345kV Standalone Solution

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	423
Project title	345kV Standalone Solution
Project description	The Project Team is proposing 345kV solution to address 100% of thermal overloads in the FE-ATSI zone, improving the west to east transfer of power. The solution consists of four greenfield components to be built by the Project Team and five station/line upgrades by incumbents.
Email	Confidential
Project in-service date	06/2031
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 Line Upgrade - 345kV Madison Yard Greenfield Station
2. 345kV Greenfield Transmission Line (Double Circuit) from New 345kV Madison Yard Greenfield Station to Existing 138kV Melissa Station
3. 345kV Greenfield Transmission Line from new 345kV Madison Yard Greenfield Station to existing 345kV Beatty Station
4. 345kV Madison Yard Greenfield Station
5. 345kV Greene Station Upgrade

6. 345kV Madison Station Upgrade
7. 138kV Melissa Station Upgrade
8. 345kV Beatty Station Upgrade
9. 345kV Transmission Line Upgrade (Segment 1)

Greenfield Transmission Line Component

Component title	345kV Greenfield Transmission Line from 345kV Line Upgrade - 345kV Madison Yard Greenfield Station
Project description	Confidential
Point A	Greene 345kV Station
Point B	New Madison 345kV Yard
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	345kV
Line construction type	Overhead
General route description	A 16 mile line travels generally east - west. The route is primarily through farm fields.100% of this greenfield circuit follows (parallel) 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 crossing plan (attached)
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	$69,992,603.00
Component cost (in-service year)	$80,173,278.00

Greenfield Transmission Line Component

Component title	345kV Greenfield Transmission Line (Double Circuit) from New 345kV Madison Yard Greenfield Station to Existing 138kV Melissa Station
Project description	Confidential
Point A	345kV Madison Yard Greenfield Station
Point B	Melissa 345kV 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	345kV
Line construction type	Overhead

General route description	A 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 crossing plan (attached)
Environmental impacts	"The Madison to Melissa route was designed to minimize impacts on physical and environmental resources by using overhead 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. Where avoidance is unfeasible, wetland access/timber support mats will be used in saturated conditions to minimize rutting and soil displacement. An invasive species management plan will be implemented to prevent the spread of invasive and noxious species. Wetland setbacks will be used for equipment refueling, equipment and hazardous material storage, and concrete batch activities. After construction, wetlands will be restored in accordance with all issued federal and state permits. Waterways / Fisheries: All surface waters will be spanned via overhead transmission lines and structures will be placed above the plane of ordinary high-water marks, where feasible. Temporary construction mat bridges and culverts will be used to cross smaller streams where equipment travel is required. Larger streams crossed by the Madison to Melissa route such as Little Maimi River and North Fork Little Maimi River will not be crossed or spanned by temporary equipment bridges; equipment will access the construction right-of-way from existing access points on either side of these waterbodies. If any direct in-water construction/disturbance activities are identified during the detailed design phase, the Project will adhere to approved state and federal in-water construction time of year restrictions (TOYR) and other applicable mitigation measures and restrictions for the proposed work scope. Structures will be sited outside flood zones where feasible. Where structures must be placed within flood zones/regulatory floodplains, foundations will be minimized to the extent practicable while remaining within design and regulatory compliance. The Project Team will coordinate with state and local flood zone agencies and ensure compliance with flood zone regulations.
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	$71,114,102.00
Component cost (in-service year)	$81,457,901.00

Greenfield Transmission Line Component

Component title	345kV Greenfield Transmission Line from new 345kV Madison Yard Greenfield Station to existing 345kV Beatty Station
Project description	Confidential
Point A	345kV Madison Yard Greenfield Station
Point B	Beatty 345kV 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	A 29.3 mile circuit that travels generally west - east. The route is primarily through farm fields.	
Terrain description	The terrain throughout the route is generally flat.	
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 below Marysville - Flatlick OH 765kV, utilizing a gantry., crossing overhead - Beatty - Atlanta OH 345kV, crossing overhead - Madison - Beatty OH 345kV (existing)	
Civil infrastructure/major waterway facility crossing plan	Please see Crossing Plan (attached)	

