

Lemoyne - Lake Ave 345 kV Line

General Information

Proposing entity name	Confidential Information
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Confidential Information
Company proposal ID	Confidential Information
PJM Proposal ID	843
Project title	Lemoyne - Lake Ave 345 kV Line
Project description	Build a new Lemoyne - Lake Avenue 345 kV Line by leveraging existing 138 kV corridors.
Email	Confidential Information
Project in-service date	06/2029
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Confidential Information

Project Components

1. Lemoyne - Lake Avenue 345 kV Line
2. Lemoyne Substation
3. Lake Avenue Substation

Transmission Line Upgrade Component

Component title	Lemoyne - Lake Avenue 345 kV Line
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Project description	Confidential Information	
Impacted transmission line	Lemoyne - Lake Avenue 345 kV Line	
Point A	Lemoyne (Bus # 238889)	
Point B	Lake Avenue (Bus # 239725)	
Point C		
Terrain description	The terrain is flat/hilly, crossing major roads a total of 25 times, minor roads a total of 81 times, railroads a total of seven times, and rivers/creeks a total of 11 times.	
Existing Line Physical Characteristics		
Operating voltage	N/A	
Conductor size and type	N/A	
Hardware plan description	N/A	
Tower line characteristics	N/A	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	345.000000	345.000000
	Normal ratings	Emergency ratings
Summer (MVA)	2241.000000	2578.000000
Winter (MVA)	2241.000000	2713.000000
Conductor size and type	2 x 795 kcmil 26/7 ACSS	
Shield wire size and type	2 x 7#6 Alumoweld	
Rebuild line length	88.3 miles	

Rebuild portion description	Approximately 45 miles of the new 345 kV line will leverage existing 138 kV transmission rights-of-way by rebuilding the following single-circuit 138 kV lines with double-circuit towers where the 345 kV and 138 kV lines will be on the same structure: - 19 miles of the West Fremont - Woodville No 2 138 kV Line - 6 miles of the Avery - Hayes 138 kV Line - 7.5 miles of the Avery -Shinrock 138 kV Line - 12.5 miles of the Carlisle - Shinrock 138 kV Line Approximately 43.3 miles of the new Lemoyne - Lake Ave 345 kV Line will be constructed on single-circuit 345 kV structures, leveraging existing rights-of-way by widening existing 138 kV transmission corridors.
Right of way	Approximately 45 miles of the new 345 kV line will leverage existing 138 kV transmission rights-of-way by rebuilding the following single-circuit 138 kV lines with double-circuit towers where the 345 kV and 138 kV lines will be on the same structure: - 19 miles of the West Fremont - Woodville No 2 138 kV Line - 6 miles of the Avery - Hayes 138 kV Line - 7.5 miles of the Avery -Shinrock 138 kV Line - 12.5 miles of the Carlisle - Shinrock 138 kV Line Approximately 43.3 miles of the new Lemoyne - Lake Ave 345 kV Line will be constructed on single-circuit 345 kV structures, leveraging existing rights-of-way by widening existing 138 kV transmission corridors.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$455,038,571.00
Component cost (in-service year)	\$509,000,114.00

Substation Upgrade Component

Component title	Lemoyne Substation
Project description	Confidential Information
Substation name	Lemoyne (Bus # 238889)
Substation zone	202
Substation upgrade scope	Install foundation, conduit, and grounding for new equipment. Install fencing, stoning, grading, and ground grid for expansion area. Install conduit for fiber. Relocate (1) 345 kV circuit breaker (B12). Relocate (2) 345 kV disconnect switches (D13 & D14). Install (1) 345 kV, 3000 A, 63 kAIC circuit breaker. Install (2) 345 kV, 3000 A GOAB disconnect switches. Install (2) 345 kV, 3000 A MOAB disconnect switches. Install (6) 345 kV surge arresters. Install (6) 345 kV CVTs. Install (2) 345 kV H-frames. Install (1) lot of cables, rigid bus, steel structures, fitting and grounding. Install (1) lot of fencing. Install (1) standard line relaying panel with (2) SEL-411Ls. Install (2) breaker control panels with (1) SEL-451. Install (1) lot of control cables, SEL cables and fiber. Remove foundation and steel structures of relocated equipment. Remove (1) H-frame and associated bus. Remove (3) 345 kV CVTs including foundation and steel structures. Re-terminate the Fostoria Central - Lemoyne 345 kV Line and the Troy Energy - Lemoyne 345 kV Line. Terminate the new Lemoyne - Lake Avenue 345 kV Line.

