
961063	AF2-397 BAT	5.4682	50/50	5.4682
962441	AG1-093 C O2	24.0672	50/50	24.0672
962442	AG1-093 E O2	7.3248	50/50	7.3248
962561	AG1-105 C O2	1.9170	Adder	4.26
962562	AG1-105 E O2	1.2780	Adder	2.84
963271	AG1-176 C O2	55.4481	50/50	55.4481
963272	AG1-176 E O2	36.9654	50/50	36.9654
963362	AG1-185 BAT	3.2622	Merchant Transmission	3.2622
963643	AG1-215 BAT	1.9088	50/50	1.9088
964113	AG1-272 BAT	0.7934	Merchant Transmission	0.7934
964123	AG1-273 BAT	0.7934	Merchant Transmission	0.7934
964133	AG1-274 BAT	0.7934	Merchant Transmission	0.7934
964241	AG1-285 C O2	24.4297	50/50	24.4297
964242	AG1-285 E O2	16.2865	50/50	16.2865
964261	AG1-287 C	1.3232	50/50	1.3232
964262	AG1-287 E	0.8821	50/50	0.8821
964471	AG1-310 C	1.7778	50/50	1.7778
964472	AG1-310 E	0.8756	50/50	0.8756
964791	AG1-342 C	0.9627	Adder	2.14

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964792	AG1-342 E	0.7564	Adder	1.68
964841	AG1-347 C	27.5223	50/50	27.5223
964842	AG1-347 E	21.6247	50/50	21.6247
965193	AG1-384 BAT	0.3400	Merchant Transmission	0.3400
965582	AG1-426 BAT	0.8211	Merchant Transmission	0.8211
965832	AG1-451 BAT	4.3542	50/50	4.3542
966361	AG1-505 C	29.3139	50/50	29.3139
966362	AG1-505 E	19.5426	50/50	19.5426
966371	AG1-506 C	29.3139	50/50	29.3139
966372	AG1-506 E	19.5426	50/50	19.5426
966691	AG1-539 C	1.2200	Adder	2.71
966692	AG1-539 E	1.6394	Adder	3.64
966792	AG1-550 BAT	3.6662	50/50	3.6662
WEC	WEC	0.2533	Confirmed LTF	0.2533
LGEE	LGEE	0.5221	Confirmed LTF	0.5221
CPLE	CPLE	2.8672	Confirmed LTF	2.8672
CBM-W2	CBM-W2	11.2358	Confirmed LTF	11.2358
NY	NY	0.3207	Confirmed LTF	0.3207
TVA	TVA	2.1308	Confirmed LTF	2.1308
O-066	O-066	4.4754	Confirmed LTF	4.4754
SIGE	SIGE	0.1632	Confirmed LTF	0.1632
CBM-S2	CBM-S2	33.3871	Confirmed LTF	33.3871
CBM-S1	CBM-S1	0.5309	Confirmed LTF	0.5309
G-007	G-007	0.7035	Confirmed LTF	0.7035
MEC	MEC	1.5254	Confirmed LTF	1.5254
LAGN	LAGN	2.6425	Confirmed LTF	2.6425
AA2-074	AA2-074	1.8936	LTF	1.8936
CBM-W1	CBM-W1	10.5711	Confirmed LTF	10.5711

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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
175225181	314310	6JUDES F	DVP	314322	6MDLTHAN	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88	106.4	109.09	DC	21.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2807	80/20	0.2807
314333	6POWHATN	1.5975	80/20	1.5975
314429	3JTRSVLE	0.4832	80/20	0.4832
314677	6BUCKING	0.8048	80/20	0.8048
315153	1CLOVER1	4.3193	80/20	4.3193
315154	1CLOVER2	4.2763	80/20	4.2763
315158	1KERR 1	0.1408	80/20	0.1408
315159	1KERR 2	0.3943	80/20	0.3943
315160	1KERR 3	0.3943	80/20	0.3943
315161	1KERR 4	0.3943	80/20	0.3943
315162	1KERR 5	0.3943	80/20	0.3943
315163	1KERR 6	0.3943	80/20	0.3943
315164	1KERR 7	0.3943	80/20	0.3943
315191	1BEARGRDN G1	14.2573	80/20	14.2573
315192	1BEARGRDN G2	14.2573	80/20	14.2573
315193	1BEARGRDN S1	18.4374	80/20	18.4374
315266	1PLYWOOD A	0.4243	80/20	0.4243
316118	AC1-105 C	2.1828	80/20	2.1828
316131	AB2-060 C	0.8395	80/20	0.8395
924301	AB2-077 C O1 (Suspended)	1.0978	80/20	1.0978
924311	AB2-078 C O1 (Suspended)	1.0978	80/20	1.0978
924321	AB2-079 C O1 (Suspended)	1.0978	80/20	1.0978
925611	AC1-036 C	0.1989	80/20	0.1989
927261	AC1-222 C	1.2284	80/20	1.2284
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7929	80/20	0.7929
933501	AC2-165 C	39.2365	80/20	39.2365
934311	AD1-055 C	0.8529	80/20	0.8529
934615	AD1-087 C	2.7046	80/20	2.7046
934625	AD1-088 C	10.6893	80/20	10.6893

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935171	AD1-152 C O1	2.9707	80/20	2.9707
935221	AD1-157 C	0.2944	80/20	0.2944
936265	AD2-033 C	10.6439	80/20	10.6439
936361	AD2-046 C O1	3.5752	80/20	3.5752
936485	AD2-063 C	10.2897	80/20	10.2897
937481	AD2-202 C O1	0.7922	80/20	0.7922
938371	AE1-056 C	8.0456	80/20	8.0456
938561	AE1-075 C	1.3891	80/20	1.3891
938821	AE1-108 C O1	29.3641	80/20	29.3641
939181	AE1-148 C	3.5861	80/20	3.5861
940661	AE2-053 O1	1.3282	80/20	1.3282
941011	AE2-092 C	25.2714	80/20	25.2714
941791	AE2-182 C	1.7366	80/20	1.7366
942451	AE2-258	1.3272	80/20	1.3272
942461	AE2-259 C O1	15.0438	80/20	15.0438
943901	AF1-058 C	0.6629	80/20	0.6629
943911	AF1-059	5.8955	80/20	5.8955
946291	AF1-293 C O1	39.5291	80/20	39.5291
946301	AF1-294 C	4.8810	80/20	4.8810
946591	AF1-323 C	9.4218	80/20	9.4218
958131	AF2-107 C	4.3708	80/20	4.3708
958211	AF2-115 C	2.8712	80/20	2.8712
958501	AF2-144 C	7.4840	80/20	7.4840
958801	AF2-171 C	17.1477	80/20	17.1477
959311	AF2-222 C	15.2960	80/20	15.2960
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8971	80/20	6.8971
959751	AF2-266	3.1005	80/20	3.1005
960061	AF2-297 C	2.6515	80/20	2.6515
960111	AF2-302 C	3.4261	80/20	3.4261
961061	AF2-397 C	36.6436	80/20	36.6436
961791	AG1-021 C	2.2969	80/20	2.2969
961801	AG1-022 C	3.4261	80/20	3.4261
961891	AG1-030 C	15.8193	80/20	15.8193
962041	AG1-048 C	14.3558	80/20	14.3558
962441	AG1-093 C O2	5.1180	80/20	5.1180
962491	AG1-098 C O2	7.8308	80/20	7.8308
962561	AG1-105 C O2	4.4994	80/20	4.4994
962741	AG1-123 C O2	2.8615	80/20	2.8615

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962751	AG1-124 C O2	4.0087	80/20	4.0087
963171	AG1-166 C	2.2969	80/20	2.2969
963181	AG1-167 C	2.2969	80/20	2.2969
963191	AG1-168 C	2.2969	80/20	2.2969
963201	AG1-169 C	2.2969	80/20	2.2969
963211	AG1-170 C	2.2969	80/20	2.2969
963271	AG1-176 C O2	21.5432	80/20	21.5432
963321	AG1-181 C O2	14.3396	80/20	14.3396
963361	AG1-185 O2	6.9379	80/20	6.9379
963641	AG1-215 C	1.0719	80/20	1.0719
964111	AG1-272 C	2.2600	80/20	2.2600
964121	AG1-273 C	2.2600	80/20	2.2600
964131	AG1-274 C	2.2600	80/20	2.2600
964231	AG1-284 C O2	17.0419	80/20	17.0419
964261	AG1-287 C	0.4972	80/20	0.4972
964471	AG1-310 C	0.7101	80/20	0.7101
964791	AG1-342 C	1.7990	80/20	1.7990
964821	AG1-345 C	0.9162	80/20	0.9162
964841	AG1-347 C	9.1274	80/20	9.1274
964931	AG1-357 C O2	13.6260	80/20	13.6260
965191	AG1-384 C	2.2600	80/20	2.2600
965281	AG1-393 C	2.2969	80/20	2.2969
965451	AG1-413 C O2	2.6017	80/20	2.6017
965581	AG1-426	6.3974	80/20	6.3974
965591	AG1-427 C	7.7812	80/20	7.7812
965641	AG1-432 C O2	30.0876	80/20	30.0876
965721	AG1-440 C	2.3557	80/20	2.3557
965731	AG1-441 C	2.3557	80/20	2.3557
965771	AG1-445	1.3611	80/20	1.3611
965781	AG1-446	1.3611	80/20	1.3611
965831	AG1-451	5.0146	80/20	5.0146
966251	AG1-494 C	1.6466	80/20	1.6466
966791	AG1-550 O2	14.2016	80/20	14.2016
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1915	80/20	4.1915
WEC	WEC	0.1947	Confirmed LTF	0.1947
LGEE	LGEE	0.4166	Confirmed LTF	0.4166
CPLE	CPLE	1.0770	Confirmed LTF	1.0770
CBM-W2	CBM-W2	7.1949	Confirmed LTF	7.1949

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	0.3583	Confirmed LTF	0.3583
TVA	TVA	1.2922	Confirmed LTF	1.2922
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.3325	Confirmed LTF	0.3325
MEC	MEC	1.0869	Confirmed LTF	1.0869
LAGN	LAGN	1.5715	Confirmed LTF	1.5715
CBM-W1	CBM-W1	8.1596	Confirmed LTF	8.1596

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
175225178	314333	6POWHATN	DVP	314310	6JUDES F	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88	106.53	109.22	DC	21.54

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2807	80/20	0.2807
314333	6POWHATN	1.5975	80/20	1.5975
314429	3JTRSVLE	0.4832	80/20	0.4832
314677	6BUCKING	0.8048	80/20	0.8048
315153	1CLOVER1	4.3193	80/20	4.3193
315154	1CLOVER2	4.2763	80/20	4.2763
315158	1KERR 1	0.1408	80/20	0.1408
315159	1KERR 2	0.3943	80/20	0.3943
315160	1KERR 3	0.3943	80/20	0.3943
315161	1KERR 4	0.3943	80/20	0.3943
315162	1KERR 5	0.3943	80/20	0.3943
315163	1KERR 6	0.3943	80/20	0.3943
315164	1KERR 7	0.3943	80/20	0.3943
315191	1BEARGRDN G1	14.2573	80/20	14.2573
315192	1BEARGRDN G2	14.2573	80/20	14.2573
315193	1BEARGRDN S1	18.4374	80/20	18.4374
315266	1PLYWOOD A	0.4243	80/20	0.4243
316118	AC1-105 C	2.1828	80/20	2.1828
316131	AB2-060 C	0.8395	80/20	0.8395
924301	AB2-077 C O1 (Suspended)	1.0978	80/20	1.0978
924311	AB2-078 C O1 (Suspended)	1.0978	80/20	1.0978
924321	AB2-079 C O1 (Suspended)	1.0978	80/20	1.0978
925611	AC1-036 C	0.1989	80/20	0.1989
927261	AC1-222 C	1.2284	80/20	1.2284
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7929	80/20	0.7929
933501	AC2-165 C	39.2365	80/20	39.2365
934311	AD1-055 C	0.8529	80/20	0.8529
934615	AD1-087 C	2.7046	80/20	2.7046
934625	AD1-088 C	10.6893	80/20	10.6893

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935171	AD1-152 C O1	2.9707	80/20	2.9707
935221	AD1-157 C	0.2944	80/20	0.2944
936265	AD2-033 C	10.6439	80/20	10.6439
936361	AD2-046 C O1	3.5752	80/20	3.5752
936485	AD2-063 C	10.2897	80/20	10.2897
937481	AD2-202 C O1	0.7922	80/20	0.7922
938371	AE1-056 C	8.0456	80/20	8.0456
938561	AE1-075 C	1.3891	80/20	1.3891
938821	AE1-108 C O1	29.3641	80/20	29.3641
939181	AE1-148 C	3.5861	80/20	3.5861
940661	AE2-053 O1	1.3282	80/20	1.3282
941011	AE2-092 C	25.2714	80/20	25.2714
941791	AE2-182 C	1.7366	80/20	1.7366
942451	AE2-258	1.3272	80/20	1.3272
942461	AE2-259 C O1	15.0438	80/20	15.0438
943901	AF1-058 C	0.6629	80/20	0.6629
943911	AF1-059	5.8955	80/20	5.8955
946291	AF1-293 C O1	39.5291	80/20	39.5291
946301	AF1-294 C	4.8810	80/20	4.8810
946591	AF1-323 C	9.4218	80/20	9.4218
958131	AF2-107 C	4.3708	80/20	4.3708
958211	AF2-115 C	2.8712	80/20	2.8712
958501	AF2-144 C	7.4840	80/20	7.4840
958801	AF2-171 C	17.1477	80/20	17.1477
959311	AF2-222 C	15.2960	80/20	15.2960
959531	AF2-244 C (Withdrawn : 01/06/2021)	6.8971	80/20	6.8971
959751	AF2-266	3.1005	80/20	3.1005
960061	AF2-297 C	2.6515	80/20	2.6515
960111	AF2-302 C	3.4261	80/20	3.4261
961061	AF2-397 C	36.6436	80/20	36.6436
961791	AG1-021 C	2.2969	80/20	2.2969
961801	AG1-022 C	3.4261	80/20	3.4261
961891	AG1-030 C	15.8193	80/20	15.8193
962041	AG1-048 C	14.3558	80/20	14.3558
962441	AG1-093 C O2	5.1180	80/20	5.1180
962491	AG1-098 C O2	7.8308	80/20	7.8308
962561	AG1-105 C O2	4.4994	80/20	4.4994
962741	AG1-123 C O2	2.8615	80/20	2.8615

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
962751	AG1-124 C O2	4.0087	80/20	4.0087
963171	AG1-166 C	2.2969	80/20	2.2969
963181	AG1-167 C	2.2969	80/20	2.2969
963191	AG1-168 C	2.2969	80/20	2.2969
963201	AG1-169 C	2.2969	80/20	2.2969
963211	AG1-170 C	2.2969	80/20	2.2969
963271	AG1-176 C O2	21.5432	80/20	21.5432
963321	AG1-181 C O2	14.3396	80/20	14.3396
963361	AG1-185 O2	6.9379	80/20	6.9379
963641	AG1-215 C	1.0719	80/20	1.0719
964111	AG1-272 C	2.2600	80/20	2.2600
964121	AG1-273 C	2.2600	80/20	2.2600
964131	AG1-274 C	2.2600	80/20	2.2600
964231	AG1-284 C O2	17.0419	80/20	17.0419
964261	AG1-287 C	0.4972	80/20	0.4972
964471	AG1-310 C	0.7101	80/20	0.7101
964791	AG1-342 C	1.7990	80/20	1.7990
964821	AG1-345 C	0.9162	80/20	0.9162
964841	AG1-347 C	9.1274	80/20	9.1274
964931	AG1-357 C O2	13.6260	80/20	13.6260
965191	AG1-384 C	2.2600	80/20	2.2600
965281	AG1-393 C	2.2969	80/20	2.2969
965451	AG1-413 C O2	2.6017	80/20	2.6017
965581	AG1-426	6.3974	80/20	6.3974
965591	AG1-427 C	7.7812	80/20	7.7812
965641	AG1-432 C O2	30.0876	80/20	30.0876
965721	AG1-440 C	2.3557	80/20	2.3557
965731	AG1-441 C	2.3557	80/20	2.3557
965771	AG1-445	1.3611	80/20	1.3611
965781	AG1-446	1.3611	80/20	1.3611
965831	AG1-451	5.0146	80/20	5.0146
966251	AG1-494 C	1.6466	80/20	1.6466
966791	AG1-550 O2	14.2016	80/20	14.2016
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1915	80/20	4.1915
WEC	WEC	0.1947	Confirmed LTF	0.1947
LGEE	LGEE	0.4166	Confirmed LTF	0.4166
CPLE	CPLE	1.0770	Confirmed LTF	1.0770
CBM-W2	CBM-W2	7.1949	Confirmed LTF	7.1949