Environmental impacts	The Madison to Beatty route was designed to minimize impacts on physical and environmental resources by using overhead (OH) transmission, positioning structures/spans to avoid direct resource impacts where feasible, routing within largely agricultural land, and co-locating approx. 13.0 mi within existing transmission ROW. The Project will comply with all permit requirements including avoidance and minimization measures & restoration requirements. The Project will adhere to time-of-year restrictions for surveys and disturbance activities. Based on public/GIS data, physical/environmental considerations that were evaluated to minimize resource impacts include: Wetlands: Construction workspace and temporary access roads will be located to the extent practicable to minimize and/or avoid wetland impacts. Where avoidance is unfeasible, mitigation measures will be used including timber matting, invasive species mgmt plan and wetland setbacks for equipment storage. 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. Larger streams will not be spanned by temporary equipment bridges. Riparian Habitat: This route crosses Big Darby Creek, a Wild & Scenic River. The Project selected a crossing location that limits clearing/riparian habitat removal. Forest: The route crosses ~2.4 miles of forested land. Terrestrial Wildlife: No significant impacts are anticipated by construction of the 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 Easements: The Project will coordinate with landowners and agencies to minimize impacts on Ag land and conservation easements. The route crosses one agricultural easement. Cultural Resources: The route is not within 1,000 feet of Natl Register of Historic Places. Recreational Areas: The route crosses one known recreational area, Big Darby Creek, a kayaking destination. The Project will coordinate with local recreational water users to minimize impacts. Federal and State Land: No federal or stated owned land is anticipated to be 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	$120,565,438.00
Component cost (in-service year)	$138,102,114.00

Greenfield Substation Component

Component title	345kV Madison Yard Greenfield Station
Project description	Confidential
Substation name	345kV Madison Yard Greenfield Station
Substation description	Engineer and construct a new 345 kV substation consisting of nine (9) 345 kV dead tank circuit breaker, twenty-one (21) 345 kV disconnect switches, one (1) control house, and associated 345 kV bus and hardware.
Nominal voltage	AC
Nominal voltage	345

Transformer Information

None

Major equipment description	345 kV dead tank circuit breakers, disconnect switches, and one control house

	Normal ratings	Emergency ratings
Summer (MVA)	0.000000	0.000000
Winter (MVA)	0.000000	0.000000

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	See Attached Land Acquisition Plan
Land acquisition plan	See Attached Land Acquisition Plan
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	$70,234,047.00
Component cost (in-service year)	$80,449,841.00

Substation Upgrade Component

Component title	345kV Greene Station Upgrade

Project description	Confidential
Substation name	Greene 345kV Station
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	N/A
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	$16,545,502.00
Component cost (in-service year)	$18,952,105.00

Substation Upgrade Component

Component title	345kV Madison Station Upgrade
Project description	Confidential
Substation name	Madison 345kV Station
Substation zone	Dayton
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	N/a
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	$911,275.00
Component cost (in-service year)	$1,043,823.00

Substation Upgrade Component

Component title	138kV Melissa Station Upgrade
Project description	Confidential
Substation name	Melissa 345kV Station
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	N/A
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	$100,173,191.00
Component cost (in-service year)	$114,743,740.00

Substation Upgrade Component

Component title	345kV Beatty Station Upgrade
Project description	Confidential
Substation name	Beatty 345kV Station
Substation zone	AEP
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.

Transformer Information

None

New equipment description	345 kV dead tank circuit breakers and disconnect switches

Substation assumptions	The Beatty 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	N/a
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	$16,287,876.00
Component cost (in-service year)	$18,657,007.00

Transmission Line Upgrade Component

Component title	345kV Transmission Line Upgrade (Segment 1)
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 trageted crossarms on the exsting 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 mi
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)	$10,633,704.00

