

345 kV Solution Phase 1 and Phase 2

General Information

Proposing entity name	Confidential Information
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Confidential Information
Company proposal ID	Confidential Information
PJM Proposal ID	239
Project title	345 kV Solution Phase 1 and Phase 2
Project description	This proposal incorporates construction of multiple transmission lines and substation expansions to provide a robust, expandable transmission solution to address the 2025 Open Window 1 violations. This proposal will also ensure the PJM transmission system can safely and reliably accommodate future load growth. Refer to Executive Abstract attached to Market Efficiency simulation modeling files section.
Email	Confidential Information
Project in-service date	06/2030
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	Confidential Information

Project Components

1. Melissa Substation 345 kV switchyard - Phase 1
2. Melissa Substation 345 kV switchyard expansion - Phase 2
3. Greene - Melissa 345 kV Line [Phase 1]

4. Greene - Clark 138 kV Line [Phase 1]
5. Melissa - Beatty 345 kV Line [Phase 1]
6. Beatty - Deer Creek 138 kV Line [Phase 1]
7. Deer Creek - London 138 kV Line [Phase 1]
8. Greene Substation(DP&L) 345 kV [Phase 1]
9. Beatty Substation(AEP) 345 kV [Phase 1]
10. Greene(DP&L) - Melissa - Madison(AEP) 345 kV Line [Phase 2]
11. Greene(DP&L) - Melissa - Madison(AEP) 345 kV Line - - Rebuild [Phase 2]
12. Greene Substation(DP&L) 345 kV [Phase 2]
13. Madison Substation(AEP) 345 kV [Phase 2]
14. Belmont Substation 765 kV Expansion
15. West Millersport 765/345 kV Substation
16. Belmont - West Millersport 765 kV Line
17. Vassell Substation 765 kV Expansion
18. West Millersport - Vassell 765 kV Line
19. Marysville Substation 765 kV STATCOM
20. Greene - Clark 138 kV Line Rebuild
21. East Springfield - Clark 138 kV Line Rebuild
22. Clark - East Springfield 138 kV [Phase 1]
23. Rebuild the Bath - Urbana 138 kV Line

Substation Upgrade Component

Component title	Melissa Substation 345 kV switchyard - Phase 1
Project description	Confidential Information
Substation name	Melissa
Substation zone	ATSI

Substation upgrade scope	Below Grade: Install (1 Lot) of conduit, grounding and foundations. Install (1 Lot) of cable trench. Install (Approximately 2,400 ft) of driveway. Above Grade: Install (1) Prefabricated Control Enclosures, including battery systems, AC & DC aux panels, security cabinets, and MPLS network equipment. Install (4) 345 kV H-Frame deadend structures. Install (4) 345 kV circuit breakers. Install (10) 345 kV GOAB disconnect switches. Install (4) 345 kV MOAB disconnect switches. Install (12) 345 kV CVT's. Install (12) 345 kV Surge arresters. Install (2) 345 kV SSVT's. Install (1 Lot) of 345 kV rigid bus, strain bus, fittings, connectors & support structures. Install (1 Lot) of security equipment. Relaying & Control: Install (4) Standard breaker panels consisting of (1) SEL-451 for each each panel. Install (4) Standard line panels consisting of (2) SEL-411L for each panel. Install (1) SCADA RTU. Install (2) HMI panels. Install (1) ATS. Install a Qualitrol TWS FL-8-4 Fault Locator System.
Transformer Information	
None	
New equipment description	Below Grade: Install (1 Lot) of conduit, grounding and foundations. Install (1 Lot) of cable trench. Install (Approximately 2,400 ft) of driveway. Above Grade: Install (1) Prefabricated Control Enclosures, including battery systems, AC & DC aux panels, security cabinets, and MPLS network equipment. Install (4) 345 kV H-Frame deadend structures. Install (4) 345 kV circuit breakers. Install (10) 345 kV GOAB disconnect switches. Install (4) 345 kV MOAB disconnect switches. Install (12) 345 kV CVT's. Install (12) 345 kV Surge arresters. Install (2) 345 kV SSVT's. Install (1 Lot) of 345 kV rigid bus, strain bus, fittings, connectors & support structures. Install (1 Lot) of security equipment. Relaying & Control: Install (4) Standard breaker panels consisting of (1) SEL-451 for each each panel. Install (4) Standard line panels consisting of (2) SEL-411L for each panel. Install (1) SCADA RTU. Install (2) HMI panels. Install (1) ATS. Install a Qualitrol TWS FL-8-4 Fault Locator System.
Substation assumptions	Substation fence will require expansion.
Real-estate description	Additional land will need to be purchased for substation expansion. Real Estate agents for the Proposing Entity will contact the landowners to start discussions and negotiations when appropriate.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information

Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$33,752,915.97
Component cost (in-service year)	\$37,767,471.00
Substation Upgrade Component	
Component title	Melissa Substation 345 kV switchyard expansion - Phase 2
Project description	Confidential Information
Substation name	Melissa
Substation zone	ATSI
Substation upgrade scope	Below Grade: Install (1 Lot) of conduit, grounding and foundations. Above Grade: Install (2) 345 kV H-Frame deadend structures. Install (2) 345 kV circuit breakers. Install (2) 345 kV GOAB disconnect switches. Install (2) 345 kV MOAB disconnect switches. Install (6) 345 kV CVT's. Install (6) 345 kV Surge arresters. Install (1 Lot) of 345 kV rigid bus, strain bus, fittings, connectors & support structures. Relaying & Control: Install (2) Standard breaker panels consisting of (1) SEL-451 for each panel. Install (2) Standard line panels consisting of (2) SEL-411L for each panel.
Transformer Information	
None	
New equipment description	Below Grade: Install (1 Lot) of conduit, grounding and foundations. Above Grade: Install (2) 345 kV H-Frame deadend structures. Install (2) 345 kV circuit breakers. Install (2) 345 kV GOAB disconnect switches. Install (2) 345 kV MOAB disconnect switches. Install (6) 345 kV CVT's. Install (6) 345 kV Surge arresters. Install (1 Lot) of 345 kV rigid bus, strain bus, fittings, connectors & support structures. Relaying & Control: Install (2) Standard breaker panels consisting of (1) SEL-451 for each panel. Install (2) Standard line panels consisting of (2) SEL-411L for each panel.
Substation assumptions	Substation fence will require expansion.

Real-estate description	Additional land will need to be purchased for substation expansion. Real Estate agents for the Proposing Entity will contact the landowners to start discussions and negotiations when appropriate.	
Construction responsibility	Confidential Information	
Benefits/Comments	Confidential Information	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential Information	
Permitting / routing / siting	Confidential Information	
ROW / land acquisition	Confidential Information	
Materials & equipment	Confidential Information	
Construction & commissioning	Confidential Information	
Construction management	Confidential Information	
Overheads & miscellaneous costs	Confidential Information	
Contingency	Confidential Information	
Total component cost	\$8,958,610.40	
Component cost (in-service year)	\$10,024,143.00	
Greenfield Transmission Line Component		
Component title	Greene - Melissa 345 kV Line [Phase 1]	
Project description	Confidential Information	
Point A	Greene	
Point B	Melissa	
Point C		
	Normal ratings	Emergency ratings

Summer (MVA)	2241.000000	2578.000000
Winter (MVA)	2241.000000	2713.000000
Conductor size and type	2x 795 ACSS 26/7	
Nominal voltage	AC	
Nominal voltage	345	
Line construction type	Overhead	
General route description	The new Greene - Melissa 345 kV Line will be built by rebuilding existing 138 kV corridors as 345/138 kV towers: Greene - AD1-140 138 kV Line (EOL) AD1-140 - Clark 138 kV Line (EOL, only to structure 5546B) Clark - East Springfield 138 kV Line (Structure 5546A - 5531)	
Terrain description	Flat/farmland/residential, near but not on wetlands	
Right-of-way width by segment	RoW for entire line will be approximately 100 ft	
Electrical transmission infrastructure crossings	N/A	
Civil infrastructure/major waterway facility crossing plan	The line crosses (2) railroad(s). The line crosses Route 68, Highway 72, I-70, and Highway 41 for a total of (4) major road crossings. The line crosses the Little Miami River a total of (2) time(s). The line crosses two large lakes and several existing structures are located very close to the edge of the water.	
Environmental impacts	Road Bonds are required. Environmental Filming Documentation of Existing roads are required Environmental Access and Road Crossing Permit Fees is required. Environmental Development of Permit Binder is required. Environmental Cultural Resource Consultation is required. Environmental Construction walk down is required. Wetland delineations and WDR are required ETR consultations letters are included Internal environmental engineering and external project management costs are included.	
Tower characteristics	(133) DC steel monopole tangent structures, like TR-230360, drilled shaft foundations (10) DC steel monopole angle structures, like TR-230365, drilled shaft foundations (12) DC steel monopole deadend structures, like TR-230370 and TR-230375, drilled shaft foundations (4) SC steel monopole deadend structure, like TR-138325, drilled shaft foundation	
Construction responsibility	Confidential Information	
Benefits/Comments	Confidential Information	

Component Cost Details - In Current Year \$

Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$95,024,500.00
Component cost (in-service year)	\$105,864,347.00

Transmission Line Upgrade Component

Component title	Greene - Clark 138 kV Line [Phase 1]
Project description	Confidential Information
Impacted transmission line	Greene - Clark 138 kV Line
Point A	Greene
Point B	AD1-140
Point C	Clark
Terrain description	Flat/farmland/residential, near but not on wetlands
Existing Line Physical Characteristics	
Operating voltage	138
Conductor size and type	605 ACSR

Hardware plan description	New hardware will be installed.	
Tower line characteristics	The line was constructed in 1967. The line partially consists of wood H-frame structures that have unbraced crossarms. There have been eight crossarm failures in this section of line within the past ten years that pose a significant risk to reliability. Additionally, there have been instances of insulator tracking leading to pole fires. There have been 222 historical maintenance conditions identified consisting primarily of degraded poles, static wire attachment wear, insulator tracking, and crossarm degradation.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	448.000000	516.000000
Winter (MVA)	448.000000	543.000000
Conductor size and type	1x 795 ACSS 26/7	
Shield wire size and type	shielded by (1) SFSJ-J-6641 OPGW wire	
Rebuild line length	19.5 miles	
Rebuild portion description	19.5 miles from Greene Substation to structure 5546B	
Right of way	No RoW change	
Construction responsibility	Confidential Information	
Benefits/Comments	Confidential Information	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential Information	
Permitting / routing / siting	Confidential Information	
ROW / land acquisition	Confidential Information	

Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$.00
Component cost (in-service year)	\$.00

Greenfield Transmission Line Component

Component title	Melissa - Beatty 345 kV Line [Phase 1]
Project description	Confidential Information
Point A	Melissa
Point B	Beatty
Point C	

	Normal ratings	Emergency ratings
Summer (MVA)	2241.000000	2578.000000
Winter (MVA)	2241.000000	2713.000000
Conductor size and type	2x 795 ACSS 26/7	
Nominal voltage	AC	
Nominal voltage	345	
Line construction type	Overhead	

General route description	The new Melissa - Beatty 345 kV line will be built by rebuilding existing 138 kV corridors to accommodate 345/138 kV towers: East Springfield - London 138 kV line (EOL), London - Deer Creek 138 kV line (EOL), Deer Creek - Beatty 138 kV line (EOL)
Terrain description	Flat/farmland/residential, near but not on wetlands
Right-of-way width by segment	150 ft
Electrical transmission infrastructure crossings	The line crosses the East Springfield-London 69kV line, AEP Flatlick-Marysville 765kV line, and the AEP Beatty-Hayden 345kV line. Outage coordination will be required.
Civil infrastructure/major waterway facility crossing plan	The line crosses (2) railroad(s). Crossing permits, traffic control, and flagging may be required. The line crosses I-70, Highway 54, Highway 42, Highway 38, Route 56, and Route 665 for a total of (6) major road crossings. Crossing permits, traffic control, and flagging may be required. The line crosses the Big Darby Creek a total of (1) time(s). Other construction and design considerations may be required. The line also crosses several small creeks. The line crosses through Battelle-Darby Creek Metro Park. Additional coordination may be required.
Environmental impacts	Road Bonds are required. Environmental Filming Documentation of Existing roads are required. Environmental Access and Road Crossing Permit Fees is required. Environmental Development of Permit Binder is required. Environmental Cultural Resource Consultation is required. Environmental Construction walk down is required. Wetland delineations and WDR are required. ETR consultations letters are included. Internal environmental engineering and external project management costs are included.
Tower characteristics	Steel poles on concrete foundation
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information

Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$134,596,000.00
Component cost (in-service year)	\$149,949,935.10
Transmission Line Upgrade Component	
Component title	Beatty - Deer Creek 138 kV Line [Phase 1]
Project description	Confidential Information
Impacted transmission line	Beatty - Deer Creek 138 kV
Point A	Beatty
Point B	Deer Creek
Point C	
Terrain description	Flat/farmland/residential, near but not on wetlands
Existing Line Physical Characteristics	
Operating voltage	138
Conductor size and type	447 ACSR 26/7
Hardware plan description	New hardware will be used
Tower line characteristics	The line was constructed in 1959. The line is approaching the end of its useful life due to conductor strand failures, specifically under the clamps, as well as unbraced crossarm degradation. There have been 63 priority conditions including wood pole degradation, insulator flash, and static wire degradation in addition to the conductor and crossarm aging.
Proposed Line Characteristics	
	Designed
	Operating

Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	448.000000	516.000000
Winter (MVA)	448.000000	543.000000
Conductor size and type	1x 795 ACSS 26/7	
Shield wire size and type	SFSJ-J-6641 OPGW	
Rebuild line length	10.9 miles	
Rebuild portion description	The entire 10.9 miles of line will be rebuilt	
Right of way	Existing RoW is sufficient and does not need expanded	
Construction responsibility	Confidential Information	
Benefits/Comments	Confidential Information	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential Information	
Permitting / routing / siting	Confidential Information	
ROW / land acquisition	Confidential Information	
Materials & equipment	Confidential Information	
Construction & commissioning	Confidential Information	
Construction management	Confidential Information	
Overheads & miscellaneous costs	Confidential Information	
Contingency	Confidential Information	
Total component cost	\$.00	
Component cost (in-service year)	\$.00	

Transmission Line Upgrade Component

Component title	Deer Creek - London 138 kV Line [Phase 1]	
Project description	Confidential Information	
Impacted transmission line	Deer Creek - London 138 kV	
Point A	Deer Creek	
Point B	London	
Point C		
Terrain description	Flat/farmland/residential, near but not on wetlands	
Existing Line Physical Characteristics		
Operating voltage	138	
Conductor size and type	477 ACSR 26/7	
Hardware plan description	New hardware will be used	
Tower line characteristics	The Deer Creek – London 138 kV Line is approaching the end of its useful life due to conductor strand failures (specifically under the clamps) as well as unbraced crossarm degradation. There have been 76 priority conditions including wood pole degradation and static wire degradation in addition to the aforementioned conductor and crossarm aging. The line construction dates back to 1959/1961.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	448.000000	516.000000
Winter (MVA)	448.000000	543.000000

Conductor size and type	1x 795 ACSS 26/7
Shield wire size and type	SFSJ-J-6641 OPGW
Rebuild line length	8.6 miles
Rebuild portion description	The entire line will be rebuilt
Right of way	Existing ROW is sufficient and does not need expanded
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$.00
Component cost (in-service year)	\$.00
Substation Upgrade Component	
Component title	Greene Substation(DP&L) 345 kV [Phase 1]
Project description	Confidential Information
Substation name	Greene