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
NY	NY	0.3583	Confirmed LTF	0.3583
TVA	TVA	1.2922	Confirmed LTF	1.2922
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.3654	Confirmed LTF	14.3654
CBM-S1	CBM-S1	0.3325	Confirmed LTF	0.3325
MEC	MEC	1.0869	Confirmed LTF	1.0869
LAGN	LAGN	1.5715	Confirmed LTF	1.5715
CBM-W1	CBM-W1	8.1596	Confirmed LTF	8.1596

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ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
175028130	314686	6CLOVER	DVP	314690	6BLACK WALNU	DVP	1	DVP_P1-2: LN 556-B-C	single	814.98	115.45	119.61	DC	33.86

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6801	80/20	46.6801
315154	1CLOVER2	46.2149	80/20	46.2149
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934625	AD1-088 C	37.5614	80/20	37.5614
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
938371	AE1-056 C	5.9682	80/20	5.9682
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6414	80/20	6.6414
941791	AE2-182 C	6.1024	80/20	6.1024
942461	AE2-259 C O1	12.7944	80/20	12.7944
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1471	80/20	28.1471
946291	AF1-293 C O1	9.9695	80/20	9.9695
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0510	80/20	201.0510

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7675	80/20	11.7675
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5080	80/20	33.5080
960111	AF2-302 C	0.7429	80/20	0.7429
961061	AF2-397 C	7.7267	80/20	7.7267
961791	AG1-021 C	1.5832	80/20	1.5832
961801	AG1-022 C	0.7429	80/20	0.7429
961891	AG1-030 C	9.9441	80/20	9.9441
962041	AG1-048 C	9.8947	80/20	9.8947
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O2	33.8564	80/20	33.8564
963321	AG1-181 C O2	6.4738	80/20	6.4738
963361	AG1-185 O2	3.1322	80/20	3.1322
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O2	4.1996	80/20	4.1996
964241	AG1-285 C O2	50.2628	80/20	50.2628
964821	AG1-345 C	0.6298	80/20	0.6298
964841	AG1-347 C	28.2380	80/20	28.2380
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O2	25.5888	80/20	25.5888
965831	AG1-451	4.2648	80/20	4.2648
966361	AG1-505 C	60.3162	80/20	60.3162
966371	AG1-506 C	60.3162	80/20	60.3162
966791	AG1-550 O2	3.4997	80/20	3.4997
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.8094	80/20	2.8094

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
G-007A	G-007A	0.4507	Confirmed LTF	0.4507
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7000	Confirmed LTF	0.7000
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

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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
175028101	314690	6BLACK WALNU	DVP	962440	AG1-093 TAP	DVP	1	DVP_P1-2: LN 556-B-C	single	814.98	124.06	128.22	DC	33.86

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314333	6POWHATN	0.1312	80/20	0.1312
314429	3JTRSVLE	0.3330	80/20	0.3330
314677	6BUCKING	0.4426	80/20	0.4426
315153	1CLOVER1	46.6801	80/20	46.6801
315154	1CLOVER2	46.2149	80/20	46.2149
315191	1BEARGRDN G1	3.6167	80/20	3.6167
315192	1BEARGRDN G2	3.6167	80/20	3.6167
315193	1BEARGRDN S1	4.6771	80/20	4.6771
925611	AC1-036 C	0.0956	80/20	0.0956
926451	AC1-116 C	0.0478	80/20	0.0478
927251	AC1-221 C	-1.3299	Adder	-1.56
927261	AC1-222 C	-2.7426	Adder	-3.23
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4360	80/20	0.4360
933501	AC2-165 C	4.0288	80/20	4.0288
934311	AD1-055 C	-1.9043	Adder	-2.24
934341	AD1-058 C	-3.3337	Adder	-3.92
934615	AD1-087 C	29.3389	80/20	29.3389
934625	AD1-088 C	37.5614	80/20	37.5614
935171	AD1-152 C O1	32.2258	80/20	32.2258
935221	AD1-157 C	0.2184	80/20	0.2184
936265	AD2-033 C	4.4156	80/20	4.4156
937481	AD2-202 C O1	8.5935	80/20	8.5935
938371	AE1-056 C	5.9682	80/20	5.9682
938561	AE1-075 C	0.1141	80/20	0.1141
938821	AE1-108 C O1	6.6821	80/20	6.6821
941011	AE2-092 C	6.6414	80/20	6.6414
941791	AE2-182 C	6.1024	80/20	6.1024
942461	AE2-259 C O1	12.7944	80/20	12.7944
943901	AF1-058 C	-1.5410	Adder	-1.81
945811	AF1-246 C O1	28.1471	80/20	28.1471
946291	AF1-293 C O1	9.9695	80/20	9.9695

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946301	AF1-294 C	3.3642	80/20	3.3642
946591	AF1-323 C	2.0430	80/20	2.0430
957481	AF2-042 C	201.0510	80/20	201.0510
958211	AF2-115 C	1.9790	80/20	1.9790
958501	AF2-144 C	0.6149	80/20	0.6149
958801	AF2-171 C	11.7675	80/20	11.7675
959311	AF2-222 C	7.9260	80/20	7.9260
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5666	80/20	0.5666
959751	AF2-266	33.5080	80/20	33.5080
960111	AF2-302 C	0.7429	80/20	0.7429
961061	AF2-397 C	7.7267	80/20	7.7267
961791	AG1-021 C	1.5832	80/20	1.5832
961801	AG1-022 C	0.7429	80/20	0.7429
961891	AG1-030 C	9.9441	80/20	9.9441
962041	AG1-048 C	9.8947	80/20	9.8947
963171	AG1-166 C	1.5832	80/20	1.5832
963181	AG1-167 C	1.5832	80/20	1.5832
963191	AG1-168 C	1.5832	80/20	1.5832
963201	AG1-169 C	1.5832	80/20	1.5832
963211	AG1-170 C	1.5832	80/20	1.5832
963271	AG1-176 C O2	33.8564	80/20	33.8564
963321	AG1-181 C O2	6.4738	80/20	6.4738
963361	AG1-185 O2	3.1322	80/20	3.1322
963641	AG1-215 C	0.7388	80/20	0.7388
964111	AG1-272 C	1.0868	80/20	1.0868
964121	AG1-273 C	1.0868	80/20	1.0868
964131	AG1-274 C	1.0868	80/20	1.0868
964231	AG1-284 C O2	4.1996	80/20	4.1996
964241	AG1-285 C O2	50.2628	80/20	50.2628
964821	AG1-345 C	0.6298	80/20	0.6298
964841	AG1-347 C	28.2380	80/20	28.2380
965191	AG1-384 C	1.0868	80/20	1.0868
965281	AG1-393 C	1.5832	80/20	1.5832
965581	AG1-426	1.4558	80/20	1.4558
965641	AG1-432 C O2	25.5888	80/20	25.5888
965831	AG1-451	4.2648	80/20	4.2648
966361	AG1-505 C	60.3162	80/20	60.3162
966371	AG1-506 C	60.3162	80/20	60.3162

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966791	AG1-550 O2	3.4997	80/20	3.4997
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.8094	80/20	2.8094
G-007A	G-007A	0.4507	Confirmed LTF	0.4507
VFT	VFT	1.1868	Confirmed LTF	1.1868
CALDERWOOD	CALDERWOOD	1.0959	Confirmed LTF	1.0959
PRAIRIE	PRAIRIE	3.8848	Confirmed LTF	3.8848
CHEOAH	CHEOAH	1.1221	Confirmed LTF	1.1221
CBM-N	CBM-N	0.2136	Confirmed LTF	0.2136
COTTONWOOD	COTTONWOOD	4.0551	Confirmed LTF	4.0551
HAMLET	HAMLET	2.1350	Confirmed LTF	2.1350
GIBSON	GIBSON	0.7000	Confirmed LTF	0.7000
BLUEG	BLUEG	2.1735	Confirmed LTF	2.1735
TRIMBLE	TRIMBLE	0.6906	Confirmed LTF	0.6906
CATAWBA	CATAWBA	1.1613	Confirmed LTF	1.1613

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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
175835502	314694	3GRIT	DVP	314712	3OTTER R	DVP	1	DVP_P1-2: LN 556-B-A	single	285.76	107.7	109.4	DC	4.84

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2342	80/20	0.2342
314429	3JTRSVLE	0.1582	80/20	0.1582
315153	1CLOVER1	5.6497	80/20	5.6497
315154	1CLOVER2	5.5934	80/20	5.5934
315158	1KERR 1	0.1479	80/20	0.1479
315159	1KERR 2	0.4140	80/20	0.4140
315160	1KERR 3	0.4140	80/20	0.4140
315161	1KERR 4	0.4140	80/20	0.4140
315162	1KERR 5	0.4140	80/20	0.4140
315163	1KERR 6	0.4140	80/20	0.4140
315164	1KERR 7	0.4140	80/20	0.4140
315266	1PLYWOOD A	1.0279	80/20	1.0279
316118	AC1-105 C	4.9149	80/20	4.9149
316123	AC1-075 C	2.6596	80/20	2.6596
316131	AB2-060 C	0.6693	80/20	0.6693
924301	AB2-077 C O1 (Suspended)	0.9595	80/20	0.9595
924311	AB2-078 C O1 (Suspended)	0.9595	80/20	0.9595
924321	AB2-079 C O1 (Suspended)	0.9595	80/20	0.9595
925611	AC1-036 C	0.0950	80/20	0.0950
925661	AC1-042 C	-2.7383	Adder	-3.22
926023	AC1-080 C	0.8889	80/20	0.8889
927261	AC1-222 C	5.0515	80/20	5.0515
934311	AD1-055 C	3.5074	80/20	3.5074
934615	AD1-087 C	3.5493	80/20	3.5493
934625	AD1-088 C	4.8388	80/20	4.8388
935171	AD1-152 C O1	3.8986	80/20	3.8986
935221	AD1-157 C	0.0853	80/20	0.0853
936265	AD2-033 C	5.5895	80/20	5.5895
936361	AD2-046 C O1	3.5702	80/20	3.5702
936485	AD2-063 C	6.7725	80/20	6.7725

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
937481	AD2-202 C O1	1.0396	80/20	1.0396
938371	AE1-056 C	2.3296	80/20	2.3296
939181	AE1-148 C	3.5473	80/20	3.5473
940661	AE2-053 O1	1.3138	80/20	1.3138
941791	AE2-182 C	0.7861	80/20	0.7861
942451	AE2-258	1.1076	80/20	1.1076
942461	AE2-259 C O1	3.1770	80/20	3.1770
942751	AE2-291 C	32.7677	80/20	32.7677
942761	AE2-292 C O1	40.7990	80/20	40.7990
943901	AF1-058 C	1.9088	80/20	1.9088
943911	AF1-059	5.6494	80/20	5.6494
945811	AF1-246 C O1	3.4070	80/20	3.4070
946301	AF1-294 C	1.5978	80/20	1.5978
957481	AF2-042 C	24.3360	80/20	24.3360
958211	AF2-115 C	0.9399	80/20	0.9399
958801	AF2-171 C	5.6511	80/20	5.6511
959311	AF2-222 C	6.8930	80/20	6.8930
959751	AF2-266	4.0555	80/20	4.0555
960061	AF2-297 C	7.6354	80/20	7.6354
961791	AG1-021 C	0.7519	80/20	0.7519
961891	AG1-030 C	5.8698	80/20	5.8698
962041	AG1-048 C	4.6995	80/20	4.6995
962441	AG1-093 C O2	8.0086	80/20	8.0086
962491	AG1-098 C O2	5.7675	80/20	5.7675
962561	AG1-105 C O2	7.0932	80/20	7.0932
963171	AG1-166 C	0.7519	80/20	0.7519
963181	AG1-167 C	0.7519	80/20	0.7519
963191	AG1-168 C	0.7519	80/20	0.7519
963201	AG1-169 C	0.7519	80/20	0.7519
963211	AG1-170 C	0.7519	80/20	0.7519
963271	AG1-176 C O2	4.8438	80/20	4.8438
963321	AG1-181 C O2	7.1521	80/20	7.1521
963361	AG1-185 O2	3.4604	80/20	3.4604
963641	AG1-215 C	0.3509	80/20	0.3509
964111	AG1-272 C	1.0791	80/20	1.0791
964121	AG1-273 C	1.0791	80/20	1.0791
964131	AG1-274 C	1.0791	80/20	1.0791
964261	AG1-287 C	1.4316	80/20	1.4316
964471	AG1-310 C	3.2918	80/20	3.2918

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964791	AG1-342 C	3.1669	80/20	3.1669
964821	AG1-345 C	0.3012	80/20	0.3012
964841	AG1-347 C	3.6820	80/20	3.6820
964931	AG1-357 C O2	9.0492	80/20	9.0492
965191	AG1-384 C	1.0791	80/20	1.0791
965281	AG1-393 C	0.7519	80/20	0.7519
965451	AG1-413 C O2	2.4520	80/20	2.4520
965591	AG1-427 C	5.4072	80/20	5.4072
965641	AG1-432 C O2	6.3540	80/20	6.3540
965721	AG1-440 C	2.5690	80/20	2.5690
965731	AG1-441 C	2.5690	80/20	2.5690
965771	AG1-445	1.4843	80/20	1.4843
965781	AG1-446	1.4843	80/20	1.4843
965831	AG1-451	1.0590	80/20	1.0590
966691	AG1-539 C	17.1334	80/20	17.1334
CPLE	CPLE	1.2333	Confirmed LTF	1.2333
G-007A	G-007A	0.2374	Confirmed LTF	0.2374
VFT	VFT	0.6256	Confirmed LTF	0.6256
PRAIRIE	PRAIRIE	0.4856	Confirmed LTF	0.4856
CBM-S2	CBM-S2	10.8785	Confirmed LTF	10.8785
CBM-N	CBM-N	0.1116	Confirmed LTF	0.1116
GIBSON	GIBSON	0.1638	Confirmed LTF	0.1638
BLUEG	BLUEG	0.5781	Confirmed LTF	0.5781
TRIMBLE	TRIMBLE	0.1881	Confirmed LTF	0.1881
LAGN	LAGN	0.0350	Confirmed LTF	0.0350

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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
175835425	314697	6SEDGE HILL	DVP	927250	AC1-221 TAP	DVP	1	DVP_P1-2: LN 556-B-A	single	674.92	158.86	163.06	DC	28.36