Transformer Information

None

New equipment description	Install foundation, conduit, and grounding for new equipment. Install fencing, stoning, grading, and ground grid for expansion area. Install conduit for fiber. Relocate (1) 345 kV circuit breaker (B12). Relocate (2) 345 kV disconnect switches (D13 & D14). Install (1) 345 kV, 3000 A, 63 kAIC circuit breaker. Install (2) 345 kV, 3000 A GOAB disconnect switches. Install (2) 345 kV, 3000 A MOAB disconnect switches. Install (6) 345 kV surge arresters. Install (6) 345 kV CVTs. Install (2) 345 kV H-frames. Install (1) lot of cables, rigid bus, steel structures, fitting and grounding. Install (1) lot of fencing. Install (1) standard line relaying panel with (2) SEL-411Ls. Install (2) breaker control panels with (1) SEL-451. Install (1) lot of control cables, SEL cables and fiber. Remove foundation and steel structures of relocated equipment. Remove (1) H-frame and associated bus. Remove (3) 345 kV CVTs including foundation and steel structures. Re-terminate the Fostoria Central - Lemoyne 345 kV Line and the Troy Energy - Lemoyne 345 kV Line. Terminate the new Lemoyne - Lake Avenue 345 kV Line.
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Substation assumptions	The existing substation footprint is not large enough to support the additional equipment needed to provide for the connection of the new Lemoyne - Lake Avenue 345 kV Line and the substation will require expansion.
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Real-estate description	There will be no additional property acquisition, as FirstEnergy owns the property required for the Lemoyne Substation expansion.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$.00
Component cost (in-service year)	\$.00
Substation Upgrade Component	
Component title	Lake Avenue Substation
Project description	Confidential Information
Substation name	Lake Avenue (Bus # 239725)
Substation zone	202

Substation upgrade scope

Install (1 Lot) of foundations, conduit, and grounding for new equipment. Install (1 Lot) of cable trough. Install (1 Lot) of fencing, stoning, grading, access road, and ground grid Install conduit between new substation control building and existing control building. Install (8) 345 kV circuit breakers. Install (16) 345 kV GOAB disconnect switches. Install (7) 345 kV MOAB disconnect switches. Install (21) 345 kV CCVTs. Install (21) 345 kV surge arresters. Install (2) 345 kV SSVTs. Install (10) 345 kV H-frame steel deadend structures. Install (1 Lot) of hard bus, fittings, insulators, conductor, connectors, and steel structures Install (1 Lot) of fencing for new substation yard Install (1) prefabricated control building Install (5) line terminal protection panels consisting of (2) SEL-411L relays each. Install (2) bus protection panels consisting of (2) SEL-487B relays each. Install (7) breaker failure protection panels consisting of (1) SEL-451 each. Install (1) SCADA RTU. Install (1) HMI panel including GPS clock and RTAC. Install (1) SONET ring panel consisting of SEL-ICON node. Install (1) ATS. Install (1 Lot) of control cable, SEL cables, and fiber jumpers. Remove (6) 345 kV circuit breakers. Remove (12) 345 kV disconnect switches. Remove (12) 345 kV CCVTs. Remove (12) 345 kV surge arresters. Remove (1 Lot) of 345 kV rigid bus, conductor, steel structures, and associated connectors/fittings. Re-terminate the Avon - Lake Avenue #1 and #2 345 kV Lines and the Beaver - Lake Avenue #1 and #2 345 kV Lines. Terminate the new Lemoyne - Lake Avenue 345 kV Line.