Substation zone	DP&L
Substation upgrade scope	Below Grade: Install (1 Lot) of conduit, grounding & foundations for new equipment. Above Grade: Install (1) 345 kV Deadend structure. Install (1) 345 kV Circuit breaker. Install (2) 345 kV GOAB disconnect switches. Install (1) 345 kV MOAB disconnect switch. Install (3) 345 kV CVT's. Install (3) 345 kV Surge arresters. Relaying & Control: Install (1) Line relay panel. Install (1) breaker failure panel.
Transformer Information	
None	
New equipment description	Below Grade: Install (1 Lot) of conduit, grounding & foundations for new equipment. Above Grade: Install (1) 345 kV Deadend structure. Install (1) 345 kV Circuit breaker. Install (2) 345 kV GOAB disconnect switches. Install (1) 345 kV MOAB disconnect switch. Install (3) 345 kV CVT's. Install (3) 345 kV Surge arresters. Relaying & Control: Install (1) Line relay panel. Install (1) breaker failure panel.
Substation assumptions	Substation has adequate space for a new 345 kV breaker. The existing six-breaker ring bus can be expanded to a seven-breaker ring bus.
Real-estate description	Substation assumed to have adequate space for a new 345 kV breaker
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information

Total component cost	\$.00
Component cost (in-service year)	\$.00
Substation Upgrade Component	
Component title	Beatty Substation(AEP) 345 kV [Phase 1]
Project description	Confidential Information
Substation name	Beatty
Substation zone	AEP
Substation upgrade scope	Below Grade: Install (1 Lot) of conduit, grounding & foundations for new equipment. Above Grade: Install (1) 345 kV Deadend structure. Install (1) 345 kV Circuit breaker. Install (2) 345 kV GOAB disconnect switches. Install (1) 345 kV MOAB disconnect switch. Install (3) 345 kV CVT's. Install (3) 345 kV Surge arresters. Relaying & Control: Install (1) Line relay panel. Install (1) breaker failure panel.
Transformer Information	
None	
New equipment description	Below Grade: Install (1 Lot) of conduit, grounding & foundations for new equipment. Above Grade: Install (1) 345 kV Deadend structure. Install (1) 345 kV Circuit breaker. Install (2) 345 kV GOAB disconnect switches. Install (1) 345 kV MOAB disconnect switch. Install (3) 345 kV CVT's. Install (3) 345 kV Surge arresters. Relaying & Control: Install (1) Line relay panel. Install (1) breaker failure panel.
Substation assumptions	Substation has adequate space for a new 345 kV breaker. The existing six-breaker ring bus can be expanded to a seven-breaker ring bus.
Real-estate description	Substation assumed to have adequate space for a new 345 kV breaker
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information

Permitting / routing / siting	Confidential Information	
ROW / land acquisition	Confidential Information	
Materials & equipment	Confidential Information	
Construction & commissioning	Confidential Information	
Construction management	Confidential Information	
Overheads & miscellaneous costs	Confidential Information	
Contingency	Confidential Information	
Total component cost	\$.00	
Component cost (in-service year)	\$.00	
Greenfield Transmission Line Component		
Component title	Greene(DP&L) - Melissa - Madison(AEP) 345 kV Line [Phase 2]	
Project description	Confidential Information	
Point A	Cut-in Location	
Point B	Melissa	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	2241.000000	2578.000000
Winter (MVA)	2241.000000	2713.000000
Conductor size and type	2x 795 ACSS 26/7	
Nominal voltage	AC	
Nominal voltage	345	

Line construction type	Overhead
General route description	It is assumed that (13.5) miles of new RoW will be required
Terrain description	Flat/farmland/residential
Right-of-way width by segment	The new loop is assumed to require approximately 150 ft of new ROW width for the entire (13.5) miles
Electrical transmission infrastructure crossings	The loop lines cross crosses existing transmission line(s) East Springfield-London No1 138 kV, London-North Titus 138 kV, East Springfield-London 69 kV, & East Springfield-North Titus 138 kV, and the future Beatty (AEP)-Melissa 345 kV lines for a total of (5) crossings. Outage coordination will be required.
Civil infrastructure/major waterway facility crossing plan	The loop lines cross (2) railroad(s). Crossing permits, traffic control, and flagging may be required. The loop lines cross I-70, Highway 41, and Route 42 for a total of (3) major road crossings. Crossing permits, traffic control, and flagging may be required. The loop lines crosses the Little Miami River (1) time. Additional construction and design considerations may be required. The line also crosses several small creeks.
Environmental impacts	Road Bonds are required. Environmental Filming (Documentation of Existing roads are required. Environmental Access and Road Crossing Permit Fees is required. Environmental Development of Permit Binder is required. Environmental Cultural Resource Consultation is required. Environmental Construction walk down is required. Multiple assumed Wetland delineations and WDR are required. ETR consultation letters are included. Aerial crossing permits are included. Internal environmental engineering and external project management costs are included. Stormwater permits and local approvals are expected.
Tower characteristics	345 kV SC steel monopole tangent structures on drilled shaft foundation, 345 kV DC steel monopole angle structures on drilled shaft foundations, 345 kV DC steel monopole deadend structures on drilled shaft foundations
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information

Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$58,052,000.00
Component cost (in-service year)	\$64,674,237.00
Transmission Line Upgrade Component	
Component title	Greene(DP&L) - Melissa - Madison(AEP) 345 kV Line - - Rebuild [Phase 2]
Project description	Confidential Information
Impacted transmission line	Greene - Melissa 345 kV
Point A	Greene
Point B	Cut-in Location
Point C	
Terrain description	Flat/farmland/residential
Existing Line Physical Characteristics	
Operating voltage	345
Conductor size and type	2x Unknown Conductor
Hardware plan description	New hardware will be installed
Tower line characteristics	At the loop point, the existing line is constructed on single circuit lattice towers in a horizontal configuration. Closer to AES-Ohio's Greene Substation, the existing line is constructed on double circuit lattice towers in a vertical configuration, where the second circuit position is open.

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	345.000000	345.000000
	Normal ratings	Emergency ratings
Summer (MVA)	2241.000000	2578.000000
Winter (MVA)	2241.000000	2713.000000
Conductor size and type	2x 795 ACSS 26/7	
Shield wire size and type	SFSJ-J-6641 OPGW	
Rebuild line length	16.7 miles	
Rebuild portion description	Since the existing wire is unknown and the existing tower information is unknown, at this time it is not clear if a reconductor is possible or if a full rebuild of this section is required. For now, if the towers are in good condition, there is adequate vertical clearance, and an ACSS reconductor project is feasible on this line. Some tower reinforcements are expected to be required.	
Right of way	150 feet	
Construction responsibility	Confidential Information	
Benefits/Comments	Confidential Information	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential Information	
Permitting / routing / siting	Confidential Information	
ROW / land acquisition	Confidential Information	
Materials & equipment	Confidential Information	
Construction & commissioning	Confidential Information	
Construction management	Confidential Information	

Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$58,385,500.00
Component cost (in-service year)	\$65,045,781.00
Substation Upgrade Component	
Component title	Greene Substation(DP&L) 345 kV [Phase 2]
Project description	Confidential Information
Substation name	Greene
Substation zone	DP&L
Substation upgrade scope	Below Grade: Replace (1 Lot) of conduit, grounding & foundations for new equipment. Above Grade: Replace (1) 345 kV Circuit breaker. Replace (2) 345 kV GOAB disconnect switches. Replace (1) 345 kV MOAB disconnect switch. Replace (3) 345 kV CVT's. Replace (3) 345 kV Surge arresters. Relaying & Control: Replace (1) Line relay panel. Replace (1) breaker failure panel.
Transformer Information	
None	
New equipment description	Below Grade: Replace (1 Lot) of conduit, grounding & foundations for new equipment. Above Grade: Replace (1) 345 kV Circuit breaker. Replace (2) 345 kV GOAB disconnect switches. Replace (1) 345 kV MOAB disconnect switch. Replace (3) 345 kV CVT's. Replace (3) 345 kV Surge arresters. Relaying & Control: Replace (1) Line relay panel. Replace (1) breaker failure panel.
Substation assumptions	N/A
Real-estate description	N/A
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information

Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$.00
Component cost (in-service year)	\$.00
Substation Upgrade Component	
Component title	Madison Substation(AEP) 345 kV [Phase 2]
Project description	Confidential Information
Substation name	Madison
Substation zone	AEP
Substation upgrade scope	Below Grade: None. Above Grade: None. Relaying & Control: Replace (1) Line panel, with (1) Standard line panel. Update line nameplates, and update drawings.
Transformer Information	
None	
New equipment description	Relaying & Control: Replace (1) Line panel, with (1) Standard line panel.
Substation assumptions	N/A
Real-estate description	N/A
Construction responsibility	Confidential Information

Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$.00
Component cost (in-service year)	\$.00
Substation Upgrade Component	
Component title	Belmont Substation 765 kV Expansion
Project description	Confidential Information
Substation name	Belmont
Substation zone	APS
Substation upgrade scope	Convert the Belmont 765 kV yard to a 4-breaker ring bus to accommodate the proposed Belmont - West Millersport 765 kV Line (Component 16). The existing substation fence will need to be expanded.
Transformer Information	
None	

New equipment description	- Install (4) 765 kV circuit breakers. - Construct (4) 765 kV terminals. - Install (12) 3-phase 765 kV disconnect switches. - Install (4) 3-phase CCVT's. - Install (4) 3-phase arrester sets - Construct (1) package control enclosure (control house) - Install relay panels, SSVT, security cameras - Extend the Belmont Substation fence, including the associated grading and land work. - Install (1) 765 kV line reactor.
Substation assumptions	- All new 765 kV breakers can be constructed on standard foundations.
Real-estate description	APS owns the property surrounding Belmont Substation, so there will be no acquisition of property required for this substation expansion.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$46,805,576.82
Component cost (in-service year)	\$52,372,608.00
Substation Upgrade Component	
Component title	West Millersport 765/345 kV Substation
Project description	Confidential Information

Substation name	West Millersport		
Substation zone	AEP		
Substation upgrade scope	- Construct a 765 kV, 3-breaker ring bus by installing (3) 765 kV circuit breakers, associated relaying, (3) 765 kV terminal positions, (9) sets of 3-phase 765 kV disconnect switches, (3) 3-phase CCVT's, (3) 3-phase arrestor sets, (1) package control enclosure, and security system. - Expand the existing 345 kV yard at West Millersport Substation by expanding the 345 kV buses and installing (2) 345 kV breakers and associated relaying equipment. - Install (1) 765/500 kV transformer and interconnect into the 765 kV and 345 kV yards. - Install (2) 765 kV line reactors.		
Transformer Information			
	Name	Capacity (MVA)	
Transformer	West Millersport 765/345 kV No.1	2742 MVA SN, 3097 MVA SE	
	High Side	Low Side	Tertiary
Voltage (kV)	765	345	N/A
New equipment description	- Construct a 765 kV, 3-breaker ring bus by installing (3) 765 kV circuit breakers, associated relaying, (3) 765 kV terminal positions, (9) sets of 3-phase 765 kV disconnect switches, (3) 3-phase CCVT's, (3) 3-phase arrestor sets, (1) package control enclosure, and security system. - Expand the existing 345 kV yard at West Millersport Substation by expanding the 345 kV buses and installing (2) 345 kV breakers and associated relaying equipment. - Install (1) 765/500 kV transformer and interconnect into the 765 kV and 345 kV yards. - Install (2) 765 kV line reactors.		
Substation assumptions	- The existing package control enclosure at West Millersport Substation can accommodate the addition relaying necessary for the 345 kV yard expansion. - All new 765 kV and 345 kV breakers can be constructed on standard foundations.		
Real-estate description	Land acquisition will be required for this component. The proposed 765 kV yard will be constructed on undeveloped land.		
Construction responsibility	Confidential Information		
Benefits/Comments	Confidential Information		
Component Cost Details - In Current Year \$			
Engineering & design	Confidential Information		

Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$74,612,919.50
Component cost (in-service year)	\$83,487,342.00

Greenfield Transmission Line Component

Component title	Belmont - West Millersport 765 kV Line
Project description	Confidential Information
Point A	Belmont
Point B	West Millersport

Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	6743.000000	7253.000000
Winter (MVA)	7512.000000	7918.000000
Conductor size and type	795 KCMIL ACSR 45/7 'Tern' STR x6 conductor bundle	
Nominal voltage	AC	
Nominal voltage	765 kV	

Line construction type	Overhead
General route description	The proposed Belmont - West Millersport 765 kV Line route is approximately 81 miles long and will parallel existing 138 kV, 345 kV, and 765 kV rights-of-way for the majority of the route. Deviations may occur to avoid developed areas or other constraints. Where feasible, consideration will be given to leveraging existing transmission rights-of-way and transmission infrastructure. Approximately 81 miles of new right-of-way will be required. Filings in West Virginia and Ohio will be required.
Terrain description	The terrain of the proposed route is approximately 25% residential, 30% farmland, and 45% forested and mountain terrain.
Right-of-way width by segment	The right-of-way width is assumed to be 200 feet. This width is based on the typical right-of-way needed for a 765 kV line and does not account for structure configuration or span lengths. Width may vary depending upon final design and tree clearing requirements. Any necessary ROW acquisition will be conducted by real estate agents that will approach private landowners for voluntary negotiations of the permanent and/or temporary rights needed for the project. Although eminent domain will be a last resort, it may be necessary for project completion. For public lands, the controlling agency will be contacted to obtain the necessary licenses, special use agreements or other agreements pursuant to their respective requirements. In sensitive areas, the structure type/configuration and span lengths will be evaluated to minimize the amount of ROW needed to accommodate the new line in these areas.
Electrical transmission infrastructure crossings	It is anticipated that this new 765 kV line will require multiple electrical transmission infrastructure crossings. Those crossings will be finalized at a later date.
Civil infrastructure/major waterway facility crossing plan	The proposed route will encompass (26) road crossings, (8) railroad crossings, and (12) wetland crossings. Permitting, flagging, and traffic control may be required.
Environmental impacts	An environmental review will be required to identify any additional construction constraints or additional permitting requirements. No restrictions on construction from an Environmental Species perspective were identified. Road Bonds are required. Environmental Filming Documentation of Existing roads) are required. Environmental Access and Road Crossing Permit Fees is required. Environmental Development of Permit Binder is required. Environmental Cultural Resource Consultation is required. An environmental construction walkdown is required. The line crosses streams/rivers/bodies of water multiple times. Crossing permits and other construction and design considerations may be required.

Tower characteristics	This 765 kV transmission line utilizes a combination of self-supporting and guyed-V lattice tower construction that is horizontally configured. The predominant structure type will be guyed-V suspension towers supported by a center grillage and four bridge-strand anchors. Self-supporting suspension towers, running-corner suspension towers, and tension structures will utilize concrete drilled piers to support foundation loads. Self-supporting suspension structures will be used to the extent possible as an effort to keep electrical infrastructure compatible with agricultural use.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$489,037,500.00
Component cost (in-service year)	\$544,824,076.00
Substation Upgrade Component	
Component title	Vassell Substation 765 kV Expansion
Project description	Confidential Information
Substation name	Vassell
Substation zone	AEP

Substation upgrade scope	Expand the Vassell 765 kV yard to accommodate the interconnection of the proposed West Millersport - Vassell 765 kV Line (Component 18) by extending the existing 765 kV bus and installing (2) 765 kV circuit breakers, associated relaying equipment, (6) 3-phase disconnect switches, (3) 3-phase CCVT's, (2) 3-phase arrestor sets, and (1) 765 kV line reactor.
Transformer Information	
None	
New equipment description	Expand the Vassell 765 kV yard to accommodate the interconnection of the proposed West Millersport - Vassell 765 kV Line (Component 18) by extending the existing 765 kV bus and installing (2) 765 kV circuit breakers, associated relaying equipment, (6) 3-phase disconnect switches, (3) 3-phase CCVT's, (2) 3-phase arrestor sets, and (1) 765 kV line reactor.
Substation assumptions	- The existing package control enclosure at Vassell Substation can accommodate the addition relaying necessary for the 765 kV yard expansion. - All new 765 kV breakers can be constructed on standard foundations.
Real-estate description	Land acquisition will be required for this component. The proposed 765 kV yard will be constructed on undeveloped land.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$23,230,286.28

Component cost (in-service year)	\$25,993,285.00	
Greenfield Transmission Line Component		
Component title	West Millersport - Vassell 765 kV Line	
Project description	Confidential Information	
Point A	West Millersport	
Point B	Vassell	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	6743.000000	7253.000000
Winter (MVA)	7512.000000	7918.000000
Conductor size and type	795 KCMIL ACSR 45/7 ‘Tern’ STR x6 conductor bundle	
Nominal voltage	AC	
Nominal voltage	765 kV	
Line construction type	Overhead	
General route description	The proposed West Millersport - Vassell 765 kV Line route is approximately 38 miles long and will parallel existing 138 kV, 345 kV, and 765 kV rights-of-way for the majority of the route. Deviations may occur to avoid developed areas or other constraints. Where feasible, consideration will be given to leveraging existing transmission rights-of-way and transmission infrastructure. Approximately 38 miles of new right-of-way will be required. Filings in Ohio will be required.	
Terrain description	The terrain of the proposed route is approximately 25% residential, 30% farmland, and 45% forested and mountain terrain. The terrain starts out flat at Vassell Substation and moves into more of a mountainous terrain as you get closer to West Millersport Substation.	