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9276	80/20	0.9276
315160	1KERR 3	0.9276	80/20	0.9276
315161	1KERR 4	0.9276	80/20	0.9276
315162	1KERR 5	0.9276	80/20	0.9276
315163	1KERR 6	0.9276	80/20	0.9276
315164	1KERR 7	0.9276	80/20	0.9276
315191	1BEARGRDN G1	3.3144	80/20	3.3144
315192	1BEARGRDN G2	3.3144	80/20	3.3144
315193	1BEARGRDN S1	4.2862	80/20	4.2862
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6953	80/20	14.6953
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	-2.4502	Adder	-2.88
927261	AC1-222 C	10.1049	80/20	10.1049
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3929	80/20	0.3929
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0160	80/20	7.0160
934341	AD1-058 C	-6.1424	Adder	-7.23
934615	AD1-087 C	22.4303	80/20	22.4303
934625	AD1-088 C	29.6895	80/20	29.6895
935171	AD1-152 C O1	24.6374	80/20	24.6374
935221	AD1-157 C	0.3412	80/20	0.3412
936265	AD2-033 C	18.1139	80/20	18.1139
936361	AD2-046 C O1	8.4650	80/20	8.4650
936485	AD2-063 C	20.6649	80/20	20.6649
937481	AD2-202 C O1	6.5700	80/20	6.5700
938371	AE1-056 C	9.3221	80/20	9.3221
938561	AE1-075 C	0.1049	80/20	0.1049
938821	AE1-108 C O1	7.2807	80/20	7.2807
939181	AE1-148 C	8.5007	80/20	8.5007
939941	AE1-230 C	0.7209	80/20	0.7209
940661	AE2-053 O1	3.1484	80/20	3.1484
941011	AE2-092 C	6.3234	80/20	6.3234
941791	AE2-182 C	4.8235	80/20	4.8235
941801	AE2-185 C	3.6043	80/20	3.6043
941821	AE2-187 C	3.6043	80/20	3.6043
942451	AE2-258	3.2048	80/20	3.2048
942461	AE2-259 C O1	14.7138	80/20	14.7138
942671	AE2-283 C	3.9648	80/20	3.9648
942751	AE2-291 C	15.6354	80/20	15.6354
942761	AE2-292 C O1	19.4676	80/20	19.4676
943901	AF1-058 C	5.7308	80/20	5.7308
943911	AF1-059	14.4227	80/20	14.4227
945081	AF1-173	1.3967	80/20	1.3967
945811	AF1-246 C O1	21.5242	80/20	21.5242
946291	AF1-293 C O1	9.4568	80/20	9.4568
946301	AF1-294 C	6.0812	80/20	6.0812
946591	AF1-323 C	2.4073	80/20	2.4073

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
957481	AF2-042 C	153.7440	80/20	153.7440
958211	AF2-115 C	3.5772	80/20	3.5772
958501	AF2-144 C	0.5650	80/20	0.5650
958801	AF2-171 C	21.4497	80/20	21.4497
959311	AF2-222 C	23.4030	80/20	23.4030
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5207	80/20	0.5207
959751	AF2-266	25.6235	80/20	25.6235
960061	AF2-297 C	22.9234	80/20	22.9234
960111	AF2-302 C	0.8754	80/20	0.8754
961061	AF2-397 C	7.1214	80/20	7.1214
961121	AF2-403	0.8010	80/20	0.8010
961791	AG1-021 C	2.8618	80/20	2.8618
961801	AG1-022 C	0.8754	80/20	0.8754
961891	AG1-030 C	21.3030	80/20	21.3030
962041	AG1-048 C	17.8860	80/20	17.8860
962441	AG1-093 C O2	51.1088	80/20	51.1088
962491	AG1-098 C O2	17.1435	80/20	17.1435
962561	AG1-105 C O2	21.0366	80/20	21.0366
963171	AG1-166 C	2.8618	80/20	2.8618
963181	AG1-167 C	2.8618	80/20	2.8618
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O2	28.3569	80/20	28.3569
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O2	23.5297	80/20	23.5297
963361	AG1-185 O2	11.3843	80/20	11.3843
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O2	3.9984	80/20	3.9984
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4661	80/20	22.4661
964931	AG1-357 C O2	27.5544	80/20	27.5544
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O2	6.3542	80/20	6.3542
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O2	3.1896	80/20	3.1896
965641	AG1-432 C O2	29.4276	80/20	29.4276
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9046	80/20	4.9046
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O2	3.3320	80/20	3.3320
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.5247	80/20	2.5247
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078
TRIMBLE	TRIMBLE	0.7618	Confirmed LTF	0.7618
CATAWBA	CATAWBA	1.6965	Confirmed LTF	1.6965

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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
175835492	314712	3OTTER R	DVP	314666	3ALTVSTA	DVP	1	DVP_P1-2: LN 556-B-A	single	269.78	106.74	108.54	DC	4.84

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2342	80/20	0.2342
314429	3JTRSVLE	0.1582	80/20	0.1582
315153	1CLOVER1	5.6497	80/20	5.6497
315154	1CLOVER2	5.5934	80/20	5.5934
315158	1KERR 1	0.1479	80/20	0.1479
315159	1KERR 2	0.4140	80/20	0.4140
315160	1KERR 3	0.4140	80/20	0.4140
315161	1KERR 4	0.4140	80/20	0.4140
315162	1KERR 5	0.4140	80/20	0.4140
315163	1KERR 6	0.4140	80/20	0.4140
315164	1KERR 7	0.4140	80/20	0.4140
315266	1PLYWOOD A	1.0279	80/20	1.0279
316118	AC1-105 C	4.9149	80/20	4.9149
316123	AC1-075 C	2.6596	80/20	2.6596
316131	AB2-060 C	0.6693	80/20	0.6693
924301	AB2-077 C O1 (Suspended)	0.9595	80/20	0.9595
924311	AB2-078 C O1 (Suspended)	0.9595	80/20	0.9595
924321	AB2-079 C O1 (Suspended)	0.9595	80/20	0.9595
925611	AC1-036 C	0.0950	80/20	0.0950
925661	AC1-042 C	-2.7383	Adder	-3.22
926023	AC1-080 C	0.8889	80/20	0.8889
927261	AC1-222 C	5.0515	80/20	5.0515
934311	AD1-055 C	3.5074	80/20	3.5074
934615	AD1-087 C	3.5493	80/20	3.5493
934625	AD1-088 C	4.8388	80/20	4.8388
935171	AD1-152 C O1	3.8986	80/20	3.8986
935221	AD1-157 C	0.0853	80/20	0.0853
936265	AD2-033 C	5.5895	80/20	5.5895
936361	AD2-046 C O1	3.5702	80/20	3.5702
936485	AD2-063 C	6.7725	80/20	6.7725

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
937481	AD2-202 C O1	1.0396	80/20	1.0396
938371	AE1-056 C	2.3296	80/20	2.3296
939181	AE1-148 C	3.5473	80/20	3.5473
940661	AE2-053 O1	1.3138	80/20	1.3138
941791	AE2-182 C	0.7861	80/20	0.7861
942451	AE2-258	1.1076	80/20	1.1076
942461	AE2-259 C O1	3.1770	80/20	3.1770
942751	AE2-291 C	32.7677	80/20	32.7677
942761	AE2-292 C O1	40.7990	80/20	40.7990
943901	AF1-058 C	1.9088	80/20	1.9088
943911	AF1-059	5.6494	80/20	5.6494
945811	AF1-246 C O1	3.4070	80/20	3.4070
946301	AF1-294 C	1.5978	80/20	1.5978
957481	AF2-042 C	24.3360	80/20	24.3360
958211	AF2-115 C	0.9399	80/20	0.9399
958801	AF2-171 C	5.6511	80/20	5.6511
959311	AF2-222 C	6.8930	80/20	6.8930
959751	AF2-266	4.0555	80/20	4.0555
960061	AF2-297 C	7.6354	80/20	7.6354
961791	AG1-021 C	0.7519	80/20	0.7519
961891	AG1-030 C	5.8698	80/20	5.8698
962041	AG1-048 C	4.6995	80/20	4.6995
962441	AG1-093 C O2	8.0086	80/20	8.0086
962491	AG1-098 C O2	5.7675	80/20	5.7675
962561	AG1-105 C O2	7.0932	80/20	7.0932
963171	AG1-166 C	0.7519	80/20	0.7519
963181	AG1-167 C	0.7519	80/20	0.7519
963191	AG1-168 C	0.7519	80/20	0.7519
963201	AG1-169 C	0.7519	80/20	0.7519
963211	AG1-170 C	0.7519	80/20	0.7519
963271	AG1-176 C O2	4.8438	80/20	4.8438
963321	AG1-181 C O2	7.1521	80/20	7.1521
963361	AG1-185 O2	3.4604	80/20	3.4604
963641	AG1-215 C	0.3509	80/20	0.3509
964111	AG1-272 C	1.0791	80/20	1.0791
964121	AG1-273 C	1.0791	80/20	1.0791
964131	AG1-274 C	1.0791	80/20	1.0791
964261	AG1-287 C	1.4316	80/20	1.4316
964471	AG1-310 C	3.2918	80/20	3.2918

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964791	AG1-342 C	3.1669	80/20	3.1669
964821	AG1-345 C	0.3012	80/20	0.3012
964841	AG1-347 C	3.6820	80/20	3.6820
964931	AG1-357 C O2	9.0492	80/20	9.0492
965191	AG1-384 C	1.0791	80/20	1.0791
965281	AG1-393 C	0.7519	80/20	0.7519
965451	AG1-413 C O2	2.4520	80/20	2.4520
965591	AG1-427 C	5.4072	80/20	5.4072
965641	AG1-432 C O2	6.3540	80/20	6.3540
965721	AG1-440 C	2.5690	80/20	2.5690
965731	AG1-441 C	2.5690	80/20	2.5690
965771	AG1-445	1.4843	80/20	1.4843
965781	AG1-446	1.4843	80/20	1.4843
965831	AG1-451	1.0590	80/20	1.0590
966691	AG1-539 C	17.1334	80/20	17.1334
CPLE	CPLE	1.2333	Confirmed LTF	1.2333
G-007A	G-007A	0.2374	Confirmed LTF	0.2374
VFT	VFT	0.6256	Confirmed LTF	0.6256
PRAIRIE	PRAIRIE	0.4856	Confirmed LTF	0.4856
CBM-S2	CBM-S2	10.8785	Confirmed LTF	10.8785
CBM-N	CBM-N	0.1116	Confirmed LTF	0.1116
GIBSON	GIBSON	0.1638	Confirmed LTF	0.1638
BLUEG	BLUEG	0.5781	Confirmed LTF	0.5781
TRIMBLE	TRIMBLE	0.1881	Confirmed LTF	0.1881
LAGN	LAGN	0.0350	Confirmed LTF	0.0350

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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
169364112	314747	6BREMO	DVP	313867	6BREMODIST	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	136.95	141.37	DC	29.31

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	2.1784	80/20	2.1784
313527	AB2-043 C	0.4243	80/20	0.4243
314429	3JTRSVLE	0.6669	80/20	0.6669
314572	3EMPORIA	0.1382	80/20	0.1382
314677	6BUCKING	1.0571	80/20	1.0571
314704	3LAWRENC	0.1410	80/20	0.1410
315126	1ROARAP2	0.4085	80/20	0.4085
315128	1ROARAP4	0.3898	80/20	0.3898
315153	1CLOVER1	7.5116	80/20	7.5116
315154	1CLOVER2	7.4368	80/20	7.4368
315158	1KERR 1	0.2345	80/20	0.2345
315159	1KERR 2	0.6567	80/20	0.6567
315160	1KERR 3	0.6567	80/20	0.6567
315161	1KERR 4	0.6567	80/20	0.6567
315162	1KERR 5	0.6567	80/20	0.6567
315163	1KERR 6	0.6567	80/20	0.6567
315164	1KERR 7	0.6567	80/20	0.6567
315191	1BEARGRDN G1	18.4998	80/20	18.4998
315192	1BEARGRDN G2	18.4998	80/20	18.4998
315193	1BEARGRDN S1	23.9239	80/20	23.9239
315266	1PLYWOOD A	0.6737	80/20	0.6737
316087	AB2-174 C	0.3606	80/20	0.3606
316118	AC1-105 C	3.4200	80/20	3.4200
316123	AC1-075 C	0.3763	80/20	0.3763
316129	AC1-054 C	3.4710	80/20	3.4710
316131	AB2-060 C	1.2609	80/20	1.2609
923991	AB2-040 C O1	2.3725	80/20	2.3725
924301	AB2-077 C O1 (Suspended)	1.6661	80/20	1.6661
924311	AB2-078 C O1 (Suspended)	1.6661	80/20	1.6661

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
924321	AB2-079 C O1 (Suspended)	1.6661	80/20	1.6661
925611	AC1-036 C	0.2822	80/20	0.2822
926023	AC1-080 C	0.1258	80/20	0.1258
927251	AC1-221 C	0.7947	80/20	0.7947
927261	AC1-222 C	1.8844	80/20	1.8844
932511	AC2-071 C (Withdrawn : 01/22/2021)	1.0414	80/20	1.0414
932761	AC2-100 C	1.8288	80/20	1.8288
933501	AC2-165 C	34.9923	80/20	34.9923
934311	AD1-055 C	1.3084	80/20	1.3084
934341	AD1-058 C	1.9921	80/20	1.9921
934615	AD1-087 C	4.7030	80/20	4.7030
934625	AD1-088 C	15.3924	80/20	15.3924
934991	AD1-131 C	0.6532	80/20	0.6532
935171	AD1-152 C O1	5.1658	80/20	5.1658
935221	AD1-157 C	0.4035	80/20	0.4035
936265	AD2-033 C	15.2365	80/20	15.2365
936361	AD2-046 C O1	5.8230	80/20	5.8230
936485	AD2-063 C	15.0849	80/20	15.0849
937481	AD2-202 C O1	1.3775	80/20	1.3775
938371	AE1-056 C	11.0258	80/20	11.0258
938821	AE1-108 C O1	11.0123	80/20	11.0123
939181	AE1-148 C	5.8169	80/20	5.8169
940661	AE2-053 O1	2.1544	80/20	2.1544
941791	AE2-182 C	2.5007	80/20	2.5007
942451	AE2-258	2.0064	80/20	2.0064
942461	AE2-259 C O1	20.3100	80/20	20.3100
942751	AE2-291 C	3.2791	80/20	3.2791
942761	AE2-292 C O1	4.0828	80/20	4.0828
943901	AF1-058 C	1.0548	80/20	1.0548
943911	AF1-059	10.2781	80/20	10.2781
945811	AF1-246 C O1	3.6616	80/20	3.6616
946281	AF1-292 C	0.4969	80/20	0.4969
946291	AF1-293 C O1	6.2287	80/20	6.2287
946301	AF1-294 C	6.7366	80/20	6.7366
946591	AF1-323 C	3.5356	80/20	3.5356
957481	AF2-042 C	26.1540	80/20	26.1540
958131	AF2-107 C	1.6496	80/20	1.6496
958211	AF2-115 C	3.9627	80/20	3.9627

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
958801	AF2-171 C	23.6772	80/20	23.6772
959311	AF2-222 C	21.6010	80/20	21.6010
959751	AF2-266	5.3920	80/20	5.3920
960061	AF2-297 C	4.2192	80/20	4.2192
960081	AF2-299 C	0.8375	80/20	0.8375
960111	AF2-302 C	1.2857	80/20	1.2857
961791	AG1-021 C	3.1702	80/20	3.1702
961801	AG1-022 C	1.2857	80/20	1.2857
961891	AG1-030 C	22.0122	80/20	22.0122
962041	AG1-048 C	19.8135	80/20	19.8135
962441	AG1-093 C O2	8.8246	80/20	8.8246
962491	AG1-098 C O2	11.6385	80/20	11.6385
962561	AG1-105 C O2	6.9312	80/20	6.9312
963171	AG1-166 C	3.1702	80/20	3.1702
963181	AG1-167 C	3.1702	80/20	3.1702
963191	AG1-168 C	3.1702	80/20	3.1702
963201	AG1-169 C	3.1702	80/20	3.1702
963211	AG1-170 C	3.1702	80/20	3.1702
963271	AG1-176 C O2	29.3068	80/20	29.3068
963301	AG1-179 C	2.9803	80/20	2.9803
963311	AG1-180	1.4521	80/20	1.4521
963321	AG1-181 C O2	20.4293	80/20	20.4293
963361	AG1-185 O2	9.8842	80/20	9.8842
963641	AG1-215 C	1.4794	80/20	1.4794
964111	AG1-272 C	3.2072	80/20	3.2072
964121	AG1-273 C	3.2072	80/20	3.2072
964131	AG1-274 C	3.2072	80/20	3.2072
964231	AG1-284 C O2	6.3853	80/20	6.3853
964241	AG1-285 C O2	6.2010	80/20	6.2010
964261	AG1-287 C	0.7911	80/20	0.7911
964471	AG1-310 C	1.0721	80/20	1.0721
964791	AG1-342 C	2.7841	80/20	2.7841
964821	AG1-345 C	1.2648	80/20	1.2648
964841	AG1-347 C	12.9864	80/20	12.9864
964931	AG1-357 C O2	19.9968	80/20	19.9968
965191	AG1-384 C	3.2072	80/20	3.2072
965281	AG1-393 C	3.1702	80/20	3.1702
965451	AG1-413 C O2	4.4581	80/20	4.4581
965581	AG1-426	2.3992	80/20	2.3992

