

West Glade Run 765/345 kV Solution

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	334
Project title	West Glade Run 765/345 kV Solution
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. West Glade Run 765 kV and 345 kV Yards and Transformation
2. Melissa 345 kV Yard
3. Greene Substation Expansion (DPL)

4. Flatlick Substation: Replace Line Relaying (AEP)
5. Marysville Substation: Replace Line Relaying (AEP)
6. West Glade Run - Melissa 345 kV No. 1 and No. 2 Lines
7. Clark - East Springfield 138 kV Line (Accommodate new Greene - Melissa 345 kV Line)
8. Greene - Melissa 345 kV Line
9. Greene - Clark 138 kV Line (Accommodate new Greene - Melissa 345 kV Line)
10. West Glade Run - Beatty 345 kV Line
11. Beatty - Deer Creek 138 kV Line (Accommodate new West Glade Run - Beatty 345 kV Line)
12. West Glade Run - Hayden 345 kV No. 1 and No. 2 Lines
13. Beatty Substation Expansion (AEP)
14. Hayden Substation Expansion (AEP)
15. Marysville 765 kV STATCOM (AEP)
16. Loop Marysville - Flatlick 765 kV Line into West Glade Run Substation
17. East Springfield - Clark 138 kV EOL Line Rebuild (2032)
18. Greene - Clark 138 kV EOL Line Rebuild (2032)
19. Deer Creek - London 138 kV EOL Line Rebuild (2032)
20. Belmont Substation Expansion (MP)
21. West Millersport Substation Expansion
22. Belmont - West Millersport 765 kV Line
23. Vassell Substation Expansion (AEP)
24. West Millersport - Vassell 765 kV Line

Greenfield Substation Component

Component title	West Glade Run 765 kV and 345 kV Yards and Transformation
Project description	Confidential Information
Substation name	West Glade Run

Substation description	Construct a new West Glade Run 765 kV yard and 345 kV yard. West Glade Run 765 kV will be constructed as a four-breaker ring bus by looping in the Marysville - Flatlick 765 kV Line and two 765/345 kV transformers. West Glade Run 345 kV will be constructed as an eleven breaker and a half substation. Install shunt reactors on 765 kV line exits. Install two 150 MVAR capacitors in 345 kV yard at West Glade Run.
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Nominal voltage	AC
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Nominal voltage	765/345
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Transformer Information

	Name	Capacity (MVA)
Transformer	West Glade Run No. 1 765/345 kV Transformer	3000
	High Side	Low Side Tertiary

Voltage (kV)	765	345
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	Name	Capacity (MVA)
Transformer	West Glade Run No. 2 765/345 kV Transformer	3000
	High Side	Low Side Tertiary

Voltage (kV)	765	345
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Major equipment description	Below Grade: Install (1 Lot) of conduit, grounding and foundations. Install (1 Lot) of cable trench for two control enclosures Install (1 Lot) of oil containments Install (Approximately 2,400 ft) of driveway. Above Grade: Install (2) Prefabricated Control Enclosures, including battery systems, AC & DC aux panels, security cabinets, and MPLS network equipment. Install (8) 765/345 kV Single phase transformers, (Includes 2 spare transformers) Install (12) Firewalls Install (7) 765 kV A-Frame deadend structures Install (18) 765 kV circuit breakers (6 three phase units) Install (8) 765 kV shunt reactors (Includes 2 spare reactors) Install (36) 765 kV MOAB single phase disconnect switches (Associated with circuit breakers) Install (10) 765 kV MOAB single phase disconnect switches (Associated with transformers and lines) Install (14) 765 kV CVT's Install (14) 765 kV Surge arresters Install (6) 765 kV Line Reactors Install (7) 345 kV H-Frame deadend structures Install (11) 345 kV circuit breakers Install (10) 345 kV GOAB disconnect switches Install (4) 345 kV MOAB disconnect switches Install (2) 345 kV MOAB single phase disconnect switches Install (12) 345 kV CVT's Install (12) 345 kV Surge arresters Install (2) 345 kV SSVT's Install (1 Lot) of 765 & 345 kV rigid bus, strain bus, fittings, connectors & support structures. Install (1 Lot) of security equipment Relaying & Control: Install the following 765 kV panels in corresponding control enclosure: Install (6) Standard FE breaker panels Install (2) Standard FE line panels Install (6) Standard FE transformer panels, with split relaying (2 panels per transformer and 1 per shunt reactor) Install (1) SCADA RTU Install (2) HMI panels (1 is for comm equipment) Install (1) ATS Install the following 345 kV panels in corresponding control enclosure: Install (11) Standard FE breaker panels Install (5) Standard FE line panels Install (1) SCADA RTU Install (2) HMI panels (1 is for comm equipment) Install (1) ATS	
	Normal ratings	Emergency ratings
Summer (MVA)	4047.000000	4349.000000
Winter (MVA)	4484.000000	4961.000000
Environmental assessment	Approximately 23 acres of usable land will be needed for the substation footprint.	
Outreach plan	Public outreach is a critical component to the Proposing Entity's siting process, so efforts will include properly informing the public; federal, state, and local agencies; local governments; and other key stakeholders on the need for, and benefits of, this Project. The Proposing Entity's approach to public outreach is to be always candid and transparent, and to offer a variety of tools and means for directly impacted parties to engage with our staff. The Proposing Entity will provide development updates to local government officials, key stakeholders, and impacted parties as the Project progresses. Public outreach also will involve collecting information about landowner properties and communicating with directly affected landowners during the final siting process.	
Land acquisition plan	The site for the proposed substation has been identified and Real Estate agents for the Proposing Entity will contact the landowners to start discussions and negotiations when appropriate. Approximately 23 acres of usable land will be needed for the 765 kV and 345 kV substation footprint.	

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	\$217,594,182.00
Component cost (in-service year)	\$243,474,722.00
Substation Upgrade Component	
Component title	Melissa 345 kV Yard
Project description	Confidential Information
Substation name	Melissa
Substation zone	202 (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 (6) 345 kV H-Frame deadend structures Install (5) 345 kV circuit breakers Install (11) 345 kV GOAB disconnect switches Install (5) 345 kV MOAB disconnect switches Install (15) 345 kV CVT's Install (15) 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 (5) Standard FE breaker panels Install (5) Standard FE line panels Install (1) SCADA RTU Install (1) HMI panels Install (1) ATS
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 (6) 345 kV H-Frame deadend structures Install (5) 345 kV circuit breakers Install (11) 345 kV GOAB disconnect switches Install (5) 345 kV MOAB disconnect switches Install (15) 345 kV CVT's Install (15) 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 (5) Standard FE breaker panels Install (5) Standard FE line panels Install (1) SCADA RTU Install (1) HMI panels Install (1) ATS
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	\$37,467,461.00
Component cost (in-service year)	\$41,923,822.00
Substation Upgrade Component	
Component title	Greene Substation Expansion (DPL)
Project description	Confidential Information
Substation name	Greene
Substation zone	209 (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	\$4,370,057.00
Component cost (in-service year)	\$4,889,826.00
Substation Upgrade Component	
Component title	Flatlick Substation: Replace Line Relaying (AEP)
Project description	Confidential Information
Substation name	Flatlick
Substation zone	205 (AEP)
Substation upgrade scope	Substation relaying replacement
Transformer Information	
None	
New equipment description	Below Grade: None Above Grade: None Relaying & Control: Replace (1) Line panel, with (1) Standard line panel. Update line nameplates and update drawings.

Substation assumptions	Assumed relays will need replaced instead of existing relay settings updated.
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	Marysville Substation: Replace Line Relaying (AEP)
Project description	Confidential Information
Substation name	Flatlick
Substation zone	205 (AEP)
Substation upgrade scope	Substation relaying replacement

Transformer Information

None

New equipment description Below Grade: None Above Grade: None Relaying & Control: Replace (1) Line panel with (1) Standard line panel. Update line nameplates and update drawings.

Substation assumptions Assumed relays will need replaced instead of existing relay settings updated.

