

345kV/765kV Combined Project

General Information

Proposing entity name	Confidential
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Confidential
Company proposal ID	Confidential
PJM Proposal ID	907
Project title	345kV/765kV Combined Project
Project description	345kV Solution + 765kV Solution The proposed Project represents a comprehensive system enhancement that will resolve 626 thermal flowgates and 1044 voltage flowgates in the FE-ATSI and AEP zones respectively by creating a parallel path to the existing 138kV infrastructure in FE-ATSI area and reinforcing the 765kV network around the Marysville and Vassell substations. The solution strengthens both the 765kV and 345kV networks from a thermal and voltage stability perspective under critical N-1-1 outages affecting either network. The solution is also robust enough to accommodate load growth not only in the FE and AEP areas, but also in the AES Dayton system, due to the extension of the 765kV and 345kV corridors around the greater Columbus area. The solution consists of nine greenfield components to be built by the Project Team and seven station/line upgrades by incumbents.
Email	Confidential
Project in-service date	03/2032
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	Confidential

Project Components

1. 345kV Greenfield Transmission Line from 345kV Transmission Line Upgrades to New 345kV Madison Yard Greenfield Station
2. 345kV Greenfield Transmission Line (Double Circuit) from 345kV Madison Yard Greenfield Station to Existing 138kV Melissa Station
3. 345kV Greenfield Transmission Line from 345kV Madison Yard Greenfield Station to 765/345kV New Greenfield Station
4. 765kV Greenfield Transmission Line from Existing 765kV Marysville Station to New 765kV Fostoria Yard Greenfield Station
5. 765kV Greenfield Transmission Line from Existing 765kV Marysville Station to Existing 765kV Vassell Stations
6. 765kV Greenfield Transmission Line from Marysville Station to 765/345kV Greenfield Station
7. 345kV Madison Yard Greenfield Station
8. 765/345kV New Greenfield Station
9. 765kV Fostoria Yard Greenfield Station
10. 345kV Greene Station Upgrade
11. 345kV Madison Station Upgrade
12. 345/138kV Melissa Station Upgrade
13. 765kV Marysville Station Upgrade
14. 345kV Fostoria Central Station Upgrade
15. 765kV Vassell Station Upgrade
16. 345kV Transmission Line Upgrades from Existing 345kV Greene Station to New 345kV Greenfield Transmission Line

Greenfield Transmission Line Component

Component title	345kV Greenfield Transmission Line from 345kV Transmission Line Upgrades to New 345kV Madison Yard Greenfield Station	
Project description	Confidential	
Point A	Greene Station	
Point B	345kV Madison Yard Greenfield Station	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	1494.000000	1872.000000
Winter (MVA)	1689.000000	2074.000000

Conductor size and type	Two (2) 954 kcmil ACSR "Cardinal" conductors per phase
Nominal voltage	AC
Nominal voltage	345
Line construction type	Overhead
General route description	The 16 mile line travels generally east - west. The route is primarily through farm fields and 100% of this greenfield circuit follows (parallels) an existing transmission ROW.
Terrain description	The terrain for the route is largely characterized as generally flat and primarily traverses farmlands. There are some soft, rolling grade differences (not quite hills) on the eastern end of the route.
Right-of-way width by segment	The new transmission line will require a new right of way assumed to be 100-ft wide. The ROW widths have been selected to meet with NESC blowout requirements and minimize footprint impacts to surrounding areas.
Electrical transmission infrastructure crossings	Overhead Crossing of a 69kV line, Overhead crossing of two (2) 138kV lines in the same ROW
Civil infrastructure/major waterway facility crossing plan	Refer to attached crossing plan attached pdf

Environmental impacts	The Greene to Madison (Segment 2) route was designed to minimize impacts on physical & environmental resources by using overhead transmission (OH) and placing structures/spans to avoid impacts to resources. The second segment of this route proposes to co-locate on existing transmission ROW to minimize impacts. Specific considerations that were evaluated include: Wetlands: Where feasible, permanent structures (towers) will be placed outside of wetlands. Construction workspace will be minimized and where avoidance is unfeasible, wetland access/timber support mats will be used to minimize rutting & soil displacement. Appropriate wetland mitigation and restoration will occur. Waterways: Waterways will be spanned via OH lines and structures will be placed above the ordinary high-water mark where possible. Temporary construction mat bridges & culverts will be used to cross smaller streams where equipment travel is needed. Structures will be sited outside floodzones where feasible. Forest & Riparian Habitat: This route crosses ~1.5 miles of forested land. The Project will adhere to bat & migratory bird TOYR for tree clearing & will minimize the amount of tree clearing to the extent possible. Terrestrial Wildlife: No significant impacts to terrestrial wildlife are anticipated. The Project will plan construction activities to avoid critical breeding/migration periods in accordance with agency consultation. Sensitive Species/Natural Areas: The Project will consult with Ohio DNR & U.S. Fish and Wildlife Service to identify sensitive species that may occur in the route area. No critical habitat or designated natural areas are expected to be impacted. Farmland/Conservation Easements: The Project will coordinate with landowners and agencies to minimize impacts on Ag land and conservation easements. Four agricultural easements appear to be crossed by this route. Cultural: This route is not within 1,000 feet of known National Register of Historic Places. The Project Team will complete Phase I cultural surveys and consult with regulatory agencies regarding survey findings. Recreational: This route crosses a recreational trail north of Old Town/Xenia & is 0.2 miles north of the Great Council State Park. The Project proposes to use existing transmission structures to install this line therefore no direct impact to this area is anticipated. Federal/State Land: No federal or stated owned land is anticipated to be crossed by the route based on desktop reviews.
Tower characteristics	This 345kV single circuit will utilize Monopoles in a delta configuration.
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential

Construction management	Confidential
Overheads & miscellaneous costs	Confidential
Contingency	Confidential
Total component cost	\$63,987,623.23
Component cost (in-service year)	\$74,539,197.55

Greenfield Transmission Line Component

Component title	345kV Greenfield Transmission Line (Double Circuit) from 345kV Madison Yard Greenfield Station to Existing 138kV Melissa Station	
Project description	Confidential	
Point A	345kV Madison Yard Greenfield Station	
Point B	Melissa Station	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	1494.000000	1872.000000
Winter (MVA)	1689.000000	2074.000000
Conductor size and type	Two (2) 954 kcmil ACSR "Cardinal" conductors per phase, Two (2) circuits	
Nominal voltage	AC	
Nominal voltage	345	
Line construction type	Overhead	
General route description	The 345kV line will be approximately 12.7 miles and travels generally southeast - northwest from the greenfield station 345kV Madison Yard to the existing Melissa 345kV station.	
Terrain description	The terrain for the route is largely characterized as generally flat and primarily traverses farmlands.	

Right-of-way width by segment	The new transmission line will require a new right of way assumed to be 100-ft wide. The ROW widths have been selected to meet with NESC blowout requirements and minimize footprint impacts to surrounding areas.
Electrical transmission infrastructure crossings	Overhead Crossing of East Springfield - Tap OH 138kV and London - East Springfield OH 138kV (in same ROW), Overhead OH Crossing of a 69kV line
Civil infrastructure/major waterway facility crossing plan	Refer to attached crossing plan - attached pdf
Environmental impacts	The Madison to Melissa route was designed to minimize impacts on physical and environmental resources by using overhead transmission (OH), positioning structures/spans to avoid direct resource impacts and routing within agricultural land. Physical and environmental considerations that were evaluated to minimize resource impacts include: Wetlands: Where feasible, permanent structures (towers) will be placed outside of wetlands. Construction workspace will be minimized and where avoidance is unfeasible, wetland access/timber support mats will be used to minimize rutting & soil displacement. Appropriate wetland mitigation and restoration will occur. Waterways: All surface waters will be spanned via OH transmission lines and structures will be placed above the ordinary high-water mark. Temporary construction mat bridges & culverts will be used to cross smaller streams if needed. Structures will be sited outside flood zones where feasible. Forest/Riparian Habitat: This route crosses ~0.3 mile of forested land. The Project will adhere to applicable bat and migratory bird TOYR for tree clearing activities. Terrestrial Wildlife: No significant impacts to terrestrial wildlife are anticipated; activities will be planned to avoid critical breeding/migration periods in accordance with agency consultation. Sensitive Species/Natural Areas: The Project will consult with Ohio DNR and U.S. Fish and Wildlife Service to identify sensitive species that may occur in the route area. No critical habitat or designated natural areas are expected to be impacted. Farmland/Conservation Easements: The Project will coordinate with landowners and agencies to minimize impacts on Ag land and conservation easements. Based on initial desktop review, it appears nine agricultural easements may be crossed by the Madison to Melissa route; this information will be reviewed with the appropriate regulatory agencies and property owners upon a potential bid award to confirm details and potential restrictions of the easements if applicable. Cultural Resources: This route is not within 1,000 feet of known National Register of Historic Places. The Project will complete Phase I cultural surveys and consult with the State regarding survey findings. Recreational Areas: This route crosses a recreational trail (Prairie Grass Trail) south of Highway 42. Only short-term impacts to trail use are anticipated. Federal/State Land: No federal or stated owned land is anticipated to be crossed by the route.
Tower characteristics	Vertical double circuit monopoles
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	

Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential
Overheads & miscellaneous costs	Confidential
Contingency	Confidential
Total component cost	\$66,829,083.20
Component cost (in-service year)	\$77,849,214.94

Greenfield Transmission Line Component

Component title	345kV Greenfield Transmission Line from 345kV Madison Yard Greenfield Station to 765/345kV New Greenfield Station	
Project description	Confidential	
Point A	345kV Madison Yard Greenfield Station	
Point B	765/345kV New Greenfield Station	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	1918.000000	2274.000000
Winter (MVA)	2054.000000	2414.000000
Conductor size and type		
Nominal voltage	AC	

Nominal voltage	345
Line construction type	Overhead
General route description	A 24.6 mile circuit that travels generally west - east, paralleling the existing Madison - Beatty 345kV circuit. The route then turns north-south to the new station . The route is primarily through farm fields and roughly a quarter (22.4%) of this circuit parallels an existing ROW.
Terrain description	The terrain for the route is largely characterized as generally flat and primarily traverses farmlands.
Right-of-way width by segment	The new transmission line will require a new right of way assumed to be 100-ft wide. The ROW widths have been selected to meet with NESC blowout requirements and minimize footprint impacts to surrounding areas.
Electrical transmission infrastructure crossings	crossing overhead - London - East Springfield OH 138kV and Beatty - London Tap OH 138kV (same ROW), Madison -Beatty OH 345kV
Civil infrastructure/major waterway facility crossing plan	Refer to attached crossing plan attached pdf

Environmental impacts

The Madison to 765/345kV New Greenfield Station route was designed to minimize impacts on physical and environmental resources by using overhead transmission (OH), siting structures/spans to avoid direct resource impacts where feasible, and co-locating ~5.6 miles of the route with existing transmission ROW. Physical & environmental considerations that were evaluated to minimize resource impacts include: Wetlands: Construction workspace & temporary access roads will be located to minimize and/or avoid wetland impacts to the extent practicable. Where avoidance is unfeasible, timber matting will be used to minimize rutting and soil displacement. Appropriate wetland mitigation and restoration will occur. Structures will be sited outside floodzones where feasible. Waterways: All surface waters will be spanned via OH transmission lines and structures will be placed above the ordinary high-water mark. Temporary construction mat bridges & culverts will be used to cross smaller streams where equipment travel is needed. Structures will be placed outside of flood zones where feasible. Forested Area: Per desktop review, Based on desktop reviews, this route crosses ~1.0 mile of forested land. The Project will adhere to applicable bat and bird TOYR for tree clearing activities. Terrestrial Wildlife: No significant impacts to terrestrial wildlife are anticipated by construction of this route. The Project will plan construction activities to avoid breeding periods in accordance with agency consultation & permits. Sensitive Species/Natural Areas: The Project will consult with Ohio DNR and U.S. Fish and Wildlife Service to identify sensitive species that may occur in the route area. No critical habitat or designated natural areas are expected to be impacted. Farmland/Conservation Easements: The Project will coordinate with landowners and agencies to minimize impacts on Ag land and all Ag easements. Two agricultural easements are crossed by this route. Cultural Resources: Based on preliminary analysis, this route is not within 1,000 feet of known National Register of Historic Places properties. Phase I cultural surveys will be completed and consultation with the State Historic Preservation Office regarding survey findings will occur. Recreational Areas: This route crosses a recreational trail (Ohio to Erie Trail) south of Highway 42. Only minor, short-term impacts to trail use are anticipated. Federal/State Land: No federal or stated owned land is crossed by the route.