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	11.4819	80/20	11.4819
965601	AG1-428 C O2	2.4880	80/20	2.4880
965641	AG1-432 C O2	40.6200	80/20	40.6200
965721	AG1-440 C	4.1121	80/20	4.1121
965731	AG1-441 C	4.1121	80/20	4.1121
965771	AG1-445	2.3759	80/20	2.3759
965781	AG1-446	2.3759	80/20	2.3759
965831	AG1-451	6.7700	80/20	6.7700
966361	AG1-505 C	4.9734	80/20	4.9734
966371	AG1-506 C	4.9734	80/20	4.9734
966621	AG1-532 C	0.4522	80/20	0.4522
966691	AG1-539 C	1.7146	80/20	1.7146
966751	AG1-546 C	7.3410	80/20	7.3410
966791	AG1-550 O2	5.3211	80/20	5.3211
966811	AG1-552 C	0.6485	80/20	0.6485
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	5.5327	80/20	5.5327
WEC	WEC	0.0699	Confirmed LTF	0.0699
LGEE	LGEE	0.1483	Confirmed LTF	0.1483
CPLE	CPLE	2.3396	Confirmed LTF	2.3396
CBM-W2	CBM-W2	5.8061	Confirmed LTF	5.8061
NY	NY	0.4076	Confirmed LTF	0.4076
TVA	TVA	1.2558	Confirmed LTF	1.2558
SIGE	SIGE	0.1120	Confirmed LTF	0.1120
CBM-S2	CBM-S2	25.9121	Confirmed LTF	25.9121
CBM-S1	CBM-S1	0.2953	Confirmed LTF	0.2953
MEC	MEC	0.5863	Confirmed LTF	0.5863
LAGN	LAGN	1.5645	Confirmed LTF	1.5645
AA2-074	AA2-074	1.5426	LTF	1.5426
CBM-W1	CBM-W1	2.5236	Confirmed LTF	2.5236

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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
169364129	314747	6BREMO	DVP	314744	3BREMO	DVP	1	DVP_P1-2: LN 2193	single	269.78	126.77	131.53	DC	12.84

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.1964	80/20	0.1964
314333	6POWHATN	0.2978	80/20	0.2978
314429	3JTRSVLE	0.2938	80/20	0.2938
314677	6BUCKING	0.4512	80/20	0.4512
315153	1CLOVER1	3.8262	80/20	3.8262
315154	1CLOVER2	3.7880	80/20	3.7880
315191	1BEARGRDN G1	7.8222	80/20	7.8222
315192	1BEARGRDN G2	7.8222	80/20	7.8222
315193	1BEARGRDN S1	10.1156	80/20	10.1156
316131	AB2-060 C	0.5816	80/20	0.5816
924301	AB2-077 C O1 (Suspended)	0.7721	80/20	0.7721
924311	AB2-078 C O1 (Suspended)	0.7721	80/20	0.7721
924321	AB2-079 C O1 (Suspended)	0.7721	80/20	0.7721
925611	AC1-036 C	0.1263	80/20	0.1263
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4445	80/20	0.4445
932854	AC2-112 C	-5.0776	Adder	-5.97
933501	AC2-165 C	9.0146	80/20	9.0146
934615	AD1-087 C	2.3943	80/20	2.3943
934625	AD1-088 C	7.0236	80/20	7.0236
935171	AD1-152 C O1	2.6299	80/20	2.6299
935221	AD1-157 C	0.1771	80/20	0.1771
936265	AD2-033 C	6.8523	80/20	6.8523
936361	AD2-046 C O1	2.8074	80/20	2.8074
936485	AD2-063 C	6.8715	80/20	6.8715
937481	AD2-202 C O1	0.7013	80/20	0.7013
938371	AE1-056 C	4.8380	80/20	4.8380
938561	AE1-075 C	0.2589	80/20	0.2589
939181	AE1-148 C	2.7983	80/20	2.7983
940661	AE2-053 O1	1.0364	80/20	1.0364

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
941791	AE2-182 C	1.1411	80/20	1.1411
942451	AE2-258	0.9286	80/20	0.9286
942461	AE2-259 C O1	8.8332	80/20	8.8332
943911	AF1-059	5.2100	80/20	5.2100
946301	AF1-294 C	2.9682	80/20	2.9682
957911	AF2-085	1.1020	80/20	1.1020
958211	AF2-115 C	1.7460	80/20	1.7460
958501	AF2-144 C	1.3950	80/20	1.3950
958801	AF2-171 C	10.4355	80/20	10.4355
959311	AF2-222 C	9.6430	80/20	9.6430
959531	AF2-244 C (Withdrawn : 01/06/2021)	1.2855	80/20	1.2855
959751	AF2-266	2.7465	80/20	2.7465
961791	AG1-021 C	1.3968	80/20	1.3968
961891	AG1-030 C	9.7443	80/20	9.7443
962041	AG1-048 C	8.7300	80/20	8.7300
962491	AG1-098 C O2	5.3400	80/20	5.3400
962561	AG1-105 C O2	3.1734	80/20	3.1734
963171	AG1-166 C	1.3968	80/20	1.3968
963181	AG1-167 C	1.3968	80/20	1.3968
963191	AG1-168 C	1.3968	80/20	1.3968
963201	AG1-169 C	1.3968	80/20	1.3968
963211	AG1-170 C	1.3968	80/20	1.3968
963271	AG1-176 C O2	12.8432	80/20	12.8432
963321	AG1-181 C O2	9.1648	80/20	9.1648
963361	AG1-185 O2	4.4342	80/20	4.4342
963641	AG1-215 C	0.6518	80/20	0.6518
964111	AG1-272 C	1.4356	80/20	1.4356
964121	AG1-273 C	1.4356	80/20	1.4356
964131	AG1-274 C	1.4356	80/20	1.4356
964791	AG1-342 C	1.2713	80/20	1.2713
964821	AG1-345 C	0.5574	80/20	0.5574
964841	AG1-347 C	5.8772	80/20	5.8772
964931	AG1-357 C O2	9.1140	80/20	9.1140
965191	AG1-384 C	1.4356	80/20	1.4356
965281	AG1-393 C	1.3968	80/20	1.3968
965451	AG1-413 C O2	2.2376	80/20	2.2376
965591	AG1-427 C	5.2486	80/20	5.2486
965641	AG1-432 C O2	17.6664	80/20	17.6664

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965831	AG1-451	2.9444	80/20	2.9444
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.3702	80/20	2.3702
CPL	CPL	1.1821	Confirmed LTF	1.1821
NY	NY	0.0879	Confirmed LTF	0.0879
PRAIRIE	PRAIRIE	0.5734	Confirmed LTF	0.5734
CBM-S2	CBM-S2	10.8576	Confirmed LTF	10.8576
GIBSON	GIBSON	0.1900	Confirmed LTF	0.1900
BLUEG	BLUEG	0.6562	Confirmed LTF	0.6562
TRIMBLE	TRIMBLE	0.2137	Confirmed LTF	0.2137
LAGN	LAGN	0.0263	Confirmed LTF	0.0263

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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
169364102	314765	6MTEAGLE	DVP	314749	6CHARLVL	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	137.48	141.51	DC	26.65

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3898	80/20	0.3898
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1286	80/20	0.1286
315153	1CLOVER1	6.8555	80/20	6.8555
315154	1CLOVER2	6.7871	80/20	6.7871
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6056	80/20	0.6056
315160	1KERR 3	0.6056	80/20	0.6056
315161	1KERR 4	0.6056	80/20	0.6056
315162	1KERR 5	0.6056	80/20	0.6056
315163	1KERR 6	0.6056	80/20	0.6056
315164	1KERR 7	0.6056	80/20	0.6056
315191	1BEARGRDN G1	16.8015	80/20	16.8015
315192	1BEARGRDN G2	16.8015	80/20	16.8015
315193	1BEARGRDN S1	21.7276	80/20	21.7276
315266	1PLYWOOD A	0.6337	80/20	0.6337
316118	AC1-105 C	3.2095	80/20	3.2095
316123	AC1-075 C	0.3995	80/20	0.3995
316129	AC1-054 C	3.1893	80/20	3.1893
316131	AB2-060 C	1.1579	80/20	1.1579
924301	AB2-077 C O1 (Suspended)	1.5318	80/20	1.5318
924311	AB2-078 C O1 (Suspended)	1.5318	80/20	1.5318
924321	AB2-079 C O1 (Suspended)	1.5318	80/20	1.5318
925611	AC1-036 C	0.2579	80/20	0.2579
926023	AC1-080 C	0.1335	80/20	0.1335
926451	AC1-116 C	0.5713	80/20	0.5713
927251	AC1-221 C	0.7553	80/20	0.7553

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
927261	AC1-222 C	1.8201	80/20	1.8201
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9462	80/20	0.9462
932761	AC2-100 C	1.7381	80/20	1.7381
933501	AC2-165 C	31.7798	80/20	31.7798
934311	AD1-055 C	1.2637	80/20	1.2637
934341	AD1-058 C	1.8933	80/20	1.8933
934615	AD1-087 C	4.2927	80/20	4.2927
934625	AD1-088 C	14.0094	80/20	14.0094
934991	AD1-131 C	0.6208	80/20	0.6208
935171	AD1-152 C O1	4.7150	80/20	4.7150
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9363	80/20	13.9363
936361	AD2-046 C O1	5.3660	80/20	5.3660
936485	AD2-063 C	13.8249	80/20	13.8249
937481	AD2-202 C O1	1.2573	80/20	1.2573
938371	AE1-056 C	10.0469	80/20	10.0469
938821	AE1-108 C O1	34.7022	80/20	34.7022
939181	AE1-148 C	5.3595	80/20	5.3595
940661	AE2-053 O1	1.9850	80/20	1.9850
941011	AE2-092 C	28.7092	80/20	28.7092
941791	AE2-182 C	2.2760	80/20	2.2760
942451	AE2-258	1.8434	80/20	1.8434
942461	AE2-259 C O1	18.4818	80/20	18.4818
942751	AE2-291 C	3.6916	80/20	3.6916
942761	AE2-292 C O1	4.5964	80/20	4.5964
943901	AF1-058 C	0.9986	80/20	0.9986
943911	AF1-059	9.4111	80/20	9.4111
945811	AF1-246 C O1	3.3281	80/20	3.3281
946281	AF1-292 C	0.4501	80/20	0.4501
946291	AF1-293 C O1	46.3226	80/20	46.3226
946301	AF1-294 C	6.1424	80/20	6.1424
946591	AF1-323 C	11.1045	80/20	11.1045
957481	AF2-042 C	23.7720	80/20	23.7720
958131	AF2-107 C	5.0062	80/20	5.0062
958211	AF2-115 C	3.6132	80/20	3.6132
958801	AF2-171 C	21.5892	80/20	21.5892
959311	AF2-222 C	19.7350	80/20	19.7350
959751	AF2-266	4.9210	80/20	4.9210

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960061	AF2-297 C	3.9946	80/20	3.9946
960081	AF2-299 C	0.7586	80/20	0.7586
960111	AF2-302 C	4.0380	80/20	4.0380
961061	AF2-397 C	49.3795	80/20	49.3795
961791	AG1-021 C	2.8906	80/20	2.8906
961801	AG1-022 C	4.0380	80/20	4.0380
961891	AG1-030 C	20.0853	80/20	20.0853
962041	AG1-048 C	18.0660	80/20	18.0660
962441	AG1-093 C O2	8.1264	80/20	8.1264
962491	AG1-098 C O2	10.6792	80/20	10.6792
962561	AG1-105 C O2	6.4410	80/20	6.4410
962741	AG1-123 C O2	3.0874	80/20	3.0874
962751	AG1-124 C O2	4.3356	80/20	4.3356
963171	AG1-166 C	2.8906	80/20	2.8906
963181	AG1-167 C	2.8906	80/20	2.8906
963191	AG1-168 C	2.8906	80/20	2.8906
963201	AG1-169 C	2.8906	80/20	2.8906
963211	AG1-170 C	2.8906	80/20	2.8906
963271	AG1-176 C O2	26.6490	80/20	26.6490
963301	AG1-179 C	2.7231	80/20	2.7231
963311	AG1-180	1.3268	80/20	1.3268
963321	AG1-181 C O2	18.6784	80/20	18.6784
963361	AG1-185 O2	9.0371	80/20	9.0371
963641	AG1-215 C	1.3489	80/20	1.3489
964111	AG1-272 C	2.9313	80/20	2.9313
964121	AG1-273 C	2.9313	80/20	2.9313
964131	AG1-274 C	2.9313	80/20	2.9313
964231	AG1-284 C O2	20.2364	80/20	20.2364
964241	AG1-285 C O2	5.6295	80/20	5.6295
964261	AG1-287 C	0.7490	80/20	0.7490
964471	AG1-310 C	1.0445	80/20	1.0445
964791	AG1-342 C	2.5943	80/20	2.5943
964821	AG1-345 C	1.1533	80/20	1.1533
964841	AG1-347 C	11.8171	80/20	11.8171
964931	AG1-357 C O2	18.3276	80/20	18.3276
965191	AG1-384 C	2.9313	80/20	2.9313
965281	AG1-393 C	2.8906	80/20	2.8906
965451	AG1-413 C O2	4.0837	80/20	4.0837
965581	AG1-426	7.5604	80/20	7.5604

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965591	AG1-427 C	10.5285	80/20	10.5285
965601	AG1-428 C O2	2.2733	80/20	2.2733
965641	AG1-432 C O2	36.9636	80/20	36.9636
965721	AG1-440 C	3.7881	80/20	3.7881
965731	AG1-441 C	3.7881	80/20	3.7881
965771	AG1-445	2.1887	80/20	2.1887
965781	AG1-446	2.1887	80/20	2.1887
965831	AG1-451	6.1606	80/20	6.1606
966251	AG1-494 C	1.8190	80/20	1.8190
966621	AG1-532 C	0.4096	80/20	0.4096
966691	AG1-539 C	1.9302	80/20	1.9302
966751	AG1-546 C	6.7407	80/20	6.7407
966791	AG1-550 O2	16.8637	80/20	16.8637
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	5.0276	80/20	5.0276
WEC	WEC	0.1332	Confirmed LTF	0.1332
LGEE	LGEE	0.2859	Confirmed LTF	0.2859
CPL	CPL	2.2666	Confirmed LTF	2.2666
CBM-W2	CBM-W2	7.4995	Confirmed LTF	7.4995
NY	NY	0.4413	Confirmed LTF	0.4413
TVA	TVA	1.5190	Confirmed LTF	1.5190
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.1835	Confirmed LTF	26.1835
CBM-S1	CBM-S1	0.3690	Confirmed LTF	0.3690
MEC	MEC	0.9010	Confirmed LTF	0.9010
LAGN	LAGN	1.8743	Confirmed LTF	1.8743
AA2-074	AA2-074	1.4958	LTF	1.4958
CBM-W1	CBM-W1	5.2575	Confirmed LTF	5.2575

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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
173821387	314902	8CARSON	DVP	314282	6CARSON	DVP	1	DVP_P4-2: 562T563	breaker	1039.7	178.1	178.58	DC	10.91