Right-of-way width by segment	The right-of-way width is assumed to be 200 feet. This width is based on the typical right-of-way needed for a 765 kV line and does not account for structure configuration or span lengths. Width may vary depending upon final design and tree clearing requirements. Any necessary ROW acquisition will be conducted by real estate agents that will approach private landowners for voluntary negotiations of the permanent and/or temporary rights needed for the project. Although eminent domain will be a last resort, it may be necessary for project completion. For public lands, the controlling agency will be contacted to obtain the necessary licenses, special use agreements or other agreements pursuant to their respective requirements. In sensitive areas, the structure type/configuration and span lengths will be evaluated to minimize the amount of ROW needed to accommodate the new line in these areas.
Electrical transmission infrastructure crossings	It is anticipated that this new 765 kV line will require multiple electrical transmission infrastructure crossings. Those crossings will be finalized at a later date.
Civil infrastructure/major waterway facility crossing plan	The proposed route will encompass (22) road crossings, (1) railroad crossing, and (7) wetland crossings. Permitting, flagging, and traffic control may be required.
Environmental impacts	An environmental review will be required to identify any additional construction constraints or additional permitting requirements. No restrictions on construction from an Environmental Species perspective were identified. Road Bonds are required. Environmental Filming Documentation of Existing roads) are required. Environmental Access and Road Crossing Permit Fees is required. Environmental Development of Permit Binder is required. Environmental Cultural Resource Consultation is required. An environmental construction walkdown is required. The line crosses streams/rivers/bodies of water multiple times. Crossing permits and other construction and design considerations may be required.
Tower characteristics	This 765 kV transmission line utilizes a combination of self-supporting and guyed-V lattice tower construction that is horizontally configured. The predominant structure type will be guyed-V suspension towers supported by a center grillage and four bridge-strand anchors. Self-supporting suspension towers, running-corner suspension towers, and tension structures will utilize concrete drilled piers to support foundation loads. Self-supporting suspension structures will be used to the extent possible as an effort to keep electrical infrastructure compatible with agricultural use.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information

Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$229,425,000.00
Component cost (in-service year)	\$255,596,480.00
Substation Upgrade Component	
Component title	Marysville Substation 765 kV STATCOM
Project description	Confidential Information
Substation name	Marysville
Substation zone	AEP
Substation upgrade scope	Install a 765 kV, +/- 500 MVAR STATCOM for voltage support at the existing Marysville Substation.
Transformer Information	
None	
New equipment description	Install (1) 765 kV, +/- 500 MVAR STATCOM and associated relaying and circuit breakers.
Substation assumptions	- The existing package control enclosure at Marysville Substation can accommodate the addition relaying necessary for the STATCOM installation.
Real-estate description	Land acquisition will be required for this component. The proposed STATCOM yard will be constructed on undeveloped land.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information

Component Cost Details - In Current Year \$

Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$104,651,289.68
Component cost (in-service year)	\$117,098,461.00

Transmission Line Upgrade Component

Component title	Greene - Clark 138 kV Line Rebuild
Project description	Confidential Information
Impacted transmission line	Greene - Clark 138 kV
Point A	Structure No.5546
Point B	Clark
Point C	
Terrain description	Flat/farmland/residential, near wetlands
Existing Line Physical Characteristics	
Operating voltage	138
Conductor size and type	605 ACSR 24/7

Hardware plan description	New hardware will be installed	
Tower line characteristics	In this section, the existing line is primarily constructed on double circuit wood monopole structures in a vertical configuration. The existing line shares structures with the Clark - East Springfield 138 kV line. The existing structure types include wood monopoles, steel monopoles, wood two-pole structures, wood three-pole structures, wood H-frame structures, wood laminate structures, and steel lattice towers.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	448.000000	516.000000
Winter (MVA)	448.000000	543.000000
Conductor size and type	1x 795 ACSS 26/7	
Shield wire size and type	SFSJ-J-6641 OPGW	
Rebuild line length	7.9 miles	
Rebuild portion description	7.9 miles from Structure No.5546 to Clark Substation	
Right of way	No RoW change	
Construction responsibility	Confidential Information	
Benefits/Comments	Confidential Information	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential Information	
Permitting / routing / siting	Confidential Information	
ROW / land acquisition	Confidential Information	

Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$32,741,429.69
Component cost (in-service year)	\$35,093,530.00
Transmission Line Upgrade Component	
Component title	East Springfield - Clark 138 kV Line Rebuild
Project description	Confidential Information
Impacted transmission line	East Springfield - Clark 138 kV
Point A	Structure No.5546
Point B	Clark Substation
Point C	
Terrain description	Flat/farmland/residential, near wetlands
Existing Line Physical Characteristics	
Operating voltage	138
Conductor size and type	605 ACSR 24/7
Hardware plan description	New hardware will be installed
Tower line characteristics	In this section, the existing line is constructed on double circuit structures in a vertical configuration. The existing line shares structures with the Clark – Greene AES-Ohio 138 kV line. The existing structure types include wood monopoles, steel monopoles, wood two-pole structures, wood three-pole structures, wood H-frame structures, wood laminate structure, and steel lattice towers.

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	448.000000	516.000000
Winter (MVA)	448.000000	543.000000
Conductor size and type	1x 795 ACSS 26/7	
Shield wire size and type	SFSJ-J-6641 OPGW	
Rebuild line length	7.9 miles	
Rebuild portion description	7.9 miles from Structure No.5546 to Clark Substation	
Right of way	No RoW change	
Construction responsibility	Confidential Information	
Benefits/Comments	Confidential Information	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential Information	
Permitting / routing / siting	Confidential Information	
ROW / land acquisition	Confidential Information	
Materials & equipment	Confidential Information	
Construction & commissioning	Confidential Information	
Construction management	Confidential Information	
Overheads & miscellaneous costs	Confidential Information	

Contingency	Confidential Information	
Total component cost	\$.00	
Component cost (in-service year)	\$.00	
Transmission Line Upgrade Component		
Component title	Clark - East Springfield 138 kV [Phase 1]	
Project description	Confidential Information	
Impacted transmission line	Clark - East Springfield 138 kV	
Point A	Structure No.5546	
Point B	Structure No.5531	
Point C		
Terrain description	Flat/farmland/residential, near but not on wetlands	
Existing Line Physical Characteristics		
Operating voltage	138	
Conductor size and type	605 ACSR 24/7	
Hardware plan description	1.9 miles will be rebuilt	
Tower line characteristics	The existing line is constructed on single circuit wood multipole structures in a horizontal configuration	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	200.000000	242.000000

Winter (MVA)	226.000000	286.000000
Conductor size and type	1 X 795 ACSS 26/7	
Shield wire size and type	SFSJ-J-6641 OPGW	
Rebuild line length	1.9 miles	
Rebuild portion description	(16) structures: (11) DC steel monopole tangent structures on drilled shaft foundations, (3) DC steel monopole angle structures on drilled shaft foundations, (2) DC steel monopole deadend structures on drilled shaft foundations	
Right of way	No change to existing RoW	
Construction responsibility	Confidential Information	
Benefits/Comments	Confidential Information	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential Information	
Permitting / routing / siting	Confidential Information	
ROW / land acquisition	Confidential Information	
Materials & equipment	Confidential Information	
Construction & commissioning	Confidential Information	
Construction management	Confidential Information	
Overheads & miscellaneous costs	Confidential Information	
Contingency	Confidential Information	
Total component cost	\$.00	
Component cost (in-service year)	\$.00	
Transmission Line Upgrade Component		
Component title	Rebuild the Bath - Urbana 138 kV Line	

Project description	Confidential Information	
Impacted transmission line	Bath - Urbana 138 kV Line	
Point A	Bath	
Point B	Urbana	
Point C		
Terrain description	The existing Bath - Urbana 138 kV Line is constructed on mostly a flat terrain with 35% residential, 55% farmland, and 10% forested.	
Existing Line Physical Characteristics		
Operating voltage	138	
Conductor size and type	N/A	
Hardware plan description	The existing hardware on the entire 25-mile line will be replaced.	
Tower line characteristics	N/A - This facility is owned by Dayton Power & Light.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	435.000000	500.000000
Winter (MVA)	435.000000	526.000000
Conductor size and type	795 KCMIL 45/7 ACSS	
Shield wire size and type	SFSJ-J-6641 OPGW	
Rebuild line length	25	
Rebuild portion description	The entire Bath - Urbana 138 kV Line will be rebuilt.	

Right of way	150 ft
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$103,132,000.00
Component cost (in-service year)	\$114,896,704.00