Tower characteristics

This 345kV single circuit will utilize Monopoles in a delta configuration.

Construction responsibility

Confidential

Benefits/Comments

Confidential

Component Cost Details - In Current Year \$

Engineering & design

Confidential

Permitting / routing / siting

Confidential

ROW / land acquisition

Confidential

Materials & equipment

Confidential

Construction & commissioning

Confidential

Construction management	Confidential	
Overheads & miscellaneous costs	Confidential	
Contingency	Confidential	
Total component cost	\$91,771,662.46	
Component cost (in-service year)	\$106,904,831.47	
Greenfield Transmission Line Component		
Component title	765kV Greenfield Transmission Line from Existing 765kV Marysville Station to New 765kV Fostoria Yard Greenfield Station	
Project description	Confidential	
Point A	Marysville	
Point B	765kV Fostoria Yard Greenfield Station	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	8189.000000	10550.000000
Winter (MVA)	9500.000000	11917.000000
Conductor size and type	Six (6) 795 kcmil ACSR "Mallard" conductors per phase	
Nominal voltage	AC	
Nominal voltage	765	
Line construction type	Overhead	
General route description	A 56.8 mile circuit that travels generally north - south. The route is primarily through farm fields.	
Terrain description	The terrain throughout the route is generally flat.	
Right-of-way width by segment	The entire circuit will be new 200-ft wide ROW.	

Electrical transmission infrastructure crossings	Crossing Below - Sorensen - Marysville OH 765kV, Overhead Crossing - East Lima – Marysville 345kV OH (2 circuits), Overhead Crossing - Two 138kV OH circuits
Civil infrastructure/major waterway facility crossing plan	Refer to attached crossing plan pdf
Environmental impacts	The Marysville – New 765kv Fostoria Yard route was designed to minimize impacts on physical and environmental resources by using overhead transmission (OH), positioning structures/spans to avoid direct resource impacts and routing within agricultural land. Specific physical and environmental considerations that were evaluated to minimize resource impacts include: Wetlands: Construction workspace and temporary access roads will be located to minimize and/or avoid wetland impacts to the extent practicable. Where avoidance is unfeasible, mitigation measures will be used including timber matting, invasive species mgmt plan and wetland setbacks for equipment storage. Appropriate wetland mitigation and restoration will occur. Structures will be sited outside floodzones where feasible. Waterways: All surface waters will be spanned via OH transmission lines and structures will be placed above the ordinary high-water mark. Temporary construction mat bridges & culverts will be used to cross smaller streams where equipment travel is needed. All efforts will be made to place structures outside of flood zones where feasible. Forest Habitat: Based on desktop reviews, this route crosses ~4.4 miles of forested land. The Project will adhere to applicable bat and migratory bird TOYR for tree clearing activities. Terrestrial Wildlife: No significant impacts to terrestrial wildlife are anticipated by construction of this route. Sensitive Species/Natural Areas: The Project will consult with Ohio DNR and U.S. Fish and Wildlife Service to identify sensitive species that may occur in the route area. No critical habitat or designated natural areas are expected to be impacted. Farmland/Conservation Land: The Project will coordinate with landowners and agencies to minimize impacts on Ag land and conservation easements. No agricultural easements were found along this route based on initial reviews. Cultural Resources: This route is not within 1,000 feet of known National Register of Historic Places. The Project will complete Phase I cultural surveys and consult with the State regarding survey findings. Recreational Areas: This route crosses a recreational trail south of Highway 36. Only minor, short-term impacts to trail use are anticipated during construction. No other designated recreational area will be affected. Federal and State Land: Based on initial desktop reviews of publicly available GIS data, no federal or stated owned land is crossed by the route.
Tower characteristics	Guyed Structured. Single monopole per phase - P.I. & Dead Ends
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential

ROW / land acquisition	Confidential	
Materials & equipment	Confidential	
Construction & commissioning	Confidential	
Construction management	Confidential	
Overheads & miscellaneous costs	Confidential	
Contingency	Confidential	
Total component cost	\$310,137,421.15	
Component cost (in-service year)	\$361,279,155.78	
Greenfield Transmission Line Component		
Component title	765kV Greenfield Transmission Line from Existing 765kV Marysville Station to Existing 765kV Vassell Stations	
Project description	Confidential	
Point A	Marysville	
Point B	Vassell	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	8189.000000	10550.000000
Winter (MVA)	9500.000000	11917.000000
Conductor size and type	Six (6) 795 kcmil ACSR "Mallard" conductors per phase	
Nominal voltage	AC	
Nominal voltage	765	
Line construction type	Overhead	

General route description	The route is 42.5 miles long and it travels through 2 counties. It primarily goes through farm fields, and is generally flat. The first section stays in an east-west direction, to stay north of Delaware, Ohio. The second section starts to head south, in the vicinity of I-71, towards Vassel, coming in from the east of the station.
Terrain description	The terrain throughout the route is generally flat.
Right-of-way width by segment	The entire circuit will be new 200-ft wide ROW.
Electrical transmission infrastructure crossings	Crossing Below - Marysville – Maliszewski OH 765kV, Crossing Below- Marysville – Flatlick OH 765kV, Overhead Crossing - Four 69kV OH lines, Overhead Crossing - Two 138kV OH Lines
Civil infrastructure/major waterway facility crossing plan	Refer to attached crossing plan pdf
Environmental impacts	The Marysville to Vassell route was designed to minimize impacts on physical and environmental resources by using overhead (OH) transmission, positioning structures/spans to avoid resource impacts where feasible, & routing within largely agricultural land. Specific physical and environmental considerations that were evaluated to minimize impacts include: Wetlands: Where feasible, permanent structures (towers/poles) will be placed outside of wetland areas. The construction workspace will be reduced to the extent practicable to minimize wetland disturbances. Temporary construction roads will be positioned within the construction right-of-way to avoid wetlands. Where avoidance is unfeasible, mitigation measures will be used including timber matting. Waterways: All surface waters will be spanned via OH transmission lines and structures will be placed above the ordinary high-water mark. Temporary construction mat bridges & culverts will be used to cross smaller streams where equipment travel is needed. Larger streams will not be spanned by temporary equipment bridges. Structures will be sited outside flood zones where feasible. Multiple larger waterways will be crossed by this route including the Scioto River, the Olentangy River, and Big Walnut Creek. Forest and Riparian Habitat: Per desktop review, this route crossed ~6.7 miles of forested land. The Project will adhere to applicable bat and bird TOYR for tree clearing activities. Terrestrial Wildlife: No significant impacts are anticipated by construction of the route; activities will avoid critical breeding or migration periods in accordance with permits. Sensitive Species: The Project will consult with Ohio DNR and U.S. Fish and Wildlife Service to identify sensitive species that may occur in the route area. No critical habitat or designated natural areas are expected to be impacted. Farmland and Easements: The Project will coordinate with landowners and agencies to minimize impacts on Ag land and conservation easements. No agricultural easements are crossed by this route. Cultural Resources: The route is not within 1,000 feet of any mapped National Register of Historic Places. The Project will complete Phase I cultural surveys. Recreational Areas: This route crosses a recreational trail south of Highway 36. Only minor, short-term impacts to trail use are anticipated while the line is strung across the trail. Federal and State Land: No federal or stated owned land is crossed by the route.
Tower characteristics	Guyed Structured. Single monopole per phase - P.I. & Dead Ends

Construction responsibility	Confidential	
Benefits/Comments	Confidential	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential	
Permitting / routing / siting	Confidential	
ROW / land acquisition	Confidential	
Materials & equipment	Confidential	
Construction & commissioning	Confidential	
Construction management	Confidential	
Overheads & miscellaneous costs	Confidential	
Contingency	Confidential	
Total component cost	\$263,254,737.44	
Component cost (in-service year)	\$306,665,506.36	
Greenfield Transmission Line Component		
Component title	765kV Greenfield Transmission Line from Marysville Station to 765/345kV Greenfield Station	
Project description	Confidential	
Point A	Marysville	
Point B	New 765kV/345kV Station	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	8189.000000	10550.000000

Winter (MVA)	9500.000000	11917.000000
Conductor size and type	Six (6) 795 kcmil ACSR "Mallard" conductors per phase	
Nominal voltage	AC	
Nominal voltage	765	
Line construction type	Overhead	
General route description	A 20.2 mile circuit that travels generally north - south. The route is primarily through farm fields. Roughly 18% of this circuit follows existing transmission ROW.	
Terrain description	The terrain throughout the route is generally flat farm fields.	
Right-of-way width by segment	The entire circuit will be new 200-ft wide ROW.	
Electrical transmission infrastructure crossings	Overhead Crossing - 69kV OH Line, Overhead Crossing - Two 138kV OH Lines	
Civil infrastructure/major waterway facility crossing plan	Guyed Structured. Single monopole per phase - PI & Dead Ends"	

Environmental impacts

The Marysville to Resaca route was designed to minimize impacts on physical and environmental resources by using overhead (OH) transmission, positioning structures and spans to avoid direct resource impacts where feasible, and routing within predominantly agricultural land. Specific physical and environmental considerations that were evaluated to minimize resource impacts include: Wetlands: Where feasible, permanent structures (i.e. transmission towers/poles) will be placed outside of wetland areas. The construction workspace will be reduced to the extent practicable to minimize wetland disturbances. Temporary construction roads will be positioned within the construction right-of-way to avoid wetlands to the extent practicable and wetland/timber matting will be used where needed. Waterways: All surface waters will be spanned via OH transmission lines and structures will be placed above the ordinary high-water mark. Temporary construction mat bridges & culverts will be used to cross smaller streams where equipment travel is needed. Larger streams will not be spanned by temporary equipment bridges. Structures will be sited outside flood zones where feasible. Forest and Riparian Habitat: Per desktop review, this route crosses 2.9 miles of forested land. The Project will adhere to applicable bat and migratory bird TOYR for tree clearing activities. Terrestrial Wildlife: No significant impacts are anticipated by construction of the route; activities will avoid critical breeding or migration periods in accordance with permit. Sensitive Species: The Project will consult with Ohio DNR and U.S. Fish and Wildlife Service to identify sensitive species that may occur in the route area. No critical habitat or designated natural areas are expected to be impacted. Farmland/Conservation Easements: The Project will coordinate with landowners and agencies to minimize impacts on Ag land and conservation easements. No agricultural easements are crossed by this route. Cultural: The proposed route is 800 ft southwest of the historic Bigelow Covered Bridge. The Project will ensure that appropriate procedures/visual impact analysis occur per permit requirements and the bridge is protected during construction as appropriate. The Project will complete Phase I cultural surveys for this route. Federal and State Land: No federal or stated owned land is crossed by the route.