Transformer Information

None

New equipment description

Install (1 Lot) of foundations, conduit, and grounding for new equipment. Install (1 Lot) of cable trough. Install (1 Lot) of fencing, stoning, grading, access road, and ground grid Install conduit between new substation control building and existing control building. Install (8) 345 kV circuit breakers. Install (16) 345 kV GOAB disconnect switches. Install (7) 345 kV MOAB disconnect switches. Install (21) 345 kV CCVTs. Install (21) 345 kV surge arresters. Install (2) 345 kV SSVTs. Install (10) 345 kV H-frame steel deadend structures. Install (1 Lot) of hard bus, fittings, insulators, conductor, connectors, and steel structures Install (1 Lot) of fencing for new substation yard Install (1) prefabricated control building Install (5) line terminal protection panels consisting of (2) SEL-411L relays each. Install (2) bus protection panels consisting of (2) SEL-487B relays each. Install (7) breaker failure protection panels consisting of (1) SEL-451 each. Install (1) SCADA RTU. Install (1) HMI panel including GPS clock and RTAC. Install (1) SONET ring panel consisting of SEL-ICON node. Install (1) ATS. Install (1 Lot) of control cable, SEL cables, and fiber jumpers. Remove (6) 345 kV circuit breakers. Remove (12) 345 kV disconnect switches. Remove (12) 345 kV CCVTs. Remove (12) 345 kV surge arresters. Remove (1 Lot) of 345 kV rigid bus, conductor, steel structures, and associated connectors/fittings. Re-terminate the Avon - Lake Avenue #1 and #2 345 kV Lines and the Beaver - Lake Avenue #1 and #2 345 kV Lines. Terminate the new Lemoyne - Lake Avenue 345 kV Line.

Substation assumptions

The existing substation yard cannot accommodate the new Lemoyne - Lake Avenue 345 kV Line. Therefore, a new switchyard will be built adjacent to the existing 345 kV switchyard.

Real-estate description

Real estate acquisition will be required for the new 345 kV switchyard.

Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$.00
Component cost (in-service year)	\$.00