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313506	AB1-173 C OP	-4.0459	Adder	-4.76
315073	1STONECA	-3.6129	Adder	-4.25
315102	1BRUNSWICKG1	8.9192	50/50	8.9192
315103	1BRUNSWICKG2	8.9192	50/50	8.9192
315104	1BRUNSWICKG3	8.9192	50/50	8.9192
315105	1BRUNSWICKS1	18.5296	50/50	18.5296
315153	1CLOVER1	10.2303	50/50	10.2303
315154	1CLOVER2	10.1283	50/50	10.1283
315241	1Z1-086 GT1	11.5861	50/50	11.5861
315242	1Z1-086 GT2	11.5861	50/50	11.5861
315243	1Z1-086 GT3	11.5861	50/50	11.5861
315244	1Z1-086 ST	20.1410	50/50	20.1410
316132	AB2-190 C	-6.9306	Adder	-8.15
923991	AB2-040 C O1	-4.4065	Adder	-5.18
927251	AC1-221 C	1.0082	Adder	1.19
927252	AC1-221 E	1.0082	Adder	1.19
927261	AC1-222 C	1.4920	Adder	1.76
927262	AC1-222 E	1.4203	Adder	1.67
932581	AC2-078 C O1	-3.3783	Adder	-3.97
932761	AC2-100 C	2.3202	Adder	2.73
932762	AC2-100 E	1.1325	Adder	1.33
934311	AD1-055 C	1.0359	Adder	1.22
934312	AD1-055 E	0.2671	Adder	0.31
934341	AD1-058 C	2.5274	Adder	2.97
934342	AD1-058 E	0.6422	Adder	0.76
934615	AD1-087 C	6.4007	50/50	6.4007
934616	AD1-087 E	2.7390	50/50	2.7390
934625	AD1-088 C	7.8904	50/50	7.8904
934626	AD1-088 E	2.0665	50/50	2.0665
934991	AD1-131 C	0.8286	Adder	0.97
934992	AD1-131 E	0.5524	Adder	0.65

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935171	AD1-152 C O1	7.0306	50/50	7.0306
935172	AD1-152 E O1	4.6870	50/50	4.6870
936761	AD2-097 C	-0.9237	Adder	-1.09
936762	AD2-097 E	-4.6184	Adder	-5.43
937481	AD2-202 C O1	1.8748	50/50	1.8748
937482	AD2-202 E O1	1.0546	50/50	1.0546
938494	AE1-068_C1	34.9451	50/50	34.9451
938497	AE1-068_C2	34.9451	50/50	34.9451
938498	AE1-068_E1	19.3175	50/50	19.3175
938499	AE1-068_E2	19.3175	50/50	19.3175
938504	AE1-069_C1	26.6320	50/50	26.6320
938507	AE1-069_C2	28.7157	50/50	28.7157
938508	AE1-069_E1	15.1501	50/50	15.1501
938509	AE1-069_E2	16.3222	50/50	16.3222
939414	AE1-173_C1	27.3622	50/50	27.3622
939415	AE1-173_C2	23.4533	50/50	23.4533
939416	AE1-173_C3	27.3622	50/50	27.3622
939423	AE1-173_E1	18.2414	50/50	18.2414
939424	AE1-173_E2	15.6355	50/50	15.6355
939425	AE1-173_E3	18.2414	50/50	18.2414
940063	AE2-000B BAT	16.0180	50/50	16.0180
940471	AE2-031 C	38.3252	50/50	38.3252
940472	AE2-031 E	25.5502	50/50	25.5502
940542	AE2-040 BAT	5.2575	50/50	5.2575
940652	AE2-052 BAT	4.0268	50/50	4.0268
941031	AE2-094 C	46.3589	50/50	46.3589
941032	AE2-094 E	20.7631	50/50	20.7631
941791	AE2-182 C	1.2819	50/50	1.2819
941792	AE2-182 E	0.5968	50/50	0.5968
942151	AE2-227 C	-0.8075	Adder	-0.95
942161	AE2-228 C	-1.9053	Adder	-2.24
942931	AE2-313 C	41.3896	50/50	41.3896
942932	AE2-313 E	27.5931	50/50	27.5931
943901	AF1-058 C	0.8269	Adder	0.97
943902	AF1-058 E	0.5513	Adder	0.65
944011	AF1-069 C	15.1472	50/50	15.1472
944012	AF1-069 E	5.8844	50/50	5.8844
945811	AF1-246 C O1	7.0606	50/50	7.0606
945812	AF1-246 E O1	9.7504	50/50	9.7504

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946012	AF1-266 BAT	23.7528	50/50	23.7528
946261	AF1-291 C	-1.8850	Adder	-2.22
957481	AF2-042 C	50.4330	50/50	50.4330
957482	AF2-042 E	33.6220	50/50	33.6220
958142	AF2-108 BAT	1.9766	50/50	1.9766
959641	AF2-255 C	-0.2019	Adder	-0.24
959651	AF2-256 C	-0.4763	Adder	-0.56
959751	AF2-266	7.3435	50/50	7.3435
960061	AF2-297 C	3.3077	Adder	3.89
960062	AF2-297 E	2.2051	Adder	2.59
962193	AG1-064 BAT	0.7931	Merchant Transmission	0.7931
962203	AG1-065 BAT	0.7931	Merchant Transmission	0.7931
962441	AG1-093 C O2	11.5874	50/50	11.5874
962442	AG1-093 E O2	3.5266	50/50	3.5266
963041	AG1-153 C	6.2583	50/50	6.2583
963042	AG1-153 E	9.3874	50/50	9.3874
963111	AG1-160 C	6.4044	50/50	6.4044
963112	AG1-160 E	9.6066	50/50	9.6066
963271	AG1-176 C O2	2.9499	Adder	6.55
963272	AG1-176 E O2	1.9666	Adder	4.37
963291	AG1-178 C O2	68.1497	50/50	68.1497
963312	AG1-180 BAT	1.4723	Merchant Transmission	1.4723
963351	AG1-184 O2	36.7153	50/50	36.7153
964241	AG1-285 C O2	12.9555	50/50	12.9555
964242	AG1-285 E O2	8.6370	50/50	8.6370
964261	AG1-287 C	0.3287	Adder	0.73
964262	AG1-287 E	0.2191	Adder	0.49
964471	AG1-310 C	0.4518	Adder	1.0
964472	AG1-310 E	0.2225	Adder	0.49
964841	AG1-347 C	5.8800	50/50	5.8800
964842	AG1-347 E	4.6200	50/50	4.6200
965811	AG1-449	26.8717	50/50	26.8717
966361	AG1-505 C	18.0837	50/50	18.0837
966362	AG1-505 E	12.0558	50/50	12.0558
966371	AG1-506 C	18.0837	50/50	18.0837
966372	AG1-506 E	12.0558	50/50	12.0558

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
966733	AG1-544 BAT	2.6822	50/50	2.6822
966743	AG1-545 BAT	0.8834	50/50	0.8834
WEC	WEC	0.4536	Confirmed LTF	0.4536
LGEE	LGEE	0.9337	Confirmed LTF	0.9337
CPL	CPL	4.4240	Confirmed LTF	4.4240
CBM-W2	CBM-W2	20.0704	Confirmed LTF	20.0704
NY	NY	0.6686	Confirmed LTF	0.6686
TVA	TVA	3.7982	Confirmed LTF	3.7982
O-066	O-066	9.3951	Confirmed LTF	9.3951
SIGE	SIGE	0.3135	Confirmed LTF	0.3135
CBM-S2	CBM-S2	55.7600	Confirmed LTF	55.7600
CBM-S1	CBM-S1	0.9462	Confirmed LTF	0.9462
G-007	G-007	1.4773	Confirmed LTF	1.4773
MEC	MEC	2.7283	Confirmed LTF	2.7283
LAGN	LAGN	4.7197	Confirmed LTF	4.7197
AA2-074	AA2-074	2.9227	LTF	2.9227
CBM-W1	CBM-W1	18.9550	Confirmed LTF	18.9550

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
173387051	927250	AC1-221 TAP	DVP	304070	6PERSON230 T	CPL	1	DVP_P1-2: LN 556-B-B	single	718.0	161.28	165.23	DC	28.36

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
247284	05LEESVG	0.4591	80/20	0.4591
313527	AB2-043 C	0.6777	80/20	0.6777
314333	6POWHATN	0.1206	80/20	0.1206
314429	3JTRSVLE	0.6020	80/20	0.6020
314677	6BUCKING	0.3988	80/20	0.3988
314704	3LAWRENC	0.1701	80/20	0.1701
315153	1CLOVER1	35.6962	80/20	35.6962
315154	1CLOVER2	35.3404	80/20	35.3404
315156	1HALLBR1	1.0288	80/20	1.0288
315158	1KERR 1	0.3313	80/20	0.3313
315159	1KERR 2	0.9276	80/20	0.9276
315160	1KERR 3	0.9276	80/20	0.9276
315161	1KERR 4	0.9276	80/20	0.9276
315162	1KERR 5	0.9276	80/20	0.9276
315163	1KERR 6	0.9276	80/20	0.9276
315164	1KERR 7	0.9276	80/20	0.9276
315191	1BEARGRDN G1	3.3144	80/20	3.3144
315192	1BEARGRDN G2	3.3144	80/20	3.3144
315193	1BEARGRDN S1	4.2862	80/20	4.2862
315266	1PLYWOOD A	3.0479	80/20	3.0479
316118	AC1-105 C	14.6953	80/20	14.6953
316123	AC1-075 C	1.8835	80/20	1.8835
316129	AC1-054 C	4.0299	80/20	4.0299
316131	AB2-060 C	1.9554	80/20	1.9554
924301	AB2-077 C O1 (Suspended)	2.7590	80/20	2.7590
924311	AB2-078 C O1 (Suspended)	2.7590	80/20	2.7590
924321	AB2-079 C O1 (Suspended)	2.7590	80/20	2.7590
925611	AC1-036 C	0.3165	80/20	0.3165
925661	AC1-042 C	1.5979	80/20	1.5979
926023	AC1-080 C	0.6295	80/20	0.6295

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
926451	AC1-116 C	0.0446	80/20	0.0446
926645	AC1-145 C	0.3001	80/20	0.3001
927251	AC1-221 C	11.7174	80/20	11.7174
927261	AC1-222 C	10.1049	80/20	10.1049
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.3929	80/20	0.3929
932761	AC2-100 C	26.9660	80/20	26.9660
933501	AC2-165 C	3.6987	80/20	3.6987
934311	AD1-055 C	7.0160	80/20	7.0160
934341	AD1-058 C	29.3737	80/20	29.3737
934615	AD1-087 C	22.4303	80/20	22.4303
934625	AD1-088 C	29.6895	80/20	29.6895
934991	AD1-131 C	9.6307	80/20	9.6307
935171	AD1-152 C O1	24.6374	80/20	24.6374
935221	AD1-157 C	0.3412	80/20	0.3412
936265	AD2-033 C	18.1139	80/20	18.1139
936361	AD2-046 C O1	8.4650	80/20	8.4650
936485	AD2-063 C	20.6649	80/20	20.6649
937481	AD2-202 C O1	6.5700	80/20	6.5700
938371	AE1-056 C	9.3221	80/20	9.3221
938561	AE1-075 C	0.1049	80/20	0.1049
938821	AE1-108 C O1	7.2807	80/20	7.2807
939181	AE1-148 C	8.5007	80/20	8.5007
939941	AE1-230 C	0.7209	80/20	0.7209
940661	AE2-053 O1	3.1484	80/20	3.1484
941011	AE2-092 C	6.3234	80/20	6.3234
941791	AE2-182 C	4.8235	80/20	4.8235
941801	AE2-185 C	3.6043	80/20	3.6043
941821	AE2-187 C	3.6043	80/20	3.6043
942451	AE2-258	3.2048	80/20	3.2048
942461	AE2-259 C O1	14.7138	80/20	14.7138
942671	AE2-283 C	3.9648	80/20	3.9648
942751	AE2-291 C	15.6354	80/20	15.6354
942761	AE2-292 C O1	19.4676	80/20	19.4676
943901	AF1-058 C	5.7308	80/20	5.7308
943911	AF1-059	14.4227	80/20	14.4227
945081	AF1-173	1.3967	80/20	1.3967
945811	AF1-246 C O1	21.5242	80/20	21.5242
946291	AF1-293 C O1	9.4568	80/20	9.4568

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
946301	AF1-294 C	6.0812	80/20	6.0812
946591	AF1-323 C	2.4073	80/20	2.4073
957481	AF2-042 C	153.7440	80/20	153.7440
958211	AF2-115 C	3.5772	80/20	3.5772
958501	AF2-144 C	0.5650	80/20	0.5650
958801	AF2-171 C	21.4497	80/20	21.4497
959311	AF2-222 C	23.4030	80/20	23.4030
959531	AF2-244 C (Withdrawn : 01/06/2021)	0.5207	80/20	0.5207
959751	AF2-266	25.6235	80/20	25.6235
960061	AF2-297 C	22.9234	80/20	22.9234
960111	AF2-302 C	0.8754	80/20	0.8754
961061	AF2-397 C	7.1214	80/20	7.1214
961121	AF2-403	0.8010	80/20	0.8010
961791	AG1-021 C	2.8618	80/20	2.8618
961801	AG1-022 C	0.8754	80/20	0.8754
961891	AG1-030 C	21.3030	80/20	21.3030
962041	AG1-048 C	17.8860	80/20	17.8860
962441	AG1-093 C O2	51.1088	80/20	51.1088
962491	AG1-098 C O2	17.1435	80/20	17.1435
962561	AG1-105 C O2	21.0366	80/20	21.0366
963171	AG1-166 C	2.8618	80/20	2.8618
963181	AG1-167 C	2.8618	80/20	2.8618
963191	AG1-168 C	2.8618	80/20	2.8618
963201	AG1-169 C	2.8618	80/20	2.8618
963211	AG1-170 C	2.8618	80/20	2.8618
963271	AG1-176 C O2	28.3569	80/20	28.3569
963301	AG1-179 C	3.8207	80/20	3.8207
963311	AG1-180	1.8616	80/20	1.8616
963321	AG1-181 C O2	23.5297	80/20	23.5297
963361	AG1-185 O2	11.3843	80/20	11.3843
963601	AG1-209 C	0.2803	80/20	0.2803
963641	AG1-215 C	1.3355	80/20	1.3355
964111	AG1-272 C	3.5975	80/20	3.5975
964121	AG1-273 C	3.5975	80/20	3.5975
964131	AG1-274 C	3.5975	80/20	3.5975
964141	AG1-275 C	1.2014	80/20	1.2014
964151	AG1-276 C	1.2014	80/20	1.2014
964231	AG1-284 C O2	3.9984	80/20	3.9984

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964241	AG1-285 C O2	38.4360	80/20	38.4360
964251	AG1-286 C	0.4497	80/20	0.4497
964261	AG1-287 C	4.2981	80/20	4.2981
964471	AG1-310 C	5.7147	80/20	5.7147
964791	AG1-342 C	9.4188	80/20	9.4188
964821	AG1-345 C	1.1444	80/20	1.1444
964841	AG1-347 C	22.4661	80/20	22.4661
964931	AG1-357 C O2	27.5544	80/20	27.5544
965191	AG1-384 C	3.5975	80/20	3.5975
965281	AG1-393 C	2.8618	80/20	2.8618
965451	AG1-413 C O2	6.3542	80/20	6.3542
965581	AG1-426	1.5862	80/20	1.5862
965591	AG1-427 C	16.2855	80/20	16.2855
965601	AG1-428 C O2	3.1896	80/20	3.1896
965641	AG1-432 C O2	29.4276	80/20	29.4276
965721	AG1-440 C	5.4864	80/20	5.4864
965731	AG1-441 C	5.4864	80/20	5.4864
965771	AG1-445	3.1699	80/20	3.1699
965781	AG1-446	3.1699	80/20	3.1699
965831	AG1-451	4.9046	80/20	4.9046
966691	AG1-539 C	8.1754	80/20	8.1754
966751	AG1-546 C	8.2011	80/20	8.2011
966761	AG1-547 C	3.2579	80/20	3.2579
966791	AG1-550 O2	3.3320	80/20	3.3320
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.5247	80/20	2.5247
G-007A	G-007A	0.4891	Confirmed LTF	0.4891
VFT	VFT	1.2964	Confirmed LTF	1.2964
CALDERWOOD	CALDERWOOD	1.4443	Confirmed LTF	1.4443
PRAIRIE	PRAIRIE	4.6726	Confirmed LTF	4.6726
AC1-131	AC1-131	5.2830	LTF	5.2830
CHEOAH	CHEOAH	1.4865	Confirmed LTF	1.4865
CBM-N	CBM-N	0.2328	Confirmed LTF	0.2328
COTTONWOOD	COTTONWOOD	5.2395	Confirmed LTF	5.2395
HAMLET	HAMLET	3.2011	Confirmed LTF	3.2011
GIBSON	GIBSON	0.7912	Confirmed LTF	0.7912
BLUEG	BLUEG	2.4078	Confirmed LTF	2.4078
TRIMBLE	TRIMBLE	0.7618	Confirmed LTF	0.7618
CATAWBA	CATAWBA	1.6965	Confirmed LTF	1.6965