Congestion Drivers

None

Existing Flowgates

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N11-ST70	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S119	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-WT1	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	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-ST71	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S120	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-LL175	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N1-WT2	243469	05BEATTY	241952	02DEERCREEK	1	138/138	205/202	Baseline Thermal	Included
2025W1-N11-ST72	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL176	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-WT3	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-ST66	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVM253085	253085	09URBANA	253085	09URBANA	N/A	138	209	N-1-1 Voltage Magnitude	Included
2025W1-GD-LL130	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-N11-ST67	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S116	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST68	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST69	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVM241987	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	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-SVM241988	241988	AE2-217_MAIN	241988	AE2-217_MAIN	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S112	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST64	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST65	238529	02AIRPK+	238703	02ESPRNG	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL177	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N1-WT4	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-GD-LL178	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	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-IPD-S131	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-IPD-S125	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-LL190	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-IPD-S126	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-LL191	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N1-WT8	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-ST78	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N1-WT10	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-ST80	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST73	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S122	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST74	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S123	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-WT5	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-ST75	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S124	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-WT6	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-ST76	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT46	238623	02CLARK	241968	AD1-140 TAP	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST48	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-WT47	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVM238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S98	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVM238623	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S99	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-SVM238703	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S92	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST44	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST45	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-ST46	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST47	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-ST43	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	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-GD-W157	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-N11-WT50	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-ST59	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVM241952	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S108	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-LL113	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-WT60	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST60	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVM241968	241968	AD1-140 TAP	241968	AD1-140 TAP	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S109	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-LL114	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N11-ST61	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVM241980	241980	AD2-163_POI	241980	AD2-163_POI	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S110	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-LL119	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-ST62	238529	02AIRPK+	238703	02ESPRNG	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S103	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST55	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-N11-SVM240637	240637	02URECMITCHL	240637	02URECMITCHL	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S104	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST56	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVM240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S105	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included

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2025W1-GD-LL110	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-ST57	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT57	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVM240709	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-ST58	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	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-ST53	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVM238964	238964	02MLCRK+	238964	02MLCRK+	N/A	138	202	N-1-1 Voltage Magnitude	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-N11-ST54	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVM239278	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S111	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-LL12	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-GD-LL124	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-LL125	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-IPD-S74	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT22	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST26	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST147	238908	02LONDON	241987	AE2-217_POI	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-ST27	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST148	240637	02URECMITCHL	240706	02NATIONAL	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S76	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST149	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST28	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S77	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included

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2025W1-N11-ST29	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST150	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST143	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT19	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-ST23	241952	02DEERCREEK	243469	05BEATTY	1	138	202/205	N-1-1 Thermal	Included
2025W1-IPD-S72	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST145	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	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-ST151	238529	02AIRPK+	238623	02CLARK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST30	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S79	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST152	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT29	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST31	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S80	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST32	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S81	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S85	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT35	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-ST37	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S86	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST38	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S87	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST39	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT38	238623	02CLARK	241968	AD1-140 TAP	1	138	202	N-1-1 Thermal	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

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2025W1-IPD-S82	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-WT32	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST34	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST155	238908	02LONDON	241952	02DEERCREEK	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-N11-ST35	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S84	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST36	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST153	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	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-N11-ST41	238908	02LONDON	241952	02DEERCREEK	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-N11-ST42	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S91	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-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-WT1	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WT2	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT3	238703	02ESPRNG	240710	02MELISSA	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD241968	241968	AD1-140 TAP	241968	AD1-140 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD241957	241957	AC2-195 TAP	241957	AC2-195 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD241952	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM241980	241980	AD2-163_POI	241980	AD2-163_POI	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-S174	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST124	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included

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2025W1-N11-SVD240710	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVM241987	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N11-SVD241980	241980	AD2-163_POI	241980	AD2-163_POI	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WT8	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-WT4	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-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-ST131	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT7	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT11	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST136	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST137	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT12	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT13	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD238908	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-ST133	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT9	238703	02ESPRNG	239278	02BRDVIE	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST134	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WT10	238703	02ESPRNG	240710	02MELISSA	2	138	202	N-1-1 Thermal	Included
2025W1-N11-SVD239278	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WT15	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST140	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST141	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST142	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	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-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