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

Greenfield Transmission Line Component

Component title West Glade Run - Melissa 345 kV No. 1 and No. 2 Lines

Project description Confidential Information

Point A	West Glade Run	
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	2 x 795 ACSS 26/7	
Nominal voltage	AC	
Nominal voltage	345 kV	
Line construction type	Overhead	
General route description	It is assumed that approximately 21.6 miles of new ROW will be required that will parallel the existing 138 kV ROW.	
Terrain description	Flat/farmland/residential, near but not on wetlands.	
Right-of-way width by segment	The new lines will each require approximately 150 ft of new ROW for the entire line route.	
Electrical transmission infrastructure crossings	East Springfield - North Titus 138 kV Line, London - Tangy (National) 138 kV Line, London - Tangy 69 kV Line	
Civil infrastructure/major waterway facility crossing plan	The line crosses (1) railroad. The lines cross I-70, Highway 54, Highway 56, Highway 38, Route 42, Route 142, and Route 665 for a total of seven major road crossings. 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. Wetland delineations and WDR are required ETR consultation letters are included Stormwater permits and local approvals are included Internal environmental engineering and external project management costs are included	

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	\$151,202,000.00
Component cost (in-service year)	\$168,450,252.00
Transmission Line Upgrade Component	
Component title	Clark - East Springfield 138 kV Line (Accommodate new Greene - Melissa 345 kV Line)
Project description	Confidential Information
Impacted transmission line	Clark - East Springfield 138 kV Line
Point A	Structure 5546A
Point B	Structure 5531
Point C	

Terrain description	Flat/farmland/residential, near but not on wetlands	
Existing Line Physical Characteristics		
Operating voltage	138 kV	
Conductor size and type	605 24/7 ACSR	
Hardware plan description	Almost all existing hardware will be reused. ~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	shielded by (1) SFSJ-J-6641 OPGW wire	
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

Greenfield Transmission Line Component

Component title	Greene - Melissa 345 kV Line
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	2 x 795 ACSS 26/7	
Nominal voltage	AC	

Nominal voltage	345 kV
Line construction type	Overhead
General route description	The new Greene - Melissa 345 kV Line will be built rebuilding existing 138 kV corridors as double circuit 345 kV and 138 kV: Greene - AD1-140 138 kV Line (EOL) - component 9 AD1-140 - Clark 138 kV Line (EOL, only to structure 5546B) - component 9 Clark - East Springfield 138 kV Line (Structure 5546A - 5531) - component 7
Terrain description	Flat/farmland/residential, near but not on wetlands
Right-of-way width by segment	ROW for entire line will be approximately 150 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 (Accommodate new Greene - Melissa 345 kV Line)
Project description	Confidential Information
Impacted transmission line	Greene - Clark 138 kV Line
Point A	Greene
Point B	AD1-140
Point C	Clark (structure 5546B)
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. The line construction was constructed in 1967. 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	1 x 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	ROW width will be 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	\$.00	
Component cost (in-service year)	\$.00	
Greenfield Transmission Line Component		
Component title	West Glade Run - Beatty 345 kV Line	
Project description	Confidential Information	
Point A	West Glade Run	
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	2 x 795 ACSS 26/7	
Nominal voltage	AC	
Nominal voltage	345 kV	
Line construction type	Overhead	
General route description	Build approximately 17 miles of new 345 kV line from Beatty (AEP) Substation to West Glade Run Substation by rebuilding Beatty - Deer Creek 138 kV EOL corridor (~11 miles) as double circuit 345 kV and 138 kV and greenfield construction (~6 miles).	

Terrain description	Flat/farmland/residential
Right-of-way width by segment	ROW width will be 150 ft.
Electrical transmission infrastructure crossings	N/A
Civil infrastructure/major waterway facility crossing plan	The line crosses (1) railroad(s). The line crosses highways a total of (4) time(s). The line crosses wetlands a total of (5) time(s).
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	~11 miles will be double circuit 345 kV and 138 kV steel poles. ~6 miles will be single circuit 345 kV tower steel poles.
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	\$68,298,500.00

Component cost (in-service year)	\$76,089,599.00
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Transmission Line Upgrade Component

Component title	Beatty - Deer Creek 138 kV Line (Accommodate new West Glade Run - Beatty 345 kV Line)
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Project description	Confidential Information
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Impacted transmission line	Beatty - Deer Creek 138 kV Line
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Point A	Beatty
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Point B	Deer Creek
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Point C	
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Terrain description	Flat/farmland/residential, near but not on wetlands
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Existing Line Physical Characteristics

Operating voltage	138
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Conductor size and type	447 kcmil ACSR 26/7
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Hardware plan description	New hardware will be used.
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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.
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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	1 x 795 ACSS 26/7
Shield wire size and type	SFSJ-J-6641 OPGW
Rebuild line length	10.9 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
Greenfield Transmission Line Component	
Component title	West Glade Run - Hayden 345 kV No. 1 and No. 2 Lines
Project description	Confidential Information
Point A	West Glade Run

Point B	Hayden	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	2241.000000	2578.000000
Winter (MVA)	2241.000000	2713.000000
Conductor size and type	2 x 795 ACSS 26/7	
Nominal voltage	AC	
Nominal voltage	345 kV	
Line construction type	Overhead	
General route description	Build approximately 15 miles of two new 345 kV lines from Hayden (AEP) Substation to West Glade Run Substation.	
Terrain description	Terrain is flat/farmland/residential	
Right-of-way width by segment	The new lines will require approximately 150 ft of new ROW for the entire line route.	
Electrical transmission infrastructure crossings	London - Tangy 138 kV Line, London - Tangy 69 kV Line, Marysville - Flatlick 765 kV Line	
Civil infrastructure/major waterway facility crossing plan	The line crosses highways a total of (2) time(s). The line crosses wetlands a total of (2) time(s).	
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	~15 miles will be double circuit 345 kV tower steel poles.	
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	\$64,503,498.00
Component cost (in-service year)	\$71,861,687.00

Substation Upgrade Component

Component title	Beatty Substation Expansion (AEP)
Project description	Confidential Information
Substation name	Beatty
Substation zone	205
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	\$4,370,056.00
Component cost (in-service year)	\$4,889,826.00
Substation Upgrade Component	
Component title	Hayden Substation Expansion (AEP)
Project description	Confidential Information

Substation name	Hayden
Substation zone	205
Substation upgrade scope	Below Grade: Install (2 Lot) of conduit, grounding & foundations for new equipment. Above Grade: Install (2) 345 kV Deadend structure Install (2) 345 kV Circuit breaker Install (4) 345 kV GOAB disconnect switches Install (2) 345 kV MOAB disconnect switch Install (6) 345 kV CVT's Install (6) 345 kV Surge arresters Relaying & Control: Install (2) Line relay panel Install (2) breaker failure panel
Transformer Information	
None	
New equipment description	Below Grade: Install (2 Lot) of conduit, grounding & foundations for new equipment. Above Grade: Install (2) 345 kV Deadend structure Install (2) 345 kV Circuit breaker Install (4) 345 kV GOAB disconnect switches Install (2) 345 kV MOAB disconnect switch Install (6) 345 kV CVT's Install (6) 345 kV Surge arresters Relaying & Control: Install (2) Line relay panel Install (2) breaker failure panel
Substation assumptions	Substation has adequate space for two new 345 kV Breaker. The existing four-breaker ring bus can be expanded to a six-breaker ring bus.
Real-estate description	Substation assumed to have adequate space for new 345 kV breakers.
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	\$7,889,097.00
Component cost (in-service year)	\$8,827,422.00
Substation Upgrade Component	
Component title	Marysville 765 kV STATCOM (AEP)
Project description	Confidential Information
Substation name	Marysville
Substation zone	205 (AEP)
Substation upgrade scope	Install a +/- 500 MVAR 765 kV STATCOM at Marysville Substation.
Transformer Information	
None	
New equipment description	Install a +/- 500 MVAR 765 kV STATCOM at Marysville Substation.
Substation assumptions	Not accounting for efficiency for overlapping construction costs. All substation control houses have space and availability to accommodate all relay panels. Site expansion including land cost. No pond required. Adequate PCE space for new panels.
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	\$104,651,289.00	
Component cost (in-service year)	\$117,098,461.00	
Greenfield Transmission Line Component		
Component title	Loop Marysville - Flatlick 765 kV Line into West Glade Run Substation	
Project description	Confidential Information	
Point A	Flatlick	
Point B	West Glade Run	
Point C	Marysville	
	Normal ratings	Emergency ratings
Summer (MVA)	4047.000000	4349.000000
Winter (MVA)	4484.000000	4961.000000
Conductor size and type	4 x 795 ACSS 26/7	
Nominal voltage	AC	
Nominal voltage	765 kV	
Line construction type	Overhead	
General route description	Marysville - Flatlick 765 kV Line will loop 0.7 miles into West Glade Run substation.	
Terrain description	Flat/farmland/residential	