Congestion Drivers

None

Existing Flowgates

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD940610	940610	AE2-048 TAP	940610	AE2-048 TAP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT1	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	Baseline Thermal	Included
2025W1-N1-WT2	243469	05BEATTY	241952	02DEERCREEK	1	138/138	205/202	Baseline Thermal	Included
2025W1-N11-SVD960800	0960800	AF2-371 TAP	960800	AF2-371 TAP	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVM241987	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM241988	241988	AE2-217_MAIN	241988	AE2-217_MAIN	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290887	290887	05ROCKHOPPER	290887	05ROCKHOPPER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD290984	290984	05BOKESCRK	290984	05BOKESCRK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD290978	290978	05PATTONVLSS	290978	05PATTONVLSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD290925	290925	05PARSONS2	290925	05PARSONS2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM244258	244258	05PARSONS1	244258	05PARSONS1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244283	244283	05MINERAL SS	244283	05MINERAL SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM238623	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244338	244338	05POTH	244338	05POTH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM238703	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244023	244023	05COLE	244023	05COLE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244198	244198	05LEMASTER	244198	05LEMASTER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244230	244230	05SUNDAY SS	244230	05SUNDAY SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244232	244232	05SHANNONRSS	244232	05SHANNONRSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243915	243915	05BERRYWOOD	243915	05BERRYWOOD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244020	244020	05MINK	244020	05MINK	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244022	244022	05COLE	244022	05COLE	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM241952	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM241968	241968	AD1-140 TAP	241968	AD1-140 TAP	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM241980	241980	AD2-163_POI	241980	AD2-163_POI	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM240637	240637	02URECMITCHL	240637	02URECMITCHL	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM240709	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM240710	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM238908	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM238964	238964	02MLCRK+	238964	02MLCRK+	N/A	138	202	N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVM239278	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST147	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243583	243583	05TRENT	243583	05TRENT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST148	240637	02URECMITCHL	240706	02NATIONAL	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243584	243584	05VINE	243584	05VINE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST149	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243586	243586	05WHITER	243586	05WHITER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST150	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243588	243588	05WILSON	243588	05WILSON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST143	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243579	243579	05STROUD	243579	05STROUD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243580	243580	05SULVNT	243580	05SULVNT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST145	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243581	243581	05TAYLOR	243581	05TAYLOR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD960840	960840	AF2-375 TAP	960840	AF2-375 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243582	243582	05TRABUE1	243582	05TRABUE1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD960800	960800	AF2-371 TAP	960800	AF2-371 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243577	243577	05STELZR	243577	05STELZR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST151	238529	02AIRPK+	238623	02CLARK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243590	243590	05WESTAR	243590	05WESTAR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST152	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243856	243856	05JUG ST 1-6	243856	05JUG ST 1-6	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243876	243876	05ST.CXX	243876	05ST.CXX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243902	243902	05HARDIN SW	243902	05HARDIN SW	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243903	243903	05GUNN RD SW	243903	05GUNN RD SW	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST154	240637	02URECMITCHL	240706	02NATIONAL	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243593	243593	05ZUBER	243593	05ZUBER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST155	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM24375	243765	05FORD LIMA1	243765	05FORD LIMA1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24385	243854	05REAYER	243854	05REAYER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24385	243855	05JUG ST	243855	05JUG ST	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24359	243591	05SPRINGRDSS	243591	05SPRINGRDSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST153	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24359	243592	05YEARLG	243592	05YEARLG	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24354	243548	05MOUND ST	243548	05MOUND ST	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29088	290887	05ROCKHOPPER	290887	05ROCKHOPPER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24354	243549	05MULBRY	243549	05MULBRY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29088	290886	05ANGUIN 3-4	290886	05ANGUIN 3-4	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24355	243550	05OBETZ	243550	05OBETZ	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29094	290946	05CHATFLD_BP	290946	05CHATFLD_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24355	243551	05OSU	243551	05OSU	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29092	290925	05PARSONS2	290925	05PARSONS2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24354	243542	05MIFFLIN	243542	05MIFFLIN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24354	243545	05MILTON SS	243545	05MILTON SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST124	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24354	243547	05MORSE	243547	05MORSE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24355	243552	05PICKR8	243552	05PICKR8	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29098	290984	05BOKESCRK	290984	05BOKESCRK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24355	243553	05POLARS	243553	05POLARS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29097	290978	05PATTONVLSS	290978	05PATTONVLSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST131	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24356	243560	05ROBERT	243560	05ROBERT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST136	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24356	243569	05SCIPPO	243569	05SCIPPO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST137	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24357	243570	05CLAYBN	243570	05CLAYBN	N/A	138	205	N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM243572	243572	05SHANON	243572	05SHANON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD940610	940610	AE2-048 TAP	940610	AE2-048 TAP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243574	243574	05SUNBURY SS	243574	05SUNBURY SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD927010	927010	AC1-188 TAP	927010	AC1-188 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243562	243562	05ROSS	243562	05ROSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST133	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243563	243563	05ROZELL	243563	05ROZELL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST134	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243566	243566	05SAWMILL	243566	05SAWMILL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243568	243568	05SCIOTO	243568	05SCIOTO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST140	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243575	243575	05ST.CLR	243575	05ST.CLR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD944230	944230	AF1-091 TAP	944230	AF1-091 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST141	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243576	243576	05ST.CLX	243576	05ST.CLX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST142	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD944530	944530	AF1-118 TAP	944530	AF1-118 TAP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243512	243512	05DIAMONDISS	243512	05DIAMONDISS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243511	243511	05GAY	243511	05GAY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243516	243516	05GREIF	243516	05GREIF	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243513	243513	05GENOA	243513	05GENOA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243508	243508	05ITALNV	243508	05ITALNV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243507	243507	05FIFTH	243507	05FIFTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243510	243510	05GAHANN	243510	05GAHANN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243509	243509	05FISHRD	243509	05FISHRD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243506	243506	05ELLIOTT 1	243506	05ELLIOTT 1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243502	243502	05E.BROAD	243502	05E.BROAD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243528	243528	05KARL ROAD	243528	05KARL ROAD	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD24352	243527	05HYATTX	243527	05HYATTX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24352	243529	05KENNY	243529	05KENNY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24352	243524	05HESS NORTH	243524	05HESS NORTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24352	243523	05HCREAN	243523	05HCREAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24352	243526	05HYATT	243526	05HYATT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24352	243525	05HUNTLEY1	243525	05HUNTLEY1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24351	243518	05GROVES1	243518	05GROVES1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24352	243522	05HARRISON	243522	05HARRISON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24351	243519	05HALLRD	243519	05HALLRD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S131	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S129	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-GD-S130	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-GD-S133	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-GD-S384	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S128	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S446	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD24348	243487	05CHK TAP Z	243487	05CHK TAP Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24348	243486	05CLINTX	243486	05CLINTX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24348	243483	05CRCLVS	243483	05CRCLVS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24348	243482	05CENTBG	243482	05CENTBG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24348	243485	05CLINTO	243485	05CLINTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24348	243484	05CITYCO	243484	05CITYCO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24347	243479	05BROOKS	243479	05BROOKS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24347	243478	05BRKSHR	243478	05BRKSHR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24348	243481	05CANAL	243481	05CANAL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24348	243480	05BUCKYST_BP	243480	05BUCKYST_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24350	243501	05E.BEAV	243501	05E.BEAV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24349	243497	05DELANO	243497	05DELANO	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD243495	243495	05DAVIDS	243495	05DAVIDS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243499	243499	05DUBLIN CS	243499	05DUBLIN CS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243498	243498	05DLAWAR2	243498	05DLAWAR2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243492	243492	05CORWIN	243492	05CORWIN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243491	243491	05CORRID	243491	05CORRID	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243494	243494	05CTYPLN	243494	05CTYPLN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243493	243493	05CRVERD	243493	05CRVERD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243488	243488	05CONESVILLE	243488	05CONESVILLE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243460	243460	05ROBRT2	243460	05ROBRT2	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243459	243459	05KIRK	243459	05KIRK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243464	243464	05ADAMS	243464	05ADAMS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243461	243461	05ROBRT1	243461	05ROBRT1	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVM15	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N11-WVD243456	243456	05CORRID	243456	05CORRID	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVM16	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N11-WVD243455	243455	05CONES	243455	05CONES	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243458	243458	05HYATT	243458	05HYATT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243457	243457	05HAYDEN	243457	05HAYDEN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVM11	240709	02N TITUS	240709	02N TITUS	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N1-WVM12	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N1-WVM13	238908	02LONDON	238908	02LONDON	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N11-WVD243454	243454	05BIXBY	243454	05BIXBY	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVM14	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N11-WVD243453	243453	05BEATTY	243453	05BEATTY	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVM10	240710	02MELISSA	240710	02MELISSA	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N11-WVD243475	243475	05BLEND0	243475	05BLEND0	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243474	243474	05BLACKL	243474	05BLACKL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243476	243476	05BOLINSMLSS	243476	05BOLINSMLSS	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N1-WVD12	240709	02N TITUS	240709	02N TITUS	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N11-WVD24347	243471	05BETHEL	243471	05BETHEL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVD13	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N11-WVD24346	243469	05BEATTY	243469	05BEATTY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVD14	238908	02LONDON	238908	02LONDON	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N11-WVD24347	243473	05BIXBY	243473	05BIXBY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24347	243472	05BEXLEY	243472	05BEXLEY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24346	243465	05ADDISO	243465	05ADDISO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVD10	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N11-WVD24346	243467	05E.BROAD3	243467	05E.BROAD3	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVD11	240710	02MELISSA	240710	02MELISSA	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N11-WVD24346	243466	05ASTOR	243466	05ASTOR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24336	243363	05REED	243363	05REED	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24336	243361	05RABER	243361	05RABER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24336	243367	05ROCKCR	243367	05ROCKCR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24336	243366	05ROB PK12	243366	05ROB PK12	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24333	243334	05MAGLEY	243334	05MAGLEY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24333	243330	05LINCOLN1	243330	05LINCOLN1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24334	243342	05MILAN	243342	05MILAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24333	243338	05MCKINLEY3	243338	05MCKINLEY3	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24337	243375	05SKINNRLKSS	243375	05SKINNRLKSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24337	243372	05SATURN	243372	05SATURN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVM8	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N11-WVD24338	243387	05VANBUR	243387	05VANBUR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVM9	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N11-WVD24338	243384	05TRIER	243384	05TRIER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24339	243390	05WAYNED	243390	05WAYNED	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24338	243389	05WALLEN	243389	05WALLEN	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD243379	243379	05STATES	243379	05STATES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243378	243378	05SPY RUN2	243378	05SPY RUN2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243383	243383	05TILLMA	243383	05TILLMA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243381	243381	05SUMMIT	243381	05SUMMIT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT32	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	Baseline Thermal	Included
2025W1-N11-WVD243377	243377	05SORENS	243377	05SORENS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243391	243391	05WAYNET	243391	05WAYNET	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243070	243070	05OHIOCT	243070	05OHIOCT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD238574	238574	02BELPT+	238574	02BELPT+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243086	243086	05S HICK	243086	05S HICK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD238667	238667	02DUALR+	238667	02DUALR+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243080	243080	05RILEYC	243080	05RILEYC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD238640	238640	02CRISS	238640	02CRISS	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243082	243082	05ROCKHILL1	243082	05ROCKHILL1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD238623	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243083	243083	05CAMPSS	243083	05CAMPSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD238605	238605	02CARDNT	238605	02CARDNT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243084	243084	05RUTLAND1	243084	05RUTLAND1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD238861	238861	02KIRBY	238861	02KIRBY	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243074	243074	05PHILO1	243074	05PHILO1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD238777	238777	02HAMIL+	238777	02HAMIL+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243075	243075	05POWELS	243075	05POWELS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD238745	238745	02GALION	238745	02GALION	N/A	345	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243076	243076	05CONESPREPZ	243076	05CONESPREPZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD238703	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243079	243079	05REFORM	243079	05REFORM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243089	243089	05SBALTM	243089	05SBALTM	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD243091	243091	05S.CALDWELL	243091	05S.CALDWELL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243103	243103	05SKENTO	243103	05SKENTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243104	243104	05SLANCS	243104	05SLANCS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243107	243107	05SPENCR	243107	05SPENCR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243108	243108	05STRLN	243108	05STRLN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243094	243094	05SCOSHC	243094	05SCOSHC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243096	243096	05SCUMBL	243096	05SCUMBL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243098	243098	05SHARPR	243098	05SHARPR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243099	243099	05SHAWNRR	243099	05SHAWNRR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243048	243048	05N WALD	243048	05N WALD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243050	243050	05NBELVL	243050	05NBELVL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243051	243051	05NDELPH	243051	05NDELPH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243034	243034	05MARQUI	243034	05MARQUI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243038	243038	05MEIG1Z	243038	05MEIG1Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243039	243039	05MELMOR	243039	05MELMOR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243044	243044	05MILLWO	243044	05MILLWO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243030	243030	05LIMAOR	243030	05LIMAOR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243031	243031	05LYNN Z	243031	05LYNN Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243033	243033	05THORNWD SS	243033	05THORNWD SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243067	243067	05NWOODC	243067	05NWOODC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243068	243068	05NZANEV	243068	05NZANEV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243061	243061	05NLEXTN	243061	05NLEXTN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243062	243062	05NMUSKG	243062	05NMUSKG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243063	243063	05N.NEWARK1	243063	05N.NEWARK1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243066	243066	05NW LIM	243066	05NW LIM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243056	243056	05NEWCOM	243056	05NEWCOM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243057	243057	05NEW LIBR1	243057	05NEW LIBR1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243058	243058	05NEWARK CTR	243058	05NEWARK CTR	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD243059	243059	05N.FINDLAY1	243059	05N.FINDLAY1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243020	243020	05HILLVI	243020	05HILLVI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243023	243023	05HOCKNG	243023	05HOCKNG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243024	243024	05HOWARD1	243024	05HOWARD1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243025	243025	05JUNCTN	243025	05JUNCTN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243014	243014	05GRABILL	243014	05GRABILL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243016	243016	05HANTHR	243016	05HANTHR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243017	243017	05HAVILAND1	243017	05HAVILAND1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243018	243018	05HEATH	243018	05HEATH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243007	243007	05FRAZEY	243007	05FRAZEY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243011	243011	05FULTON	243011	05FULTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVD22	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVD21	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVD16	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVD15	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVD20	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVD19	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVD18	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVD17	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N11-ST103	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-WVM243516	243516	05GREIF	243516	05GREIF	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST104	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243518	243518	05GROVES1	243518	05GROVES1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST105	238574	02BELPT+	239134	02TANGY	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243519	243519	05HALLRD	243519	05HALLRD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST106	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-WVM243522	243522	05HARRISON	243522	05HARRISON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243513	243513	05GENOA	243513	05GENOA	N/A	138	205	N-1-1 Voltage Magnitude	Included

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2025W1-N11-WVM24352	243527	05HYATTX	243527	05HYATTX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST107	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24352	243523	05HCREAN	243523	05HCREAN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST108	238908	02LONDON	240709	02N TITUS	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24352	243524	05HESS NORTH	243524	05HESS NORTH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24352	243525	05HUNTLEY1	243525	05HUNTLEY1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST110	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24352	243526	05HYATT	243526	05HYATT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24353	243531	05KIMBRY	243531	05KIMBRY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24353	243532	05KIRK	243532	05KIRK	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST116	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24353	243535	05LINWRT	243535	05LINWRT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24353	243536	05LS-II	243536	05LS-II	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24352	243528	05KARL ROAD	243528	05KARL ROAD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST113	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24352	243529	05KENNY	243529	05KENNY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST118	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24353	243537	05MALIS	243537	05MALIS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST119	240637	02URECMITCHL	240706	02NATIONAL	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24353	243538	05MALISX	243538	05MALISX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST120	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24353	243539	05MARION RD	243539	05MARION RD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST121	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24354	243540	05MCCOMB	243540	05MCCOMB	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24330	243309	05HILLCR	243309	05HILLCR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24343	243485	05CLINTO	243485	05CLINTO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24331	243313	05HUNT J	243313	05HUNT J	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24343	243486	05CLINTX	243486	05CLINTX	N/A	138	205	N-1-1 Voltage Magnitude	Included