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2025W1-GD-S407	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-IPD-S1	238908	02LONDON	241952	02DEERCREEK	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-S131	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-GD-S129	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-GD-S130	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-GD-S133	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-GD-S384	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S128	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S446	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S38	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	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-GD-S32	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S476	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S474	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation 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-IPD-S159	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL17	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W20	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL18	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W21	238703	02ESPRNG	240710	02MELISSA	2	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-IPD-LL19	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL20	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W23	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-W16	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N1-WVM11	240709	02N TITUS	240709	02N TITUS	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-IPD-S156	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W17	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N1-WVM12	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-IPD-W18	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-WVM13	238908	02LONDON	238908	02LONDON	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-IPD-S158	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W19	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	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-N1-WVM10	240710	02MELISSA	240710	02MELISSA	N/A	138	202	Baseline Voltage Magnitude	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-IPD-LL29	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL30	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL31	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL24	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL25	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL26	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S170	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL27	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-LL23	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W2	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N1-WT29	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-ST92	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-GD-LL96	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-IPD-W3	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N1-WT30	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-IPD-LL1	238908	02LONDON	241952	02DEERCREEK	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-WT31	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-GD-W222	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-ST88	238908	02LONDON	240709	02N TITUS	1	138	202	N-1-1 Thermal	Included
2025W1-GD-W67	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N1-WT26	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-ST89	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	Included
2025W1-GD-LL35	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-IPD-W1	238908	02LONDON	241952	02DEERCREEK	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S132	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST84	238908	02LONDON	240709	02N TITUS	1	138	202	N-1-1 Thermal	Included
2025W1-N1-WT18	253005	09BATH	253085	09URBANA	1	138/138	209/209	Baseline Thermal	Included
2025W1-N11-ST85	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S135	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-W213	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N11-ST86	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-GD-W221	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N11-ST87	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	Included
2025W1-N11-ST83	238908	02LONDON	240709	02N TITUS	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S152	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W13	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N1-WVM8	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N1-WVM9	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N11-ST99	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-IPD-S149	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W10	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST100	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-W11	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST101	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-W12	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-W5	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N1-WT32	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	Baseline Thermal	Included
2025W1-N11-ST95	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-W6	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-ST96	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-W7	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-ST97	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-S147	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W8	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-ST98	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-W4	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-IPD-S62	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S66	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N0-ST1	253005	09BATH	253085	09URBANA	1	138/138	209/209	Base Case Thermal	Included
2025W1-N1-SVM11	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-IPD-S65	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-SVM10	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-S18	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation 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-N11-SVD238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Drop	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-IPD-S70	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-ST1	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLVD9	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVM15	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N0-SVM2	240709	02N TITUS	240709	02N TITUS	N/A	138	202	Base Case Voltage Magnitude	Included
2025W1-N1-LLVD10	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVM14	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-IPD-S68	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N0-SVM1	240710	02MELISSA	240710	02MELISSA	N/A	138	202	Base Case Voltage Magnitude	Included
2025W1-N1-LLVD11	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVM13	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD238623	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-IPD-S67	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N0-ST2	238623	02CLARK	241968	AD1-140 TAP	1	138/138	202/202	Base Case Thermal	Included
2025W1-N1-LLVD12	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVM12	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST5	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM19	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST4	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM18	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST3	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM17	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-IPD-S71	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-ST2	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLVD8	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-SVM16	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-SVD238703	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-GD-S399	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-S187	241980	AD2-163_POI	239278	02BRDVIE	1	138	202	Generation Deliverability	Included
2025W1-N1-ST8	243469	05BEATTY	241952	02DEERCREEK	1	138/138	205/202	N-1 Thermal	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-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-N1-ST14	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM26	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-S401	241980	AD2-163_POI	239278	02BRDVIE	1	138	202	Generation Deliverability	Included
2025W1-N1-SVM25	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-S400	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	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-ST17	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM29	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST16	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM28	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST15	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM27	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-S391	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-IPD-S44	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
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-IPD-S48	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-ST108	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S47	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-ST107	253026	09GREENE	241968	AD1-140 TAP	1	138/138	209/202	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-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-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-N1-LLT41	239278	02BRDVIE	238703	02ESPRNG	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-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-ST109	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	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-GD-S458	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-IPD-S54	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-S457	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-N1-SVM9	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-S15	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-IPD-S59	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLVM13	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-S172	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	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-SVM8	241988	AE2-217_MAIN	241988	AE2-217_MAIN	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-LLVM9	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-S461	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N1-LLVM10	241956	AC1-078 MAIN	241956	AC1-078 MAIN	N/A	138	202	N-1 Voltage Magnitude	Included