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
175225189	933500	AC2-165 TAP	DVP	314333	6POWHATN	DVP	1	DVP_P1-2: LN 2028-B-1	single	800.88	105.43	108.12	DC	21.56

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2811	80/20	0.2811
314429	3JTRSVLE	0.4835	80/20	0.4835
314677	6BUCKING	0.8051	80/20	0.8051
315153	1CLOVER1	4.3284	80/20	4.3284
315154	1CLOVER2	4.2852	80/20	4.2852
315158	1KERR 1	0.1411	80/20	0.1411
315159	1KERR 2	0.3952	80/20	0.3952
315160	1KERR 3	0.3952	80/20	0.3952
315161	1KERR 4	0.3952	80/20	0.3952
315162	1KERR 5	0.3952	80/20	0.3952
315163	1KERR 6	0.3952	80/20	0.3952
315164	1KERR 7	0.3952	80/20	0.3952
315191	1BEARGRDN G1	14.2612	80/20	14.2612
315192	1BEARGRDN G2	14.2612	80/20	14.2612
315193	1BEARGRDN S1	18.4425	80/20	18.4425
315266	1PLYWOOD A	0.4253	80/20	0.4253
316118	AC1-105 C	2.1876	80/20	2.1876
316131	AB2-060 C	0.8407	80/20	0.8407
924301	AB2-077 C O1 (Suspended)	1.0994	80/20	1.0994
924311	AB2-078 C O1 (Suspended)	1.0994	80/20	1.0994
924321	AB2-079 C O1 (Suspended)	1.0994	80/20	1.0994
925611	AC1-036 C	0.1990	80/20	0.1990
927261	AC1-222 C	1.2313	80/20	1.2313
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.7931	80/20	0.7931
933501	AC2-165 C	39.2445	80/20	39.2445
934311	AD1-055 C	0.8549	80/20	0.8549
934615	AD1-087 C	2.7103	80/20	2.7103
934625	AD1-088 C	10.6986	80/20	10.6986
935171	AD1-152 C O1	2.9770	80/20	2.9770

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
935221	AD1-157 C	0.2946	80/20	0.2946
936265	AD2-033 C	10.6548	80/20	10.6548
936361	AD2-046 C O1	3.5828	80/20	3.5828
936485	AD2-063 C	10.3014	80/20	10.3014
937481	AD2-202 C O1	0.7939	80/20	0.7939
938371	AE1-056 C	8.0510	80/20	8.0510
938821	AE1-108 C O1	29.3760	80/20	29.3760
939181	AE1-148 C	3.5932	80/20	3.5932
940661	AE2-053 O1	1.3308	80/20	1.3308
941011	AE2-092 C	25.2822	80/20	25.2822
941791	AE2-182 C	1.7381	80/20	1.7381
942451	AE2-258	1.3291	80/20	1.3291
942461	AE2-259 C O1	15.0516	80/20	15.0516
943901	AF1-058 C	0.6646	80/20	0.6646
943911	AF1-059	5.9093	80/20	5.9093
946291	AF1-293 C O1	39.5443	80/20	39.5443
946301	AF1-294 C	4.8845	80/20	4.8845
946591	AF1-323 C	9.4261	80/20	9.4261
958131	AF2-107 C	4.3750	80/20	4.3750
958211	AF2-115 C	2.8733	80/20	2.8733
958801	AF2-171 C	17.1603	80/20	17.1603
959311	AF2-222 C	15.3100	80/20	15.3100
959751	AF2-266	3.1070	80/20	3.1070
960061	AF2-297 C	2.6582	80/20	2.6582
960111	AF2-302 C	3.4277	80/20	3.4277
961061	AF2-397 C	36.6538	80/20	36.6538
961791	AG1-021 C	2.2986	80/20	2.2986
961801	AG1-022 C	3.4277	80/20	3.4277
961891	AG1-030 C	15.8310	80/20	15.8310
962041	AG1-048 C	14.3663	80/20	14.3663
962441	AG1-093 C O2	5.1308	80/20	5.1308
962491	AG1-098 C O2	7.8412	80/20	7.8412
962561	AG1-105 C O2	4.5072	80/20	4.5072
962741	AG1-123 C O2	2.8673	80/20	2.8673
962751	AG1-124 C O2	4.0170	80/20	4.0170
963171	AG1-166 C	2.2986	80/20	2.2986
963181	AG1-167 C	2.2986	80/20	2.2986
963191	AG1-168 C	2.2986	80/20	2.2986
963201	AG1-169 C	2.2986	80/20	2.2986

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963211	AG1-170 C	2.2986	80/20	2.2986
963271	AG1-176 C O2	21.5558	80/20	21.5558
963321	AG1-181 C O2	14.3538	80/20	14.3538
963361	AG1-185 O2	6.9447	80/20	6.9447
963641	AG1-215 C	1.0727	80/20	1.0727
964111	AG1-272 C	2.2620	80/20	2.2620
964121	AG1-273 C	2.2620	80/20	2.2620
964131	AG1-274 C	2.2620	80/20	2.2620
964231	AG1-284 C O2	17.0478	80/20	17.0478
964261	AG1-287 C	0.4984	80/20	0.4984
964471	AG1-310 C	0.7118	80/20	0.7118
964791	AG1-342 C	1.8023	80/20	1.8023
964821	AG1-345 C	0.9168	80/20	0.9168
964841	AG1-347 C	9.1353	80/20	9.1353
964931	AG1-357 C O2	13.6428	80/20	13.6428
965191	AG1-384 C	2.2620	80/20	2.2620
965281	AG1-393 C	2.2986	80/20	2.2986
965451	AG1-413 C O2	2.6075	80/20	2.6075
965581	AG1-426	6.4000	80/20	6.4000
965591	AG1-427 C	7.7911	80/20	7.7911
965641	AG1-432 C O2	30.1032	80/20	30.1032
965721	AG1-440 C	2.3620	80/20	2.3620
965731	AG1-441 C	2.3620	80/20	2.3620
965771	AG1-445	1.3647	80/20	1.3647
965781	AG1-446	1.3647	80/20	1.3647
965831	AG1-451	5.0172	80/20	5.0172
966251	AG1-494 C	1.6494	80/20	1.6494
966791	AG1-550 O2	14.2065	80/20	14.2065
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	4.1932	80/20	4.1932
WEC	WEC	0.1988	Confirmed LTF	0.1988
LGEE	LGEE	0.4247	Confirmed LTF	0.4247
CPLE	CPLE	1.0859	Confirmed LTF	1.0859
CBM-W2	CBM-W2	7.3114	Confirmed LTF	7.3114
NY	NY	0.3512	Confirmed LTF	0.3512
TVA	TVA	1.3104	Confirmed LTF	1.3104
SIGE	SIGE	0.1503	Confirmed LTF	0.1503
CBM-S2	CBM-S2	14.5012	Confirmed LTF	14.5012
CBM-S1	CBM-S1	0.3374	Confirmed LTF	0.3374

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
MEC	MEC	1.1075	Confirmed LTF	1.1075
LAGN	LAGN	1.5942	Confirmed LTF	1.5942
CBM-W1	CBM-W1	8.3419	Confirmed LTF	8.3419

13.5.28 Index 28

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
164015290	936480	AD2-063 TAP	DVP	965590	AG1-427 TAP	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	103.51	105.13	DC	12.5

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
314677	6BUCKING	0.2253	50/50	0.2253
314713	3PAMPLIN	3.9554	50/50	3.9554
924032	AB2-045 E	0.6664	50/50	0.6664
925611	AC1-036 C	0.9224	50/50	0.9224
925612	AC1-036 E	3.5012	50/50	3.5012
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.2219	50/50	0.2219
932512	AC2-071 E (Withdrawn : 01/22/2021)	0.7087	50/50	0.7087
935221	AD1-157 C	0.5771	50/50	0.5771
935222	AD1-157 E	2.4386	50/50	2.4386
936485	AD2-063 C	74.2293	50/50	74.2293
936486	AD2-063 E	49.4862	50/50	49.4862
938371	AE1-056 C	15.7695	50/50	15.7695
938372	AE1-056 E	8.6163	50/50	8.6163
942461	AE2-259 C O1	12.6876	50/50	12.6876
942462	AE2-259 E O1	8.4584	50/50	8.4584
958801	AF2-171 C	43.3908	50/50	43.3908
958802	AF2-171 E	28.9272	50/50	28.9272
959311	AF2-222 C	65.1050	50/50	65.1050
959312	AF2-222 E	43.6203	50/50	43.6203
963271	AG1-176 C O2	3.3799	Adder	7.5
963272	AG1-176 E O2	2.2533	Adder	5.0
963321	AG1-181 C O2	70.8641	50/50	70.8641
963361	AG1-185 O2	34.2859	50/50	34.2859
964111	AG1-272 C	10.4831	50/50	10.4831
964112	AG1-272 E	3.1137	50/50	3.1137
964121	AG1-273 C	10.4831	50/50	10.4831
964122	AG1-273 E	3.1137	50/50	3.1137
964131	AG1-274 C	10.4831	50/50	10.4831
964132	AG1-274 E	3.1137	50/50	3.1137
965191	AG1-384 C	10.4831	50/50	10.4831

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965192	AG1-384 E	3.1137	50/50	3.1137
965641	AG1-432 C O2	25.3752	50/50	25.3752
965642	AG1-432 E O2	16.9168	50/50	16.9168
965831	AG1-451	4.2292	50/50	4.2292
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	1.2692	50/50	1.2692
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	0.8462	50/50	0.8462
G-007A	G-007A	0.0551	Confirmed LTF	0.0551
VFT	VFT	0.1484	Confirmed LTF	0.1484
CALDERWOOD	CALDERWOOD	0.0393	Confirmed LTF	0.0393
PRAIRIE	PRAIRIE	0.1446	Confirmed LTF	0.1446
CHEOAH	CHEOAH	0.0400	Confirmed LTF	0.0400
CBM-N	CBM-N	0.0264	Confirmed LTF	0.0264
COTTONWOOD	COTTONWOOD	0.1470	Confirmed LTF	0.1470
HAMLET	HAMLET	0.0699	Confirmed LTF	0.0699
GIBSON	GIBSON	0.0268	Confirmed LTF	0.0268
BLUEG	BLUEG	0.0833	Confirmed LTF	0.0833
TRIMBLE	TRIMBLE	0.0267	Confirmed LTF	0.0267
CATAWBA	CATAWBA	0.0385	Confirmed LTF	0.0385

13.5.29 Index 29

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
175835497	942750	AE2-291 TAP	DVP	314694	3GRIT	DVP	1	DVP_P1-2: LN 556-B-A	single	285.76	108.75	110.45	DC	4.84

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.2342	80/20	0.2342
314429	3JTRSVLE	0.1582	80/20	0.1582
315153	1CLOVER1	5.6497	80/20	5.6497
315154	1CLOVER2	5.5934	80/20	5.5934
315158	1KERR 1	0.1479	80/20	0.1479
315159	1KERR 2	0.4140	80/20	0.4140
315160	1KERR 3	0.4140	80/20	0.4140
315161	1KERR 4	0.4140	80/20	0.4140
315162	1KERR 5	0.4140	80/20	0.4140
315163	1KERR 6	0.4140	80/20	0.4140
315164	1KERR 7	0.4140	80/20	0.4140
315266	1PLYWOOD A	1.0279	80/20	1.0279
316118	AC1-105 C	4.9149	80/20	4.9149
316123	AC1-075 C	2.6596	80/20	2.6596
316131	AB2-060 C	0.6693	80/20	0.6693
924301	AB2-077 C O1 (Suspended)	0.9595	80/20	0.9595
924311	AB2-078 C O1 (Suspended)	0.9595	80/20	0.9595
924321	AB2-079 C O1 (Suspended)	0.9595	80/20	0.9595
925611	AC1-036 C	0.0950	80/20	0.0950
925661	AC1-042 C	-2.7383	Adder	-3.22
926023	AC1-080 C	0.8889	80/20	0.8889
927261	AC1-222 C	5.0515	80/20	5.0515
934311	AD1-055 C	3.5074	80/20	3.5074
934615	AD1-087 C	3.5493	80/20	3.5493
934625	AD1-088 C	4.8388	80/20	4.8388
935171	AD1-152 C O1	3.8986	80/20	3.8986
935221	AD1-157 C	0.0853	80/20	0.0853
936265	AD2-033 C	5.5895	80/20	5.5895
936361	AD2-046 C O1	3.5702	80/20	3.5702
936485	AD2-063 C	6.7725	80/20	6.7725

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
937481	AD2-202 C O1	1.0396	80/20	1.0396
938371	AE1-056 C	2.3296	80/20	2.3296
939181	AE1-148 C	3.5473	80/20	3.5473
940661	AE2-053 O1	1.3138	80/20	1.3138
941791	AE2-182 C	0.7861	80/20	0.7861
942451	AE2-258	1.1076	80/20	1.1076
942461	AE2-259 C O1	3.1770	80/20	3.1770
942751	AE2-291 C	32.7677	80/20	32.7677
942761	AE2-292 C O1	40.7990	80/20	40.7990
943901	AF1-058 C	1.9088	80/20	1.9088
943911	AF1-059	5.6494	80/20	5.6494
945811	AF1-246 C O1	3.4070	80/20	3.4070
946301	AF1-294 C	1.5978	80/20	1.5978
957481	AF2-042 C	24.3360	80/20	24.3360
958211	AF2-115 C	0.9399	80/20	0.9399
958801	AF2-171 C	5.6511	80/20	5.6511
959311	AF2-222 C	6.8930	80/20	6.8930
959751	AF2-266	4.0555	80/20	4.0555
960061	AF2-297 C	7.6354	80/20	7.6354
961791	AG1-021 C	0.7519	80/20	0.7519
961891	AG1-030 C	5.8698	80/20	5.8698
962041	AG1-048 C	4.6995	80/20	4.6995
962441	AG1-093 C O2	8.0086	80/20	8.0086
962491	AG1-098 C O2	5.7675	80/20	5.7675
962561	AG1-105 C O2	7.0932	80/20	7.0932
963171	AG1-166 C	0.7519	80/20	0.7519
963181	AG1-167 C	0.7519	80/20	0.7519
963191	AG1-168 C	0.7519	80/20	0.7519
963201	AG1-169 C	0.7519	80/20	0.7519
963211	AG1-170 C	0.7519	80/20	0.7519
963271	AG1-176 C O2	4.8438	80/20	4.8438
963321	AG1-181 C O2	7.1521	80/20	7.1521
963361	AG1-185 O2	3.4604	80/20	3.4604
963641	AG1-215 C	0.3509	80/20	0.3509
964111	AG1-272 C	1.0791	80/20	1.0791
964121	AG1-273 C	1.0791	80/20	1.0791
964131	AG1-274 C	1.0791	80/20	1.0791
964261	AG1-287 C	1.4316	80/20	1.4316
964471	AG1-310 C	3.2918	80/20	3.2918