Tower characteristics

Construction responsibility

Confidential

Benefits/Comments

Confidential

Component Cost Details - In Current Year \$

Engineering & design

Confidential

Permitting / routing / siting

Confidential

ROW / land acquisition

Confidential

Materials & equipment

Confidential

Construction & commissioning

Confidential

Environmental assessment	The New 345 kV Madison Yard will be sited in agricultural land adjacent to an existing substation. No effects on forested/wooded areas, wetlands, waterbodies, flood zones, sensitive species habitat, or recreational uses are anticipated based on the Project's initial desktop reviews and diligence. Phase I cultural surveys will be completed and consultations will occur with the State Historic Preservation Office regarding survey findings. The Project team will also coordinate with state, county, and local agencies to obtain any necessary zoning, stormwater, erosion and sediment control authorizations, and comply with setback requirements that may apply to the Project. The Project will design construction and post-construction erosion and sediment control and stormwater management plans for agency review and approval.
Outreach plan	Refer to Land Acquisition Plan-Coordination included in this proposal.
Land acquisition plan	Refer to Land Acquisition Plan-Coordination included in this proposal.
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential
Overheads & miscellaneous costs	Confidential
Contingency	Confidential
Total component cost	\$70,124,959.89
Component cost (in-service year)	\$81,688,582.48
Greenfield Substation Component	
Component title	765/345kV New Greenfield Station

Project description	Confidential		
Substation name	New 765/345 kV Station		
Substation description	Engineer and construct a new 765 kV Substation consisting of seven (7) 765 kV circuit breakers, four (4) of which will be arranged in a four (4) breaker ring bus configuration, and three (3) used as head breakers for shunt reactors on each transmission line. The new substation will also house four (4) single phase 765/345 kV transformers (750/833 MVA each, total of 2250/2500 MVA) and one (1) 345 kV dead tank circuit breaker on the low side of the power transformer. One (1) control house, and all the necessary (345 and 765 kV) disconnect switches, CCVTs, surge arrestors, bus and hardware.		
Nominal voltage	AC		
Nominal voltage	765/345		
Transformer Information			
	Name		Capacity (MVA)
Transformer	T1		2500
	High Side	Low Side	Tertiary
Voltage (kV)	765	345	13.8
Major equipment description	765/345kV transformers, 765 kV dead tank circuit breaker, 345 kV dead tank circuit breaker, 765 kV disconnect switch, 765 kV reactors, 345 kV disconnect switches, and a control house.		
	Normal ratings		Emergency ratings
Summer (MVA)	2250.000000		2500.000000
Winter (MVA)	2250.000000		2500.000000

Environmental assessment	The New 765 - 345kV Yard will be sited in agricultural land adjacent to an existing 765kV transmission line. No effects on forested/wooded areas, wetlands, waterbodies, flood zones, sensitive species habitat, or recreational uses are anticipated based on the Project's initial desktop reviews and diligence. Phase I cultural surveys will be completed and consultations will occur with the State Historic Preservation Office regarding survey findings. The Project team will also coordinate with state, county, and local agencies to obtain any necessary zoning, stormwater, erosion and sediment control authorizations, and comply with setback requirements that may apply to the Project. The Project will design construction and post-construction erosion and sediment control and stormwater management plans for agency review and approval.
Outreach plan	Refer to Land Acquisition Plan-Coordination included in this proposal.
Land acquisition plan	Refer to Land Acquisition Plan-Coordination included in this proposal.
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential
Overheads & miscellaneous costs	Confidential
Contingency	Confidential
Total component cost	\$330,169,885.12
Component cost (in-service year)	\$384,614,977.84
Greenfield Substation Component	
Component title	765kV Fostoria Yard Greenfield Station

Project description	Confidential		
Substation name	765 kV Fostoria Central Yard		
Substation description	Engineer and construct a new substation consisting of one (1) 345 kV dead tank circuit breaker, two (2) three (3) phase 345 kV disconnect switches, four (4) single phase 345 kV disconnect switches, one (1) 765 kV dead tank circuit breaker, ten (10) single phase 765 kV disconnect switches, four (4) single phase 765/345 kV transformers (750/833 MVA each, total of 2250/2500 MVA), one (1) control house, and associated 345 & 765 kV bus and hardware.		
Nominal voltage	AC		
Nominal voltage	765		
Transformer Information			
	Name	Capacity (MVA)	
Transformer	T1	2500	
	High Side	Low Side	Tertiary
Voltage (kV)	765	345	13.8
Major equipment description	765 kV dead tank circuit breaker, 345 kV dead tank circuit breaker, 765 kV disconnect switch, 345 kV disconnect switches, and a control house.		
	Normal ratings		Emergency ratings
Summer (MVA)			
Winter (MVA)			

Environmental assessment	The New 765kV Fostoria Central Yard will be sited in agricultural land adjacent to an existing substation. No effects on forested/wooded areas, wetlands, waterbodies, flood zones, sensitive species habitat, or recreational uses are anticipated based on the Project's initial desktop reviews and diligence. Phase I cultural surveys will be completed and consultations will occur with the State Historic Preservation Office regarding survey findings. The Project team will also coordinate with state, county, and local agencies to obtain any necessary zoning, stormwater, erosion and sediment control authorizations, and comply with setback requirements that may apply to the Project. The Project will design construction and post-construction erosion and sediment control and stormwater management plans for agency review and approval.
Outreach plan	Refer to land acquisition plan reference as part of this proposal.
Land acquisition plan	Refer to land acquisition plan reference as part of this proposal.
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential
Overheads & miscellaneous costs	Confidential
Contingency	Confidential
Total component cost	\$154,354,677.05
Component cost (in-service year)	\$179,807,800.07
Substation Upgrade Component	
Component title	345kV Greene Station Upgrade

Project description	Confidential
Substation name	Greene
Substation zone	Dayton
Substation upgrade scope	Create a new 345 kV position in the Greene Substation by engineering and constructing one (1) new 345 kV dead tank circuit breaker, three (3) 345 kV disconnect switches, 345 kV string bus, associated 345 kV bus and hardware, and shifting two (2) existing transmission lines in order to install the new transmission line on the Western section of the substation.
Transformer Information	
None	
New equipment description	345 kV dead tank circuit breakers and disconnect switches
Substation assumptions	The Greene Substation is currently arranged in a six (6) breaker ring bus. There is space within the boundaries of the existing substation to install a new 345 kV dead tank breaker and associated disconnect switches. We assumed there is adequate space in the existing controls room to accommodate the new protection and control and instruments needed to support this solution.
Real-estate description	Refer to land acquisition plan included as part of this proposal.
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential
Overheads & miscellaneous costs	Confidential

Contingency	Confidential
Total component cost	\$16,545,502.24
Component cost (in-service year)	\$19,273,859.50
Substation Upgrade Component	
Component title	345kV Madison Station Upgrade
Project description	Confidential
Substation name	Madison Station
Substation zone	
Substation upgrade scope	Extend the two (2) main buses of the 345 kV yard via a string bus between the existing Madison Substation and the new substation to the South.
Transformer Information	
None	
New equipment description	No major equipment will be needed to support this solution.
Substation assumptions	Madison Substation is arranged in a breaker and half scheme, this solution the two (2) main 345 kV buses can be extended to the new substation where a bus section breaker will be used to connect and to protect both stations.
Real-estate description	
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential

Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential
Overheads & miscellaneous costs	Confidential
Contingency	Confidential
Total component cost	\$911,275.04
Component cost (in-service year)	\$1,061,544.51
Substation Upgrade Component	
Component title	345/138kV Melissa Station Upgrade
Project description	Confidential
Substation name	Melissa
Substation zone	ATSI
Substation upgrade scope	This solution assumes the Melissa 138 kV Substation has completed its construction and accept two (2) additional line positions from an expanded 345 kV Substation. The 345 kV substation will be arranged as a four (4) breaker ring bus, with four (4) 345 kV dead tank breakers, twelve (12) 345 kV disconnect switches, two (2) 345/138 transformer (rated for 750 MVA), one (1) control house, and associated 345 kV bus and hardware.
Transformer Information	
None	
New equipment description	345 kV dead tank breakers, disconnect switches, 345/138 kV transformers, and one (1) control house.
Substation assumptions	This solution assumes the Melissa 138 kV Substation will be completed on schedule.
Real-estate description	
Construction responsibility	Confidential

Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential
Overheads & miscellaneous costs	Confidential
Contingency	Confidential
Total component cost	\$100,173,191.12
Component cost (in-service year)	\$116,691,774.20
Substation Upgrade Component	
Component title	765kV Marysville Station Upgrade
Project description	Confidential
Substation name	Marysville
Substation zone	AEP
Substation upgrade scope	Create three (3) new 765 kV position in the Marysville Station by engineering and constructing an extension of the 765 kV substation consisting of seven (7) 765 kV circuit breakers (21 single pole breakers), three (3) 765 kV transmission lines, fifty-one (51) single phase 765 kV disconnect switches, one (1) control house, and associated 765 kV bus and hardware. The expansion of the Marysville Station will also require extending both 765 kV main buses via two (2) new 765 kV string bus.
Transformer Information	

None	
New equipment description	765 kV dead tank breakers, disconnect switches, and a control house
Substation assumptions	The Marysville Station is arranged in a two (2) bay breaker and half scheme. Due to limited space to the South West on the existing station, this solution proposes expanding the station approximately 1200 feet South West of the existing station.
Real-estate description	
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential
Overheads & miscellaneous costs	Confidential
Contingency	Confidential
Total component cost	\$173,816,614.04
Component cost (in-service year)	\$202,479,015.10
Substation Upgrade Component	
Component title	345kV Fostoria Central Station Upgrade
Project description	Confidential
Substation name	Fostoria Central

Substation zone	AEP
Substation upgrade scope	Create a new 345 kV position in the Fostoria Central Substation by engineering and constructing one (1) new 345 kV dead tank circuit breaker, two (2) 345 kV disconnect switches, 345 kV string bus, associated 345 kV bus and hardware.
Transformer Information	
None	
New equipment description	345 kV dead tank breaker and disconnect switches
Substation assumptions	Fostoria Central Station is arranged as a five (5) breaker ring bus arrangement, consisting of four (4) 345 kV transmission lines and one (1) 345/138 kV XFMR position. There is space in the existing substation to add a new 345 kV position to support this solution.
Real-estate description	
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential
Overheads & miscellaneous costs	Confidential
Contingency	Confidential
Total component cost	\$8,723,957.64
Component cost (in-service year)	\$10,162,540.33

Substation Upgrade Component

Component title	765kV Vassell Station Upgrade
Project description	Confidential
Substation name	Vassell
Substation zone	AEP
Substation upgrade scope	Create a new 765 kV position in the Vassel Substation by engineering and constructing two (2) new 765 kV dead tank circuit breaker, fifteen (15) single phase 765 kV disconnect switches, associated 765 kV bus and hardware.