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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-GD-S389	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N1-LLT22	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-GD-S151	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-GD-S149	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-N1-LLT24	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-GD-S388	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	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-GD-S152	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N1-LLT21	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	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-GD-S165	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-N1-ST102	253005	09BATH	253085	09URBANA	1	138/138	209/209	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-GD-S158	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-N1-ST95	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included

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2025W1-N1-LLT35	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT36	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-IPD-S40	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-S39	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLT31	243469	05BEATTY	241952	02DEERCREEK	1	138/138	205/202	N-1 Thermal	Included
2025W1-IPD-S38	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-LLT32	241987	AE2-217_POI	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-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-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-GD-S385	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-IPD-S8	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-S139	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-IPD-S7	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-S138	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-IPD-S6	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-S137	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-IPD-S5	238703	02ESPRNG	239278	02BRDVIE	1	138	202	Individual Plant Deliverability	Included
2025W1-GD-S451	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-GD-S148	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N1-SVD22	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Drop	Included
2025W1-GD-S147	239278	02BRDVIE	238703	02ESPRNG	1	138	202	Generation Deliverability	Included
2025W1-N1-SVD21	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Drop	Included
2025W1-GD-S450	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	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

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2025W1-GD-S146	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-SVD20	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Drop	Included
2025W1-GD-S387	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-IPD-S18	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-SVD19	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Drop	Included
2025W1-GD-S5	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-IPD-S17	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N1-SVD18	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Drop	Included
2025W1-GD-S145	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-SVD17	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N11-ST103	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	Included
2025W1-N1-ST88	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-ST104	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM238908	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N1-ST87	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N1-ST86	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N11-ST106	241968	AD1-140 TAP	253026	09GREENE	1	138	202/209	N-1-1 Thermal	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-N1-ST91	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	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-ST107	240710	02MELISSA	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST108	238908	02LONDON	240709	02N TITUS	1	138	202	N-1-1 Thermal	Included
2025W1-N11-ST110	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-W24	238703	02ESPRNG	240710	02MELISSA	2	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W25	238623	02CLARK	241968	AD1-140 TAP	1	138	202	Individual Plant Deliverability	Included
2025W1-IPD-W27	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included

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2025W1-N11-ST116	238908	02LONDON	241952	02DEERCREEK	1	138	202	N-1-1 Thermal	Included
2025W1-IPD-W28	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVM240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	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-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-IPD-W31	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-ST118	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM240709	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-W32	253005	09BATH	253085	09URBANA	1	138	209	Individual Plant Deliverability	Included
2025W1-N11-WVM240710	240710	02MELISSA	240710	02MELISSA	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-IPD-W34	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST120	239278	02BRDVIE	241980	AD2-163_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM241952	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-IPD-W35	238703	02ESPRNG	240710	02MELISSA	1	138	202	Individual Plant Deliverability	Included
2025W1-N11-ST121	238908	02LONDON	241987	AE2-217_POI	1	138	202	N-1-1 Thermal	Included
2025W1-N11-WVM241957	241957	AC2-195 TAP	241957	AC2-195 TAP	N/A	138	202	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-N1-ST64	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N1-LLT6	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST70	241987	AE2-217_POI	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVD12	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-ST69	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-SVD11	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-LLT1	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST68	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST67	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included