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
2024W1-IPD-LL23	238570	02BEAVER	238981	02NASA	1	138	202	Light Load IPD	Included
2024W1-IPD-S313	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S314	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-LL22	238768	02GRNFLD	238981	02NASA	1	138	202	Light Load IPD	Included
2024W1-GD-S864	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S358	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S359	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S356	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S357	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S362	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S360	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S361	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S317	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S318	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S315	238768	02GRNFLD	238874	02LAKVEW	1	138	202	Summer IPD	Included
2024W1-IPD-S316	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S321	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S354	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S322	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S355	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S319	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S320	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S353	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-GD-LL8	238768	02GRNFLD	238981	02NASA	1	138	202	Light Load Gen Deliv	Included
2024W1-N1-ST33	238768	02GRNFLD	238981	02NASA	1	138/138	202/202	Summer Thermal	Included
2024W1-IPD-S324	238768	02GRNFLD	238874	02LAKVEW	1	138	202	Summer IPD	Included
2024W1-GD-LL12	238590	02BRWELL	238728	02FORD	1	138	202	Light Load Gen Deliv	Included
2024W1-N1-ST34	238768	02GRNFLD	238981	02NASA	1	138/138	202/202	Summer Thermal	Included
2024W1-IPD-S325	238768	02GRNFLD	238874	02LAKVEW	1	138	202	Summer IPD	Included
2024W1-GD-LL9	238981	02NASA	238570	02BEAVER	1	138	202	Light Load Gen Deliv	Included
2024W1-GD-LL10	238974	02N DEPT	238590	02BRWELL	1	138	202	Light Load Gen Deliv	Included
2024W1-IPD-S323	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S369	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S370	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-IPD-S367	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S368	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S371	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S372	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-GD-S400	241877	AC2-103 TAP	238569	02BEAVER	1	345	202	Summer Gen Deliv	Excluded
2024W1-IPD-S328	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-GD-LL5	238768	02GRNFLD	238981	02NASA	1	138	202	Light Load Gen Deliv	Included
2024W1-IPD-S329	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S326	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S327	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S332	238768	02GRNFLD	238874	02LAKVEW	1	138	202	Summer IPD	Included
2024W1-IPD-S365	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S366	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S330	238768	02GRNFLD	238874	02LAKVEW	1	138	202	Summer IPD	Included
2024W1-IPD-S363	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S331	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S364	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-N1-ST38	238874	02LAKVEW	238768	02GRNFLD	1	138/138	202/202	Summer Thermal	Included
2024W1-N1-ST39	238981	02NASA	238570	02BEAVER	1	138/138	202/202	Summer Thermal	Included
2024W1-IPD-S336	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S337	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S301	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S334	238768	02GRNFLD	238874	02LAKVEW	1	138	202	Summer IPD	Included
2024W1-IPD-S302	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S335	238768	02GRNFLD	238874	02LAKVEW	1	138	202	Summer IPD	Included
2024W1-IPD-S340	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S341	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S338	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S339	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-N1-ST37	238981	02NASA	238570	02BEAVER	1	138/138	202/202	Summer Thermal	Included
2024W1-IPD-S300	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S333	238768	02GRNFLD	238874	02LAKVEW	1	138	202	Summer IPD	Included
2024W1-GD-S897	239030	02OTTAWA	238874	02LAKVEW	1	138	202	Summer Gen Deliv	Included
2024W1-GD-LL29	238768	02GRNFLD	238974	02N DEPT	1	138	202	Light Load Gen Deliv	Included
2024W1-GD-LL30	238590	02BRWELL	238728	02FORD	1	138	202	Light Load Gen Deliv	Included
2024W1-GD-LL27	238974	02N DEPT	238590	02BRWELL	1	138	202	Light Load Gen Deliv	Included
2024W1-N1-ST49	238974	02N DEPT	238590	02BRWELL	1	138/138	202/202	Summer Thermal	Included
2024W1-GD-LL33	239030	02OTTAWA	238874	02LAKVEW	1	138	202	Light Load Gen Deliv	Included
2024W1-N1-ST55	238590	02BRWELL	238728	02FORD	1	138/138	202/202	Summer Thermal	Included
2024W1-N1-ST56	238590	02BRWELL	238728	02FORD	1	138/138	202/202	Summer Thermal	Included
2024W1-GD-S861	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer Gen Deliv	Included
2024W1-IPD-S303	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-GD-LL31	238874	02LAKVEW	238768	02GRNFLD	1	138	202	Light Load Gen Deliv	Included
2024W1-GD-LL32	238768	02GRNFLD	238974	02N DEPT	1	138	202	Light Load Gen Deliv	Included
2024W1-IPD-S342	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-N1-ST48	238974	02N DEPT	238590	02BRWELL	1	138/138	202/202	Summer Thermal	Included