Transformer Information

None	
New equipment description	765 kV dead tank circuit breakers and disconnect switches
Substation assumptions	The Vassel Station is arranged in double bus double breaker scheme, this solution proposes installing two (2) additional breakers to create a new position within the boundaries of the existing fence.
Real-estate description	
Construction responsibility	Confidential
Benefits/Comments	Confidential
Component Cost Details - In Current Year \$	
Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential

Overheads & miscellaneous costs	Confidential	
Contingency	Confidential	
Total component cost	\$45,900,957.60	
Component cost (in-service year)	\$53,470,036.44	
Transmission Line Upgrade Component		
Component title	345kV Transmission Line Upgrades from Existing 345kV Greene Station to New 345kV Greenfield Transmission Line	
Project description	Confidential	
Impacted transmission line		
Point A	Greene 345kV Station	
Point B	New Madison 345kV Yard	
Point C		
Terrain description	Soft rolling hills through a wooded area with a meandering river.	
Existing Line Physical Characteristics		
Operating voltage	345	
Conductor size and type	Two (2) 954 kcmil ACSR "Cardinal" conductors per phase	
Hardware plan description	New hardware will be needed, as the targeted crossarms on the existing towers do not have hardware mounted on them.	
Tower line characteristics	Age and condition will need to be provided/verified by incumbent.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	345.000000	345.000000

	Normal ratings	Emergency ratings
Summer (MVA)	1494.000000	1872.000000
Winter (MVA)	1689.000000	2074.000000
Conductor size and type	Two (2) 954 kcmil ACSR "Cardinal" conductors per phase	
Shield wire size and type	not there currently	
Rebuild line length	5.4 Miles	
Rebuild portion description	5.4 miles of OH 345kV circuit shall be conductored, utilizing existing towers. It is assumed that the existing towers' crossarms are structurally capable to support the specified two conductors per phase, as the opposing crossarms also have two conductors per phase. It is also assumed that the existing towers are in adequate condition to support the new circuit.	
Right of way	It is assumed that all work will be completed within existing ROW. We do not believe the ROW will need expansion, nor will any new ROWs be necessary. The incumbent may utilize a temporary construction easement if they deem it is required.	
Construction responsibility	Confidential	
Benefits/Comments	Confidential	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential	
Permitting / routing / siting	Confidential	
ROW / land acquisition	Confidential	
Materials & equipment	Confidential	
Construction & commissioning	Confidential	
Construction management	Confidential	
Overheads & miscellaneous costs	Confidential	
Contingency	Confidential	

Total component cost \$9,283,400.00

Component cost (in-service year) \$10,814,234.87

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-SVD94061	0940610	AE2-048 TAP	940610	AE2-048 TAP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT1	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	Baseline Thermal	Included
2025W1-N1-WT2	243469	05BEATTY	241952	02DEERCREEK	1	138/138	205/202	Baseline Thermal	Included
2025W1-N1-WT3	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	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-N1-WT4	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-SVD29088	7290887	05ROCKHOPPER	290887	05ROCKHOPPER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT11	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N1-WT12	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N1-WT16	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N1-WT17	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-SVD29098	4290984	05BOKESCRK	290984	05BOKESCRK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT8	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	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-N1-WT10	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N1-WT5	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N1-WT6	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included

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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM243530	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-WVM243532	243588	05WILSON	243588	05WILSON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST143	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243572	243579	05STROUD	243579	05STROUD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243530	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-WVM243532	243581	05TAYLOR	243581	05TAYLOR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD960840	960840	AF2-375 TAP	960840	AF2-375 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD960800	960800	AF2-371 TAP	960800	AF2-371 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243572	243577	05STELZR	243577	05STELZR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST151	238529	02AIRPK+	238623	02CLARK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243590	243590	05WESTAR	243590	05WESTAR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST152	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243850	243856	05JUG ST 1-6	243856	05JUG ST 1-6	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243870	243876	05ST.CXX	243876	05ST.CXX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243902	243902	05HARDIN SW	243902	05HARDIN SW	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243903	243903	05GUNN RD SW	243903	05GUNN RD SW	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST154	240637	02URECMITCHL	240706	02NATIONAL	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243593	243593	05ZUBER	243593	05ZUBER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST155	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243765	243765	05FORD LIMA1	243765	05FORD LIMA1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243852	243854	05REAVAR	243854	05REAVAR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243855	243855	05JUG ST	243855	05JUG ST	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243591	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-WVM243592	243592	05YEARLG	243592	05YEARLG	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243548	243548	05MOUND ST	243548	05MOUND ST	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-WVD29088	290887	05ROCKHOPPER	290887	05ROCKHOPPER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24354	243549	05MULBRY	243549	05MULBRY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29088	290886	05ANGUIN 3-4	290886	05ANGUIN 3-4	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24355	243550	05OBETZ	243550	05OBETZ	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29094	290946	05CHATFLD_BP	290946	05CHATFLD_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24355	243551	05OSU	243551	05OSU	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29092	290925	05PARSONS2	290925	05PARSONS2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24354	243542	05MIFFLIN	243542	05MIFFLIN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24354	243545	05MILTON SS	243545	05MILTON SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST124	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24354	243547	05MORSE	243547	05MORSE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24355	243552	05PICKR8	243552	05PICKR8	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29098	290984	05BOKESCRK	290984	05BOKESCRK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24355	243553	05POLARS	243553	05POLARS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD29097	290978	05PATTONVLSS	290978	05PATTONVLSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST131	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24356	243560	05ROBERT	243560	05ROBERT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST136	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24356	243569	05SCIPPO	243569	05SCIPPO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST137	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24357	243570	05CLAYBN	243570	05CLAYBN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24357	243572	05SHANON	243572	05SHANON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD94061	940610	AE2-048 TAP	940610	AE2-048 TAP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24357	243574	05SUNBURY SS	243574	05SUNBURY SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD92701	927010	AC1-188 TAP	927010	AC1-188 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24356	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-WVM24356	243563	05ROZELL	243563	05ROZELL	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-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-ST140	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243575	243575	05ST.CLR	243575	05ST.CLR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD944230	944230	AF1-091 TAP	944230	AF1-091 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST141	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243576	243576	05ST.CLX	243576	05ST.CLX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST142	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD944530	944530	AF1-118 TAP	944530	AF1-118 TAP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243512	243512	05DIAMONDISS	243512	05DIAMONDISS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243511	243511	05GAY	243511	05GAY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243516	243516	05GREIF	243516	05GREIF	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243513	243513	05GENOA	243513	05GENOA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243508	243508	05ITALNV	243508	05ITALNV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243507	243507	05FIFTH	243507	05FIFTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243510	243510	05GAHANN	243510	05GAHANN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-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
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-GD-S131	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included

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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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-N11-WVD243456	243456	05CORRID	243456	05CORRID	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-WVD243455	243455	05CONES	243455	05CONES	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-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-N11-WVD243454	243454	05BIXBY	243454	05BIXBY	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVM13	238908	02LONDON	238908	02LONDON	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-WVM14	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	Baseline Voltage Magnitude	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-N11-WVD243471	243471	05BETHEL	243471	05BETHEL	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-WVD243469	243469	05BEATTY	243469	05BEATTY	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-WVD243473	243473	05BIXBY	243473	05BIXBY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WVD14	238908	02LONDON	238908	02LONDON	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N11-WVD243472	243472	05BEXLEY	243472	05BEXLEY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243465	243465	05ADDISO	243465	05ADDISO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243467	243467	05E.BROAD3	243467	05E.BROAD3	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD243466	243466	05ASTOR	243466	05ASTOR	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-WVD243363	243363	05REED	243363	05REED	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT29	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-WVD243361	243361	05RABER	243361	05RABER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT30	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-WVD243367	243367	05ROCKCR	243367	05ROCKCR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT31	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-WVD243366	243366	05ROB PK12	243366	05ROB PK12	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243334	243334	05MAGLEY	243334	05MAGLEY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243330	243330	05LINCOLN1	243330	05LINCOLN1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT26	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-WVD243342	243342	05MILAN	243342	05MILAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243338	243338	05MCKINLEY3	243338	05MCKINLEY3	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT18	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-WVD243375	243375	05SKINNRLKSS	243375	05SKINNRLKSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243372	243372	05SATURN	243372	05SATURN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243387	243387	05VANBUR	243387	05VANBUR	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-WVD243384	243384	05TRIER	243384	05TRIER	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-WVD243390	243390	05WAYNED	243390	05WAYNED	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243389	243389	05WALLEN	243389	05WALLEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243379	243379	05STATES	243379	05STATES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243378	243378	05SPY RUN2	243378	05SPY RUN2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243383	243383	05TILLMA	243383	05TILLMA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243381	243381	05SUMMIT	243381	05SUMMIT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-WT32	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	Baseline Thermal	Included

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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-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-WVD24308	243080	05RILEYC	243080	05RILEYC	N/A	138	205	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-WVD24308	243084	05RUTLAND1	243084	05RUTLAND1	N/A	138	205	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-WVD24307	243075	05POWELS	243075	05POWELS	N/A	138	205	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
2025W1-N11-WVD24310	243108	05STRLN	243108	05STRLN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24309	243094	05SCOSHC	243094	05SCOSHC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24309	243096	05SCUMBL	243096	05SCUMBL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24309	243098	05SHARPR	243098	05SHARPR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24309	243099	05SHAWNRR	243099	05SHAWNRR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24304	243048	05N WALD	243048	05N WALD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24305	243050	05NBELVL	243050	05NBELVL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24305	243051	05NDELPH	243051	05NDELPH	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-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
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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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-WVM24351	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-WVM24351	243518	05GROVES1	243518	05GROVES1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24352	243522	05HARRISON	243522	05HARRISON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24351	243513	05GENOA	243513	05GENOA	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24352	243527	05HYATTX	243527	05HYATTX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST107	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24352	243523	05HCREAN	243523	05HCREAN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST108	238908	02LONDON	240709	02N TITUS	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24352	243524	05HESS NORTH	243524	05HESS NORTH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24352	243525	05HUNTLEY1	243525	05HUNTLEY1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST110	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24352	243526	05HYATT	243526	05HYATT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24353	243531	05KIMBRY	243531	05KIMBRY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24353	243532	05KIRK	243532	05KIRK	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST116	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24353	243535	05LINWRT	243535	05LINWRT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24353	243536	05LS-II	243536	05LS-II	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24352	243528	05KARL ROAD	243528	05KARL ROAD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST113	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24352	243529	05KENNY	243529	05KENNY	N/A	138	205	N-1-1 Voltage Magnitude	Included

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2025W1-N11-ST118	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24353	243537	05MALIS	243537	05MALIS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST119	240637	02URECMITCHL	240706	02NATIONAL	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24353	243538	05MALISX	243538	05MALISX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST120	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24353	243539	05MARION RD	243539	05MARION RD	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST121	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24354	243540	05MCCOMB	243540	05MCCOMB	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24330	243309	05HILLCR	243309	05HILLCR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24343	243485	05CLINTO	243485	05CLINTO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24331	243313	05HUNT J	243313	05HUNT J	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24343	243486	05CLINTX	243486	05CLINTX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24331	243314	05HUNTR8	243314	05HUNTR8	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24343	243487	05CHK TAP Z	243487	05CHK TAP Z	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24331	243315	05ILLINO	243315	05ILLINO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24330	243304	05GUARDN	243304	05GUARDN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24330	243305	05HACIEN	243305	05HACIEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24330	243306	05HARPER	243306	05HARPER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24349	243494	05CTYPLN	243494	05CTYPLN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24349	243495	05DAVIDS	243495	05DAVIDS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24349	243497	05DELANO	243497	05DELANO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24349	243488	05CONESVILLE	243488	05CONESVILLE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24331	243316	05INDUST PK1	243316	05INDUST PK1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24349	243491	05CORRID	243491	05CORRID	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24332	243321	05KENDAL	243321	05KENDAL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24349	243492	05CORWIN	243492	05CORWIN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24332	243326	05LAOTTO	243326	05LAOTTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24349	243493	05CRVERD	243493	05CRVERD	N/A	138	205	N-1-1 Voltage Magnitude	Included

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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-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-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
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