Right-of-way width by segment	N/A
Electrical transmission infrastructure crossings	N/A
Civil infrastructure/major waterway facility crossing plan	N/A
Environmental impacts	N/A
Tower characteristics	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	\$7,245,090.00
Component cost (in-service year)	\$8,106,816.00
Transmission Line Upgrade Component	
Component title	East Springfield - Clark 138 kV EOL Line Rebuild (2032)
Project description	Confidential Information
Impacted transmission line	East Springfield - Clark 138 kV Line

Point A	Structure No.5546A	
Point B	Clark	
Point C		
Terrain description	Flat/farmland/residential, near wetlands	
Existing Line Physical Characteristics		
Operating voltage	138 kV	
Conductor size and type	605 ACSR 24/7	
Hardware plan description	New hardware will be used.	
Tower line characteristics	Clark – AD1-140 – Greene 138 kV Line – 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. The line construction was constructed in 1967. 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)	233.000000	282.000000
Winter (MVA)	263.000000	333.000000
Conductor size and type	1 x 795 ACSS 26/7	
Shield wire size and type	shielded by (1) SFSJ-J-6641 OPGW wire	
Rebuild line length	7.9 miles	

Rebuild portion description	7.9 miles of the Clark - Airpark - East Springfield 138 kV Line will be rebuilt from structure 5546A to Clark Substation with 1 x 795 ACSS 26/7. This line also shares a common tower with Clark - AD1-140 138 kV Line.
Right of way	It is assumed that all work will take place within the 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	Greene - Clark 138 kV EOL Line Rebuild (2032)
Project description	Confidential Information
Impacted transmission line	AD1-140 - Clark 138 kV Line
Point A	Structure No.5546B
Point B	Clark

Point C		
Terrain description	Flat/farmland/residential, near wetlands	
Existing Line Physical Characteristics		
Operating voltage	138 kV	
Conductor size and type	605 ACSR 24/7	
Hardware plan description	New hardware will be used.	
Tower line characteristics	Clark – AD1-140 – Greene 138 kV Line – 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. The line construction was constructed in 1967. 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)	233.000000	282.000000
Winter (MVA)	263.000000	333.000000
Conductor size and type	1 x 795 ACSS 26/7	
Shield wire size and type	shielded by (1) SFSJ-J-6641 OPGW wire	
Rebuild line length	7.9 miles	
Rebuild portion description	7.9 miles of the AD1-140 - Clark 138 kV Line will be rebuilt from structure 5546B to Clark Substation with 1 x 795 ACSS 26/7. This line also shares a common tower with Clark - Airpark - East Springfield 138 kV Line.	

Right of way	It is assumed that all work will take place within the 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	\$32,741,429.00
Component cost (in-service year)	\$35,093,530.00
Transmission Line Upgrade Component	
Component title	Deer Creek - London 138 kV EOL Line Rebuild (2032)
Project description	Confidential Information
Impacted transmission line	Deer Creek - London 138 kV Line
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 kV
Conductor size and type	447 ACSR 26/7
Hardware plan description	New hardware will be used.
Tower line characteristics	Deer Creek – London 138 kV Line – 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 76 priority conditions including wood pole degradation 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	1 x 794 ACSS 26/7	
Shield wire size and type	shielded by (1) SFSJ-J-6641 OPGW wire	
Rebuild line length	9.42 miles	
Rebuild portion description	9.42 miles of Deer Creek - London 138 kV Line will be rebuilt with 1 x 795 ACSS 26/7.	
Right of way	It is assumed that all work will take place within the 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	\$31,788,117.00
Component cost (in-service year)	\$34,054,919.00
Substation Upgrade Component	
Component title	Belmont Substation Expansion (MP)
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 22). 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	\$46,805,577.00
Component cost (in-service year)	\$52,372,608.00
Substation Upgrade Component	
Component title	West Millersport Substation Expansion
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	\$74,612,919.00
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	
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 Expansion (AEP)
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 24) 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 24) 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	\$23,230,288.00
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

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-SVD94286	0942860	AE2-305 TAP	942860	AE2-305 TAP	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N1-WT1	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	Baseline Thermal	Included
2025W1-N11-SVD94061	0940610	AE2-048 TAP	940610	AE2-048 TAP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT2	243469	05BEATTY	241952	02DEERCREEK	1	138/138	205/202	Baseline Thermal	Included
2025W1-N11-SVM25308	5253085	09URBANA	253085	09URBANA	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM25324	5253245	09EAGLE	253245	09EAGLE	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM94286	0942860	AE2-305 TAP	942860	AE2-305 TAP	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD96080	0960800	AF2-371 TAP	960800	AF2-371 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVM24198	7241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM24198	8241988	AE2-217_MAIN	241988	AE2-217_MAIN	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM25302	5253025	09GIVENS	253025	09GIVENS	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM25304	4253044	09MECHAN	253044	09MECHAN	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29088	7290887	05ROCKHOPPER	290887	05ROCKHOPPER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD29101	7291017	09FAYETT	291017	09FAYETT	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-SVD29098	4290984	05BOKESCRK	290984	05BOKESCRK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD29097	8290978	05PATTONVLSS	290978	05PATTONVLSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD29092	5290925	05PARSONS2	290925	05PARSONS2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM2442	5844258	05PARSONS1	244258	05PARSONS1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVM23852	9238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM2442	3344283	05MINERAL SS	244283	05MINERAL SS	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-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
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

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2025W1-N11-ST143	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24357	243579	05STROUD	243579	05STROUD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24353	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-WVM24353	243581	05TAYLOR	243581	05TAYLOR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD96084	960840	AF2-375 TAP	960840	AF2-375 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24353	243582	05TRABUE1	243582	05TRABUE1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD96080	960800	AF2-371 TAP	960800	AF2-371 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24357	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-WVM24359	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-WVM24385	243856	05JUG ST 1-6	243856	05JUG ST 1-6	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24387	243876	05ST.CXX	243876	05ST.CXX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24390	243902	05HARDIN SW	243902	05HARDIN SW	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24390	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-WVM24359	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
2025W1-N11-WVM24375	243765	05FORD LIMA1	243765	05FORD LIMA1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24385	243854	05REAVAR	243854	05REAVAR	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-WVD29088	290886	05ANGUIN 3-4	290886	05ANGUIN 3-4	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N11-WVM243549	243549	05MULBRY	243549	05MULBRY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD290946	290946	05CHATFLD_BP	290946	05CHATFLD_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243550	243550	05OBETZ	243550	05OBETZ	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243551	243551	05OSU	243551	05OSU	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD290925	290925	05PARSONS2	290925	05PARSONS2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243542	243542	05MIFFLIN	243542	05MIFFLIN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243545	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-WVM243547	243547	05MORSE	243547	05MORSE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD290984	290984	05BOKESCRK	290984	05BOKESCRK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243552	243552	05PICKR8	243552	05PICKR8	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD290978	290978	05PATTONVLSS	290978	05PATTONVLSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243553	243553	05POLARS	243553	05POLARS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST131	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD291032	291032	09KTLRSVL	291032	09KTLRSVL	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243560	243560	05ROBERT	243560	05ROBERT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD291017	291017	09FAYETT	291017	09FAYETT	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-ST136	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243569	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-WVM243570	243570	05CLAYBN	243570	05CLAYBN	N/A	138	205	N-1-1 Voltage Magnitude	Included
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

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2025W1-N11-ST134	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243556	243566	05SAWMILL	243566	05SAWMILL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243558	243568	05SCIOTO	243568	05SCIOTO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD946181	946181	AF1-283 C	946181	AF1-283 C	N/A	345	209	N-1-1 Voltage Drop	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-WVD942860	942860	AE2-305 TAP	942860	AE2-305 TAP	N/A	138	209	N-1-1 Voltage Drop	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-WVD946171	946171	AF1-282 C	946171	AF1-282 C	N/A	345	209	N-1-1 Voltage Drop	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
2025W1-N11-WVD243527	243527	05HYATTX	243527	05HYATTX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243529	243529	05KENNY	243529	05KENNY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243524	243524	05HESS NORTH	243524	05HESS NORTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243523	243523	05HCREAN	243523	05HCREAN	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N11-WVD243526	243526	05HYATT	243526	05HYATT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243525	243525	05HUNTLEY1	243525	05HUNTLEY1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243518	243518	05GROVES1	243518	05GROVES1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243522	243522	05HARRISON	243522	05HARRISON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243519	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-WVD243487	243487	05CHK TAP Z	243487	05CHK TAP Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243486	243486	05CLINTX	243486	05CLINTX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243483	243483	05CRCLVS	243483	05CRCLVS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243482	243482	05CENTBG	243482	05CENTBG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243485	243485	05CLINTO	243485	05CLINTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243484	243484	05CITYCO	243484	05CITYCO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243479	243479	05BROOKS	243479	05BROOKS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243478	243478	05BRKSHR	243478	05BRKSHR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243481	243481	05CANAL	243481	05CANAL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243480	243480	05BUCKYST_BP	243480	05BUCKYST_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243501	243501	05E.BEAV	243501	05E.BEAV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243497	243497	05DELANO	243497	05DELANO	N/A	138	205	N-1-1 Voltage Drop	Included
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

