Proposal C - Hunterstown-New Green Valley 500kV

General Information

Proposing entity name	Competitive
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Competitive
Company proposal ID	Competitive
PJM Proposal ID	229
Project title	Proposal C - Hunterstown-New Green Valley 500kV
Project description	Hunterstown-New Green Valley 500kV
Email	Competitive
Project in-service date	06/2027
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	Competitive
Project Components	

- 1. North Delta 500/230kV Upgrade
- 2. Northeast 230kV Upgrade
- 3. Peach Bottom 500kV Upgrade
- 4. Doubs 500/230kV Upgrade
- 5. Conastone 500kV Upgrade
- 6. Ox 500kV Upgrade

North Delta-Northeast 230kV
Hunterstown-New Green Valley 500kV
New Green Valley 500kV
Hunterstown 500kV Upgrade

Substation Upgrade Component

Component title	North Delta 500/230kV Upgrade
Project description	Competitive
Substation name	North Delta
Substation zone	PECO
Substation upgrade scope	Expand the North Delta 230kV ring bus by adding one 230kV circuit breaker and its associated disconnect switches along with one 230kV line terminal and line disconnect switch for the new 230kV line to Northeast Substation. Upgrade (4) 500kV breakers to a higher rating of 80kA
Transformer Information	
None	
New equipment description	One (1) 230kV circuit breaker, two (2) 230kV circuit breaker disconnect switches, one (1) 230kV line disconnect switch.
Substation assumptions	This proposal assumes that all necessary outages will be available; existing AC, DC, and telecom. systems will accommodate the new equipment; geotechnical data is available; the existing cable trench has space for the new cables; the existing control house has space for the new relay panels; existing yard station equipment does not need to be replaced except for the associated line relays and existing line interchange metering exists and does not need to be replaced. The future 500/230kV North Delta Substation will include a 230kV ring bus with an open line position that will allow for the installation of the new 230kV line from Northeast Substation
Real-estate description	No substation expansion is anticipated.
Construction responsibility	Competitive
Benefits/Comments	Competitive
Component Cost Details - In Current Year \$	