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2025W1-N1-ST74	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	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-N1-SVD13	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Drop	Included
2025W1-N1-LLT7	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT14	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT15	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N1-LLT16	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT17	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST75	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N1-LLT10	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-LLT12	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST79	253085	09URBANA	239278	02BRDVIE	1	138/138	209/202	N-1 Thermal	Included
2025W1-N1-LLT18	238908	02LONDON	241987	AE2-217_POI	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM238623	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1-1 Voltage Magnitude	Included
2025W1-N1-LLT19	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N11-WVM238703	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	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-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-N1-ST48	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM55	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST47	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-SVM54	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST46	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM53	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST45	238908	02LONDON	241987	AE2-217_POI	1	138/138	202/202	N-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N1-SVM52	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST52	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM59	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-S124	241968	AD1-140 TAP	238623	02CLARK	1	138	202	Generation Deliverability	Included
2025W1-N1-ST51	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM58	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST50	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM57	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-S123	241952	02DEERCREEK	238908	02LONDON	1	138	202	Generation Deliverability	Included
2025W1-N1-ST49	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM56	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD239278	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243469	243469	05BEATTY	243469	05BEATTY	N/A	138	205	N-1-1 Voltage Drop	Included
2025W1-N1-ST53	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-ST55	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM62	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD240706	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-ST54	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM61	238623	02CLARK	238623	02CLARK	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD240709	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-SVM60	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD240710	240710	02MELISSA	240710	02MELISSA	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241952	241952	02DEERCREEK	241952	02DEERCREEK	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-ST59	238908	02LONDON	240709	02N TITUS	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM66	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST58	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-SVM65	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST57	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-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-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-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-N1-SVM68	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST60	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM67	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N11-WVD241957	241957	AC2-195 TAP	241957	AC2-195 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241968	241968	AD1-140 TAP	241968	AD1-140 TAP	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241980	241980	AD2-163_POI	241980	AD2-163_POI	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-SVD243453	243453	05BEATTY	243453	05BEATTY	N/A	345	205	N-1-1 Voltage Drop	Included
2025W1-N11-WVD241987	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N11-WVD238529	238529	02AIRPK+	238529	02AIRPK+	N/A	138	202	N-1-1 Voltage Drop	Included
2025W1-N1-ST26	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM33	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST25	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM32	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST24	241952	02DEERCREEK	238908	02LONDON	1	138/138	202/202	N-1 Thermal	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-N1-SVM37	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-SVM36	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	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-N1-ST27	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-SVM34	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N1-ST32	238703	02ESPRNG	240710	02MELISSA	2	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM39	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	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-GD-LL102	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-SVM40	240709	02N TITUS	240709	02N TITUS	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-GD-LL103	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-GD-LL104	238703	02ESPRNG	240710	02MELISSA	2	138	202	Generation Deliverability	Included
2025W1-N1-ST37	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-SVM44	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	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-GD-LL10	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-ST41	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM48	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST40	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM47	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST39	241968	AD1-140 TAP	238623	02CLARK	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM46	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-ST38	253005	09BATH	253085	09URBANA	1	138/138	209/209	N-1 Thermal	Included
2025W1-N1-SVM45	239278	02BRDVIE	239278	02BRDVIE	N/A	138	202	N-1 Voltage Magnitude	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-N1-ST43	239278	02BRDVIE	238703	02ESPRNG	1	138/138	202/202	N-1 Thermal	Included
2025W1-GD-LL109	238703	02ESPRNG	240710	02MELISSA	1	138	202	Generation Deliverability	Included
2025W1-N1-ST42	238703	02ESPRNG	240710	02MELISSA	1	138/138	202/202	N-1 Thermal	Included
2025W1-N1-SVM49	238908	02LONDON	238908	02LONDON	N/A	138	202	N-1 Voltage Magnitude	Included
2025W1-N1-WVM14	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	Baseline 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-WVM15	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N1-WVM16	238703	02ESPRNG	238703	02ESPRNG	N/A	138	202	Baseline Voltage Magnitude	Included
2025W1-N1-WVD10	241987	AE2-217_POI	241987	AE2-217_POI	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N1-WVD11	240710	02MELISSA	240710	02MELISSA	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N1-WVD12	240709	02N TITUS	240709	02N TITUS	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N1-WVD13	240706	02NATIONAL	240706	02NATIONAL	N/A	138	202	Baseline Voltage Drop	Included
2025W1-N1-WVD14	238908	02LONDON	238908	02LONDON	N/A	138	202	Baseline Voltage Drop	Included

New Flowgates

Confidential

Financial Information

Capital spend start date	06/2026
Construction start date	05/2029
Project Duration (In Months)	60

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 Line Upgrade - 345kV Madison Yard Greenfield Station - Proposer
2. 345kV Greenfield Transmission Line (Double Circuit) from New 345kV Madison Yard Greenfield Station to Existing 138kV Melissa Station - Proposer
3. 345kV Greenfield Transmission Line from new 345kV Madison Yard Greenfield Station to existing 345kV Beatty Station - Proposer
4. 345kV Madison 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