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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
2025W1-N1-WVD12	240709	02N TITUS	240709	02N TITUS	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N11-WVD243471	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-WVD243469	243469	05BEATTY	243469	05BEATTY	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-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
2025W1-N11-WVD24337	243379	05STATES	243379	05STATES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24337	243378	05SPY RUN2	243378	05SPY RUN2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24338	243383	05TILLMA	243383	05TILLMA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24338	243381	05SUMMIT	243381	05SUMMIT	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N1-WT32	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	Baseline Thermal	Included
2025W1-N11-WVD24337	243377	05SORENS	243377	05SORENS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24339	243391	05WAYNET	243391	05WAYNET	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24307	243070	05OHIOCT	243070	05OHIOCT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD23857	238574	02BELPT+	238574	02BELPT+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24308	243086	05S HICK	243086	05S HICK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD23852	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD23866	238667	02DUALR+	238667	02DUALR+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24308	243080	05RILEYC	243080	05RILEYC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD23864	238640	02CRISS	238640	02CRISS	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24308	243082	05ROCKHILL1	243082	05ROCKHILL1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD23862	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24308	243083	05CAMPSS	243083	05CAMPSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD23860	238605	02CARDNT	238605	02CARDNT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24308	243084	05RUTLAND1	243084	05RUTLAND1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD23886	238861	02KIRBY	238861	02KIRBY	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24307	243074	05PHILO1	243074	05PHILO1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD23877	238777	02HAMIL+	238777	02HAMIL+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24307	243075	05POWELS	243075	05POWELS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD23874	238745	02GALION	238745	02GALION	N/A	345	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24307	243076	05CONESPREPZ	243076	05CONESPREPZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD23870	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24307	243079	05REFORM	243079	05REFORM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24308	243089	05SBALTM	243089	05SBALTM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24309	243091	05S.CALDWELL	243091	05S.CALDWELL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24310	243103	05SKENTO	243103	05SKENTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24310	243104	05SLANCS	243104	05SLANCS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24310	243107	05SPENCR	243107	05SPENCR	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N11-WVD243102	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
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

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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
2025W1-N11-WVM243527	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-WVM243523	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

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2025W1-N11-WVM243522	243524	05HESS NORTH	243524	05HESS NORTH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243523	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-WVM243528	243526	05HYATT	243526	05HYATT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243532	243531	05KIMBRY	243531	05KIMBRY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243532	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-WVM243533	243535	05LINWRT	243535	05LINWRT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243536	243536	05LS-II	243536	05LS-II	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243528	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-WVM243529	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-WVM243533	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-WVM243538	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-WVM243539	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-WVM243540	243540	05MCCOMB	243540	05MCCOMB	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243309	243309	05HILLCR	243309	05HILLCR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243438	243485	05CLINTO	243485	05CLINTO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243313	243313	05HUNT J	243313	05HUNT J	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243438	243486	05CLINTX	243486	05CLINTX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243314	243314	05HUNTR8	243314	05HUNTR8	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243437	243487	05CHK TAP Z	243487	05CHK TAP Z	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243315	243315	05ILLINO	243315	05ILLINO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243304	243304	05GUARDN	243304	05GUARDN	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-WVD243305	243305	05HACIEN	243305	05HACIEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243306	243306	05HARPER	243306	05HARPER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243494	243494	05CTYPLN	243494	05CTYPLN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243495	243495	05DAVIDS	243495	05DAVIDS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243497	243497	05DELANO	243497	05DELANO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243488	243488	05CONESVILLE	243488	05CONESVILLE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243316	243316	05INDUST PK1	243316	05INDUST PK1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243491	243491	05CORRID	243491	05CORRID	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243321	243321	05KENDAL	243321	05KENDAL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243492	243492	05CORWIN	243492	05CORWIN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243326	243326	05LAOTTO	243326	05LAOTTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243493	243493	05CRVERD	243493	05CRVERD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243498	243498	05DLAWAR2	243498	05DLAWAR2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243499	243499	05DUBLIN CS	243499	05DUBLIN CS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243502	243502	05E.BROAD	243502	05E.BROAD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243506	243506	05ELLIOTT 1	243506	05ELLIOTT 1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243511	243511	05GAY	243511	05GAY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243512	243512	05DIAMONDISS	243512	05DIAMONDISS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243507	243507	05FIFTH	243507	05FIFTH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243508	243508	05ITALNV	243508	05ITALNV	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243509	243509	05FISHRD	243509	05FISHRD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243510	243510	05GAHANN	243510	05GAHANN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD243211	243211	05ALLEN	243211	05ALLEN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243225	243225	05KEYSTN	243225	05KEYSTN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243228	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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
2025W1-N11-WVM243480	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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
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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD243572	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
2025W1-GD-W161	243469	05BEATTY	241952	02DEERCREEK	1	138	202/205	Generation Deliverability	Included
2025W1-N11-SVD246753	246753	05VASSEL	246753	05VASSEL	N/A	138	205	N-1-1 Voltage Drop	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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-WVM253063	253063	09OVERL2	253063	09OVERL2	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD247972	247972	05CONDIT SS	247972	05CONDIT SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253065	253065	09QUINCY	253065	09QUINCY	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD247945	247945	05ELLIOTT 2	247945	05ELLIOTT 2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253068	253068	09SHELBY	253068	09SHELBY	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD247931	247931	05VINE_GS_X	247931	05VINE_GS_X	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253069	253069	09SHELBY	253069	09SHELBY	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD247930	247930	05FIDLSTX SS	247930	05FIDLSTX SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD253025	253025	09GIVENS	253025	09GIVENS	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253050	253050	09MONUM2	253050	09MONUM2	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD253021	253021	09DARBY	253021	09DARBY	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253053	253053	09NEEDMO	253053	09NEEDMO	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253056	253056	09NORTH	253056	09NORTH	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD247980	247980	05RUSTIC SS	247980	05RUSTIC SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253062	253062	09OVERL1	253062	09OVERL1	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD247979	247979	05NORFLD SS	247979	05NORFLD SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253047	253047	09MIAMI	253047	09MIAMI	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD253044	253044	09MECHAN	253044	09MECHAN	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253049	253049	09MONUM1	253049	09MONUM1	N/A	138	209	N-1-1 Voltage Magnitude	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD247791	1247791	05ELK	247791	05ELK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247767	7247767	05HAZELTON	247767	05HAZELTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247741	1247741	05HYATT SW2	247741	05HYATT SW2	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247728	8247728	05VASSEL_XFL	247728	05VASSEL_XFL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247873	3247873	05BRITTON	247873	05BRITTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247862	2247862	05TUSCANY	247862	05TUSCANY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253006	0053006	09BATH	253006	09BATH	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288618	8288618	05NBY6 Z1	288618	05NBY6 Z1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253007	00253007	09BELLBR	253007	09BELLBR	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288617	7288617	05NBY7	288617	05NBY7	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253010	0053010	09BURDOX	253010	09BURDOX	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288616	6288616	05NBY6	288616	05NBY6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253011	00253011	09CARGIL	253011	09CARGIL	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288615	5288615	05S.ROCKHOPR	288615	05S.ROCKHOPR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247980	3047980	05RUSTIC SS	247980	05RUSTIC SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253002	00253002	09AIRWAY	253002	09AIRWAY	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288643	3288643	05KIBER	288643	05KIBER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253004	00253004	09AMSTRD	253004	09AMSTRD	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288640	0288640	05DUBLINX	288640	05DUBLINX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253005	00253005	09BATH	253005	09BATH	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288619	9288619	05NBY6 Z2	288619	05NBY6 Z2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253012	00253012	09CENTER	253012	09CENTER	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288614	4288614	05ROCKHOPPZ2	288614	05ROCKHOPPZ2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253014	00253014	09CLINTO	253014	09CLINTO	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288613	3288613	05ROCKHOPPZ1	288613	05ROCKHOPPZ1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288603	3288603	05TASJAN	288603	05TASJAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253031	00253031	09HALTER	253031	09HALTER	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD253251	1253251	09PEORIA	253251	09PEORIA	N/A	345	209	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-WVM253040	253040	09KNOLLW	253040	09KNOLLW	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD253248	253248	09MADISN	253248	09MADISN	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-SVD253245	253245	09EAGLE	253245	09EAGLE	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253042	253042	09LOGAN	253042	09LOGAN	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD253101	253101	09BLUJK	253101	09BLUJK	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253044	253044	09MECHAN	253044	09MECHAN	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253024	253024	09ESIDNY	253024	09ESIDNY	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288579	288579	05FIESTA	288579	05FIESTA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253025	253025	09GIVENS	253025	09GIVENS	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288569	288569	05BERMUDA	288569	05BERMUDA	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253026	253026	09GREENE	253026	09GREENE	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD270280	270280	AF1-227 MAIN	270280	AF1-227 MAIN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD253283	253283	09E.LOGAN	253283	09E.LOGAN	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253027	253027	09GREENE	253027	09GREENE	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253021	253021	09DARBY	253021	09DARBY	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD253100	253100	09ATLNTA	253100	09ATLNTA	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM253046	253046	09MIAMI	253046	09MIAMI	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD253085	253085	09URBANA	253085	09URBANA	N/A	138	209	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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
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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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
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