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964791	AG1-342 C	3.1669	80/20	3.1669
964821	AG1-345 C	0.3012	80/20	0.3012
964841	AG1-347 C	3.6820	80/20	3.6820
964931	AG1-357 C O2	9.0492	80/20	9.0492
965191	AG1-384 C	1.0791	80/20	1.0791
965281	AG1-393 C	0.7519	80/20	0.7519
965451	AG1-413 C O2	2.4520	80/20	2.4520
965591	AG1-427 C	5.4072	80/20	5.4072
965641	AG1-432 C O2	6.3540	80/20	6.3540
965721	AG1-440 C	2.5690	80/20	2.5690
965731	AG1-441 C	2.5690	80/20	2.5690
965771	AG1-445	1.4843	80/20	1.4843
965781	AG1-446	1.4843	80/20	1.4843
965831	AG1-451	1.0590	80/20	1.0590
966691	AG1-539 C	17.1334	80/20	17.1334
CPLE	CPLE	1.2333	Confirmed LTF	1.2333
G-007A	G-007A	0.2374	Confirmed LTF	0.2374
VFT	VFT	0.6256	Confirmed LTF	0.6256
PRAIRIE	PRAIRIE	0.4856	Confirmed LTF	0.4856
CBM-S2	CBM-S2	10.8785	Confirmed LTF	10.8785
CBM-N	CBM-N	0.1116	Confirmed LTF	0.1116
GIBSON	GIBSON	0.1638	Confirmed LTF	0.1638
BLUEG	BLUEG	0.5781	Confirmed LTF	0.5781
TRIMBLE	TRIMBLE	0.1881	Confirmed LTF	0.1881
LAGN	LAGN	0.0350	Confirmed LTF	0.0350

13.5.30 Index 30

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC DC	MW IMPACT
175028095	961060	AF2-397 TAP	DVP	314765	6MTEAGLE	DVP	1	314333 6POWHATN 230 933500 AC2-165 TAP 230 1	single	661.76	141.01	145.04	DC	26.65

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313527	AB2-043 C	0.3899	80/20	0.3899
314429	3JTRSVLE	0.6081	80/20	0.6081
314572	3EMPORIA	0.1253	80/20	0.1253
314677	6BUCKING	0.9605	80/20	0.9605
314704	3LAWRENC	0.1287	80/20	0.1287
315153	1CLOVER1	6.8569	80/20	6.8569
315154	1CLOVER2	6.7885	80/20	6.7885
315158	1KERR 1	0.2163	80/20	0.2163
315159	1KERR 2	0.6058	80/20	0.6058
315160	1KERR 3	0.6058	80/20	0.6058
315161	1KERR 4	0.6058	80/20	0.6058
315162	1KERR 5	0.6058	80/20	0.6058
315163	1KERR 6	0.6058	80/20	0.6058
315164	1KERR 7	0.6058	80/20	0.6058
315191	1BEARGRDN G1	16.8024	80/20	16.8024
315192	1BEARGRDN G2	16.8024	80/20	16.8024
315193	1BEARGRDN S1	21.7287	80/20	21.7287
315266	1PLYWOOD A	0.6338	80/20	0.6338
316118	AC1-105 C	3.2102	80/20	3.2102
316123	AC1-075 C	0.3997	80/20	0.3997
316129	AC1-054 C	3.1902	80/20	3.1902
316131	AB2-060 C	1.1581	80/20	1.1581
924301	AB2-077 C O1 (Suspended)	1.5320	80/20	1.5320
924311	AB2-078 C O1 (Suspended)	1.5320	80/20	1.5320
924321	AB2-079 C O1 (Suspended)	1.5320	80/20	1.5320
925611	AC1-036 C	0.2580	80/20	0.2580
926023	AC1-080 C	0.1336	80/20	0.1336
927251	AC1-221 C	0.7557	80/20	0.7557
927261	AC1-222 C	1.8205	80/20	1.8205

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.9463	80/20	0.9463
932761	AC2-100 C	1.7391	80/20	1.7391
933501	AC2-165 C	31.7815	80/20	31.7815
934311	AD1-055 C	1.2640	80/20	1.2640
934341	AD1-058 C	1.8944	80/20	1.8944
934615	AD1-087 C	4.2935	80/20	4.2935
934625	AD1-088 C	14.0115	80/20	14.0115
934991	AD1-131 C	0.6211	80/20	0.6211
935171	AD1-152 C O1	4.7160	80/20	4.7160
935221	AD1-157 C	0.3677	80/20	0.3677
936265	AD2-033 C	13.9378	80/20	13.9378
936361	AD2-046 C O1	5.3677	80/20	5.3677
936485	AD2-063 C	13.8267	80/20	13.8267
937481	AD2-202 C O1	1.2576	80/20	1.2576
938371	AE1-056 C	10.0476	80/20	10.0476
938821	AE1-108 C O1	34.7050	80/20	34.7050
939181	AE1-148 C	5.3606	80/20	5.3606
940661	AE2-053 O1	1.9854	80/20	1.9854
941011	AE2-092 C	28.7117	80/20	28.7117
941791	AE2-182 C	2.2764	80/20	2.2764
942451	AE2-258	1.8439	80/20	1.8439
942461	AE2-259 C O1	18.4830	80/20	18.4830
942751	AE2-291 C	3.6928	80/20	3.6928
942761	AE2-292 C O1	4.5979	80/20	4.5979
943901	AF1-058 C	0.9990	80/20	0.9990
943911	AF1-059	9.4131	80/20	9.4131
945811	AF1-246 C O1	3.3289	80/20	3.3289
946281	AF1-292 C	0.4503	80/20	0.4503
946291	AF1-293 C O1	46.3247	80/20	46.3247
946301	AF1-294 C	6.1429	80/20	6.1429
946591	AF1-323 C	11.1052	80/20	11.1052
957481	AF2-042 C	23.7780	80/20	23.7780
958131	AF2-107 C	5.0071	80/20	5.0071
958211	AF2-115 C	3.6135	80/20	3.6135
958801	AF2-171 C	21.5919	80/20	21.5919
959311	AF2-222 C	19.7370	80/20	19.7370
959751	AF2-266	4.9220	80/20	4.9220
960061	AF2-297 C	3.9960	80/20	3.9960

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
960081	AF2-299 C	0.7590	80/20	0.7590
960111	AF2-302 C	4.0382	80/20	4.0382
961061	AF2-397 C	49.3810	80/20	49.3810
961791	AG1-021 C	2.8908	80/20	2.8908
961801	AG1-022 C	4.0382	80/20	4.0382
961891	AG1-030 C	20.0871	80/20	20.0871
962041	AG1-048 C	18.0675	80/20	18.0675
962441	AG1-093 C O2	8.1291	80/20	8.1291
962491	AG1-098 C O2	10.6807	80/20	10.6807
962561	AG1-105 C O2	6.4428	80/20	6.4428
962741	AG1-123 C O2	3.0883	80/20	3.0883
962751	AG1-124 C O2	4.3368	80/20	4.3368
963171	AG1-166 C	2.8908	80/20	2.8908
963181	AG1-167 C	2.8908	80/20	2.8908
963191	AG1-168 C	2.8908	80/20	2.8908
963201	AG1-169 C	2.8908	80/20	2.8908
963211	AG1-170 C	2.8908	80/20	2.8908
963271	AG1-176 C O2	26.6508	80/20	26.6508
963301	AG1-179 C	2.7241	80/20	2.7241
963311	AG1-180	1.3273	80/20	1.3273
963321	AG1-181 C O2	18.6814	80/20	18.6814
963361	AG1-185 O2	9.0386	80/20	9.0386
963641	AG1-215 C	1.3490	80/20	1.3490
964111	AG1-272 C	2.9318	80/20	2.9318
964121	AG1-273 C	2.9318	80/20	2.9318
964131	AG1-274 C	2.9318	80/20	2.9318
964231	AG1-284 C O2	20.2377	80/20	20.2377
964241	AG1-285 C O2	5.6317	80/20	5.6317
964261	AG1-287 C	0.7493	80/20	0.7493
964471	AG1-310 C	1.0449	80/20	1.0449
964791	AG1-342 C	2.5948	80/20	2.5948
964821	AG1-345 C	1.1534	80/20	1.1534
964841	AG1-347 C	11.8188	80/20	11.8188
964931	AG1-357 C O2	18.3312	80/20	18.3312
965191	AG1-384 C	2.9318	80/20	2.9318
965281	AG1-393 C	2.8908	80/20	2.8908
965451	AG1-413 C O2	4.0845	80/20	4.0845
965581	AG1-426	7.5610	80/20	7.5610
965591	AG1-427 C	10.5299	80/20	10.5299

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
965601	AG1-428 C O2	2.2741	80/20	2.2741
965641	AG1-432 C O2	36.9660	80/20	36.9660
965721	AG1-440 C	3.7895	80/20	3.7895
965731	AG1-441 C	3.7895	80/20	3.7895
965771	AG1-445	2.1895	80/20	2.1895
965781	AG1-446	2.1895	80/20	2.1895
965831	AG1-451	6.1610	80/20	6.1610
966251	AG1-494 C	1.8194	80/20	1.8194
966621	AG1-532 C	0.4099	80/20	0.4099
966691	AG1-539 C	1.9309	80/20	1.9309
966751	AG1-546 C	6.7436	80/20	6.7436
966791	AG1-550 O2	16.8647	80/20	16.8647
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	5.0279	80/20	5.0279
WEC	WEC	0.1342	Confirmed LTF	0.1342
LGEE	LGEE	0.2878	Confirmed LTF	0.2878
CPL	CPL	2.2686	Confirmed LTF	2.2686
CBM-W2	CBM-W2	7.5264	Confirmed LTF	7.5264
NY	NY	0.4396	Confirmed LTF	0.4396
TVA	TVA	1.5232	Confirmed LTF	1.5232
SIGE	SIGE	0.1431	Confirmed LTF	0.1431
CBM-S2	CBM-S2	26.2148	Confirmed LTF	26.2148
CBM-S1	CBM-S1	0.3701	Confirmed LTF	0.3701
MEC	MEC	0.9057	Confirmed LTF	0.9057
LAGN	LAGN	1.8795	Confirmed LTF	1.8795
AA2-074	AA2-074	1.4972	LTF	1.4972
CBM-W1	CBM-W1	5.2996	Confirmed LTF	5.2996

13.5.31 Index 31

ID	FROM BUS#	FROM BUS	FROM BUS AREA	TO BUS#	TO BUS	TO BUS AREA	CKT ID	CONT NAME	Type	Rating MVA	PRE PROJECT LOADING %	POST PROJECT LOADING %	AC/DC	MW IMPACT
174402725	962440	AG1-093 TAP	DVP	314697	6SEGE HILL	DVP	1	DVP_P4-2: 511T556	breaker	997.0	132.27	137.92	DC	56.4

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	0.5269	50/50	0.5269
314429	3JTRSVLE	0.3325	50/50	0.3325
314677	6BUCKING	0.4426	50/50	0.4426
314713	3PAMPLIN	1.4950	50/50	1.4950
315153	1CLOVER1	46.6439	50/50	46.6439
315154	1CLOVER2	46.1790	50/50	46.1790
315191	1BEARGRDN G1	3.6218	50/50	3.6218
315192	1BEARGRDN G2	3.6218	50/50	3.6218
315193	1BEARGRDN S1	4.6837	50/50	4.6837
924032	AB2-045 E	1.3093	50/50	1.3093
927251	AC1-221 C	-1.3409	Adder	-1.58
927261	AC1-222 C	-2.7533	Adder	-3.24
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.4361	50/50	0.4361
932512	AC2-071 E (Withdrawn : 01/22/2021)	1.3924	50/50	1.3924
934311	AD1-055 C	-1.9117	Adder	-2.25
934341	AD1-058 C	-3.3614	Adder	-3.95
934615	AD1-087 C	29.3161	50/50	29.3161
934616	AD1-087 E	12.5449	50/50	12.5449
934625	AD1-088 C	37.5350	50/50	37.5350
934626	AD1-088 E	9.8306	50/50	9.8306
935171	AD1-152 C O1	32.2008	50/50	32.2008
935172	AD1-152 E O1	21.4672	50/50	21.4672
935221	AD1-157 C	0.2181	50/50	0.2181
935222	AD1-157 E	0.9217	50/50	0.9217
937481	AD2-202 C O1	8.5869	50/50	8.5869
937482	AD2-202 E O1	4.8301	50/50	4.8301
938371	AE1-056 C	5.9605	50/50	5.9605
938372	AE1-056 E	3.2567	50/50	3.2567
941791	AE2-182 C	6.0981	50/50	6.0981
941792	AE2-182 E	2.8388	50/50	2.8388

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
942461	AE2-259 C O1	12.7848	50/50	12.7848
942462	AE2-259 E O1	8.5232	50/50	8.5232
943901	AF1-058 C	-1.5468	Adder	-1.82
945811	AF1-246 C O1	28.1253	50/50	28.1253
945812	AF1-246 E O1	38.8397	50/50	38.8397
946301	AF1-294 C	3.3589	50/50	3.3589
946302	AF1-294 E	2.2392	50/50	2.2392
957481	AF2-042 C	200.8950	50/50	200.8950
957482	AF2-042 E	133.9300	50/50	133.9300
958211	AF2-115 C	1.9758	50/50	1.9758
958212	AF2-115 E	1.3172	50/50	1.3172
958801	AF2-171 C	11.7477	50/50	11.7477
958802	AF2-171 E	7.8318	50/50	7.8318
959751	AF2-266	33.4820	50/50	33.4820
961061	AF2-397 C	6.5789	Adder	7.74
961062	AF2-397 E	4.3860	Adder	5.16
961791	AG1-021 C	1.5806	50/50	1.5806
961792	AG1-021 E	1.0538	50/50	1.0538
961891	AG1-030 C	9.9225	50/50	9.9225
961892	AG1-030 E	6.6150	50/50	6.6150
962041	AG1-048 C	9.8790	50/50	9.8790
962042	AG1-048 E	6.5860	50/50	6.5860
962441	AG1-093 C O2	67.5078	50/50	67.5078
962442	AG1-093 E O2	20.5458	50/50	20.5458
963171	AG1-166 C	1.5806	50/50	1.5806
963172	AG1-166 E	1.0538	50/50	1.0538
963181	AG1-167 C	1.5806	50/50	1.5806
963182	AG1-167 E	1.0538	50/50	1.0538
963191	AG1-168 C	1.5806	50/50	1.5806
963192	AG1-168 E	1.0538	50/50	1.0538
963201	AG1-169 C	1.5806	50/50	1.5806
963202	AG1-169 E	1.0538	50/50	1.0538
963211	AG1-170 C	1.5806	50/50	1.5806
963212	AG1-170 E	1.0538	50/50	1.0538
963271	AG1-176 C O2	33.8375	50/50	33.8375
963272	AG1-176 E O2	22.5584	50/50	22.5584
963641	AG1-215 C	0.7376	50/50	0.7376
963642	AG1-215 E	1.1064	50/50	1.1064
964231	AG1-284 C O2	4.2050	50/50	4.2050

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
964232	AG1-284 E O2	2.8034	50/50	2.8034
964241	AG1-285 C O2	50.2238	50/50	50.2238
964242	AG1-285 E O2	33.4825	50/50	33.4825
964821	AG1-345 C	0.6287	50/50	0.6287
964822	AG1-345 E	0.4191	50/50	0.4191
964841	AG1-347 C	28.2184	50/50	28.2184
964842	AG1-347 E	22.1716	50/50	22.1716
965281	AG1-393 C	1.5806	50/50	1.5806
965282	AG1-393 E	1.0538	50/50	1.0538
965641	AG1-432 C O2	25.5696	50/50	25.5696
965642	AG1-432 E O2	17.0464	50/50	17.0464
965831	AG1-451	4.2616	50/50	4.2616
966361	AG1-505 C	60.2703	50/50	60.2703
966362	AG1-505 E	40.1802	50/50	40.1802
966371	AG1-506 C	60.2703	50/50	60.2703
966372	AG1-506 E	40.1802	50/50	40.1802
966791	AG1-550 O2	3.5042	50/50	3.5042
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	2.8091	50/50	2.8091
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	1.8727	50/50	1.8727
G-007A	G-007A	0.4987	Confirmed LTF	0.4987
VFT	VFT	1.3223	Confirmed LTF	1.3223
CALDERWOOD	CALDERWOOD	1.1202	Confirmed LTF	1.1202
PRAIRIE	PRAIRIE	3.9597	Confirmed LTF	3.9597
CHEOAH	CHEOAH	1.1466	Confirmed LTF	1.1466
CBM-N	CBM-N	0.2364	Confirmed LTF	0.2364
COTTONWOOD	COTTONWOOD	4.1412	Confirmed LTF	4.1412
HAMLET	HAMLET	2.1939	Confirmed LTF	2.1939
GIBSON	GIBSON	0.7125	Confirmed LTF	0.7125
BLUEG	BLUEG	2.2099	Confirmed LTF	2.2099
TRIMBLE	TRIMBLE	0.7023	Confirmed LTF	0.7023
CATAWBA	CATAWBA	1.1889	Confirmed LTF	1.1889