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2025W1-N11-WVD24331	243314	05HUNTR8	243314	05HUNTR8	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24343	243487	05CHK TAP Z	243487	05CHK TAP Z	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24331	243315	05ILLINO	243315	05ILLINO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24330	243304	05GUARDN	243304	05GUARDN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24330	243305	05HACIEN	243305	05HACIEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24330	243306	05HARPER	243306	05HARPER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24349	243494	05CTYPLN	243494	05CTYPLN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24349	243495	05DAVIDS	243495	05DAVIDS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24349	243497	05DELANO	243497	05DELANO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24348	243488	05CONESVILLE	243488	05CONESVILLE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24331	243316	05INDUST PK1	243316	05INDUST PK1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24349	243491	05CORRID	243491	05CORRID	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24332	243321	05KENDAL	243321	05KENDAL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24349	243492	05CORWIN	243492	05CORWIN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24332	243326	05LAOTTO	243326	05LAOTTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24349	243493	05CRVERD	243493	05CRVERD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24349	243498	05DLAWAR2	243498	05DLAWAR2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24349	243499	05DUBLIN CS	243499	05DUBLIN CS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24350	243502	05E.BROAD	243502	05E.BROAD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24350	243506	05ELLIOTT 1	243506	05ELLIOTT 1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24351	243511	05GAY	243511	05GAY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24351	243512	05DIAMONDISS	243512	05DIAMONDISS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24350	243507	05FIFTH	243507	05FIFTH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24350	243508	05ITALNV	243508	05ITALNV	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24350	243509	05FISHRD	243509	05FISHRD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24351	243510	05GAHANN	243510	05GAHANN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24321	243211	05ALLEN	243211	05ALLEN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24322	243225	05KEYSTN	243225	05KEYSTN	N/A	345	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD243222	243228	05MERIDN	243228	05MERIDN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243231	243231	05ROB PK	243231	05ROB PK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243161	243161	05ZANESV	243161	05ZANESV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243246	243246	05AUBUNC	243246	05AUBUNC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S124	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S123	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD243232	243232	05SORENS	243232	05SORENS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243237	243237	05ADAM	243237	05ADAM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243241	243241	05ALBION	243241	05ALBION	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243242	243242	05ALLEN	243242	05ALLEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243254	243254	05BURNWO	243254	05BURNWO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243263	243263	05COLUMBIA	243263	05COLUMBIA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243474	243474	05BLACKL	243474	05BLACKL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243267	243267	05COUNTY	243267	05COUNTY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243475	243475	05BLEND0	243475	05BLEND0	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243279	243279	05DIAMND	243279	05DIAMND	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243247	243247	05AUBURN1	243247	05AUBURN1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243251	243251	05BIXLER	243251	05BIXLER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243481	243481	05CANAL	243481	05CANAL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243482	243482	05CENTBG	243482	05CENTBG	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243483	243483	05CRCLVS	243483	05CRCLVS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243484	243484	05CITYCO	243484	05CITYCO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243476	243476	05BOLINSMLSS	243476	05BOLINSMLSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243284	243284	05DUPONT	243284	05DUPONT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243478	243478	05BRKSHR	243478	05BRKSHR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243288	243288	05EGE	243288	05EGE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243479	243479	05BROOKS	243479	05BROOKS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243291	243291	05ENGLER	243291	05ENGLER	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM243430	243480	05BUCKYST_BP	243480	05BUCKYST_BP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243295	243295	05GARRETT N	243295	05GARRETT N	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243110	243110	05STIFFI	243110	05STIFFI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243117	243117	05SULFRS	243117	05SULFRS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243122	243122	05SW LIM	243122	05SW LIM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243145	243145	05WCOSHC	243145	05WCOSHC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243146	243146	05WHEBRO	243146	05WHEBRO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243147	243147	05WILDCRK SS	243147	05WILDCRK SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243125	243125	05THAYER	243125	05THAYER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243136	243136	05W LIMA	243136	05W LIMA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243137	243137	05W.END FOS1	243137	05W.END FOS1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243144	243144	05WCAMBR	243144	05WCAMBR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243148	243148	05WINDFL	243148	05WINDFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243149	243149	05W.LANCAST1	243149	05W.LANCAST1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243150	243150	05WMILLP	243150	05WMILLP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243151	243151	05WMILLS	243151	05WMILLS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243158	243158	05WOOSTE	243158	05WOOSTE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243160	243160	05WTRNWY	243160	05WTRNWY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243152	243152	05W.MOULTON	243152	05W.MOULTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243153	243153	05WMTVER	243153	05WMTVER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243155	243155	05W.NEWTONSS	243155	05W.NEWTONSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243157	243157	05WOODLA	243157	05WOODLA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243563	243563	05ROZELL	243563	05ROZELL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243562	243562	05ROSS	243562	05ROSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243568	243568	05SCIOTO	243568	05SCIOTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243566	243566	05SAWMILL	243566	05SAWMILL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243559	243559	05RIO Z	243559	05RIO Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243561	243561	05RODNEY SS	243561	05RODNEY SS	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD243560	243560	05ROBERT	243560	05ROBERT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243570	243570	05CLAYBN	243570	05CLAYBN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243569	243569	05SCIPPO	243569	05SCIPPO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243571	243571	05SEAMAN	243571	05SEAMAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243579	243579	05STROUD	243579	05STROUD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243577	243577	05STELZR	243577	05STELZR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243581	243581	05TAYLOR	243581	05TAYLOR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243580	243580	05SULVNT	243580	05SULVNT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243574	243574	05SUNBURY SS	243574	05SUNBURY SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243572	243572	05SHANON	243572	05SHANON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243576	243576	05ST.CLX	243576	05ST.CLX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243575	243575	05ST.CLR	243575	05ST.CLR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243583	243583	05TRENT	243583	05TRENT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243582	243582	05TRABUE1	243582	05TRABUE1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247019	247019	05NEVILLE SS	247019	05NEVILLE SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246907	246907	05W.CAMPUS	246907	05W.CAMPUS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246890	246890	05HOPETN	246890	05HOPETN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247199	247199	05AMLIN	247199	05AMLIN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247148	247148	05SBLMSS	247148	05SBLMSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247083	247083	05NPHISS	247083	05NPHISS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247067	247067	05GOODHP	247067	05GOODHP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247497	247497	05CLOUSE	247497	05CLOUSE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247336	247336	05APPLE V SS	247336	05APPLE V SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247303	247303	05WAKATOMIKA	247303	05WAKATOMIKA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W157	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-N11-SVD246716	246716	05PHILLIPI	246716	05PHILLIPI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246523	246523	05HYATT SW1	246523	05HYATT SW1	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246761	246761	05THREEC	246761	05THREEC	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD246753	246753	05VASSEL	246753	05VASSEL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W161	243469	05BEATTY	241952	02DEERCREEK	1	138	202/205	Generation Deliverability	Included
2025W1-N11-SVD246752	246752	05VASSEL	246752	05VASSEL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246751	246751	05VASSEL	246751	05VASSEL	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246889	246889	05BIERSR	246889	05BIERSR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246888	246888	05BIERSR	246888	05BIERSR	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246851	246851	05CULBERTSON	246851	05CULBERTSON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246765	246765	05OUTERB	246765	05OUTERB	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247972	247972	05CONDIT SS	247972	05CONDIT SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247945	247945	05ELLIOTT 2	247945	05ELLIOTT 2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247931	247931	05VINE_GS_X	247931	05VINE_GS_X	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247930	247930	05FIDLSTX SS	247930	05FIDLSTX SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247980	247980	05RUSTIC SS	247980	05RUSTIC SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247979	247979	05NORFLD SS	247979	05NORFLD SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247896	247896	05BOLTON	247896	05BOLTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247679	247679	05LEE	247679	05LEE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247623	247623	05GROVES2	247623	05GROVES2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247562	247562	05LOCKBOURNE	247562	05LOCKBOURNE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247509	247509	05HAYDEN	247509	05HAYDEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247791	247791	05ELK	247791	05ELK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247767	247767	05HAZELTON	247767	05HAZELTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247741	247741	05HYATT SW2	247741	05HYATT SW2	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247728	247728	05VASSEL_XFL	247728	05VASSEL_XFL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247873	247873	05BRITTON	247873	05BRITTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247862	247862	05TUSCANY	247862	05TUSCANY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288618	288618	05NBY6 Z1	288618	05NBY6 Z1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288617	288617	05NBY7	288617	05NBY7	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288616	288616	05NBY6	288616	05NBY6	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N11-SVD288615	288615	05S.ROCKHOPR	288615	05S.ROCKHOPR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247930	247980	05RUSTIC SS	247980	05RUSTIC SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288643	288643	05KIBER	288643	05KIBER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288640	288640	05DUBLINX	288640	05DUBLINX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288619	288619	05NBY6 Z2	288619	05NBY6 Z2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288614	288614	05ROCKHOPPZ2	288614	05ROCKHOPPZ2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288613	288613	05ROCKHOPPZ1	288613	05ROCKHOPPZ1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288603	288603	05TASJAN	288603	05TASJAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288579	288579	05FIESTA	288579	05FIESTA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288569	288569	05BERMUDA	288569	05BERMUDA	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD270280	270280	AF1-227 MAIN	270280	AF1-227 MAIN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246308	246308	05NEWARKC_BP	246308	05NEWARKC_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246177	246177	05ANGUIN 1-2	246177	05ANGUIN 1-2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246310	246310	05MEIGS SW1Z	246310	05MEIGS SW1Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246021	246021	05W.LANCAST2	246021	05W.LANCAST2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246010	246010	05PHILO2	246010	05PHILO2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246155	246155	05FORD LIMA2	246155	05FORD LIMA2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246094	246094	05VINE_X	246094	05VINE_X	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245977	245977	05GRISTMILL	245977	05GRISTMILL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245994	245994	05GEMINI	245994	05GEMINI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245983	245983	05GRISTMILL	245983	05GRISTMILL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S482	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S209	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-GD-S407	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD246523	246523	05HYATT SW1	246523	05HYATT SW1	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246490	246490	05PHILO_BP	246490	05PHILO_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246385	246385	05JUGST 7-11	246385	05JUGST 7-11	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246373	246373	05SPY RUN1	246373	05SPY RUN1	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD246481	246481	05NMUSKG_BP	246481	05NMUSKG_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246399	246399	05GLOBE MT Z	246399	05GLOBE MT Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246352	246352	05HAVILAND2	246352	05HAVILAND2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246312	246312	05BABBITT	246312	05BABBITT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246370	246370	05HUNTLEY2	246370	05HUNTLEY2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246354	246354	05E.LEIPSIC1	246354	05E.LEIPSIC1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S1	238908	02LONDON	241952	02DEERCREEK	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-S410	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S38	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD245511	245511	05INDUST PK2	245511	05INDUST PK2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245476	245476	05ROB PK34	245476	05ROB PK34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245456	245456	05NEWBERY	245456	05NEWBERY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245492	245492	05BABBIT 5-6	245492	05BABBIT 5-6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245491	245491	05BABBIT 3-4	245491	05BABBIT 3-4	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244991	244991	05HOWARD2	244991	05HOWARD2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244967	244967	05ELLISON_BP	244967	05ELLISON_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245422	245422	05W.END FOS2	245422	05W.END FOS2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245358	245358	05EMPEROR	245358	05EMPEROR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244936	244936	05MCKINLEY2	244936	05MCKINLEY2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245952	245952	05DLAWAR1	245952	05DLAWAR1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245905	245905	05NEW LIBR2	245905	05NEW LIBR2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245964	245964	05N.NEWARK2	245964	05N.NEWARK2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245962	245962	05DLAWAR3	245962	05DLAWAR3	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245832	245832	05LINCOLN2	245832	05LINCOLN2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245769	245769	05ADKINS	245769	05ADKINS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245875	245875	05HOWARD_BUC	245875	05HOWARD_BUC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245853	245853	05HESS SOUTH	245853	05HESS SOUTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245632	245632	05ARBOLES	245632	05ARBOLES	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD245516	245516	05ROCKHILL2	245516	05ROCKHILL2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S32	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S201	253026	09GREENE	241968	AD1-140 TAP	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S476	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S200	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S199	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S474	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD244283	244283	05MINERAL SS	244283	05MINERAL SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244258	244258	05PARSONS1	244258	05PARSONS1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244338	244338	05POTH	244338	05POTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W20	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD244198	244198	05LEMASTER	244198	05LEMASTER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W21	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD244183	244183	05LAFAY C SS	244183	05LAFAY C SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244232	244232	05SHANNONRSS	244232	05SHANNONRSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244230	244230	05SUNDAY SS	244230	05SUNDAY SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244020	244020	05MINK	244020	05MINK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W18	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD244023	244023	05COLE	244023	05COLE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W19	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD244022	244022	05COLE	244022	05COLE	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244935	244935	05MCKINLEY1	244935	05MCKINLEY1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244871	244871	05RIDGELY	244871	05RIDGELY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244672	244672	05ROB PK_XFL	244672	05ROB PK_XFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244566	244566	05LA RUE	244566	05LA RUE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244868	244868	05BRICE	244868	05BRICE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244745	244745	05BABBIT 1-2	244745	05BABBIT 1-2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244489	244489	05FOGWELL	244489	05FOGWELL	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD244341	244341	05SOFTAIL SS	244341	05SOFTAIL SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244560	244560	05ISABELLA	244560	05ISABELLA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244540	244540	05RHODES	244540	05RHODES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243592	243592	05YEARLG	243592	05YEARLG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243591	243591	05SPRINGRDSS	243591	05SPRINGRDSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243614	243614	05BAER	243614	05BAER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243593	243593	05ZUBER	243593	05ZUBER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W222	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD243586	243586	05WHITER	243586	05WHITER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W67	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-WVD243585	243585	05WAVERL	243585	05WAVERL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243590	243590	05WESTAR	243590	05WESTAR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W1	238908	02LONDON	241952	02DEERCREEK	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD243588	243588	05WILSON	243588	05WILSON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W213	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-WVD243584	243584	05VINE	243584	05VINE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W221	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD243765	243765	05FORD LIMA1	243765	05FORD LIMA1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243902	243902	05HARDIN SW	243902	05HARDIN SW	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243890	243890	05WOODSR	243890	05WOODSR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243915	243915	05BERRYWOOD	243915	05BERRYWOOD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243903	243903	05GUNN RD SW	243903	05GUNN RD SW	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243856	243856	05JUG ST 1-6	243856	05JUG ST 1-6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W10	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD243855	243855	05JUG ST	243855	05JUG ST	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W11	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD243877	243877	05DAWKNS	243877	05DAWKNS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243876	243876	05ST.CXX	243876	05ST.CXX	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD243854	243854	05REAYER	243854	05REAYER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243797	243797	05RUTLAND Z	243797	05RUTLAND Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S18	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S399	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S187	241980	AD2-163_POI	239278	02BRDVIE	1	138	202	Generation Deliverability	Included
2025W1-GD-S465	241980	AD2-163_POI	239278	02BRDVIE	1	138	202	Generation Deliverability	Included
2025W1-GD-S22	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S401	241980	AD2-163_POI	239278	02BRDVIE	1	138	202	Generation Deliverability	Included
2025W1-GD-S400	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S391	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S166	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S456	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S9	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S394	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-GD-S170	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-GD-S458	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S457	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S15	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S172	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S461	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S154	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S389	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S151	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S149	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S388	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S153	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S453	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S152	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included

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2025W1-GD-S165	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S390	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S158	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD243542	243542	05MIFFLIN	243542	05MIFFLIN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243540	243540	05MCCOMB	243540	05MCCOMB	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243537	243537	05MALIS	243537	05MALIS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243536	243536	05LS-II	243536	05LS-II	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243539	243539	05MARION RD	243539	05MARION RD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243538	243538	05MALISX	243538	05MALISX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243532	243532	05KIRK	243532	05KIRK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243531	243531	05KIMBRY	243531	05KIMBRY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243535	243535	05LINWRT	243535	05LINWRT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243534	243534	05LICK	243534	05LICK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S141	243469	05BEATTY	241952	02DEERCREEK	1	138	202/205	Generation Deliverability	Included
2025W1-GD-S448	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-GD-S4	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD243544	243544	05MILPRD	243544	05MILPRD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S385	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S139	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S138	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S137	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD243558	243558	05RIO	243558	05RIO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243551	243551	05OSU	243551	05OSU	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243550	243550	05OBETZ	243550	05OBETZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243553	243553	05POLARS	243553	05POLARS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243552	243552	05PICKR8	243552	05PICKR8	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243547	243547	05MORSE	243547	05MORSE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243545	243545	05MILTON SS	243545	05MILTON SS	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD243549	243549	05MULBRY	243549	05MULBRY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243548	243548	05MOUND ST	243548	05MOUND ST	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S451	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S148	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S147	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S450	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S146	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-GD-S387	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-GD-S5	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-GD-S145	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-SVD290254	290254	05INNOVATION	290254	05INNOVATION	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247501	247501	05MUSK_E_XFL	247501	05MUSK_E_XFL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290241	290241	05SIFFORD	290241	05SIFFORD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247509	247509	05HAYDEN	247509	05HAYDEN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290239	290239	05HUMBOLDT	290239	05HUMBOLDT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247513	247513	05BOUTWELL	247513	05BOUTWELL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290230	290230	05CYPRUS12	290230	05CYPRUS12	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247562	247562	05LOCKBOURNE	247562	05LOCKBOURNE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM247497	247497	05CLOUSE	247497	05CLOUSE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290313	290313	05CONESV_XFL	290313	05CONESV_XFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247500	247500	05MUSK_D_XFL	247500	05MUSK_D_XFL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288835	288835	05BLAIN_TAP	288835	05BLAIN_TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD290113	290113	05WESTFALL	290113	05WESTFALL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247623	247623	05GROVES2	247623	05GROVES2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD289528	289528	05MALIS	289528	05MALIS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247679	247679	05LEE	247679	05LEE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD289114	289114	05BIG PLAIN	289114	05BIG PLAIN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247728	247728	05VASSEL_XFL	247728	05VASSEL_XFL	N/A	345	205	N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD288936	288936	05CELTIC	288936	05CELTIC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247741	247741	05HYATT SW2	247741	05HYATT SW2	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288729	288729	05SOUDER	288729	05SOUDER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247873	247873	05BRITTON	247873	05BRITTON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288727	288727	05CURLEYS	288727	05CURLEYS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247896	247896	05BOLTON	247896	05BOLTON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288726	288726	05GREENCHPL	288726	05GREENCHPL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247930	247930	05FIDLSTX SS	247930	05FIDLSTX SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288724	288724	05CHENOWETH	288724	05CHENOWETH	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247931	247931	05VINE_GS_X	247931	05VINE_GS_X	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM247767	247767	05HAZELTON	247767	05HAZELTON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288778	288778	05CYPRUS	288778	05CYPRUS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247791	247791	05ELK	247791	05ELK	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288776	288776	05CYPRUS34	288776	05CYPRUS34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247862	247862	05TUSCANY	247862	05TUSCANY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288721	288721	05MACY	288721	05MACY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247945	247945	05ELLIOTT 2	247945	05ELLIOTT 2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288718	288718	05GILES	288718	05GILES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247972	247972	05CONDIT SS	247972	05CONDIT SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288705	288705	05VASSEL2XFL	288705	05VASSEL2XFL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247979	247979	05NORFLD SS	247979	05NORFLD SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288701	288701	05MILEPOST	288701	05MILEPOST	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246752	246752	05VASSEL	246752	05VASSEL	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290886	290886	05ANGUIN 3-4	290886	05ANGUIN 3-4	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246753	246753	05VASSEL	246753	05VASSEL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290884	290884	05GREENCHL34	290884	05GREENCHL34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246761	246761	05THREEC	246761	05THREEC	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290809	290809	05HORIZON	290809	05HORIZON	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N1-LLT6	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM24675	246765	05OUTERB	246765	05OUTERB	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-LLT1	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD29062	290620	05MARYSVL_RM	290620	05MARYSVL_RM	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24690	246907	05W.CAMPUS	246907	05W.CAMPUS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29060	290608	05MARYSVL_RS	290608	05MARYSVL_RS	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24692	246929	05MADDOX	246929	05MADDOX	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29057	290573	05INNOVATION	290573	05INNOVATION	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD29077	290779	05JORDEN	290779	05JORDEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT7	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM24685	246851	05CULBERTSON	246851	05CULBERTSON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29069	290690	05GREENCHL12	290690	05GREENCHL12	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24683	246888	05BIERSR	246888	05BIERSR	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29067	290679	05BEACON	290679	05BEACON	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24683	246889	05BIERSR	246889	05BIERSR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29062	290628	05BADGER	290628	05BADGER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24689	246890	05HOPETN	246890	05HOPETN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29053	290534	05LUTZ	290534	05LUTZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT14	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM24701	247019	05NEVILLE SS	247019	05NEVILLE SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29051	290516	05CELTIC	290516	05CELTIC	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT15	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM24703	247067	05GOODHP	247067	05GOODHP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29049	290499	05SCHERERSS	290499	05SCHERERSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT16	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM24703	247083	05NPHISS	247083	05NPHISS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29045	290459	05MT PERRYSS	290459	05MT PERRYSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT17	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM247148	247148	05SBLMSS	247148	05SBLMSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-LLT10	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT12	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM246999	246999	05SORENS	246999	05SORENS	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290316	290316	05EMPEROR Z2	290316	05EMPEROR Z2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247435	247435	05MUSKNG_ESZ	247435	05MUSKNG_ESZ	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290315	290315	05EMPEROR Z1	290315	05EMPEROR Z1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD290413	290413	05KILEVILLE	290413	05KILEVILLE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT18	238908	02LONDON	241987	AE2-217_POI	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM247199	247199	05AMLIN	247199	05AMLIN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290377	290377	05BRIE	290377	05BRIE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT19	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM247370	247370	05MUSKINGUM1	247370	05MUSKINGUM1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290364	290364	05TRABUE2	290364	05TRABUE2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247373	247373	05MUSKINGUM2	247373	05MUSKINGUM2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290328	290328	05COSGRAY	290328	05COSGRAY	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247434	247434	05MUSKNG_DSZ	247434	05MUSKNG_DSZ	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245853	245853	05HESS SOUTH	245853	05HESS SOUTH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245952	245952	05DLAWAR1	245952	05DLAWAR1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245994	245994	05GEMINI	245994	05GEMINI	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246010	246010	05PHILO2	246010	05PHILO2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246021	246021	05W.LANCAST2	246021	05W.LANCAST2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246155	246155	05FORD LIMA2	246155	05FORD LIMA2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245962	245962	05DLAWAR3	245962	05DLAWAR3	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245964	245964	05N.NEWARK2	245964	05N.NEWARK2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245977	245977	05GRISTMILL	245977	05GRISTMILL	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245983	245983	05GRISTMILL	245983	05GRISTMILL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246177	246177	05ANGUIN 1-2	246177	05ANGUIN 1-2	N/A	138	205	N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM246308	246308	05NEWARKC_BP	246308	05NEWARKC_BP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246312	246312	05BABBITT	246312	05BABBITT	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246526	246526	05GUERNSEY	246526	05GUERNSEY	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246716	246716	05PHILLIPI	246716	05PHILLIPI	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246751	246751	05VASSEL	246751	05VASSEL	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246370	246370	05HUNTLEY2	246370	05HUNTLEY2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246385	246385	05JUGST 7-11	246385	05JUGST 7-11	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246399	246399	05GLOBE MT Z	246399	05GLOBE MT Z	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246523	246523	05HYATT SW1	246523	05HYATT SW1	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244540	244540	05RHODES	244540	05RHODES	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245769	245769	05ADKINS	245769	05ADKINS	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245358	245358	05EMPEROR	245358	05EMPEROR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245491	245491	05BABBIT 3-4	245491	05BABBIT 3-4	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245492	245492	05BABBIT 5-6	245492	05BABBIT 5-6	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245516	245516	05ROCKHILL2	245516	05ROCKHILL2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244560	244560	05ISABELLA	244560	05ISABELLA	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244745	244745	05BABBIT 1-2	244745	05BABBIT 1-2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244868	244868	05BRICE	244868	05BRICE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244871	244871	05RIDGELY	244871	05RIDGELY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD247106	247106	05VARNER	247106	05VARNER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S119	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247083	247083	05NPHISS	247083	05NPHISS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S120	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247132	247132	05ELLISN	247132	05ELLISN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247108	247108	05SOWERS	247108	05SOWERS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247001	247001	05YELLOW CK2	247001	05YELLOW CK2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247000	247000	05YELLOW CK1	247000	05YELLOW CK1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S116	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included