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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
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

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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
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

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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
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

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2025W1-N11-WVD243552	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
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-WVM247509	247509	05HAYDEN	247509	05HAYDEN	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-WVM247513	247513	05BOUTWELL	247513	05BOUTWELL	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-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

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2025W1-N11-SVD288835	288835	05BLAIN_TAP	288835	05BLAIN_TAP	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-SVD290113	290113	05WESTFALL	290113	05WESTFALL	N/A	138	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-SVD289528	289528	05MALIS	289528	05MALIS	N/A	345	205	N-1-1 Voltage Drop	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
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-WVM247873	247873	05BRITTON	247873	05BRITTON	N/A	138	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-WVM247896	247896	05BOLTON	247896	05BOLTON	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-WVM247930	247930	05FIDLSTX SS	247930	05FIDLSTX SS	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-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-WVM247945	247945	05ELLIOTT 2	247945	05ELLIOTT 2	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-WVM247972	247972	05CONDIT SS	247972	05CONDIT SS	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-WVM247979	247979	05NORFLD SS	247979	05NORFLD 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

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2025W1-N11-SVD288701	1288701	05MILEPOST	288701	05MILEPOST	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246752	5246752	05VASSEL	246752	05VASSEL	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290886	6290886	05ANGUIN 3-4	290886	05ANGUIN 3-4	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246753	5246753	05VASSEL	246753	05VASSEL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290884	4290884	05GREENCHL34	290884	05GREENCHL34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246761	5246761	05THREEC	246761	05THREEC	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-LLT6	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD290809	9290809	05HORIZON	290809	05HORIZON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246765	5246765	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-SVD290620	20290620	05MARYSVL_RM	290620	05MARYSVL_RM	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246907	0246907	05W.CAMPUS	246907	05W.CAMPUS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246929	2246929	05MADDOX	246929	05MADDOX	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290608	8290608	05MARYSVL_RS	290608	05MARYSVL_RS	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD290573	3290573	05INNOVATION	290573	05INNOVATION	N/A	345	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-WVM246851	5246851	05CULBERTSON	246851	05CULBERTSON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290779	9290779	05JORDEN	290779	05JORDEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246888	3246888	05BIERSR	246888	05BIERSR	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290690	0290690	05GREENCHL12	290690	05GREENCHL12	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD290679	9290679	05BEACON	290679	05BEACON	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246889	3246889	05BIERSR	246889	05BIERSR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290628	8290628	05BADGER	290628	05BADGER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246890	0246890	05HOPETN	246890	05HOPETN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-LLT14	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD290534	4290534	05LUTZ	290534	05LUTZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247019	1247019	05NEVILLE SS	247019	05NEVILLE SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-LLT15	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included

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2025W1-N11-SVD290516	290516	05CELTIC	290516	05CELTIC	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247052	247067	05GOODHP	247067	05GOODHP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-LLT16	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM247033	247083	05NPHISS	247083	05NPHISS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290499	290499	05SCHERERSS	290499	05SCHERERSS	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
2025W1-N11-SVD290459	290459	05MT PERRYSS	290459	05MT PERRYSS	N/A	138	205	N-1-1 Voltage Drop	Included
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-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-SVD290413	290413	05KILEVILLE	290413	05KILEVILLE	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-SVD290377	290377	05BRIE	290377	05BRIE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247370	247370	05MUSKINGUM1	247370	05MUSKINGUM1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM247373	247373	05MUSKINGUM2	247373	05MUSKINGUM2	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-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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM24602	246021	05W.LANCAST2	246021	05W.LANCAST2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24615	246155	05FORD LIMA2	246155	05FORD LIMA2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24596	245962	05DLAWAR3	245962	05DLAWAR3	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24596	245964	05N.NEWARK2	245964	05N.NEWARK2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24597	245977	05GRISTMILL	245977	05GRISTMILL	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24593	245983	05GRISTMILL	245983	05GRISTMILL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24617	246177	05ANGUIN 1-2	246177	05ANGUIN 1-2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24630	246308	05NEWARKC_BP	246308	05NEWARKC_BP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24631	246312	05BABBITT	246312	05BABBITT	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24652	246526	05GUERNSEY	246526	05GUERNSEY	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24671	246716	05PHILLIPI	246716	05PHILLIPI	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24675	246751	05VASSEL	246751	05VASSEL	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24637	246370	05HUNTLEY2	246370	05HUNTLEY2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24633	246385	05JUGST 7-11	246385	05JUGST 7-11	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24639	246399	05GLOBE MT Z	246399	05GLOBE MT Z	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24652	246523	05HYATT SW1	246523	05HYATT SW1	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24454	244540	05RHODES	244540	05RHODES	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24576	245769	05ADKINS	245769	05ADKINS	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24535	245358	05EMPEROR	245358	05EMPEROR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24549	245491	05BABBIT 3-4	245491	05BABBIT 3-4	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24549	245492	05BABBIT 5-6	245492	05BABBIT 5-6	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24551	245516	05ROCKHILL2	245516	05ROCKHILL2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24456	244560	05ISABELLA	244560	05ISABELLA	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24474	244745	05BABBIT 1-2	244745	05BABBIT 1-2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24486	244868	05BRICE	244868	05BRICE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24487	244871	05RIDGELY	244871	05RIDGELY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24710	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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
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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WT46	238623	02CLARK	241968	AD1-140 TAP	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S96	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	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
2025W1-IPD-S99	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD246753	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-N11-WT50	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-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