2024W1-IPD-S347	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S348	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S312	238768	02GRNFLD	238874	02LAKVEW	1	138	202	Summer IPD	Included
2024W1-IPD-S345	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S346	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S351	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S352	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S349	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S350	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S306	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S307	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S304	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S305	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S310	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S343	238590	02BRWELL	238728	02FORD	1	138	202	Summer IPD	Included
2024W1-IPD-S311	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S344	238590	02BRWELL	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S308	238570	02BEAVER	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-IPD-S309	238768	02GRNFLD	238981	02NASA	1	138	202	Summer IPD	Included
2024W1-32GD-S19	238569	02BEAVER	239725	02LAKEAVE	2	345	202	2032 Summer Gen Deliv	Included
2024W1-N1-ST100	238549	02AVERY	239108	02SHNRK	1	138/138	202/202	Summer Thermal	Included
2024W1-32GD-S18	238563	02BAY SH	238654	02DAV-BE	1	345	202	2032 Summer Gen Deliv	Included
2024W1-GD-S851	238981	02NASA	238570	02BEAVER	1	138	202	Summer Gen Deliv	Included
2024W1-GD-S852	238981	02NASA	238570	02BEAVER	1	138	202	Summer Gen Deliv	Included
2024W1-IPD-S394	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included
2024W1-32GD-S23	238654	02DAV-BE	241877	AC2-103 TAP	1	345	202	2032 Summer Gen Deliv	Included
2024W1-IPD-S395	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included
2024W1-32GD-S22	238654	02DAV-BE	241877	AC2-103 TAP	1	345	202	2032 Summer Gen Deliv	Included
2024W1-GD-S353	238569	02BEAVER	239725	02LAKEAVE	2	345	202	Summer Gen Deliv	Included
2024W1-32GD-S21	238654	02DAV-BE	241877	AC2-103 TAP	1	345	202	2032 Summer Gen Deliv	Included
2024W1-IPD-S393	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included
2024W1-32GD-S20	238654	02DAV-BE	239289	02HAYES	1	345	202	2032 Summer Gen Deliv	Included
2024W1-GD-S850	238874	02LAKVEW	238768	02GRNFLD	1	138	202	Summer Gen Deliv	Included
2024W1-32GD-S26	239289	02HAYES	238569	02BEAVER	1	345	202	2032 Summer Gen Deliv	Included
2024W1-GD-S848	238768	02GRNFLD	238981	02NASA	1	138	202	Summer Gen Deliv	Included
2024W1-32GD-S25	238654	02DAV-BE	241877	AC2-103 TAP	1	345	202	2032 Summer Gen Deliv	Included
2024W1-GD-S849	238768	02GRNFLD	238981	02NASA	1	138	202	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-32GD-S24	238654	02DAV-BE	241877	AC2-103 TAP	1	345	202	2032 Summer Gen Deliv	Included
2024W1-N1-ST73	238768	02GRNFLD	238974	02N DEPT	1	138/138	202/202	Summer Thermal	Included
2024W1-N1-ST76	238768	02GRNFLD	238974	02N DEPT	1	138/138	202/202	Summer Thermal	Included
2024W1-N1-ST103	239290	02HAYES	238549	02AVERY	1	138/138	202/202	Summer Thermal	Included
2024W1-GD-S855	238590	02BRWELL	238728	02FORD	1	138	202	Summer Gen Deliv	Included
2024W1-N1-ST104	239290	02HAYES	238549	02AVERY	1	138/138	202/202	Summer Thermal	Included
2024W1-GD-S856	238974	02N DEPT	238590	02BRWELL	1	138	202	Summer Gen Deliv	Included
2024W1-N1-ST101	238549	02AVERY	239108	02SHNROK	1	138/138	202/202	Summer Thermal	Included
2024W1-GD-S853	238974	02N DEPT	238590	02BRWELL	1	138	202	Summer Gen Deliv	Included
2024W1-GD-S858	238590	02BRWELL	238728	02FORD	1	138	202	Summer Gen Deliv	Included
2024W1-GD-S885	238570	02BEAVER	238845	02JONSON	1	138	202	Summer Gen Deliv	Included
2024W1-GD-S866	238549	02AVERY	239108	02SHNROK	1	138	202	Summer Gen Deliv	Included
2024W1-IPD-S380	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-IPD-S381	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-IPD-S378	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-IPD-S379	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-IPD-S382	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-GD-S865	238549	02AVERY	239108	02SHNROK	1	138	202	Summer Gen Deliv	Included
2024W1-IPD-S373	238768	02GRNFLD	238974	02N DEPT	1	138	202	Summer IPD	Included
2024W1-IPD-S376	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-IPD-S377	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-IPD-S374	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included
2024W1-IPD-S375	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-32GD-S128	241877	AC2-103 TAP	238569	02BEAVER	1	345	202	N/A	Excluded
2024W1-IPD-S391	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included
2024W1-IPD-S392	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included
2024W1-GD-S872	239290	02HAYES	238549	02AVERY	1	138	202	Summer Gen Deliv	Included
2024W1-IPD-S389	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S390	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included
2024W1-IPD-S383	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included
2024W1-IPD-S384	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included
2024W1-GD-S868	239290	02HAYES	238549	02AVERY	1	138	202	Summer Gen Deliv	Included
2024W1-IPD-S387	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-IPD-S388	238549	02AVERY	239108	02SHNROK	1	138	202	Summer IPD	Included
2024W1-IPD-S385	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included
2024W1-IPD-S386	238549	02AVERY	239290	02HAYES	1	138	202	Summer IPD	Included

New Flowgates

Confidential Information

Financial Information

Capital spend start date 03/2025

Construction start date 01/2028

Project Duration (In Months) 51

Additional Comments

Please call or email with any questions.