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2025W1-N11-WVD247067	247067	05GOODHP	247067	05GOODHP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247019	247019	05NEVILLE SS	247019	05NEVILLE SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S112	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247156	247156	05STEAMT	247156	05STEAMT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247148	247148	05SBLMSS	247148	05SBLMSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247370	247370	05MUSKINGUM1	247370	05MUSKINGUM1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247336	247336	05APPLE V SS	247336	05APPLE V SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S131	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247433	247433	05CHARGER	247433	05CHARGER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247373	247373	05MUSKINGUM2	247373	05MUSKINGUM2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S125	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247303	247303	05WAKATOMIKA	247303	05WAKATOMIKA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S126	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247199	247199	05AMLIN	247199	05AMLIN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247319	247319	05WOLFCK	247319	05WOLFCK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247316	247316	05SALERNO	247316	05SALERNO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S122	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S123	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247172	247172	05EBERSO	247172	05EBERSO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S124	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247434	247434	05MUSKNG_DSZ	247434	05MUSKNG_DSZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S96	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WT46	238623	02CLARK	241968	AD1-140 TAP	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD246752	246752	05VASSEL	246752	05VASSEL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT47	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD246751	246751	05VASSEL	246751	05VASSEL	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S98	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD246761	246761	05THREEC	246761	05THREEC	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-IPD-S99	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD246752	246753	05VASSEL	246753	05VASSEL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S92	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S94	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WVD246716	246716	05PHILLIPI	246716	05PHILLIPI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S95	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WVD246526	246526	05GUERNSEY	246526	05GUERNSEY	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT41	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-IPD-S100	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT50	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD246769	246769	05MINERR	246769	05MINERR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S101	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WVD246765	246765	05OUTERB	246765	05OUTERB	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246854	246854	05AUBURN2	246854	05AUBURN2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246851	246851	05CULBERTSON	246851	05CULBERTSON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246929	246929	05MADDOX	246929	05MADDOX	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S108	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT60	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD246907	246907	05W.CAMPUS	246907	05W.CAMPUS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S109	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT61	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-WVD246950	246950	05TIMBER SW	246950	05TIMBER SW	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S110	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD246942	246942	05WARERD	246942	05WARERD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S103	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD246888	246888	05BIERSR	246888	05BIERSR	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S104	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT54	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	Included

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2025W1-IPD-S105	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT57	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD246890	246890	05HOPETN	246890	05HOPETN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S106	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WVD246889	246889	05BIERSR	246889	05BIERSR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT51	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	Included
2025W1-IPD-S102	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT52	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-IPD-S111	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD246993	246993	05PURDUE	246993	05PURDUE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246982	246982	05HUNT JT_BP	246982	05HUNT JT_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246999	246999	05SORENS	246999	05SORENS	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S74	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243523	243523	05HCREAN	243523	05HCREAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT22	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S75	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243522	243522	05HARRISON	243522	05HARRISON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT25	239278	02BRDVIE	253085	09URBANA	1	138	202/209	N-1-1 Thermal	Included
2025W1-IPD-S76	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243519	243519	05HALLRD	243519	05HALLRD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT26	239278	02BRDVIE	253085	09URBANA	1	138	202/209	N-1-1 Thermal	Included
2025W1-IPD-S77	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243518	243518	05GROVES1	243518	05GROVES1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT27	238574	02BELPT+	239134	02TANGY	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243527	243527	05HYATTX	243527	05HYATTX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243526	243526	05HYATT	243526	05HYATT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT19	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-IPD-S72	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD243525	243525	05HUNTLEY1	243525	05HUNTLEY1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT20	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-SVD243524	243524	05HESS NORTH	243524	05HESS NORTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT21	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-SVD243529	243529	05KENNY	243529	05KENNY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243528	243528	05KARL ROAD	243528	05KARL ROAD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT28	238574	02BELPT+	239134	02TANGY	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S79	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT29	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S80	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT30	238574	02BELPT+	239134	02TANGY	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S81	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S85	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243507	243507	05FIFTH	243507	05FIFTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT35	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-IPD-S86	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243506	243506	05ELLIOTT 1	243506	05ELLIOTT 1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S87	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243502	243502	05E.BROAD	243502	05E.BROAD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT37	239278	02BRDVIE	253085	09URBANA	1	138	202/209	N-1-1 Thermal	Included
2025W1-IPD-S88	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WT38	238623	02CLARK	241968	AD1-140 TAP	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243511	243511	05GAY	243511	05GAY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT31	238574	02BELPT+	239134	02TANGY	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S82	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243510	243510	05GAHANN	243510	05GAHANN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT32	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S83	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD243509	243509	05FISHRD	243509	05FISHRD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S84	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243508	243508	05ITALNV	243508	05ITALNV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT34	239278	02BRDVIE	253085	09URBANA	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-SVD243516	243516	05GREIF	243516	05GREIF	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243513	243513	05GENOA	243513	05GENOA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243512	243512	05DIAMONDISS	243512	05DIAMONDISS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S89	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT39	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S90	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT40	238623	02CLARK	241968	AD1-140 TAP	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S91	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243551	243551	05OSU	243551	05OSU	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243550	243550	05OBETZ	243550	05OBETZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT1	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM960800	960800	AF2-371 TAP	960800	AF2-371 TAP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243549	243549	05MULBRY	243549	05MULBRY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT2	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243548	243548	05MOUND ST	243548	05MOUND ST	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT3	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243562	243562	05ROSS	243562	05ROSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243560	243560	05ROBERT	243560	05ROBERT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243553	243553	05POLARS	243553	05POLARS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243552	243552	05PICKR8	243552	05PICKR8	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM940610	940610	AE2-048 TAP	940610	AE2-048 TAP	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WT8	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243547	243547	05MORSE	243547	05MORSE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT4	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD243545	243545	05MILTON SS	243545	05MILTON SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT5	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT6	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT7	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243536	243536	05LS-II	243536	05LS-II	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT11	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243535	243535	05LINWRT	243535	05LINWRT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT12	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243534	243534	05LICK	243534	05LICK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT13	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243532	243532	05KIRK	243532	05KIRK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT14	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-SVD243540	243540	05MCCOMB	243540	05MCCOMB	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243539	243539	05MARION RD	243539	05MARION RD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243538	243538	05MALISX	243538	05MALISX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT9	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243537	243537	05MALIS	243537	05MALIS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT10	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243542	243542	05MIFFLIN	243542	05MIFFLIN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243531	243531	05KIMBRY	243531	05KIMBRY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT15	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT16	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WT17	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WT18	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WVD247960	247960	05SHAWTOWNSS	247960	05SHAWTOWNSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247957	247957	05RADER ROAD	247957	05RADER ROAD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S159	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247930	247930	05FIDLSTX SS	247930	05FIDLSTX SS	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N11-WVD247918	247918	05HENDERSON	247918	05HENDERSON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247945	247945	05ELLIOTT 2	247945	05ELLIOTT 2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247931	247931	05VINE_GS_X	247931	05VINE_GS_X	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247873	247873	05BRITTON	247873	05BRITTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S156	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247864	247864	05LOGTOWN	247864	05LOGTOWN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247896	247896	05BOLTON	247896	05BOLTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S158	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247893	247893	05FLAG CITY	247893	05FLAG CITY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S154	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WVD247980	247980	05RUSTIC SS	247980	05RUSTIC SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247979	247979	05NORFLD SS	247979	05NORFLD SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247982	247982	05E.NEWCONSS	247982	05E.NEWCONSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S170	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247981	247981	05CHANDLR SS	247981	05CHANDLR SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247972	247972	05CONDIT SS	247972	05CONDIT SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247566	247566	05LAMPING_BP	247566	05LAMPING_BP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247562	247562	05LOCKBOURNE	247562	05LOCKBOURNE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247664	247664	05BLACK DIAM	247664	05BLACK DIAM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247623	247623	05GROVES2	247623	05GROVES2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247501	247501	05MUSK_E_XFL	247501	05MUSK_E_XFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247500	247500	05MUSK_D_XFL	247500	05MUSK_D_XFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247513	247513	05BOUTWELL	247513	05BOUTWELL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247509	247509	05HAYDEN	247509	05HAYDEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S132	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S135	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247497	247497	05CLOUSE	247497	05CLOUSE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247435	247435	05MUSKNG_ESZ	247435	05MUSKNG_ESZ	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-IPD-S152	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247831	247831	05DALMATN SS	247831	05DALMATN SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247829	247829	05AVIATION	247829	05AVIATION	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247862	247862	05TUSCANY	247862	05TUSCANY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247790	247790	05DUNTONLAKE	247790	05DUNTONLAKE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S149	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247767	247767	05HAZELTON	247767	05HAZELTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247799	247799	05S.OLIVE SS	247799	05S.OLIVE SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247791	247791	05ELK	247791	05ELK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247679	247679	05LEE	247679	05LEE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247741	247741	05HYATT SW2	247741	05HYATT SW2	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S147	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247728	247728	05VASSEL_XFL	247728	05VASSEL_XFL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S143	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	Individual Plant Deliverability	Included
2025W1-IPD-S62	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S66	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S65	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S64	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S63	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-ST6	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST1	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S70	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVD9	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N0-SVM2	240709	02N TITUS	240709	02N TITUS	N/A	138	202	Base Case Voltage Magnitude	Included
2025W1-N1-LLVD10	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N0-SVM1	240710	02MELISSA	240710	02MELISSA	N/A	138	202	Base Case Voltage Magnitude	Included
2025W1-IPD-S68	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVD11	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N0-ST2	238623	02CLARK	241968	AD1-140 TAP	1	138/138	202/202	Base Case Thermal	Included
2025W1-IPD-S67	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVD12	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-ST5	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST4	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST3	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST2	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S71	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVD8	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-ST8	243469	05BEATTY	241952	02DEERCREEK	1	138/138	205/202	N-1 Thermal	Included
2025W1-N1-ST14	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST17	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST16	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST15	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S44	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S48	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S47	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S46	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S45	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLT41	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S50	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S49	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVM8	241988	AE2-217_MAIN	241988	AE2-217_MAIN	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-IPD-S55	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S54	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S59	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVM13	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-IPD-S58	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included

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2025W1-N1-LLVM14	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-IPD-S57	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVM15	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-IPD-S56	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVM9	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-LLVM10	241956	AC1-078 MAIN	241956	AC1-078 MAIN	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-IPD-S61	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVM11	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-LLVM12	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-LLT26	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT27	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT28	238908	02LONDON	240709	02N TITUS	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT22	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT24	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S30	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S29	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLT20	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT21	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT37	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT38	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT39	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S37	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLT33	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT35	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT36	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S40	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S39	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLT31	243469	05BEATTY	241952	02DEERCREEK	1	138/138	205/202	N-1 Thermal	Included

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2025W1-IPD-S38	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLT32	241987	AE2-217_POI	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S4	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S3	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S2	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S8	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S7	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S6	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S5	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S18	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S17	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243588	243588	05WILSON	243588	05WILSON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290607	290607	05SORENSN_RM	290607	05SORENSN_RM	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST88	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-SVD243586	243586	05WHITER	243586	05WHITER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290608	290608	05MARYSVL_RS	290608	05MARYSVL_RS	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST87	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-SVD243584	243584	05VINE	243584	05VINE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290620	290620	05MARYSVL_RM	290620	05MARYSVL_RM	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST86	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-SVD243583	243583	05TRENT	243583	05TRENT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290621	290621	05MARYSVL_RF	290621	05MARYSVL_RF	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST93	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST92	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM290516	290516	05CELTIC	290516	05CELTIC	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST91	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD243591	243591	05SPRINGRDSS	243591	05SPRINGRDSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290534	290534	05LUTZ	290534	05LUTZ	N/A	138	205	N-1-1 Voltage Magnitude	Included