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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
2025W1-N11-WT57	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S105	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	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-WT22	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243523	243523	05HCREAN	243523	05HCREAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S75	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT25	239278	02BRDVIE	253085	09URBANA	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-SVD243522	243522	05HARRISON	243522	05HARRISON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S76	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT26	239278	02BRDVIE	253085	09URBANA	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-SVD243519	243519	05HALLRD	243519	05HALLRD	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-WT27	238574	02BELPT+	239134	02TANGY	1	138	202	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-SVD243527	243527	05HYATTX	243527	05HYATTX	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-N11-SVD243526	243526	05HYATT	243526	05HYATT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S72	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT20	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-SVD243525	243525	05HUNTLEY1	243525	05HUNTLEY1	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-SVD243524	243524	05HESS NORTH	243524	05HESS NORTH	N/A	138	205	N-1-1 Voltage Drop	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-N11-WT30	238574	02BELPT+	239134	02TANGY	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-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-WT35	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243507	243507	05FIFTH	243507	05FIFTH	N/A	138	205	N-1-1 Voltage Drop	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-WT37	239278	02BRDVIE	253085	09URBANA	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-SVD243502	243502	05E.BROAD	243502	05E.BROAD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT38	238623	02CLARK	241968	AD1-140 TAP	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-IPD-S88	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WT31	238574	02BELPT+	239134	02TANGY	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243511	1243511	05GAY	243511	05GAY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S82	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT32	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243510	10243510	05GAHANN	243510	05GAHANN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S83	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243509	9243509	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-WT34	239278	02BRDVIE	253085	09URBANA	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-SVD243508	8243508	05ITALNV	243508	05ITALNV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243516	16243516	05GREIF	243516	05GREIF	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243513	13243513	05GENOA	243513	05GENOA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243512	12243512	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-WVM94286	5942860	AE2-305 TAP	942860	AE2-305 TAP	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243551	11243551	05OSU	243551	05OSU	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-SVD243550	10243550	05OBETZ	243550	05OBETZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM96080	10960800	AF2-371 TAP	960800	AF2-371 TAP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WT2	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243549	19243549	05MULBRY	243549	05MULBRY	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-SVD243548	18243548	05MOUND ST	243548	05MOUND ST	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-SVD24356	2243562	05ROSS	243562	05ROSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24356	0243560	05ROBERT	243560	05ROBERT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24355	3243553	05POLARS	243553	05POLARS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24355	2243552	05PICKR8	243552	05PICKR8	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM9406	1940610	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-WT4	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD24354	7243547	05MORSE	243547	05MORSE	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-SVD24354	5243545	05MILTON SS	243545	05MILTON SS	N/A	138	205	N-1-1 Voltage Drop	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-WT11	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD24353	6243536	05LS-II	243536	05LS-II	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-SVD24353	5243535	05LINWRT	243535	05LINWRT	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-SVD24353	4243534	05LICK	243534	05LICK	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-SVD24353	2243532	05KIRK	243532	05KIRK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24354	0243540	05MCCOMB	243540	05MCCOMB	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24353	9243539	05MARION RD	243539	05MARION RD	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-SVD24353	8243538	05MALISX	243538	05MALISX	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-SVD24353	7243537	05MALIS	243537	05MALIS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24354	2243542	05MIFFLIN	243542	05MIFFLIN	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD24353	1243531	05KIMBRY	243531	05KIMBRY	N/A	138	205	N-1-1 Voltage Drop	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-WVD25304	253044	09MECHAN	253044	09MECHAN	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25304	253042	09LOGAN	253042	09LOGAN	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25304	253047	09MIAMI	253047	09MIAMI	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25304	253046	09MIAMI	253046	09MIAMI	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25302	253026	09GREENE	253026	09GREENE	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25302	253025	09GIVENS	253025	09GIVENS	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25303	253031	09HALTER	253031	09HALTER	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25302	253027	09GREENE	253027	09GREENE	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25302	253024	09ESIDNY	253024	09ESIDNY	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25302	253021	09DARBY	253021	09DARBY	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25308	253085	09URBANA	253085	09URBANA	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25308	253083	09TREBEI	253083	09TREBEI	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25309	253090	09WMILTN	253090	09WMILTN	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25307	253072	09SPRING	253072	09SPRING	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25307	253071	09SIDNEY	253071	09SIDNEY	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25307	253079	09SUGRCK	253079	09SUGRCK	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25307	253074	09STATAP	253074	09STATAP	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25306	253065	09QUINCY	253065	09QUINCY	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25306	253069	09SHELBY	253069	09SHELBY	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25306	253068	09SHELBY	253068	09SHELBY	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24796	247960	05SHAWTOWNSS	247960	05SHAWTOWNSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24795	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-WVD24793	247930	05FIDLSTX SS	247930	05FIDLSTX 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-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-WVD253014	253014	09CLINTO	253014	09CLINTO	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD253004	253004	09AMSTRD	253004	09AMSTRD	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD253002	253002	09AIRWAY	253002	09AIRWAY	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD253006	253006	09BATH	253006	09BATH	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD253005	253005	09BATH	253005	09BATH	N/A	138	209	N-1-1 Voltage Drop	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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
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-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-N1-ST1	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-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-IPD-S68	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N0-SVM1	240710	02MELISSA	240710	02MELISSA	N/A	138	202	Base Case Voltage Magnitude	Included
2025W1-N1-LLVD11	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Drop	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-N0-ST2	238623	02CLARK	241968	AD1-140 TAP	1	138/138	202/202	Base Case Thermal	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-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-ST2	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST8	243469	05BEATTY	241952	02DEERCREEK	1	138/138	205/202	N-1 Thermal	Included
2025W1-N11-WVM25309	253090	09WMILTN	253090	09WMILTN	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM25309	253093	09WEBSTR	253093	09WEBSTR	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST14	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM25307	253079	09SUGRCK	253079	09SUGRCK	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM25303	253083	09TREBEI	253083	09TREBEI	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM25303	253085	09URBANA	253085	09URBANA	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM25303	253089	09WMILTN	253089	09WMILTN	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM25307	253071	09SIDNEY	253071	09SIDNEY	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST17	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM25307	253072	09SPRING	253072	09SPRING	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST16	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM25307	253074	09STATAP	253074	09STATAP	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST15	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-N11-WVM25307	253078	09SUGRCK	253078	09SUGRCK	N/A	138	209	N-1-1 Voltage Magnitude	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
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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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
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-WVM290607	290607	05SORENSN_RM	290607	05SORENSN_RM	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243588	243588	05WILSON	243588	05WILSON	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-ST88	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-WVM290608	290608	05MARYSVL_RS	290608	05MARYSVL_RS	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243586	243586	05WHITER	243586	05WHITER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-ST87	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-WVM290620	290620	05MARYSVL_RM	290620	05MARYSVL_RM	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243584	243584	05VINE	243584	05VINE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-ST86	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-WVM290621	290621	05MARYSVL_RF	290621	05MARYSVL_RF	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243583	243583	05TRENT	243583	05TRENT	N/A	138	205	N-1-1 Voltage Drop	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-WVM290534	290534	05LUTZ	290534	05LUTZ	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243591	243591	05SPRINGRDSS	243591	05SPRINGRDSS	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-N11-SVD243590	243590	05WESTAR	243590	05WESTAR	N/A	138	205	N-1-1 Voltage Drop	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-WVM290628	290628	05BADGER	290628	05BADGER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243582	243582	05TRABUE1	243582	05TRABUE1	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-SVD243581	243581	05TAYLOR	243581	05TAYLOR	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-SVD243580	243580	05SULVNT	243580	05SULVNT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243579	243579	05STROUD	243579	05STROUD	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD243574	243574	05SUNBURY SS	243574	05SUNBURY SS	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-SVD243572	2243572	05SHANON	243572	05SHANON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290984	3290984	05BOKESCRK	290984	05BOKESCRK	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243570	0243570	05CLAYBN	243570	05CLAYBN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM291017	1291017	09FAYETT	291017	09FAYETT	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243569	9243569	05SCIPPO	243569	05SCIPPO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290779	7290779	05JORDEN	290779	05JORDEN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM290809	0290809	05HORIZON	290809	05HORIZON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243577	7243577	05STELZR	243577	05STELZR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290884	3290884	05GREENCHL34	290884	05GREENCHL34	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243576	6243576	05ST.CLX	243576	05ST.CLX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290886	3690886	05ANGUIN 3-4	290886	05ANGUIN 3-4	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243575	5243575	05ST.CLR	243575	05ST.CLR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM291032	3291032	09KTLRSVL	291032	09KTLRSVL	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243568	8243568	05SCIOTO	243568	05SCIOTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243566	6243566	05SAWMILL	243566	05SAWMILL	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-N11-SVD243563	3243563	05ROZELL	243563	05ROZELL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W35	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVM288835	3388835	05BLAIN_TAP	288835	05BLAIN_TAP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244560	0244560	05ISABELLA	244560	05ISABELLA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-ST65	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM288936	36888936	05CELTIC	288936	05CELTIC	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244540	0244540	05RHODES	244540	05RHODES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-ST64	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-WVM289114	1289114	05BIG PLAIN	289114	05BIG PLAIN	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-SVD244338	244338	05POTH	244338	05POTH	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-N11-SVD244283	244283	05MINERAL SS	244283	05MINERAL SS	N/A	138	205	N-1-1 Voltage Drop	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-WVM290024	290024	05GOMER	290024	05GOMER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244258	244258	05PARSONS1	244258	05PARSONS1	N/A	138	205	N-1-1 Voltage Drop	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-WVM290230	290230	05CYPRUS12	290230	05CYPRUS12	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-WVM290239	290239	05HUMBOLDT	290239	05HUMBOLDT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244198	244198	05LEMASTER	244198	05LEMASTER	N/A	138	205	N-1-1 Voltage Drop	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-WVM290316	290316	05EMPEROR Z2	290316	05EMPEROR Z2	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-WVM290328	290328	05COSGRAY	290328	05COSGRAY	N/A	345	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-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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM29025	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-WVM29031	290313	05CONESV_XFL	290313	05CONESV_XFL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24402	244020	05MINK	244020	05MINK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24359	2243592	05YEARLG	243592	05YEARLG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29037	290377	05BRIE	290377	05BRIE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24385	6243856	05JUG ST 1-6	243856	05JUG ST 1-6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24385	5243855	05JUG ST	243855	05JUG ST	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29041	290413	05KILEVILLE	290413	05KILEVILLE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM29045	290459	05MT PERRYSS	290459	05MT PERRYSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24385	4243854	05REAYER	243854	05REAYER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29049	290499	05SCHERERSS	290499	05SCHERERSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24359	3243593	05ZUBER	243593	05ZUBER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-ST44	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM28857	288579	05FIESTA	288579	05FIESTA	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24638	5246385	05JUGST 7-11	246385	05JUGST 7-11	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28860	288603	05TASJAN	288603	05TASJAN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24637	0246370	05HUNTLEY2	246370	05HUNTLEY2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28861	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-WVM28861	288618	05NBY6 Z1	288618	05NBY6 Z1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24609	4246094	05VINE_X	246094	05VINE_X	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-ST51	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM28861	288619	05NBY6 Z2	288619	05NBY6 Z2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24602	1246021	05W.LANCAST2	246021	05W.LANCAST2	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N1-ST50	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM288640	288640	05DUBLINX	288640	05DUBLINX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD246010	246010	05PHILO2	246010	05PHILO2	N/A	138	205	N-1-1 Voltage Drop	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-WVM288616	288616	05NBY6	288616	05NBY6	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-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
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-WVM288718	288718	05GILES	288718	05GILES	N/A	138	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-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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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-WVM288727	288727	05CURLEYS	288727	05CURLEYS	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-WVM253098	253098	09STAUNT	253098	09STAUNT	N/A	138	209	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-N11-WVM253251	253251	09PEORIA	253251	09PEORIA	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253139	253139	09ELDEAN	253139	09ELDEAN	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253150	253150	09FRANKL	253150	09FRANKL	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253245	253245	09EAGLE	253245	09EAGLE	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253248	253248	09MADISN	253248	09MADISN	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253100	253100	09ATLNTA	253100	09ATLNTA	N/A	345	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253101	253101	09BLUJK	253101	09BLUJK	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST32	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM253106	253106	09NCARLI	253106	09NCARLI	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253107	253107	09ALPHA	253107	09ALPHA	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM253255	253255	09GEBHRT	253255	09GEBHRT	N/A	138	209	N-1-1 Voltage Magnitude	Included