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2025W1-N11-WVM24343	243482	05CENTBG	243482	05CENTBG	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24343	243483	05CRCLVS	243483	05CRCLVS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24343	243484	05CITYCO	243484	05CITYCO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24347	243476	05BOLINSMLSS	243476	05BOLINSMLSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24328	243284	05DUPONT	243284	05DUPONT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24347	243478	05BRKSHR	243478	05BRKSHR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24328	243288	05EGE	243288	05EGE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24347	243479	05BROOKS	243479	05BROOKS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24329	243291	05ENGLER	243291	05ENGLER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24343	243480	05BUCKYST_BP	243480	05BUCKYST_BP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD24329	243295	05GARRETT N	243295	05GARRETT N	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24311	243110	05STIFFI	243110	05STIFFI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24311	243117	05SULFRS	243117	05SULFRS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24312	243122	05SW LIM	243122	05SW LIM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24314	243145	05WCOSHC	243145	05WCOSHC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24314	243146	05WHEBRO	243146	05WHEBRO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24314	243147	05WILDCRK SS	243147	05WILDCRK SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24312	243125	05THAYER	243125	05THAYER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24313	243136	05W LIMA	243136	05W LIMA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24313	243137	05W.END FOS1	243137	05W.END FOS1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24314	243144	05WCAMBR	243144	05WCAMBR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24314	243148	05WINDFL	243148	05WINDFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24314	243149	05W.LANCAST1	243149	05W.LANCAST1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24315	243150	05WMILLP	243150	05WMILLP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24315	243151	05WMILLS	243151	05WMILLS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24315	243158	05WOOSTE	243158	05WOOSTE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24316	243160	05WTRNWY	243160	05WTRNWY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24315	243152	05W.MOULTON	243152	05W.MOULTON	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N11-WVD243152	243153	05WMTVER	243153	05WMTVER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243152	243155	05W.NEWTONSS	243155	05W.NEWTONSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243152	243157	05WOODLA	243157	05WOODLA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243562	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-WVD243562	243568	05SCIOTO	243568	05SCIOTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243562	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
2025W1-N11-WVD243572	243579	05STROUD	243579	05STROUD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W44	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-N11-WVD243577	243577	05STELZR	243577	05STELZR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W345	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	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-GD-W193	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-N11-WVD243572	243572	05SHANON	243572	05SHANON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W380	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-N11-WVD243576	243576	05ST.CLX	243576	05ST.CLX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W344	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	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-SVD247019	247019	05NEVILLE SS	247019	05NEVILLE 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-SVD24690	7246907	05W.CAMPUS	246907	05W.CAMPUS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24689	0246890	05HOPETN	246890	05HOPETN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24719	9247199	05AMLIN	247199	05AMLIN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24714	8247148	05SBLMSS	247148	05SBLMSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24708	3247083	05NPHISS	247083	05NPHISS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24706	7247067	05GOODHP	247067	05GOODHP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24749	7247497	05CLOUSE	247497	05CLOUSE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24733	6247336	05APPLE V SS	247336	05APPLE V SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24730	3247303	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-GD-W159	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-N11-SVD24671	6246716	05PHILLIPI	246716	05PHILLIPI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24652	3246523	05HYATT SW1	246523	05HYATT SW1	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-GD-W22	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-W375	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-W166	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-N11-SVD24676	1246761	05THREEC	246761	05THREEC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24675	3246753	05VASSEL	246753	05VASSEL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24675	2246752	05VASSEL	246752	05VASSEL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-GD-W164	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-N11-SVD24675	1246751	05VASSEL	246751	05VASSEL	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-GD-W19	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-N11-SVD24688	9246889	05BIERSR	246889	05BIERSR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24688	8246888	05BIERSR	246888	05BIERSR	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24685	1246851	05CULBERTSON	246851	05CULBERTSON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24676	5246765	05OUTERB	246765	05OUTERB	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-W371	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-W169	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD247972	247972	05CONDIT SS	247972	05CONDIT SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247931	1247931	05VINE_GS_X	247931	05VINE_GS_X	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247930	0247930	05FIDLSTX SS	247930	05FIDLSTX SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247980	0247980	05RUSTIC SS	247980	05RUSTIC SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247979	9247979	05NORFLD SS	247979	05NORFLD SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247623	3247623	05GROVES2	247623	05GROVES2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247562	2247562	05LOCKBOURNE	247562	05LOCKBOURNE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD247509	9247509	05HAYDEN	247509	05HAYDEN	N/A	138	205	N-1-1 Voltage Drop	Included
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	28247728	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-SVD288618	18288618	05NBY6 Z1	288618	05NBY6 Z1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288617	17288617	05NBY7	288617	05NBY7	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288616	16288616	05NBY6	288616	05NBY6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288615	15288615	05S.ROCKHOPR	288615	05S.ROCKHOPR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247980	30247980	05RUSTIC SS	247980	05RUSTIC SS	N/A	138	205	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-SVD288640	40288640	05DUBLINX	288640	05DUBLINX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288619	19288619	05NBY6 Z2	288619	05NBY6 Z2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288614	14288614	05ROCKHOPPZ2	288614	05ROCKHOPPZ2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288613	13288613	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-SVD288579	9288579	05FIESTA	288579	05FIESTA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288569	9288569	05BERMUDA	288569	05BERMUDA	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD270280	0270280	AF1-227 MAIN	270280	AF1-227 MAIN	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-WVD246302	246308	05NEWARKC_BP	246308	05NEWARKC_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246172	246177	05ANGUIN 1-2	246177	05ANGUIN 1-2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246310	246310	05MEIGS SW1Z	246310	05MEIGS SW1Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246021	246021	05W.LANCAST2	246021	05W.LANCAST2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246010	246010	05PHILO2	246010	05PHILO2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246155	246155	05FORD LIMA2	246155	05FORD LIMA2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246094	246094	05VINE_X	246094	05VINE_X	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245977	245977	05GRISTMILL	245977	05GRISTMILL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245994	245994	05GEMINI	245994	05GEMINI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245983	245983	05GRISTMILL	245983	05GRISTMILL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S482	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S209	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-GD-S407	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD246523	246523	05HYATT SW1	246523	05HYATT SW1	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246490	246490	05PHILO_BP	246490	05PHILO_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246385	246385	05JUGST 7-11	246385	05JUGST 7-11	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246373	246373	05SPY RUN1	246373	05SPY RUN1	N/A	138	205	N-1-1 Voltage Drop	Included
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-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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD245492	245492	05BABBIT 5-6	245492	05BABBIT 5-6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245491	245491	05BABBIT 3-4	245491	05BABBIT 3-4	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244991	244991	05HOWARD2	244991	05HOWARD2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244967	244967	05ELLISON_BP	244967	05ELLISON_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245422	245422	05W.END FOS2	245422	05W.END FOS2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245358	245358	05EMPEROR	245358	05EMPEROR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244936	244936	05MCKINLEY2	244936	05MCKINLEY2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245952	245952	05DLAWAR1	245952	05DLAWAR1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245905	245905	05NEW LIBR2	245905	05NEW LIBR2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245964	245964	05N.NEWARK2	245964	05N.NEWARK2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245962	245962	05DLAWAR3	245962	05DLAWAR3	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245832	245832	05LINCOLN2	245832	05LINCOLN2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245769	245769	05ADKINS	245769	05ADKINS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245875	245875	05HOWARD_BUC	245875	05HOWARD_BUC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245853	245853	05HESS SOUTH	245853	05HESS SOUTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245632	245632	05ARBOLES	245632	05ARBOLES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD245516	245516	05ROCKHILL2	245516	05ROCKHILL2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S201	253026	09GREENE	241968	AD1-140 TAP	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S34	253005	09BATH	253085	09URBANA	1	138	209	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

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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-IPD-W23	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD244230	244230	05SUNDAY SS	244230	05SUNDAY SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W16	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD244020	244020	05MINK	244020	05MINK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W17	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-W18	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD244023	244023	05COLE	244023	05COLE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W19	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD244022	244022	05COLE	244022	05COLE	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W14	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-W15	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD244935	244935	05MCKINLEY1	244935	05MCKINLEY1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244871	244871	05RIDGELY	244871	05RIDGELY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244672	244672	05ROB PK_XFL	244672	05ROB PK_XFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244566	244566	05LA RUE	244566	05LA RUE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244868	244868	05BRICE	244868	05BRICE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244745	244745	05BABBIT 1-2	244745	05BABBIT 1-2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD244489	244489	05FOGWELL	244489	05FOGWELL	N/A	138	205	N-1-1 Voltage Drop	Included
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-IPD-W2	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD243592	243592	05YEARLG	243592	05YEARLG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W3	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	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

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2025W1-N11-WVD243592	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-W54	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-W55	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	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-IPD-W13	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD243902	243902	05HARDIN SW	243902	05HARDIN SW	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243890	243890	05WOODSR	243890	05WOODSR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243915	243915	05BERRYWOOD	243915	05BERRYWOOD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243903	243903	05GUNN RD SW	243903	05GUNN RD SW	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243856	243856	05JUG ST 1-6	243856	05JUG ST 1-6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W10	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD243855	243855	05JUG ST	243855	05JUG ST	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W11	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD243877	243877	05DAWKNS	243877	05DAWKNS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W12	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD243876	243876	05ST.CXX	243876	05ST.CXX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W5	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-W6	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included

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2025W1-IPD-W7	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD243854	243854	05REAYER	243854	05REAYER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W8	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD243797	243797	05RUTLAND Z	243797	05RUTLAND Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W4	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-GD-S462	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-S398	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-S181	253005	09BATH	253085	09URBANA	1	138	209	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-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-S455	253005	09BATH	253085	09URBANA	1	138	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-S169	253005	09BATH	253085	09URBANA	1	138	209	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-S461	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S156	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-S154	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S389	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S151	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included

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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-S8	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-S390	253085	09URBANA	239278	02BRDVIE	1	138	202/209	Generation Deliverability	Included
2025W1-GD-S157	253005	09BATH	253085	09URBANA	1	138	209	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-S448	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-GD-S4	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD243544	243544	05MILPRD	243544	05MILPRD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-S385	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S139	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S138	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S137	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD243558	243558	05RIO	243558	05RIO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243551	243551	05OSU	243551	05OSU	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243550	243550	05OBETZ	243550	05OBETZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243553	243553	05POLARS	243553	05POLARS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD243552	243552	05PICKR8	243552	05PICKR8	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N11-WVD24354	243547	05MORSE	243547	05MORSE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24354	243545	05MILTON SS	243545	05MILTON SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24354	243549	05MULBRY	243549	05MULBRY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD24354	243548	05MOUND ST	243548	05MOUND ST	N/A	138	205	N-1-1 Voltage Drop	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-S449	253005	09BATH	253085	09URBANA	1	138	209	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-SVD29025	290254	05INNOVATION	290254	05INNOVATION	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24750	247501	05MUSK_E_XFL	247501	05MUSK_E_XFL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29024	290241	05SIFFORD	290241	05SIFFORD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24750	247509	05HAYDEN	247509	05HAYDEN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29023	290239	05HUMBOLDT	290239	05HUMBOLDT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24751	247513	05BOUTWELL	247513	05BOUTWELL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29023	290230	05CYPRUS12	290230	05CYPRUS12	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24756	247562	05LOCKBOURNE	247562	05LOCKBOURNE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24749	247497	05CLOUSE	247497	05CLOUSE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD29031	290313	05CONESV_XFL	290313	05CONESV_XFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24750	247500	05MUSK_D_XFL	247500	05MUSK_D_XFL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD28883	288835	05BLAIN_TAP	288835	05BLAIN_TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD29011	290113	05WESTFALL	290113	05WESTFALL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24762	247623	05GROVES2	247623	05GROVES2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD28952	289528	05MALIS	289528	05MALIS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD28911	289114	05BIG PLAIN	289114	05BIG PLAIN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24772	247728	05VASSEL_XFL	247728	05VASSEL_XFL	N/A	345	205	N-1-1 Voltage Magnitude	Included

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2025W1-N11-SVD288936	288936	05CELTIC	288936	05CELTIC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247741	247741	05HYATT SW2	247741	05HYATT SW2	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288729	288729	05SOUDER	288729	05SOUDER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247873	247873	05BRITTON	247873	05BRITTON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288727	288727	05CURLEYS	288727	05CURLEYS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288726	288726	05GREENCHPL	288726	05GREENCHPL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247930	247930	05FIDLSTX SS	247930	05FIDLSTX SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288724	288724	05CHENOWETH	288724	05CHENOWETH	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247931	247931	05VINE_GS_X	247931	05VINE_GS_X	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM247767	247767	05HAZELTON	247767	05HAZELTON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288778	288778	05CYPRUS	288778	05CYPRUS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247791	247791	05ELK	247791	05ELK	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288776	288776	05CYPRUS34	288776	05CYPRUS34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247862	247862	05TUSCANY	247862	05TUSCANY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288721	288721	05MACY	288721	05MACY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD288718	288718	05GILES	288718	05GILES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247972	247972	05CONDIT SS	247972	05CONDIT SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD288705	288705	05VASSEL2XFL	288705	05VASSEL2XFL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM247979	247979	05NORFLD SS	247979	05NORFLD SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246752	246752	05VASSEL	246752	05VASSEL	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290886	290886	05ANGUIN 3-4	290886	05ANGUIN 3-4	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246753	246753	05VASSEL	246753	05VASSEL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290884	290884	05GREENCHL34	290884	05GREENCHL34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246761	246761	05THREEC	246761	05THREEC	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290809	290809	05HORIZON	290809	05HORIZON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT6	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM246765	246765	05OUTERB	246765	05OUTERB	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-LLT1	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included