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2025W1-N11-SVD243590	243590	05WESTAR	243590	05WESTAR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290573	290573	05INNOVATION	290573	05INNOVATION	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST85	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST94	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD243582	243582	05TRABUE1	243582	05TRABUE1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290628	290628	05BADGER	290628	05BADGER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243581	243581	05TAYLOR	243581	05TAYLOR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290679	290679	05BEACON	290679	05BEACON	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243580	243580	05SULVNT	243580	05SULVNT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290690	290690	05GREENCHL12	290690	05GREENCHL12	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243579	243579	05STROUD	243579	05STROUD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243574	243574	05SUNBURY SS	243574	05SUNBURY SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W24	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVM290887	290887	05ROCKHOPPER	290887	05ROCKHOPPER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243572	243572	05SHANON	243572	05SHANON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W25	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVM290925	290925	05PARSONS2	290925	05PARSONS2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243570	243570	05CLAYBN	243570	05CLAYBN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290984	290984	05BOKESCRK	290984	05BOKESCRK	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243569	243569	05SCIPPO	243569	05SCIPPO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290779	290779	05JORDEN	290779	05JORDEN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243577	243577	05STELZR	243577	05STELZR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290809	290809	05HORIZON	290809	05HORIZON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243576	243576	05ST.CLX	243576	05ST.CLX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290884	290884	05GREENCHL34	290884	05GREENCHL34	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243575	243575	05ST.CLR	243575	05ST.CLR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290886	290886	05ANGUIN 3-4	290886	05ANGUIN 3-4	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243568	243568	05SCIOTO	243568	05SCIOTO	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N11-SVD243566	243566	05SAWMILL	243566	05SAWMILL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243563	243563	05ROZELL	243563	05ROZELL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W34	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W35	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD244560	244560	05ISABELLA	244560	05ISABELLA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288835	288835	05BLAIN_TAP	288835	05BLAIN_TAP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST65	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD244540	244540	05RHODES	244540	05RHODES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288936	288936	05CELTIC	288936	05CELTIC	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST64	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-SVD244338	244338	05POTH	244338	05POTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM289114	289114	05BIG PLAIN	289114	05BIG PLAIN	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244283	244283	05MINERAL SS	244283	05MINERAL SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM289528	289528	05MALIS	289528	05MALIS	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST70	241987	AE2-217_POI	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST68	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST67	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM288778	288778	05CYPRUS	288778	05CYPRUS	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244023	244023	05COLE	244023	05COLE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290241	290241	05SIFFORD	290241	05SIFFORD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST74	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD244022	244022	05COLE	244022	05COLE	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD244258	244258	05PARSONS1	244258	05PARSONS1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290024	290024	05GOMER	290024	05GOMER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244232	244232	05SHANNONRSS	244232	05SHANNONRSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290113	290113	05WESTFALL	290113	05WESTFALL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244230	244230	05SUNDAY SS	244230	05SUNDAY SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290230	290230	05CYPRUS12	290230	05CYPRUS12	N/A	138	205	N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD244198	244198	05LEMASTER	244198	05LEMASTER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290239	290239	05HUMBOLDT	290239	05HUMBOLDT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243915	243915	05BERRYWOOD	243915	05BERRYWOOD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290315	290315	05EMPEROR Z1	290315	05EMPEROR Z1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243903	243903	05GUNN RD SW	243903	05GUNN RD SW	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290316	290316	05EMPEROR Z2	290316	05EMPEROR Z2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243902	243902	05HARDIN SW	243902	05HARDIN SW	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290328	290328	05COSGRAY	290328	05COSGRAY	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST75	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-SVD243876	243876	05ST.CXX	243876	05ST.CXX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290364	290364	05TRABUE2	290364	05TRABUE2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM290254	290254	05INNOVATION	290254	05INNOVATION	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST79	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-SVD244020	244020	05MINK	244020	05MINK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290313	290313	05CONESV_XFL	290313	05CONESV_XFL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243592	243592	05YEARLG	243592	05YEARLG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243856	243856	05JUG ST 1-6	243856	05JUG ST 1-6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290377	290377	05BRIE	290377	05BRIE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243855	243855	05JUG ST	243855	05JUG ST	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290413	290413	05KILEVILLE	290413	05KILEVILLE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243854	243854	05REAVAR	243854	05REAVAR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290459	290459	05MT PERRYSS	290459	05MT PERRYSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243593	243593	05ZUBER	243593	05ZUBER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290499	290499	05SCHERERSS	290499	05SCHERERSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST44	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM288579	288579	05FIESTA	288579	05FIESTA	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD246385	246385	05JUGST 7-11	246385	05JUGST 7-11	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288603	288603	05TASJAN	288603	05TASJAN	N/A	138	205	N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD246370	246370	05HUNTLEY2	246370	05HUNTLEY2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288613	288613	05ROCKHOPPZ1	288613	05ROCKHOPPZ1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST48	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST46	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST45	238908	02LONDON	241987	AE2-217_POI	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST52	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD246094	246094	05VINE_X	246094	05VINE_X	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288618	288618	05NBY6 Z1	288618	05NBY6 Z1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST51	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD246021	246021	05W.LANCAST2	246021	05W.LANCAST2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288619	288619	05NBY6 Z2	288619	05NBY6 Z2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST50	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD246010	246010	05PHILO2	246010	05PHILO2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288640	288640	05DUBLINX	288640	05DUBLINX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST49	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD245964	245964	05N.NEWARK2	245964	05N.NEWARK2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246312	246312	05BABBITT	246312	05BABBITT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288614	288614	05ROCKHOPPZ2	288614	05ROCKHOPPZ2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD246310	246310	05MEIGS SW1Z	246310	05MEIGS SW1Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288615	288615	05S.ROCKHOPR	288615	05S.ROCKHOPR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD246308	246308	05NEWARKC_BP	246308	05NEWARKC_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288616	288616	05NBY6	288616	05NBY6	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST53	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD246177	246177	05ANGUIN 1-2	246177	05ANGUIN 1-2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288617	288617	05NBY7	288617	05NBY7	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST55	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM288643	288643	05KIBER	288643	05KIBER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST54	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD245962	245962	05DLAWAR3	245962	05DLAWAR3	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288701	288701	05MILEPOST	288701	05MILEPOST	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD245952	245952	05DLAWAR1	245952	05DLAWAR1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288705	288705	05VASSEL2XFL	288705	05VASSEL2XFL	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD245853	245853	05HESS SOUTH	245853	05HESS SOUTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288718	288718	05GILES	288718	05GILES	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST59	238908	02LONDON	240709	02N TITUS	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST57	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST63	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD244871	244871	05RIDGELY	244871	05RIDGELY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288729	288729	05SOUDER	288729	05SOUDER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244868	244868	05BRICE	244868	05BRICE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288776	288776	05CYPRUS34	288776	05CYPRUS34	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST61	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD244745	244745	05BABBIT 1-2	244745	05BABBIT 1-2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-ST60	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD245769	245769	05ADKINS	245769	05ADKINS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288721	288721	05MACY	288721	05MACY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD245492	245492	05BABBIT 5-6	245492	05BABBIT 5-6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288724	288724	05CHENOWETH	288724	05CHENOWETH	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD245491	245491	05BABBIT 3-4	245491	05BABBIT 3-4	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288726	288726	05GREENCHPL	288726	05GREENCHPL	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD245358	245358	05EMPEROR	245358	05EMPEROR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288727	288727	05CURLEYS	288727	05CURLEYS	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST26	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST25	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST24	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST32	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N1-ST35	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST41	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST40	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM27023	270280	AF1-227 MAIN	270280	AF1-227 MAIN	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST39	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM27053	270584	AE1-091_POI	270584	AE1-091_POI	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM28856	288569	05BERMUDA	288569	05BERMUDA	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST43	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST42	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-ST70	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24347	243472	05BEXLEY	243472	05BEXLEY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28872	288726	05GREENCHPL	288726	05GREENCHPL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST71	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24347	243473	05BIXBY	243473	05BIXBY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28872	288724	05CHENOWETH	288724	05CHENOWETH	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST72	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL175	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD28872	288729	05SOUDER	288729	05SOUDER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL176	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD28872	288727	05CURLEYS	288727	05CURLEYS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST66	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24346	243466	05ASTOR	243466	05ASTOR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28870	288705	05VASSEL2XFL	288705	05VASSEL2XFL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST67	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL130	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-N11-WVM24346	243467	05E.BROAD3	243467	05E.BROAD3	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28870	288701	05MILEPOST	288701	05MILEPOST	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST68	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM24345	243469	05BEATTY	243469	05BEATTY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28872	288721	05MACY	288721	05MACY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST69	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24347	243471	05BETHEL	243471	05BETHEL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28871	288718	05GILES	288718	05GILES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24345	243458	05HYATT	243458	05HYATT	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST63	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24345	243459	05KIRK	243459	05KIRK	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST64	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24345	243460	05ROBRT2	243460	05ROBRT2	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28869	288691	05WHIPPLEDTC	288691	05WHIPPLEDTC	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST65	238529	02AIRPK+	238703	02ESPRNG	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24345	243461	05ROBRT1	243461	05ROBRT1	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-GD-LL177	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-LL178	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-WVD28877	288776	05CYPRUS34	288776	05CYPRUS34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28899	288990	05HATHAWAYSS	288990	05HATHAWAYSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28897	288975	05GANGWER	288975	05GANGWER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28909	289097	05REDRUN	289097	05REDRUN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28899	288999	05HATCH SS	288999	05HATCH SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL190	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD28893	288936	05CELTIC	288936	05CELTIC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST78	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL191	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD28875	288875	05LAMMER	288875	05LAMMER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28897	288970	05MCNUTT	288970	05MCNUTT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST80	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD28896	288963	05MARKLE SW	288963	05MARKLE SW	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-ST73	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST74	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST75	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD288835	288835	05BLAIN_TAP	288835	05BLAIN_TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST76	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD288778	288778	05CYPRUS	288778	05CYPRUS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST48	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WVM243136	243136	05W LIMA	243136	05W LIMA	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243146	243146	05WHEBRO	243146	05WHEBRO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD270584	270584	AE1-091_POI	270584	AE1-091_POI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243149	243149	05W.LANCAST1	243149	05W.LANCAST1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288579	288579	05FIESTA	288579	05FIESTA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243150	243150	05WMILLP	243150	05WMILLP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288569	288569	05BERMUDA	288569	05BERMUDA	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST44	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243107	243107	05SPENCR	243107	05SPENCR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD270280	270280	AF1-227 MAIN	270280	AF1-227 MAIN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST45	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WVM243108	243108	05STRLN	243108	05STRLN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST46	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243122	243122	05SW LIM	243122	05SW LIM	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD270495	270495	AE1-146 TAP	270495	AE1-146 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST47	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WVM243125	243125	05THAYER	243125	05THAYER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD270372	270372	AD1-106 TAP	270372	AD1-106 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243099	243099	05SHAWNRR	243099	05SHAWNRR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST43	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243104	243104	05SLANCS	243104	05SLANCS	N/A	138	205	N-1-1 Voltage Magnitude	Included

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2025W1-N11-WVD288613	288613	05ROCKHOPPZ1	288613	05ROCKHOPPZ1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD288603	288603	05TASJAN	288603	05TASJAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD288614	288614	05ROCKHOPPZ2	288614	05ROCKHOPPZ2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST59	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243454	243455	05CONES	243455	05CONES	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288640	288640	05DUBLINX	288640	05DUBLINX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST60	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL113	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVM243456	243456	05CORRID	243456	05CORRID	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288619	288619	05NBY6 Z2	288619	05NBY6 Z2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST61	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL114	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVM243457	243457	05HAYDEN	243457	05HAYDEN	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288663	288663	05FIN DATAZ	288663	05FIN DATAZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST62	238529	02AIRPK+	238703	02ESPRNG	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL119	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-WVD288643	288643	05KIBER	288643	05KIBER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST55	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WVM243160	243160	05WTRNWX	243160	05WTRNWX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288616	288616	05NBY6	288616	05NBY6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST56	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243161	243161	05ZANESV	243161	05ZANESV	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288615	288615	05S.ROCKHOPR	288615	05S.ROCKHOPR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST57	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL110	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-WVM243453	243453	05BEATTY	243453	05BEATTY	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288618	288618	05NBY6 Z1	288618	05NBY6 Z1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST58	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included

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2025W1-N11-WVM24345	243454	05BIXBY	243454	05BIXBY	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28861	288617	05NBY7	288617	05NBY7	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24315	243152	05W.MOULTON	243152	05W.MOULTON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST53	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24315	243155	05W.NEWTONSS	243155	05W.NEWTONSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST54	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24315	243157	05WOODLA	243157	05WOODLA	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-GD-LL12	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-WVD28868	288681	05NEWLIBR_BP	288681	05NEWLIBR_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL124	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD28867	288672	05N.FINDLAY2	288672	05N.FINDLAY2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL125	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-ST26	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24304	243044	05MILLWO	243044	05MILLWO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST27	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24305	243051	05NDELPH	243051	05NDELPH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST28	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24305	243058	05NEWARK CTR	243058	05NEWARK CTR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST29	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24305	243062	05NMUSKG	243062	05NMUSKG	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24301	243018	05HEATH	243018	05HEATH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST23	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WVM24302	243023	05HOCKNG	243023	05HOCKNG	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST24	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WVM24302	243025	05JUNCTN	243025	05JUNCTN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST25	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24303	243030	05LIMAOR	243030	05LIMAOR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST30	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included

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2025W1-N11-WVM24305	243063	05N.NEWARK1	243063	05N.NEWARK1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST31	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24305	243066	05NW LIM	243066	05NW LIM	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST32	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST37	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24307	243079	05REFORM	243079	05REFORM	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST38	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24303	243080	05RILEYC	243080	05RILEYC	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST39	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24303	243082	05ROCKHILL1	243082	05ROCKHILL1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST40	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WVM24303	243083	05CAMPSS	243083	05CAMPSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST33	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24307	243070	05OHIOCT	243070	05OHIOCT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST34	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24307	243074	05PHILO1	243074	05PHILO1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST35	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24307	243075	05POWELS	243075	05POWELS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST36	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24307	243076	05CONESPREPZ	243076	05CONESPREPZ	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24305	243068	05NZANEV	243068	05NZANEV	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST41	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24303	243089	05SBALTM	243089	05SBALTM	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST42	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S175	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD24070	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM2429	242926	05MALIS	242926	05MALIS	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24070	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Drop	Included