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2025W1-N11-WVM25325	253258	09MLLCRK	253258	09MLLCRK	N/A	138	209	N-1-1 Voltage Magnitude	Included
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-N11-WVM25337	253373	09KISER	253373	09KISER	N/A	138	209	N-1-1 Voltage Magnitude	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-N11-WVM25326	253266	09HAAS	253266	09HAAS	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM25326	253268	09FURNAS	253268	09FURNAS	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST43	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM25323	253283	09E.LOGAN	253283	09E.LOGAN	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST42	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM25323	253284	09SMCRP	253284	09SMCRP	N/A	138	209	N-1-1 Voltage Magnitude	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-GD-LL175	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-ST72	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	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

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2025W1-N11-WVD288705	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-WVM243467	243467	05E.BROAD3	243467	05E.BROAD3	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288701	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
2025W1-N11-WVM243469	243469	05BEATTY	243469	05BEATTY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288721	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-WVM243471	243471	05BETHEL	243471	05BETHEL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288718	288718	05GILES	288718	05GILES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243458	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-WVM243459	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-WVM243460	243460	05ROBRT2	243460	05ROBRT2	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288691	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-WVM243461	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-WVD288776	288776	05CYPRUS34	288776	05CYPRUS34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD288990	288990	05HATHAWAYSS	288990	05HATHAWAYSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD288975	288975	05GANGWER	288975	05GANGWER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD289097	289097	05REDRUN	289097	05REDRUN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD288999	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-WVD288936	288936	05CELTIC	288936	05CELTIC	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-GD-LL191	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-ST78	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD288875	288875	05LAMMER	288875	05LAMMER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD288970	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-WVD288963	288963	05MARKLE SW	288963	05MARKLE SW	N/A	138	205	N-1-1 Voltage Drop	Included
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-WVD276816	276816	AF1-078_MAIN	276816	AF1-078_MAIN	N/A	138	209	N-1-1 Voltage Drop	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-WVD288579	288579	05FIESTA	288579	05FIESTA	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-WVD288569	288569	05BERMUDA	288569	05BERMUDA	N/A	345	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-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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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
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-WVM243455	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-GD-LL113	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-ST60	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	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-GD-LL114	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-ST61	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD288663	288663	05FIN DATAZ	288663	05FIN DATAZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243457	243457	05HAYDEN	243457	05HAYDEN	N/A	345	205	N-1-1 Voltage Magnitude	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-WVD288616	288616	05NBY6	288616	05NBY6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243160	243160	05WTRNWX	243160	05WTRNWX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST56	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-WVD288615	288615	05S.ROCKHOPR	288615	05S.ROCKHOPR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24315	243161	05ZANESV	243161	05ZANESV	N/A	138	205	N-1-1 Voltage Magnitude	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-WVM24345	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
2025W1-N11-WVM24345	243454	05BIXBY	243454	05BIXBY	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288617	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-WVD288681	288681	05NEWLBR_BP	288681	05NEWLBR_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-WVD288672	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-WVD253101	253101	09BLUJK	253101	09BLUJK	N/A	138	209	N-1-1 Voltage Drop	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-WVD253100	253100	09ATLNTA	253100	09ATLNTA	N/A	345	209	N-1-1 Voltage Drop	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-WVD253139	253139	09ELDEAN	253139	09ELDEAN	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24305	243058	05NEWARK CTR	243058	05NEWARK CTR	N/A	138	205	N-1-1 Voltage Magnitude	Included

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2025W1-N11-ST29	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD253106	253106	09NCARLI	253106	09NCARLI	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243062	243062	05NMUSKG	243062	05NMUSKG	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243018	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-WVM243023	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-WVD253098	253098	09STAUNT	253098	09STAUNT	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243025	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-WVM243030	243030	05LIMAOR	243030	05LIMAOR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD253258	253258	09MLLCRK	253258	09MLLCRK	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-ST30	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD253245	253245	09EAGLE	253245	09EAGLE	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243063	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-WVD253150	253150	09FRANKL	253150	09FRANKL	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243066	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-WVD253251	253251	09PEORIA	253251	09PEORIA	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD253248	253248	09MADISN	253248	09MADISN	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-ST37	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD253284	253284	09SMCRP	253284	09SMCRP	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243079	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-WVD253283	253283	09E.LOGAN	253283	09E.LOGAN	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243080	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

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2025W1-N11-WVD25331	253311	AC1-085 MAIN	253311	AC1-085 MAIN	N/A	345	209	N-1-1 Voltage Drop	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-WVD25331	253310	09CLAY	253310	09CLAY	N/A	345	209	N-1-1 Voltage Drop	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-WVD25326	253268	09FURNAS	253268	09FURNAS	N/A	138	209	N-1-1 Voltage Drop	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-WVD25326	253266	09HAAS	253266	09HAAS	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24307	243076	05CONESPREPZ	243076	05CONESPREPZ	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24306	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-WVD25337	253374	AE2-206_MAIN	253374	AE2-206_MAIN	N/A	138	209	N-1-1 Voltage Drop	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-N11-WVD25337	253373	09KISER	253373	09KISER	N/A	138	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25339	253390	AE2-221_MAIN	253390	AE2-221_MAIN	N/A	345	209	N-1-1 Voltage Drop	Included
2025W1-N11-WVD25338	253389	09LYNCHB	253389	09LYNCHB	N/A	345	209	N-1-1 Voltage Drop	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-WVM24292	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
2025W1-N11-WVM24292	242928	05MARYSV	242928	05MARYSV	N/A	765	205	N-1-1 Voltage Magnitude	Included