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2025W1-N11-SVD290620	290620	05MARYSVL_RM	290620	05MARYSVL_RM	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246907	246907	05W.CAMPUS	246907	05W.CAMPUS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290608	290608	05MARYSVL_RS	290608	05MARYSVL_RS	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246929	246929	05MADDOX	246929	05MADDOX	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290573	290573	05INNOVATION	290573	05INNOVATION	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD290779	290779	05JORDEN	290779	05JORDEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT7	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM246851	246851	05CULBERTSON	246851	05CULBERTSON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290690	290690	05GREENCHL12	290690	05GREENCHL12	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246888	246888	05BIERSR	246888	05BIERSR	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290679	290679	05BEACON	290679	05BEACON	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246889	246889	05BIERSR	246889	05BIERSR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290628	290628	05BADGER	290628	05BADGER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM246890	246890	05HOPETN	246890	05HOPETN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290534	290534	05LUTZ	290534	05LUTZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT14	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM247019	247019	05NEVILLE SS	247019	05NEVILLE SS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290516	290516	05CELTIC	290516	05CELTIC	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT15	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM247067	247067	05GOODHP	247067	05GOODHP	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-LLT16	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM247083	247083	05NPHISS	247083	05NPHISS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290459	290459	05MT PERRYSS	290459	05MT PERRYSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT17	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM24699	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-WVM24743	247435	05MUSKNG_ESZ	247435	05MUSKNG_ESZ	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290315	290315	05EMPEROR Z1	290315	05EMPEROR Z1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD290413	290413	05KILEVILLE	290413	05KILEVILLE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT18	238908	02LONDON	241987	AE2-217_POI	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM24719	247199	05AMLIN	247199	05AMLIN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290377	290377	05BRIE	290377	05BRIE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-LLT19	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM24737	247370	05MUSKINGUM1	247370	05MUSKINGUM1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24737	247373	05MUSKINGUM2	247373	05MUSKINGUM2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD290328	290328	05COSGRAY	290328	05COSGRAY	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24743	247434	05MUSKNG_DSZ	247434	05MUSKNG_DSZ	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24585	245853	05HESS SOUTH	245853	05HESS SOUTH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24595	245952	05DLAWAR1	245952	05DLAWAR1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24599	245994	05GEMINI	245994	05GEMINI	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM24601	246010	05PHILO2	246010	05PHILO2	N/A	138	205	N-1-1 Voltage Magnitude	Included
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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVM246751	246751	05VASSEL	246751	05VASSEL	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246370	246370	05HUNTLEY2	246370	05HUNTLEY2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246385	246385	05JUGST 7-11	246385	05JUGST 7-11	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246399	246399	05GLOBE MT Z	246399	05GLOBE MT Z	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM246523	246523	05HYATT SW1	246523	05HYATT SW1	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-GD-S24	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-S191	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-S23	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-GD-S28	253005	09BATH	253085	09URBANA	1	138	209	Generation Deliverability	Included
2025W1-N11-WVM244540	244540	05RHODES	244540	05RHODES	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245769	245769	05ADKINS	245769	05ADKINS	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245358	245358	05EMPEROR	245358	05EMPEROR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245491	245491	05BABBIT 3-4	245491	05BABBIT 3-4	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245492	245492	05BABBIT 5-6	245492	05BABBIT 5-6	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM245516	245516	05ROCKHILL2	245516	05ROCKHILL2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244560	244560	05ISABELLA	244560	05ISABELLA	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244745	244745	05BABBIT 1-2	244745	05BABBIT 1-2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244868	244868	05BRICE	244868	05BRICE	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM244871	244871	05RIDGELY	244871	05RIDGELY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD247106	247106	05VARNER	247106	05VARNER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S119	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247083	247083	05NPHISS	247083	05NPHISS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S120	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247132	247132	05ELLISN	247132	05ELLISN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247108	247108	05SOWERS	247108	05SOWERS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247001	247001	05YELLOW CK2	247001	05YELLOW CK2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247000	247000	05YELLOW CK1	247000	05YELLOW CK1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S116	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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-IPD-S129	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD247370	247370	05MUSKINGUM1	247370	05MUSKINGUM1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S130	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	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-IPD-S128	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD247316	247316	05SALERNO	247316	05SALERNO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S122	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S123	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247172	247172	05EBERSO	247172	05EBERSO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S124	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247434	247434	05MUSKNG_DSZ	247434	05MUSKNG_DSZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S96	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WT46	238623	02CLARK	241968	AD1-140 TAP	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD246752	246752	05VASSEL	246752	05VASSEL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT47	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included

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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-IPD-S100	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT50	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD246769	246769	05MINERR	246769	05MINERR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S101	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WVD246765	246765	05OUTERB	246765	05OUTERB	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246854	246854	05AUBURN2	246854	05AUBURN2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246851	246851	05CULBERTSON	246851	05CULBERTSON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246929	246929	05MADDOX	246929	05MADDOX	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S108	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT60	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD246907	246907	05W.CAMPUS	246907	05W.CAMPUS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S109	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-IPD-S104	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S105	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT57	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD246890	246890	05HOPETN	246890	05HOPETN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S106	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WVD246889	246889	05BIERSR	246889	05BIERSR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S102	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT52	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-IPD-S111	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD246993	246993	05PURDUE	246993	05PURDUE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246982	246982	05HUNT JT_BP	246982	05HUNT JT_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD246999	246999	05SORENS	246999	05SORENS	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S74	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243523	243523	05HCREAN	243523	05HCREAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT22	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S75	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243522	243522	05HARRISON	243522	05HARRISON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S76	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	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-SVD243526	243526	05HYATT	243526	05HYATT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT19	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-IPD-S72	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243525	243525	05HUNTLEY1	243525	05HUNTLEY1	N/A	138	205	N-1-1 Voltage Drop	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-IPD-S78	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-S79	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT29	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S80	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S81	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S85	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243507	243507	05FIFTH	243507	05FIFTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT35	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-IPD-S86	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S87	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243502	243502	05E.BROAD	243502	05E.BROAD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S88	239278	02BRDVIE	253085	09URBANA	1	138	202/209	Individual Plant Deliverability	Included
2025W1-N11-WT38	238623	02CLARK	241968	AD1-140 TAP	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243511	243511	05GAY	243511	05GAY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S82	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243510	243510	05GAHANN	243510	05GAHANN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT32	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S83	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S84	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD243508	243508	05ITALNV	243508	05ITALNV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243516	243516	05GREIF	243516	05GREIF	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243513	243513	05GENOA	243513	05GENOA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243512	243512	05DIAMONDISS	243512	05DIAMONDISS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S89	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT39	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S90	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT40	238623	02CLARK	241968	AD1-140 TAP	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S91	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD243551	243551	05OSU	243551	05OSU	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243550	243550	05OBETZ	243550	05OBETZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT1	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM960800	960800	AF2-371 TAP	960800	AF2-371 TAP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243549	243549	05MULBRY	243549	05MULBRY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT2	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243548	243548	05MOUND ST	243548	05MOUND ST	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT3	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243562	243562	05ROSS	243562	05ROSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243560	243560	05ROBERT	243560	05ROBERT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243553	243553	05POLARS	243553	05POLARS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243552	243552	05PICKR8	243552	05PICKR8	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM940610	940610	AE2-048 TAP	940610	AE2-048 TAP	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WT8	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243547	243547	05MORSE	243547	05MORSE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT4	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243545	243545	05MILTON SS	243545	05MILTON SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT5	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT6	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT7	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243536	243536	05LS-II	243536	05LS-II	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT11	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243535	243535	05LINWRT	243535	05LINWRT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT12	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243534	243534	05LICK	243534	05LICK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT13	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243532	243532	05KIRK	243532	05KIRK	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243540	243540	05MCCOMB	243540	05MCCOMB	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-SVD243539	243539	05MARION RD	243539	05MARION RD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243538	243538	05MALISX	243538	05MALISX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT9	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243537	243537	05MALIS	243537	05MALIS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT10	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD243542	243542	05MIFFLIN	243542	05MIFFLIN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243531	243531	05KIMBRY	243531	05KIMBRY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WT15	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD247960	247960	05SHAWTOWNSS	247960	05SHAWTOWNSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247957	247957	05RADER ROAD	247957	05RADER ROAD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S159	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247930	247930	05FIDLSTX SS	247930	05FIDLSTX SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S160	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD247918	247918	05HENDERSON	247918	05HENDERSON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S161	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-S162	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	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-IPD-S157	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	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-IPD-S167	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD247980	247980	05RUSTIC SS	247980	05RUSTIC SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247979	247979	05NORFLD SS	247979	05NORFLD SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247982	247982	05E.NEWCONSS	247982	05E.NEWCONSS	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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-IPD-S163	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-S165	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD247972	247972	05CONDIT SS	247972	05CONDIT SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S141	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD247566	247566	05LAMPING_BP	247566	05LAMPING_BP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S142	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	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-IPD-S138	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD247500	247500	05MUSK_D_XFL	247500	05MUSK_D_XFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S139	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVD247513	247513	05BOUTWELL	247513	05BOUTWELL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247509	247509	05HAYDEN	247509	05HAYDEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-S132	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S135	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD247497	247497	05CLOUSE	247497	05CLOUSE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD247435	247435	05MUSKNG_ESZ	247435	05MUSKNG_ESZ	N/A	138	205	N-1-1 Voltage Drop	Included
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-IPD-S148	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	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

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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-IPD-S144	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-S145	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	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-N0-ST1	253005	09BATH	253085	09URBANA	1	138/138	209/209	Base Case Thermal	Included
2025W1-IPD-S66	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S65	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S64	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S63	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-ST6	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST1	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S70	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVD9	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N0-SVM2	240709	02N TITUS	240709	02N TITUS	N/A	138	202	Base Case Voltage Magnitude	Included
2025W1-IPD-S69	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N1-LLVD10	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N0-SVM1	240710	02MELISSA	240710	02MELISSA	N/A	138	202	Base Case Voltage Magnitude	Included
2025W1-IPD-S68	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVD11	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N0-ST2	238623	02CLARK	241968	AD1-140 TAP	1	138/138	202/202	Base Case Thermal	Included
2025W1-IPD-S67	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVD12	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Drop	Included