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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
172895567	962490	AG1-098 TAP	DVP	313898	3BUTCHER CRK	DVP	1	DVP_P2-2: BREMO B1	bus	349.0	128.72	133.4	DC	16.34

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
313853	3PONTONDP	1.9704	50/50	1.9704
314429	3JTRSVLE	1.2434	50/50	1.2434
314677	6BUCKING	0.2944	50/50	0.2944
314713	3PAMPLIN	0.7398	Adder	0.87
924032	AB2-045 E	0.8708	50/50	0.8708
932511	AC2-071 C (Withdrawn : 01/22/2021)	0.2900	50/50	0.2900
932512	AC2-071 E (Withdrawn : 01/22/2021)	0.9261	50/50	0.9261
935222	AD1-157 E	0.4561	Adder	0.54
936265	AD2-033 C	55.9237	50/50	55.9237
936266	AD2-033 E	37.2824	50/50	37.2824
938371	AE1-056 C	2.9494	Adder	3.47
938372	AE1-056 E	1.6115	Adder	1.9
942461	AE2-259 C O1	9.9486	50/50	9.9486
942462	AE2-259 E O1	6.6324	50/50	6.6324
946301	AF1-294 C	12.5610	50/50	12.5610
946302	AF1-294 E	8.3740	50/50	8.3740
958211	AF2-115 C	7.3889	50/50	7.3889
958212	AF2-115 E	4.9259	50/50	4.9259
961791	AG1-021 C	5.9111	50/50	5.9111
961792	AG1-021 E	3.9407	50/50	3.9407
961891	AG1-030 C	50.0823	50/50	50.0823
961892	AG1-030 E	33.3882	50/50	33.3882
962041	AG1-048 C	36.9443	50/50	36.9443
962042	AG1-048 E	24.6295	50/50	24.6295
962491	AG1-098 C O2	63.5880	50/50	63.5880
962492	AG1-098 E O2	42.3920	50/50	42.3920
963171	AG1-166 C	5.9111	50/50	5.9111
963172	AG1-166 E	3.9407	50/50	3.9407
963181	AG1-167 C	5.9111	50/50	5.9111
963182	AG1-167 E	3.9407	50/50	3.9407

Bus #	Bus	Gendeliv MW Impact	Type	Full MW Impact
963191	AG1-168 C	5.9111	50/50	5.9111
963192	AG1-168 E	3.9407	50/50	3.9407
963201	AG1-169 C	5.9111	50/50	5.9111
963202	AG1-169 E	3.9407	50/50	3.9407
963211	AG1-170 C	5.9111	50/50	5.9111
963212	AG1-170 E	3.9407	50/50	3.9407
963271	AG1-176 C O2	9.8042	50/50	9.8042
963272	AG1-176 E O2	6.5361	50/50	6.5361
963641	AG1-215 C	2.7585	50/50	2.7585
963642	AG1-215 E	4.1378	50/50	4.1378
964821	AG1-345 C	2.3749	50/50	2.3749
964822	AG1-345 E	1.5833	50/50	1.5833
964931	AG1-357 C O2	97.2612	50/50	97.2612
964932	AG1-357 E O2	64.8408	50/50	64.8408
965281	AG1-393 C	5.9111	50/50	5.9111
965282	AG1-393 E	3.9407	50/50	3.9407
965641	AG1-432 C O2	19.8972	50/50	19.8972
965642	AG1-432 E O2	13.2648	50/50	13.2648
965831	AG1-451	3.3162	50/50	3.3162
966861	AG1-557 C O2 (Withdrawn : 12/14/2020)	1.6586	50/50	1.6586
966862	AG1-557 E O2 (Withdrawn : 12/14/2020)	1.1058	50/50	1.1058
G-007A	G-007A	0.0815	Confirmed LTF	0.0815
VFT	VFT	0.2129	Confirmed LTF	0.2129
CALDERWOOD	CALDERWOOD	0.0497	Confirmed LTF	0.0497
PRAIRIE	PRAIRIE	0.1808	Confirmed LTF	0.1808
CHEOAH	CHEOAH	0.0506	Confirmed LTF	0.0506
CBM-N	CBM-N	0.0396	Confirmed LTF	0.0396
COTTONWOOD	COTTONWOOD	0.1848	Confirmed LTF	0.1848
HAMLET	HAMLET	0.0889	Confirmed LTF	0.0889
GIBSON	GIBSON	0.0333	Confirmed LTF	0.0333
BLUEG	BLUEG	0.1042	Confirmed LTF	0.1042
TRIMBLE	TRIMBLE	0.0328	Confirmed LTF	0.0328
CATAWBA	CATAWBA	0.0490	Confirmed LTF	0.0490

13.6 Contingency Descriptions - Secondary POI

Contingency Name	Contingency Definition
DVP_P7-1: LN 181-2027	CONTINGENCY 'DVP_P7-1: LN 181-2027' /* .
	OPEN BRANCH FROM BUS 314321 TO BUS 314447 CKT 1 /*
	3LITLECREEK 115.00 - 3BURTN67 115.00
	OPEN BRANCH FROM BUS 314321 TO BUS 314488 CKT 1 /*
	3LITLECREEK 115.00 - 3OAKWOOD 115.00
	OPEN BUS 314321 /* ISLAND: 3LITLECREEK
	115.00
	OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /*
	6CARTERV 230.00 - 6BREMO 230.00
	OPEN BRANCH FROM BUS 313868 TO BUS 933500 CKT 1 /*
	6CARTERV 230.00 - AC2-165 TAP 230.00
	OPEN BRANCH FROM BUS 314310 TO BUS 314322 CKT 1 /*
	6JUDES F 230.00 - 6MDLTHAN 230.00
	OPEN BRANCH FROM BUS 314310 TO BUS 314333 CKT 1 /*
	6JUDES F 230.00 - 6POWHATN 230.00
	OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 /*
	6POWHATN 230.00 - AC2-165 TAP 230.00
	OPEN BUS 313868 /* ISLAND: 6CARTERV
	230.00
	OPEN BUS 314310 /* ISLAND: 6JUDES F
	230.00
	OPEN BUS 314333 /* ISLAND: 6POWHATN
	230.00
	OPEN BUS 923862 /* ISLAND: AB2-026 E
	230.00
	OPEN BUS 938561 /* ISLAND: AE1-075 C
	230.00
	OPEN BUS 938562 /* ISLAND: AE1-075 E
	230.00
	OPEN BUS 933500 /* ISLAND: AC2-165 TAP
	230.00
	OPEN BUS 933501 /* ISLAND: AC2-165 C
	230.00
	OPEN BUS 933502 /* ISLAND: AC2-165 E
	230.00
	END

Contingency Name	Contingency Definition
DVP_P1-2: LN 556-B-C	CONTINGENCY 'DVP_P1-2: LN 556-B-C' OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P4-2: 219322	CONTINGENCY 'DVP_P4-2: 219322' /* BREMO 230 KV OPEN BRANCH FROM BUS 313707 TO BUS 313867 CKT 1 /* 6FORK UNION 230.00 - 6BREMODIST 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BUS 313867 /* ISLAND: 6BREMODIST 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 556-B-A	CONTINGENCY 'DVP_P1-2: LN 556-B-A' / OPEN BRANCH FROM BUS 945810 TO BUS 964240 CKT 1 /* AF1-246 TAP 500.00 - AG1-285 TAP 500.00 END
DVP_P4-5: L912	CONTINGENCY 'DVP_P4-5: L912' / 1372 OPEN BRANCH FROM BUS 314906 TO BUS 314686 CKT 1 / 314906 8CLOVER 500 314686 6CLOVER 230 1 OPEN BRANCH FROM BUS 314906 TO BUS 314686 CKT 3 / 314906 8CLOVER 500 314686 6CLOVER 230 3 OPEN BRANCH FROM BUS 313817 TO BUS 314686 CKT 1 / 313817 6CLOVER_1 230 314686 6CLOVER 230 1 END
DVP_P4-2: 2028T2054	CONTINGENCY 'DVP_P4-2: 2028T2054' / 952 OPEN BRANCH FROM BUS 314765 TO BUS 961060 CKT 1 / 314765 6MTEAGLE 230 961060 AF2-397 TAP 230 1 OPEN BRANCH FROM BUS 314749 TO BUS 314765 CKT 1 / 314749 6CHARLVL 230 314765 6MTEAGLE 230 1 OPEN BRANCH FROM BUS 314765 TO BUS 926451 CKT 1 / 314765 6MTEAGLE 230 926451 AC1-116 C 230 1 OPEN BRANCH FROM BUS 926451 TO BUS 926452 CKT 1 / 926451 AC1-116 C 230 926452 AC1-116 E 230 1 OPEN BRANCH FROM BUS 314749 TO BUS 314772 CKT 1 / 314749 6CHARLVL 230 314772 6PROFFIT 230 1 OPEN BRANCH FROM BUS 314759 TO BUS 314772 CKT 1 / 314759 6HOLLYMD 230 314772 6PROFFIT 230 1 END
DVP_P4-2: 556T591	CONTINGENCY 'DVP_P4-2: 556T591' /* RAWLINGS 500 KV OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 OPEN BRANCH FROM BUS 314935 TO BUS 314936 CKT 1 /* 8HERITAGE 500.00 - 8RAWLINGS 500.00 END

Contingency Name	Contingency Definition
DVP_P4-2: 511T556	CONTINGENCY 'DVP_P4-2: 511T556' /* RAWLINGS 500 KV OPEN BRANCH FROM BUS 942930 TO BUS 314936 CKT 1 /* AE2-313 TAP 500.00 - 8RAWLINGS 500.00 OPEN BRANCH FROM BUS 966360 TO BUS 314936 CKT 1 /* AG1-505 TAP 500.00 - 8RAWLINGS 500.00 END
DVP_P4-2: 562T563	CONTINGENCY 'DVP_P4-2: 562T563' /* CARSON 500 KV OPEN BRANCH FROM BUS 314902 TO BUS 940640 CKT 1 /* 8CARSON 500.00 - AE2-051 TAP 500.00 OPEN BRANCH FROM BUS 314902 TO BUS 314914 CKT 1 /* 8CARSON 500.00 - 8MDLTHAN 500.00 END

Contingency Name	Contingency Definition
DVP_P2-2: BREMO B1	CONTINGENCY 'DVP_P2-2: BREMO B1' /* BREMO 230 KV OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 1 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315191 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G118.000 OPEN BUS 315191 /* ISLAND: 1BEARGRDN G118.000 OPEN BRANCH FROM BUS 314326 TO BUS 314747 CKT 2 /* 6BEARGRDN 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314326 TO BUS 315192 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN G218.000 OPEN BRANCH FROM BUS 314326 TO BUS 315193 CKT 1 /* 6BEARGRDN 230.00 - 1BEARGRDN S122.000 OPEN BUS 315192 /* ISLAND: 1BEARGRDN G218.000 OPEN BUS 315193 /* ISLAND: 1BEARGRDN S122.000 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 /* 6CARTERV 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 /* 6BREMODIST 230.00 - 6BREMO 230.00 OPEN BRANCH FROM BUS 314744 TO BUS 314747 CKT 1 /* 3BREMO 115.00 - 6BREMO 230.00 OPEN BUS 314747 /* 6BREMO 230.00 KV OPEN BUS 314326 /* ISLAND: 6BEARGRDN 230.00 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 298-A	CONTINGENCY 'DVP_P1-2: LN 298-A' OPEN BRANCH FROM BUS 314677 TO BUS 966860 CKT 1 /* 6BUCKING 230.00 - AG1-557 TAP 230.00 OPEN BRANCH FROM BUS 314677 TO BUS 314747 CKT 1 /* 6BUCKING 230.00 - 6BREMO 230.00 OPEN BUS 314677 /* ISLAND: 6BUCKING 230.00 OPEN BUS 924032 /* ISLAND: AB2-045 E 230.00 OPEN BUS 932511 /* ISLAND: AC2-071 C 230.00 OPEN BUS 932512 /* ISLAND: AC2-071 E 230.00 END
DVP_P1-2: LN 511-A	CONTINGENCY 'DVP_P1-2: LN 511-A' OPEN BRANCH FROM BUS 314902 TO BUS 940470 CKT 1 /* 8CARSON 500.00 - AE2-031 TAP 500.00 END
DVP_P1-2: LN 2193	CONTINGENCY 'DVP_P1-2: LN 2193' / 583 OPEN BRANCH FROM BUS 313707 TO BUS 313867 CKT 1 / 313707 6FORK UNION 230 313867 6BREMOMDIST 230 1 OPEN BRANCH FROM BUS 313867 TO BUS 314747 CKT 1 / 313867 6BREMOMDIST 230 314747 6BREMO 230 1 END
Base Case	

Contingency Name	Contingency Definition
DVP_P1-2: LN 2028-B-1	CONTINGENCY 'DVP_P1-2: LN 2028-B-1' / 729 OPEN BRANCH FROM BUS 314765 TO BUS 961060 CKT 1 / 314765 6MTEAGLE 230 961060 AF2-397 TAP 230 1 OPEN BRANCH FROM BUS 314749 TO BUS 314765 CKT 1 / 314749 6CHARLVL 230 314765 6MTEAGLE 230 1 OPEN BRANCH FROM BUS 314765 TO BUS 926451 CKT 1 / 314765 6MTEAGLE 230 926451 AC1-116 C 230 1 OPEN BRANCH FROM BUS 926451 TO BUS 926452 CKT 1 / 926451 AC1-116 C 230 926452 AC1-116 E 230 1 END
DVP_P4-2: 202712	CONTINGENCY 'DVP_P4-2: 202712' / 723 OPEN BRANCH FROM BUS 313868 TO BUS 314747 CKT 1 / 313868 6CARTERV 230 314747 6BREMO 230 1 OPEN BRANCH FROM BUS 313868 TO BUS 933500 CKT 1 / 313868 6CARTERV 230 933500 AC2-165 TAP 230 1 OPEN BRANCH FROM BUS 314310 TO BUS 314322 CKT 1 / 314310 6JUDES F 230 314322 6MDLTHAN 230 1 OPEN BRANCH FROM BUS 314310 TO BUS 314333 CKT 1 / 314310 6JUDES F 230 314333 6POWHATN 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 1 / 314333 6POWHATN 230 933500 AC2-165 TAP 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 923862 CKT 1 / 314333 6POWHATN 230 923862 AB2-026 E 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 938561 CKT 1 / 314333 6POWHATN 230 938561 AE1-075 C 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 958501 CKT 1 / 314333 6POWHATN 230 958501 AF2-144 C 230 1 OPEN BRANCH FROM BUS 314333 TO BUS 959531 CKT 1 / 314333 6POWHATN 230 959531 AF2-244 C 230 1 OPEN BRANCH FROM BUS 938561 TO BUS 938562 CKT 1 / 938561 AE1-075 C 230 938562 AE1-075 E 230 1 OPEN BRANCH FROM BUS 933500 TO BUS 933501 CKT 1 / 933500 AC2-165 TAP 230 933501 AC2-165 C 230 1 OPEN BRANCH FROM BUS 933501 TO BUS 933502 CKT 1 / 933501 AC2-165 C 230 933502 AC2-165 E 230 1 END

Contingency Name	Contingency Definition
DVP_P1-2: LN 556-B-B	CONTINGENCY 'DVP_P1-2: LN 556-B-B' OPEN BRANCH FROM BUS 964240 TO BUS 966360 CKT 1 /* AG1-285 TAP 500.00 - AG1-505 TAP 500.00 END
314333 6POWHATN 230 933500 AC2-165 TAP 230 1	CONTINGENCY '314333 6POWHATN 230 933500 AC2-165 TAP 230 1' OPEN BRANCH FROM BUS 314333 TO BUS 933500 CKT 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