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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
2025W1-N11-WVM242949	242949	05WMILLP	242949	05WMILLP	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-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
2025W1-N11-WVD290607	290607	05SORENSN_RM	290607	05SORENSN_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-IPD-LL20	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD29057	290573	05INNOVATION	290573	05INNOVATION	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD29045	290459	05MT PERRYSS	290459	05MT PERRYSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD29041	290413	05KILEVILLE	290413	05KILEVILLE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD29050	290505	05IRON TRI	290505	05IRON TRI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD29049	290499	05SCHERERSS	290499	05SCHERERSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD29037	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-WVD29077	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-WVD29076	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-WVD29088	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-WVD29080	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-WVD29065	290656	05INVSIONSS	290656	05INVSIONSS	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-WVD29062	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-WVD29069	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-WVD29067	290679	05BEACON	290679	05BEACON	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD29062	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-WVD29062	290620	05MARYSVL_RM	290620	05MARYSVL_RM	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST92	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included

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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
2025W1-N11-WVD290328	290328	05COSGRAY	290328	05COSGRAY	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-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
2025W1-N1-SVM29	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included

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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-WVM23885	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-SVD243007	243007	05FRAZEY	243007	05FRAZEY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM23890	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-SVD243001	243001	05EZANEV	243001	05EZANEV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM23892	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-SVD242998	242998	05EPOINT	242998	05EPOINT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM23895	238964	02MLCRK+	238964	02MLCRK+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242987	242987	05DEXTER	242987	05DEXTER	N/A	138	205	N-1-1 Voltage Drop	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-WVD242987	242987	05DEXTER	242987	05DEXTER	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-WVD242989	242989	05E LIMA	242989	05E LIMA	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-WVD242991	242991	05E SIDE	242991	05E SIDE	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

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2025W1-N11-WVM239218	239218	02SSCIOT	239218	02SSCIOT	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM239252	239264	02DBP	239264	02DBP	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM238952	238969	02MRGP +	238969	02MRGP +	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-WVD243004	243004	05FINDLC	243004	05FINDLC	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-SVD242979	242979	05CANNELV SS	242979	05CANNELV SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243006	243006	05FOSTOR	243006	05FOSTOR	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-SVD242963	242963	05HEDDSS	242963	05HEDDSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM239134	239134	02TANGY	239134	02TANGY	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM239308	239308	02MR-ETH	239308	02MR-ETH	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-WVM240635	240635	02HARRIOT	240635	02HARRIOT	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-WVM240637	240637	02URECMITCHL	240637	02URECMITCHL	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-WVM240706	240706	02NATIONAL	240706	02NATIONAL	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-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-WVM239278	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242941	242941	05OHIOCT	242941	05OHIOCT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM241968	241968	AD1-140 TAP	241968	AD1-140 TAP	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM240709	240709	02N TITUS	240709	02N TITUS	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-WVM240710	240710	02MELISSA	240710	02MELISSA	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-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-WVD242933	242933	05RPMONE	242933	05RPMONE	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243149	243149	05W.LANCAST1	243149	05W.LANCAST1	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-SVD243146	243146	05WHEBRO	243146	05WHEBRO	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-SVD243145	243145	05WCOSHC	243145	05WCOSHC	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-N11-SVD243107	243107	05SPENCR	243107	05SPENCR	N/A	138	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-WVD242931	242931	05BEVERL	242931	05BEVERL	N/A	345	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-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-WVD242940	242940	05MUSKNG	242940	05MUSKNG	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243104	243104	05SLANCS	243104	05SLANCS	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-SVD243098	243098	05SHARPR	243098	05SHARPR	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-SVD243094	243094	05SCOSHC	243094	05SCOSHC	N/A	138	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
2025W1-N11-WVD242956	242956	05BALLHL	242956	05BALLHL	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-SVD243074	243074	05PHILO1	243074	05PHILO1	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-SVD243070	243070	05OHIOCT	243070	05OHIOCT	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-SVD243068	243068	05NZANEV	243068	05NZANEV	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-SVD243063	243063	05N.NEWARK1	243063	05N.NEWARK1	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-WVD242950	242950	05ACADEM	242950	05ACADEM	N/A	138	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-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-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-SVD243062	243062	05NMUSKG	243062	05NMUSKG	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-SVD243058	243058	05NEWARK CTR	243058	05NEWARK CTR	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
2025W1-N11-SVD243044	243044	05MILLWO	243044	05MILLWO	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

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2025W1-N11-SVD243025	243025	05JUNCTN	243025	05JUNCTN	N/A	138	205	N-1-1 Voltage Drop	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-WVD239134	239134	02TANGY	239134	02TANGY	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243475	243475	05BLEND0	243475	05BLEND0	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-SVD243474	243474	05BLACKL	243474	05BLACKL	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-N11-SVD243473	243473	05BIXBY	243473	05BIXBY	N/A	138	205	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-WVD240533	240533	02OSTUMBO	240533	02OSTUMBO	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243466	243466	05ASTOR	243466	05ASTOR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM58	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD240635	240635	02HARRIOT	240635	02HARRIOT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243461	243461	05ROBRT1	243461	05ROBRT1	N/A	345	205	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-WVD239218	239218	02SSCIOT	239218	02SSCIOT	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243472	243472	05BEXLEY	243472	05BEXLEY	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
2025W1-N11-SVD243471	243471	05BETHEL	243471	05BETHEL	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

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2025W1-N11-SVD243469	243469	05BEATTY	243469	05BEATTY	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-N11-SVD243467	243467	05E.BROAD3	243467	05E.BROAD3	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM62	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243459	243459	05KIRK	243459	05KIRK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM61	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD240709	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243458	243458	05HYATT	243458	05HYATT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM60	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD240710	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243457	243457	05HAYDEN	243457	05HAYDEN	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-N11-SVD243456	243456	05CORRID	243456	05CORRID	N/A	345	205	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	02URECMITCHL	240637	02URECMITCHL	N/A	138	202	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-SVD243160	243160	05WTRNWY	243160	05WTRNWY	N/A	138	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-WVD241957	241957	AC2-195 TAP	241957	AC2-195 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243455	243455	05CONES	243455	05CONES	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241968	241968	AD1-140 TAP	241968	AD1-140 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-WVD241980	241980	AD2-163_POI	241980	AD2-163_POI	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-WVD241987	241987	AE2-217_POI	241987	AE2-217_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-WVD238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238574	238574	02BELPT+	238574	02BELPT+	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-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-N11-WVD238667	238667	02DUALR+	238667	02DUALR+	N/A	138	202	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-WVD238703	238703	02ESPRNG	238703	02ESPRNG	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-WVD238745	238745	02GALION	238745	02GALION	N/A	345	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-WVD238746	238746	02GALION	238746	02GALION	N/A	138	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-WVD238600	238600	02CAIRNS	238600	02CAIRNS	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-WVD238605	238605	02CARDNT	238605	02CARDNT	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-WVD238623	238623	02CLARK	238623	02CLARK	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-WVD238640	238640	02CRISS	238640	02CRISS	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-GD-LL102	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-SVM40	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	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-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-SVD243486	243486	05CLINTX	243486	05CLINTX	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-N11-SVD243485	243485	05CLINTO	243485	05CLINTO	N/A	138	205	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-GD-LL10	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-SVM41	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM48	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD238969	238969	02MRGP +	238969	02MRGP +	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243480	243480	05BUCKYST_BP	243480	05BUCKYST_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM47	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD239028	239028	02ONTARO	239028	02ONTARO	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243479	243479	05BROOKS	243479	05BROOKS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM46	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD239073	239073	02ROBERT	239073	02ROBERT	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-SVD243478	243478	05BRKSHR	243478	05BRKSHR	N/A	138	205	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-WVD238906	238906	02LNGVEW	238906	02LNGVEW	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243484	243484	05CITYCO	243484	05CITYCO	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-SVD243483	243483	05CRCLVS	243483	05CRCLVS	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-N11-SVD243482	243482	05CENTBG	243482	05CENTBG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL109	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-SVM49	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD238964	238964	02MLCRK+	238964	02MLCRK+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243481	243481	05CANAL	243481	05CANAL	N/A	138	205	N-1-1 Voltage Drop	Included

New Flowgates

Confidential Information

Financial Information

Capital spend start date 03/2026

Construction start date 06/2028

Project Duration (In Months) 51

Cost Containment Commitment

Cost cap (in current year) Confidential Information

Cost cap (in-service year) Confidential Information

Components covered by cost containment

1. West Glade Run 765 kV and 345 kV Yards and Transformation - ATSI
2. West Glade Run - Beatty 345 kV Line - ATSI
3. West Glade Run - Hayden 345 kV No. 1 and No. 2 Lines - ATSI
4. Belmont - West Millersport 765 kV Line - ATSI
5. 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.