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2025W1-N1-ST5	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST4	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST3	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST2	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S71	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVD8	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-ST8	243469	05BEATTY	241952	02DEERCREEK	1	138/138	205/202	N-1 Thermal	Included
2025W1-N1-ST14	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST17	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST16	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST15	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S44	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S43	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-S42	253005	09BATH	253085	09URBANA	1	138	209	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-IPD-S51	253005	09BATH	253085	09URBANA	1	138	209	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-S53	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-S52	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-S59	239278	02BRDVIE	241980	AD2-163_POI	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-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
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-S41	253005	09BATH	253085	09URBANA	1	138	209	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-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-SVD243588	243588	05WILSON	243588	05WILSON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290607	290607	05SORENSN_RM	290607	05SORENSN_RM	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243586	243586	05WHITER	243586	05WHITER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290608	290608	05MARYSVL_RS	290608	05MARYSVL_RS	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243584	243584	05VINE	243584	05VINE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290620	290620	05MARYSVL_RM	290620	05MARYSVL_RM	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243583	243583	05TRENT	243583	05TRENT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290621	290621	05MARYSVL_RF	290621	05MARYSVL_RF	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST93	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST92	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM290516	290516	05CELTIC	290516	05CELTIC	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST91	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD243591	243591	05SPRINGRDSS	243591	05SPRINGRDSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290534	290534	05LUTZ	290534	05LUTZ	N/A	138	205	N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD243590	243590	05WESTAR	243590	05WESTAR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290573	290573	05INNOVATION	290573	05INNOVATION	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST85	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST94	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM290628	290628	05BADGER	290628	05BADGER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243581	243581	05TAYLOR	243581	05TAYLOR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290679	290679	05BEACON	290679	05BEACON	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243580	243580	05SULVNT	243580	05SULVNT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290690	290690	05GREENCHL12	290690	05GREENCHL12	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243579	243579	05STROUD	243579	05STROUD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243574	243574	05SUNBURY SS	243574	05SUNBURY SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W24	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVM290887	290887	05ROCKHOPPER	290887	05ROCKHOPPER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243572	243572	05SHANON	243572	05SHANON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W25	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVM290925	290925	05PARSONS2	290925	05PARSONS2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243570	243570	05CLAYBN	243570	05CLAYBN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W27	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVM290984	290984	05BOKESCRK	290984	05BOKESCRK	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243569	243569	05SCIPPO	243569	05SCIPPO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W28	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVM290779	290779	05JORDEN	290779	05JORDEN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243577	243577	05STELZR	243577	05STELZR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290809	290809	05HORIZON	290809	05HORIZON	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243576	243576	05ST.CLX	243576	05ST.CLX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290884	290884	05GREENCHL34	290884	05GREENCHL34	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243575	243575	05ST.CLR	243575	05ST.CLR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM290886	290886	05ANGUIN 3-4	290886	05ANGUIN 3-4	N/A	138	205	N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD243568	243568	05SCIOTO	243568	05SCIOTO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W31	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-SVD243566	243566	05SAWMILL	243566	05SAWMILL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W32	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-SVD243563	243563	05ROZELL	243563	05ROZELL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-W34	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W35	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD244560	244560	05ISABELLA	244560	05ISABELLA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28883	288835	05BLAIN_TAP	288835	05BLAIN_TAP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST65	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD244540	244540	05RHODES	244540	05RHODES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28893	288936	05CELTIC	288936	05CELTIC	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244338	244338	05POTH	244338	05POTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28911	289114	05BIG PLAIN	289114	05BIG PLAIN	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD244283	244283	05MINERAL SS	244283	05MINERAL SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28952	289528	05MALIS	289528	05MALIS	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST70	241987	AE2-217_POI	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST69	253005	09BATH	253085	09URBANA	1	138/138	209/209	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-WVM28877	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-WVM29024	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-N1-ST73	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-ST71	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N11-SVD244258	244258	05PARSONS1	244258	05PARSONS1	N/A	138	205	N-1-1 Voltage Drop	Included

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2025W1-N11-WVM29002	290024	05GOMER	290024	05GOMER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24423	244232	05SHANNONRSS	244232	05SHANNONRSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29011	290113	05WESTFALL	290113	05WESTFALL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24423	244230	05SUNDAY SS	244230	05SUNDAY SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29023	290230	05CYPRUS12	290230	05CYPRUS12	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24419	244198	05LEMASTER	244198	05LEMASTER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29023	290239	05HUMBOLDT	290239	05HUMBOLDT	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24391	243915	05BERRYWOOD	243915	05BERRYWOOD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29031	290315	05EMPEROR Z1	290315	05EMPEROR Z1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24390	243903	05GUNN RD SW	243903	05GUNN RD SW	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29031	290316	05EMPEROR Z2	290316	05EMPEROR Z2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24390	243902	05HARDIN SW	243902	05HARDIN SW	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29032	290328	05COSGRAY	290328	05COSGRAY	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24387	243876	05ST.CXX	243876	05ST.CXX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29025	290254	05INNOVATION	290254	05INNOVATION	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-WVM29031	290313	05CONESV_XFL	290313	05CONESV_XFL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24359	243592	05YEARLG	243592	05YEARLG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24385	243856	05JUG ST 1-6	243856	05JUG ST 1-6	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	243855	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-SVD24385	243854	05REAYER	243854	05REAYER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM29045	290459	05MT PERRYSS	290459	05MT PERRYSS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24359	243593	05ZUBER	243593	05ZUBER	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-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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD246385	246385	05JUGST 7-11	246385	05JUGST 7-11	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288603	288603	05TASJAN	288603	05TASJAN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD246370	246370	05HUNTLEY2	246370	05HUNTLEY2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288613	288613	05ROCKHOPPZ1	288613	05ROCKHOPPZ1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST48	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST47	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-ST46	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST45	238908	02LONDON	241987	AE2-217_POI	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST52	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD246094	246094	05VINE_X	246094	05VINE_X	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288618	288618	05NBY6 Z1	288618	05NBY6 Z1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST51	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD246021	246021	05W.LANCAST2	246021	05W.LANCAST2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288619	288619	05NBY6 Z2	288619	05NBY6 Z2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST50	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD246010	246010	05PHILO2	246010	05PHILO2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288640	288640	05DUBLINX	288640	05DUBLINX	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST49	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD245964	245964	05N.NEWARK2	245964	05N.NEWARK2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD246312	246312	05BABBITT	246312	05BABBITT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288614	288614	05ROCKHOPPZ2	288614	05ROCKHOPPZ2	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD246310	246310	05MEIGS SW1Z	246310	05MEIGS SW1Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288615	288615	05S.ROCKHOPR	288615	05S.ROCKHOPR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD246308	246308	05NEWARKC_BP	246308	05NEWARKC_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288616	288616	05NBY6	288616	05NBY6	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST53	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD246177	246177	05ANGUIN 1-2	246177	05ANGUIN 1-2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM288617	288617	05NBY7	288617	05NBY7	N/A	138	205	N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N1-ST55	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM28864	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-SVD24596	2245962	05DLAWAR3	245962	05DLAWAR3	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD24595	2245952	05DLAWAR1	245952	05DLAWAR1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28870	288705	05VASSEL2XFL	288705	05VASSEL2XFL	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24585	3245853	05HESS SOUTH	245853	05HESS SOUTH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28871	288718	05GILES	288718	05GILES	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST59	238908	02LONDON	240709	02N TITUS	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST58	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-ST57	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST56	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	N-1 Thermal	Included
2025W1-N1-ST63	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD24487	1244871	05RIDGELY	244871	05RIDGELY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28872	288729	05SOUDER	288729	05SOUDER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24486	8244868	05BRICE	244868	05BRICE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28877	288776	05CYPRUS34	288776	05CYPRUS34	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST62	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	N-1 Thermal	Included
2025W1-N1-ST61	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD24474	5244745	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-SVD24576	9245769	05ADKINS	245769	05ADKINS	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28872	288721	05MACY	288721	05MACY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24549	2245492	05BABBIT 5-6	245492	05BABBIT 5-6	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28872	288724	05CHENOWETH	288724	05CHENOWETH	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24549	1245491	05BABBIT 3-4	245491	05BABBIT 3-4	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM28872	288726	05GREENCHPL	288726	05GREENCHPL	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD24535	8245358	05EMPEROR	245358	05EMPEROR	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-WVM28872	288727	05CURLEYS	288727	05CURLEYS	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST26	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST25	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST24	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST27	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-ST32	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST37	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-ST36	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	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-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-N1-ST38	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N11-WVM28856	288569	05BERMUDA	288569	05BERMUDA	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST43	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST42	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-ST70	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24347	243472	05BEXLEY	243472	05BEXLEY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28872	288726	05GREENCHPL	288726	05GREENCHPL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST71	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24347	243473	05BIXBY	243473	05BIXBY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28872	288724	05CHENOWETH	288724	05CHENOWETH	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST72	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL175	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD28872	288729	05SOUDER	288729	05SOUDER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL176	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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-WVM24345	243466	05ASTOR	243466	05ASTOR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28870	288705	05VASSEL2XFL	288705	05VASSEL2XFL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST67	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24345	243467	05E.BROAD3	243467	05E.BROAD3	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-GD-LL130	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-N11-ST68	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24345	243469	05BEATTY	243469	05BEATTY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28872	288721	05MACY	288721	05MACY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST69	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24347	243471	05BETHEL	243471	05BETHEL	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28871	288718	05GILES	288718	05GILES	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24345	243458	05HYATT	243458	05HYATT	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST63	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24345	243459	05KIRK	243459	05KIRK	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST64	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24345	243460	05ROBRT2	243460	05ROBRT2	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28869	288691	05WHIPPLEDTC	288691	05WHIPPLEDTC	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST65	238529	02AIRPK+	238703	02ESPRNG	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24345	243461	05ROBRT1	243461	05ROBRT1	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-GD-LL177	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-LL178	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-WVD28877	288776	05CYPRUS34	288776	05CYPRUS34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28899	288990	05HATHAWAYSS	288990	05HATHAWAYSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28897	288975	05GANGWER	288975	05GANGWER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28909	289097	05REDRUN	289097	05REDRUN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28899	288999	05HATCH SS	288999	05HATCH SS	N/A	138	205	N-1-1 Voltage Drop	Included

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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
2025W1-N11-ST78	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL191	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-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-WVM243136	243136	05W LIMA	243136	05W LIMA	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST48	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WVM243146	243146	05WHEBRO	243146	05WHEBRO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD270584	270584	AE1-091_POI	270584	AE1-091_POI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243149	243149	05W.LANCAST1	243149	05W.LANCAST1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288579	288579	05FIESTA	288579	05FIESTA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243150	243150	05WMILLP	243150	05WMILLP	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288569	288569	05BERMUDA	288569	05BERMUDA	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST44	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243107	243107	05SPENCR	243107	05SPENCR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD270280	270280	AF1-227 MAIN	270280	AF1-227 MAIN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM243108	243108	05STRLN	243108	05STRLN	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST45	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-ST46	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included

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2025W1-N11-WVM24312	243122	05SW LIM	243122	05SW LIM	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD27049	270495	AE1-146 TAP	270495	AE1-146 TAP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24312	243125	05THAYER	243125	05THAYER	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD27037	270372	AD1-106 TAP	270372	AD1-106 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-WVM24309	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-WVM24310	243104	05SLANCS	243104	05SLANCS	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28861	288613	05ROCKHOPPZ1	288613	05ROCKHOPPZ1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28860	288603	05TASJAN	288603	05TASJAN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD28861	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-WVM24345	243455	05CONES	243455	05CONES	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28864	288640	05DUBLINX	288640	05DUBLINX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST60	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL113	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVM24345	243456	05CORRID	243456	05CORRID	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28861	288619	05NBY6 Z2	288619	05NBY6 Z2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST61	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL114	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVM24345	243457	05HAYDEN	243457	05HAYDEN	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28863	288663	05FIN DATAZ	288663	05FIN DATAZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST62	238529	02AIRPK+	238703	02ESPRNG	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL119	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-WVD28864	288643	05KIBER	288643	05KIBER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM24316	243160	05WTRNWWY	243160	05WTRNWWY	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD28861	288616	05NBY6	288616	05NBY6	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-ST56	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24315	243161	05ZANESV	243161	05ZANESV	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD288615	288615	05S.ROCKHOPR	288615	05S.ROCKHOPR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-ST57	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL110	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-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-WVM24304	243044	05MILLWO	243044	05MILLWO	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST27	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24305	243051	05NDELPH	243051	05NDELPH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST28	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24305	243058	05NEWARK CTR	243058	05NEWARK CTR	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST29	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM24305	243062	05NMUSKG	243062	05NMUSKG	N/A	138	205	N-1-1 Voltage Magnitude	Included