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2025W1-N11-WVM242928	242928	05MARYSV	242928	05MARYSV	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD240637	240637	02URECMITCHL	240637	02URECMITCHL	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242931	242931	05BEVERL	242931	05BEVERL	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD240635	240635	02HARRIOT	240635	02HARRIOT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242935	242935	05E LIMA	242935	05E LIMA	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD241968	241968	AD1-140 TAP	241968	AD1-140 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD241957	241957	AC2-195 TAP	241957	AC2-195 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD241952	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM241980	241980	AD2-163_POI	241980	AD2-163_POI	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S174	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD240710	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM241987	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD241980	241980	AD2-163_POI	241980	AD2-163_POI	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD239308	239308	02MR-ETH	239308	02MR-ETH	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242939	242939	05MARYSV	242939	05MARYSV	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM242940	242940	05MUSKNG	242940	05MUSKNG	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM242941	242941	05OHIOCT	242941	05OHIOCT	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM242945	242945	05SW LIM	242945	05SW LIM	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD238969	238969	02MRGP +	238969	02MRGP +	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242989	242989	05E LIMA	242989	05E LIMA	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD238964	238964	02MLCRK+	238964	02MLCRK+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242991	242991	05E SIDE	242991	05E SIDE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD238928	238928	02LTV+	238928	02LTV+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242995	242995	05EASTOW	242995	05EASTOW	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD238908	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242998	242998	05EPOINT	242998	05EPOINT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD239218	239218	02SSCIOT	239218	02SSCIOT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD239134	239134	02TANGY	239134	02TANGY	N/A	138	202	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM24294	242949	05WMILLP	242949	05WMILLP	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD239133	239133	02TANGY	239133	02TANGY	N/A	345	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242979	242979	05CANNELV SS	242979	05CANNELV SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD239073	239073	02ROBERT	239073	02ROBERT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242986	242986	05CROOKS	242986	05CROOKS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD239278	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD239264	239264	02DBP	239264	02DBP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243001	243001	05EZANEV	243001	05EZANEV	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243007	243007	05FRAZEY	243007	05FRAZEY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST21	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WVM243016	243016	05HANTHR	243016	05HANTHR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST22	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-IPD-LL40	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL41	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL35	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL36	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL37	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL38	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL33	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL34	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL21	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL22	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290608	290608	05MARYSVL_RS	290608	05MARYSVL_RS	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL17	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290534	290534	05LUTZ	290534	05LUTZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL18	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290516	290516	05CELTIC	290516	05CELTIC	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL19	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD290607	290607	05SORENSN_RM	290607	05SORENSN_RM	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL20	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290573	290573	05INNOVATION	290573	05INNOVATION	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290459	290459	05MT PERRYSS	290459	05MT PERRYSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290413	290413	05KILEVILLE	290413	05KILEVILLE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290505	290505	05IRON TRI	290505	05IRON TRI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290499	290499	05SCHERERSS	290499	05SCHERERSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290377	290377	05BRIE	290377	05BRIE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL32	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL28	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290779	290779	05JORDEN	290779	05JORDEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL29	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290761	290761	05KEKIONGA	290761	05KEKIONGA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL30	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290884	290884	05GREENCHL34	290884	05GREENCHL34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL31	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290809	290809	05HORIZON	290809	05HORIZON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL24	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290656	290656	05INVISIONSS	290656	05INVISIONSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL25	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290628	290628	05BADGER	290628	05BADGER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL26	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290690	290690	05GREENCHL12	290690	05GREENCHL12	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL27	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290679	290679	05BEACON	290679	05BEACON	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290621	290621	05MARYSVL_RF	290621	05MARYSVL_RF	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL23	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290620	290620	05MARYSVL_RM	290620	05MARYSVL_RM	N/A	765	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-ST92	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD290239	290239	05HUMBOLDT	290239	05HUMBOLDT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL96	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD290230	290230	05CYPRUS12	290230	05CYPRUS12	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL1	238908	02LONDON	241952	02DEERCREEK	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290241	290241	05SIFFORD	290241	05SIFFORD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST88	238908	02LONDON	240709	02N TITUS	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD290113	290113	05WESTFALL	290113	05WESTFALL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST89	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-WVD290048	290048	05DUNTONLAKE	290048	05DUNTONLAKE	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL35	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD290208	290208	05BECKWITH	290208	05BECKWITH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290172	290172	05HUGUENARD	290172	05HUGUENARD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST84	238908	02LONDON	240709	02N TITUS	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD289114	289114	05BIG PLAIN	289114	05BIG PLAIN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST85	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST86	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD290024	290024	05GOMER	290024	05GOMER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST87	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-WVD289528	289528	05MALIS	289528	05MALIS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST83	238908	02LONDON	240709	02N TITUS	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD290364	290364	05TRABUE2	290364	05TRABUE2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290353	290353	05TARHE	290353	05TARHE	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST99	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD290315	290315	05EMPEROR Z1	290315	05EMPEROR Z1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST100	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD290313	290313	05CONESV_XFL	290313	05CONESV_XFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST101	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD290322	290328	05COSGRAY	290328	05COSGRAY	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290316	290316	05EMPEROR Z2	290316	05EMPEROR Z2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST95	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD290252	290252	05SALTCRK SS	290252	05SALTCRK SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST96	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD290246	290246	05S.TIFFN_BP	290246	05S.TIFFN_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST97	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD290306	290306	05W.WATERT	290306	05W.WATERT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST98	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD290254	290254	05INNOVATION	290254	05INNOVATION	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST93	238574	02BELPT+	239134	02TANGY	1	138	202	N-1-1 Thermal	Included
2025W1-N1-SVM11	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM10	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM15	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM14	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM13	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM12	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM19	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM18	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM17	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM16	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM22	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM21	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM20	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM26	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM25	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM24	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM23	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included

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2025W1-N1-SVM29	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM28	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM27	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST108	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST107	253026	09GREENE	241968	AD1-140 TAP	1	138/138	209/202	N-1 Thermal	Included
2025W1-N1-ST111	238623	02CLARK	241968	AD1-140 TAP	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST109	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N1-SVM9	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM8	241988	AE2-217_MAIN	241988	AE2-217_MAIN	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST95	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD243007	243007	05FRAZEY	243007	05FRAZEY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238861	238861	02KIRBY	238861	02KIRBY	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242993	242993	05E.LEIPSIC2	242993	05E.LEIPSIC2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243001	243001	05EZANEV	243001	05EZANEV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238908	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242995	242995	05EASTOW	242995	05EASTOW	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242998	242998	05EPOINT	242998	05EPOINT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238928	238928	02LTV+	238928	02LTV+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242998	242998	05EPOINT	242998	05EPOINT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242987	242987	05DEXTER	242987	05DEXTER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238964	238964	02MLCRK+	238964	02MLCRK+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243001	243001	05EZANEV	243001	05EZANEV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242986	242986	05CROOKS	242986	05CROOKS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243023	243023	05HOCKNG	243023	05HOCKNG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242987	242987	05DEXTER	242987	05DEXTER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243018	243018	05HEATH	243018	05HEATH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242989	242989	05E LIMA	242989	05E LIMA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243011	243011	05FULTON	243011	05FULTON	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD242991	242991	05E SIDE	242991	05E SIDE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM239218	239218	02SSCIOT	239218	02SSCIOT	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM239264	239264	02DBP	239264	02DBP	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242986	242986	05CROOKS	242986	05CROOKS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238969	238969	02MRGP +	238969	02MRGP +	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243004	243004	05FINDLC	243004	05FINDLC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242979	242979	05CANNELV SS	242979	05CANNELV SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM239073	239073	02ROBERT	239073	02ROBERT	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243006	243006	05FOSTOR	243006	05FOSTOR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242963	242963	05HEDDSS	242963	05HEDDSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM239133	239133	02TANGY	239133	02TANGY	N/A	345	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM239134	239134	02TANGY	239134	02TANGY	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242940	242940	05MUSKNG	242940	05MUSKNG	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM239308	239308	02MR-ETH	239308	02MR-ETH	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242939	242939	05MARYSV	242939	05MARYSV	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM240635	240635	02HARRIOT	240635	02HARRIOT	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242931	242931	05BEVERL	242931	05BEVERL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM240637	240637	02URECMITL	240637	02URECMITL	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242928	242928	05MARYSV	242928	05MARYSV	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242950	242950	05ACADEM	242950	05ACADEM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242949	242949	05WMILLP	242949	05WMILLP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242945	242945	05SW LIM	242945	05SW LIM	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242941	242941	05OHIOCT	242941	05OHIOCT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM239278	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM241968	241968	AD1-140 TAP	241968	AD1-140 TAP	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242926	242926	05MALIS	242926	05MALIS	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM240709	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD241987	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM240710	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM241952	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM241957	241957	AC2-195 TAP	241957	AC2-195 TAP	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243149	243149	05W.LANCAST1	243149	05W.LANCAST1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242933	242933	05RPMONE	242933	05RPMONE	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243146	243146	05WHEBRO	243146	05WHEBRO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242935	242935	05E LIMA	242935	05E LIMA	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243145	243145	05WCOSHC	243145	05WCOSHC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242936	242936	05FOSTOR	242936	05FOSTOR	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243107	243107	05SPENCR	243107	05SPENCR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242939	242939	05MARYSV	242939	05MARYSV	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVD12	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVD11	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N11-WVD242928	242928	05MARYSV	242928	05MARYSV	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243150	243150	05WMILLP	243150	05WMILLP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242931	242931	05BEVERL	242931	05BEVERL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243079	243079	05REFORM	243079	05REFORM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVD14	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVD13	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N11-SVD243104	243104	05SLANCS	243104	05SLANCS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242940	242940	05MUSKNG	242940	05MUSKNG	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243098	243098	05SHARPR	243098	05SHARPR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242941	242941	05OHIOCT	242941	05OHIOCT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243094	243094	05SCOSHC	243094	05SCOSHC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242942	242942	05SBERWI	242942	05SBERWI	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243089	243089	05SBALTM	243089	05SBALTM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242945	242945	05SW LIM	242945	05SW LIM	N/A	345	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD243074	243074	05PHILO1	243074	05PHILO1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242956	242956	05BALLHL	242956	05BALLHL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243070	243070	05OHIOCT	243070	05OHIOCT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242963	242963	05HEDDSS	242963	05HEDDSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243068	243068	05NZANEV	243068	05NZANEV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238574	238574	02BELPT+	238574	02BELPT+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242974	242974	05BUCKLR	242974	05BUCKLR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243063	243063	05N.NEWARK1	243063	05N.NEWARK1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238605	238605	02CARDNT	238605	02CARDNT	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242976	242976	05BUCYRC	242976	05BUCYRC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242947	242947	05WATERFORD	242947	05WATERFORD	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243076	243076	05CONESPREPZ	243076	05CONESPREPZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242949	242949	05WMILLP	242949	05WMILLP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243075	243075	05POWELS	243075	05POWELS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242950	242950	05ACADEM	242950	05ACADEM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238745	238745	02GALION	238745	02GALION	N/A	345	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM238746	238746	02GALION	238746	02GALION	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM238777	238777	02HAMIL+	238777	02HAMIL+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243062	243062	05NMUSKG	243062	05NMUSKG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238623	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242977	242977	05CALDWE	242977	05CALDWE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243058	243058	05NEWARK CTR	243058	05NEWARK CTR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238640	238640	02CRISS	238640	02CRISS	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242979	242979	05CANNELV SS	242979	05CANNELV SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243044	243044	05MILLWO	243044	05MILLWO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238667	238667	02DUALR+	238667	02DUALR+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242984	242984	05CHATFL	242984	05CHATFL	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD243025	243025	05JUNCTN	243025	05JUNCTN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238703	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N1-SVM51	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD239133	239133	02TANGY	239133	02TANGY	N/A	345	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM50	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243475	243475	05BLEND0	243475	05BLEND0	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD239134	239134	02TANGY	239134	02TANGY	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243474	243474	05BLACKL	243474	05BLACKL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD239195	239195	02MILIRN	239195	02MILIRN	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243473	243473	05BIXBY	243473	05BIXBY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD239196	239196	02ARM+BU	239196	02ARM+BU	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM55	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM54	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM53	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM52	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM59	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243466	243466	05ASTOR	243466	05ASTOR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD240533	240533	02OSTUMBO	240533	02OSTUMBO	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM58	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243461	243461	05ROBRT1	243461	05ROBRT1	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD240635	240635	02HARRIOT	240635	02HARRIOT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM57	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243460	243460	05ROBRT2	243460	05ROBRT2	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM56	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243472	243472	05BEXLEY	243472	05BEXLEY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD239218	239218	02SSCIOT	239218	02SSCIOT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243471	243471	05BETHEL	243471	05BETHEL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD239264	239264	02DBP	239264	02DBP	N/A	138	202	N-1-1 Voltage Drop	Included

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2025W1-N11-SVD243469	243469	05BEATTY	243469	05BEATTY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD239278	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243467	243467	05E.BROAD3	243467	05E.BROAD3	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD239308	239308	02MR-ETH	239308	02MR-ETH	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM62	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243459	243459	05KIRK	243459	05KIRK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM61	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243458	243458	05HYATT	243458	05HYATT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD240709	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM60	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243457	243457	05HAYDEN	243457	05HAYDEN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD240710	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243456	243456	05CORRID	243456	05CORRID	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241952	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM66	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM65	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM64	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM63	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD240637	240637	02URECMITHL	240637	02URECMITHL	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243160	243160	05WTRNWY	243160	05WTRNWY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242926	242926	05MALIS	242926	05MALIS	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243153	243153	05WMTVER	243153	05WMTVER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM68	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM67	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243455	243455	05CONES	243455	05CONES	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241957	241957	AC2-195 TAP	241957	AC2-195 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243454	243454	05BIXBY	243454	05BIXBY	N/A	345	205	N-1-1 Voltage Drop	Included

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2025W1-N11-WVD241968	241968	AD1-140 TAP	241968	AD1-140 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243453	243453	05BEATTY	243453	05BEATTY	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241980	241980	AD2-163_POI	241980	AD2-163_POI	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243161	243161	05ZANESV	243161	05ZANESV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241987	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243499	243499	05DUBLIN CS	243499	05DUBLIN CS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238574	238574	02BELPT+	238574	02BELPT+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM33	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM32	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM31	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM30	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243487	243487	05CHK TAP Z	243487	05CHK TAP Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM37	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243493	243493	05CRVERD	243493	05CRVERD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238667	238667	02DUALR+	238667	02DUALR+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM36	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243492	243492	05CORWIN	243492	05CORWIN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238703	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM35	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243491	243491	05CORRID	243491	05CORRID	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238745	238745	02GALION	238745	02GALION	N/A	345	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM34	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243488	243488	05CONESVILLE	243488	05CONESVILLE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238746	238746	02GALION	238746	02GALION	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243498	243498	05DLAWAR2	243498	05DLAWAR2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238600	238600	02CAIRNS	238600	02CAIRNS	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243497	243497	05DELANO	243497	05DELANO	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD238605	238605	02CARDNT	238605	02CARDNT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM39	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243495	243495	05DAVIDS	243495	05DAVIDS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238623	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM38	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243494	243494	05CTYPLN	243494	05CTYPLN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238640	238640	02CRISS	238640	02CRISS	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM40	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-LL102	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-GD-LL103	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD238777	238777	02HAMIL+	238777	02HAMIL+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243486	243486	05CLINTX	243486	05CLINTX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL104	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-WVD238861	238861	02KIRBY	238861	02KIRBY	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243485	243485	05CLINTO	243485	05CLINTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238891	238891	02LESIDE	238891	02LESIDE	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM44	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM43	240637	02URECMITCHL	240637	02URECMITCHL	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM42	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM41	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-LL10	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-SVM48	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243480	243480	05BUCKYST_BP	243480	05BUCKYST_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238969	238969	02MRGP +	238969	02MRGP +	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM47	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243479	243479	05BROOKS	243479	05BROOKS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD239028	239028	02ONTARO	239028	02ONTARO	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM46	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD243478	243478	05BRKSHR	243478	05BRKSHR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD239073	239073	02ROBERT	239073	02ROBERT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM45	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243476	243476	05BOLINSMLSS	243476	05BOLINSMLSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243484	243484	05CITYCO	243484	05CITYCO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238906	238906	02LNGVEW	238906	02LNGVEW	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243483	243483	05CRCLVS	243483	05CRCLVS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL107	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD238908	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243482	243482	05CENTBG	243482	05CENTBG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238928	238928	02LTV+	238928	02LTV+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM49	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243481	243481	05CANAL	243481	05CANAL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL109	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD238964	238964	02MLCRK+	238964	02MLCRK+	N/A	138	202	N-1-1 Voltage Drop	Included

New Flowgates

Confidential Information

Financial Information

Capital spend start date 01/2026

Construction start date 10/2027

Project Duration (In Months) 53

Cost Containment Commitment

Cost cap (in current year) Confidential Information

Cost cap (in-service year)	Confidential Information
Components covered by cost containment	
1. Greene(DP&L) - Melissa - Madison(AEP) 345 kV Line [Phase 2] - ATSI	
2. Belmont - West Millersport 765 kV Line - ATSI	
3. West Millersport - Vassell 765 kV Line - ATSI	
Cost elements covered by cost containment	
Engineering & design	Yes
Permitting / routing / siting	Yes
ROW / land acquisition	Yes
Materials & equipment	Yes
Construction & commissioning	Yes
Construction management	Yes
Overheads & miscellaneous costs	Yes
Taxes	Yes
AFUDC	No
Escalation	Yes
Additional Information	Confidential Information
Is the proposer offering a binding cap on ROE?	Yes
Would this ROE cap apply to the determination of AFUDC?	No
Would the proposer seek to increase the proposed ROE if FERC finds that a higher ROE would not be unreasonable?	No
Is the proposer offering a Debt to Equity Ratio cap?	Confidential Information

Additional cost containment measures not covered above

Confidential Information

Additional Comments

Ready for submission. Contact us with any questions.