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2025W1-N11-WVM243018	243018	05HEATH	243018	05HEATH	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243023	243023	05HOCKNG	243023	05HOCKNG	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-WVM243025	243025	05JUNCTN	243025	05JUNCTN	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-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-ST30	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	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-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-ST37	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	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-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
2025W1-N11-WVM243082	243082	05ROCKHILL1	243082	05ROCKHILL1	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM243083	243083	05CAMPSS	243083	05CAMPSS	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-ST33	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM243070	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-WVM243074	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-WVM243075	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-WVM243076	243076	05CONESPREPZ	243076	05CONESPREPZ	N/A	138	205	N-1-1 Voltage Magnitude	Included

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2025W1-N11-WVM243058	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-WVM243032	243089	05SBALTM	243089	05SBALTM	N/A	138	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST42	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S175	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVD240709	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242928	242926	05MALIS	242926	05MALIS	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM242928	242928	05MARYSV	242928	05MARYSV	N/A	765	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM242931	242931	05BEVERL	242931	05BEVERL	N/A	345	205	N-1-1 Voltage Magnitude	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-WVM241930	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-WVM241937	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-WVM242939	242939	05MARYSV	242939	05MARYSV	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S180	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVM242940	242940	05MUSKNG	242940	05MUSKNG	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S181	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVM242941	242941	05OHIOCT	242941	05OHIOCT	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S182	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVM242945	242945	05SW LIM	242945	05SW LIM	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S186	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVM242932	242989	05E LIMA	242989	05E LIMA	N/A	138	205	N-1-1 Voltage Magnitude	Included

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2025W1-N11-WVM242991	242991	05E SIDE	242991	05E SIDE	N/A	138	205	N-1-1 Voltage Magnitude	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-WVM242949	242949	05WMILLP	242949	05WMILLP	N/A	345	205	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM242979	242979	05CANNELV SS	242979	05CANNELV SS	N/A	138	205	N-1-1 Voltage Magnitude	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-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-WVM243016	243016	05HANTHR	243016	05HANTHR	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-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

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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
2025W1-IPD-LL20	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290573	290573	05INNOVATION	290573	05INNOVATION	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290459	290459	05MT PERRYSS	290459	05MT PERRYSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290413	290413	05KILEVILLE	290413	05KILEVILLE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290505	290505	05IRON TRI	290505	05IRON TRI	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290499	290499	05SCHERERSS	290499	05SCHERERSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290377	290377	05BRIE	290377	05BRIE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL32	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL28	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290779	290779	05JORDEN	290779	05JORDEN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL29	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290761	290761	05KEKIONGA	290761	05KEKIONGA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL30	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290884	290884	05GREENCHL34	290884	05GREENCHL34	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL31	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290809	290809	05HORIZON	290809	05HORIZON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL24	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290656	290656	05INVISIONSS	290656	05INVISIONSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL25	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290628	290628	05BADGER	290628	05BADGER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL26	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290690	290690	05GREENCHL12	290690	05GREENCHL12	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL27	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WVD290679	290679	05BEACON	290679	05BEACON	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD290621	290621	05MARYSVL_RF	290621	05MARYSVL_RF	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-IPD-LL23	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD290620	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
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-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-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-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
2025W1-N11-WVD290316	290316	05EMPEROR Z2	290316	05EMPEROR Z2	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-ST95	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVD29025	290252	05SALT CRK SS	290252	05SALT CRK 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-WVD29024	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-WVD29030	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-WVD29025	290254	05INNOVATION	290254	05INNOVATION	N/A	138	205	N-1-1 Voltage Drop	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
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

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2025W1-N1-ST114	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-ST113	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-ST108	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST111	238623	02CLARK	241968	AD1-140 TAP	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-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-ST104	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-ST103	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-ST102	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-ST95	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-SVD243007	243007	05FRAZEY	243007	05FRAZEY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242993	242993	05E.LEIPSIC2	242993	05E.LEIPSIC2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243001	243001	05EZANEV	243001	05EZANEV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238908	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242995	242995	05EASTOW	242995	05EASTOW	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242998	242998	05EPOINT	242998	05EPOINT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242998	242998	05EPOINT	242998	05EPOINT	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-SVD243023	243023	05HOCKNG	243023	05HOCKNG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243018	243018	05HEATH	243018	05HEATH	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242989	242989	05E LIMA	242989	05E LIMA	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243011	243011	05FULTON	243011	05FULTON	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242991	242991	05E SIDE	242991	05E SIDE	N/A	138	205	N-1-1 Voltage Drop	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-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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-SVD242963	242963	05HEDDSS	242963	05HEDDSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242940	242940	05MUSKNG	242940	05MUSKNG	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242939	242939	05MARYSV	242939	05MARYSV	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242931	242931	05BEVERL	242931	05BEVERL	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-SVD242928	242928	05MARYSV	242928	05MARYSV	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242950	242950	05ACADEM	242950	05ACADEM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242949	242949	05WMILLP	242949	05WMILLP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242945	242945	05SW LIM	242945	05SW LIM	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD242941	242941	05OHIOCT	242941	05OHIOCT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM239278	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM241968	241968	AD1-140 TAP	241968	AD1-140 TAP	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD242926	242926	05MALIS	242926	05MALIS	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM240709	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD241987	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM240710	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM241952	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVM241957	241957	AC2-195 TAP	241957	AC2-195 TAP	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD243149	243149	05W.LANCAST1	243149	05W.LANCAST1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242933	242933	05RPMONE	242933	05RPMONE	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243146	243146	05WHEBRO	243146	05WHEBRO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242935	242935	05E LIMA	242935	05E LIMA	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243145	243145	05WCOSHC	243145	05WCOSHC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242936	242936	05FOSTOR	242936	05FOSTOR	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243107	243107	05SPENCR	243107	05SPENCR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242939	242939	05MARYSV	242939	05MARYSV	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVD12	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Drop	Included

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2025W1-N1-SVD11	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N11-WVD242922	242928	05MARYSV	242928	05MARYSV	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243150	243150	05WMILLP	243150	05WMILLP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242931	242931	05BEVERL	242931	05BEVERL	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243079	243079	05REFORM	243079	05REFORM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVD14	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVD13	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N11-SVD243104	243104	05SLANCS	243104	05SLANCS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242940	242940	05MUSKNG	242940	05MUSKNG	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243098	243098	05SHARPR	243098	05SHARPR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242941	242941	05OHIOCT	242941	05OHIOCT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243094	243094	05SCOSHC	243094	05SCOSHC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242942	242942	05SBERWI	242942	05SBERWI	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243089	243089	05SBALTM	243089	05SBALTM	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242945	242945	05SW LIM	242945	05SW LIM	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243074	243074	05PHILO1	243074	05PHILO1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242956	242956	05BALLHL	242956	05BALLHL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243070	243070	05OHIOCT	243070	05OHIOCT	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242963	242963	05HEDDSS	242963	05HEDDSS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243068	243068	05NZANEV	243068	05NZANEV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242974	242974	05BUCKLR	242974	05BUCKLR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243063	243063	05N.NEWARK1	243063	05N.NEWARK1	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242976	242976	05BUCYRC	242976	05BUCYRC	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242947	242947	05WATERFORD	242947	05WATERFORD	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243076	243076	05CONESPREPZ	243076	05CONESPREPZ	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242949	242949	05WMILLP	242949	05WMILLP	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243075	243075	05POWELS	243075	05POWELS	N/A	138	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD242950	242950	05ACADEM	242950	05ACADEM	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-WVM238623	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-WVD242977	242977	05CALDWE	242977	05CALDWE	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243058	243058	05NEWARK CTR	243058	05NEWARK CTR	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242979	242979	05CANNELV SS	242979	05CANNELV SS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243044	243044	05MILLWO	243044	05MILLWO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242984	242984	05CHATFL	242984	05CHATFL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243025	243025	05JUNCTN	243025	05JUNCTN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVM238703	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N1-SVM51	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM50	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243475	243475	05BLEND0	243475	05BLEND0	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243474	243474	05BLACKL	243474	05BLACKL	N/A	138	205	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-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-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-SVD243472	243472	05BEXLEY	243472	05BEXLEY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243471	243471	05BETHEL	243471	05BETHEL	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-SVD243469	243469	05BEATTY	243469	05BEATTY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD239278	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243467	243467	05E.BROAD3	243467	05E.BROAD3	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM62	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243459	243459	05KIRK	243459	05KIRK	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM61	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243458	243458	05HYATT	243458	05HYATT	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD240709	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM60	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243457	243457	05HAYDEN	243457	05HAYDEN	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD240710	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243456	243456	05CORRID	243456	05CORRID	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241952	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM66	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM65	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM64	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM63	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243160	243160	05WTRNWX	243160	05WTRNWX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD242926	242926	05MALIS	242926	05MALIS	N/A	765	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243153	243153	05WMTVER	243153	05WMTVER	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM68	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM67	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243455	243455	05CONES	243455	05CONES	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241957	241957	AC2-195 TAP	241957	AC2-195 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243454	243454	05BIXBY	243454	05BIXBY	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241968	241968	AD1-140 TAP	241968	AD1-140 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243453	243453	05BEATTY	243453	05BEATTY	N/A	345	205	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-WVD241980	241980	AD2-163_POI	241980	AD2-163_POI	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243161	243161	05ZANESV	243161	05ZANESV	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241987	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243499	243499	05DUBLIN CS	243499	05DUBLIN CS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM33	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM32	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM31	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM30	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243487	243487	05CHK TAP Z	243487	05CHK TAP Z	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM37	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243493	243493	05CRVERD	243493	05CRVERD	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM36	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243492	243492	05CORWIN	243492	05CORWIN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238703	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM35	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243491	243491	05CORRID	243491	05CORRID	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-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-SVD243498	243498	05DLAWAR2	243498	05DLAWAR2	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243497	243497	05DELANO	243497	05DELANO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM39	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243495	243495	05DAVIDS	243495	05DAVIDS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238623	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM38	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243494	243494	05CTYPLN	243494	05CTYPLN	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM40	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-LL102	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-GD-LL103	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-SVD243486	243486	05CLINTX	243486	05CLINTX	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL104	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-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-N1-SVM41	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-LL10	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-SVM48	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243480	243480	05BUCKYST_BP	243480	05BUCKYST_BP	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM47	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243479	243479	05BROOKS	243479	05BROOKS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM46	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	Included
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-SVD243484	243484	05CITYCO	243484	05CITYCO	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243483	243483	05CRCLVS	243483	05CRCLVS	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL107	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WVD238908	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243482	243482	05CENTBG	243482	05CENTBG	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-SVM49	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD243481	243481	05CANAL	243481	05CANAL	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-GD-LL109	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included

New Flowgates

Confidential

Financial Information

Capital spend start date	06/2026
Construction start date	10/2028
Project Duration (In Months)	69

Cost Containment Commitment

Cost cap (in current year)	Confidential
Cost cap (in-service year)	Confidential

Components covered by cost containment

1. 345kV Greenfield Transmission Line from 345kV Transmission Line Upgrades to New 345kV Madison Yard Greenfield Station - Proposer
2. 345kV Greenfield Transmission Line (Double Circuit) from 345kV Madison Yard Greenfield Station to Existing 138kV Melissa Station - Proposer
3. 345kV Greenfield Transmission Line from 345kV Madison Yard Greenfield Station to 765/345kV New Greenfield Station - Proposer
4. 765kV Greenfield Transmission Line from Existing 765kV Marysville Station to New 765kV Fostoria Yard Greenfield Station - Proposer
5. 765kV Greenfield Transmission Line from Existing 765kV Marysville Station to Existing 765kV Vassell Stations - Proposer
6. 765kV Greenfield Transmission Line from Marysville Station to 765/345kV Greenfield Station - Proposer
7. 345kV Madison Yard Greenfield Station - Proposer
8. 765/345kV New Greenfield Station - Proposer
9. 765kV Fostoria Yard Greenfield Station - Proposer

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	No
AFUDC	No
Escalation	Yes
Additional Information	Confidential
Is the proposer offering a binding cap on ROE?	Yes
Would this ROE cap apply to the determination of AFUDC?	Yes
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
Additional cost containment measures not covered above	Confidential

Additional Comments

None