Engineering & design Competitive Permitting / routing / siting Competitive ROW / land acquisition Competitive Auterials & equipment Competitive Construction & commissioning Competitive Construction management Competitive Overheads & miscellaneous costs Competitive Contingency Competitive Cotargoment cost S8,440,072.00 Component cost (in-service year) S9,178,308.00 Substation Upgrade Component Competitive Component title Northeast 230kV Upgrade Project description Competitive Substation rune Northeast 230kV Vuprade Substation upgrade scope Rebuild the Northeast 230kV Vard by constructing a seven-breaker 230kV ring bus along with respring the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. Funct Rebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with respring the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. None Ymo (2) 230/115kV 750MVA XFMR disconnect switches, four (4) 230kV Jine disconnect switches, four (4) 230kV Jine disconnect switches, four		
ROW / land acquisition Competitive Materials & equipment Competitive Construction & commissioning Competitive Construction management Competitive Overheads & miscellaneous costs Competitive Contingency Competitive Total component cost S8,440,072.00 Component cost (in-service year) S9,178,308.00 Substation Upgrade Component Substation Upgrade Component Competitive Competitive Substation name Northeast 230kV Upgrade Substation name BGE Substation name BGE Substation upgrade scope Resigning XFMRs with two (2) 230/15kV 750MVA XFMRs, This project will also install the new 230kV Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/15kV 750MVA XFMRs, This project will also install the new 230kV Northeast 230kV XFMR disconnect switches, seven (7) 230kV K	Engineering & design	Competitive
Materials & equipment Competitive Construction & commissioning Competitive Construction management Competitive Overheads & miscellaneous costs Competitive Contingency Competitive Total component cost S8,440,072.00 Component cost (in-service year) S9,178,308.00 Substation Upgrade Component S9,178,308.00 Component title Northeast 230kV Upgrade Project description Competitive Substation name Northeast 230kV upgrade Substation name BGE Substation upgrade scope BGE Substation upgrade scope Treplacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. Fransformer Information Two (2) 230/115kV 750MVA XFMR disconnect switches, seven (7) 230kV in	Permitting / routing / siting	Competitive
Construction & commissioning Competitive Construction management Competitive Overheads & miscellaneous costs Competitive Contingency Competitive Total component cost S8,440,072.00 Component cost (in-service year) S9,178,308.00 Substation Upgrade Component S9,178,308.00 Component title Northeast 230kV Upgrade Project description Competitive Substation name Northeast 230kV Upgrade Substation zone BGE Substation upgrade scope Rebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. None Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV line	ROW / land acquisition	Competitive
Construction management Competitive Overheads & miscellaneous costs Competitive Contingency Competitive Total component cost \$8,440,072.00 Component cost (in-service year) \$9,178,308.00 Substation Upgrade Component \$9,178,308.00 Component title Northeast 230kV Upgrade Project description Competitive Substation name Northeast 230kV Upgrade Substation zone BGE Substation upgrade scope Rebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. None You (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV is circuit breaker disconnect switches, four (4) 230kV line	Materials & equipment	Competitive
Overheads & miscellaneous costs Competitive Contingency Competitive Total component cost \$8,440,072.00 Component cost (in-service year) \$9,178,308.00 Substation Upgrade Component Substation Upgrade Component Component title Northeast 230kV Upgrade Project description Competitive Substation name Northeast Substation zone BGE Substation upgrade scope Rebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. None Two (2) 230/115kV 750MVA XFMR disconnect switches, seven (7) 230kV circuit breaker disconnect switches, four (4) 230kV line	Construction & commissioning	Competitive
Contingency Competitive Contingency Sompetitive Total component cost Se,440,072.00 Component cost (in-service year) Sp178,308.00 Substation Upgrade Component Northeast 230kV Upgrade Component title Northeast 230kV Upgrade Project description Competitive Substation name Northeast Substation zone BGE Substation upgrade scope Rebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with renew 230kV Northeast to North Delta line. Transformer Information Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV line None Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, four (4) 230kV incit if beaker disconnect switches, four (4) 230kV incit if beak	Construction management	Competitive
Total component cost \$8,440,072.00 Component cost (in-service year) \$9,178,308.00 Substation Upgrade Component Northeast 230kV Upgrade Component title Northeast 230kV Upgrade Project description Competitive Substation name Northeast Substation zone BGE Substation upgrade scope Rebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. Transformer Information Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV (incur breaker, fourteen (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	Overheads & miscellaneous costs	Competitive
Component cost (in-service year) \$9,178,308.00 Substation Upgrade Component Northeast 230kV Upgrade Component title Northeast 230kV Upgrade Project description Competitive Substation name Northeast Substation zone BGE Substation upgrade scope Rebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. Transformer Information Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV circuit breakers, fourteen (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	Contingency	Competitive
Substation Upgrade Component Northeast 230kV Upgrade Component title Northeast 230kV Upgrade Project description Competitive Substation name Northeast Substation zone BGE Substation upgrade scope Rebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. Transformer Information Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV circuit breakers, fourteen (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	Total component cost	\$8,440,072.00
Component title Northeast 230kV Upgrade Project description Competitive Substation name Northeast Substation zone BGE Substation upgrade scope Rebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. Transformer Information Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV circuit breaker (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	Component cost (in-service year)	\$9,178,308.00
Project descriptionCompetitiveSubstation nameNortheastSubstation zoneBGESubstation upgrade scopeRebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line.Transformer InformationTime (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV circuit breakers, fourteen (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	Substation Upgrade Component	
Substation name Northeast Substation zone BGE Substation upgrade scope Rebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. Transformer Information Vone None Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV circuit breakers, four (4) 230kV line	Component title	Northeast 230kV Upgrade
Substation zoneBGESubstation upgrade scopeRebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line.Transformer InformationNoneNoneTwo (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV circuit breakers, fourteen (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	Project description	Competitive
Substation upgrade scopeRebuild the Northeast 230kV yard by constructing a seven-breaker 230kV ring bus along with replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line.Transformer InformationTwo (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV circuit breakers, fourteen (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	Substation name	Northeast
replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install the new 230kV Northeast to North Delta line. Transformer Information None New equipment description Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV circuit breakers, fourteen (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	Substation zone	BGE
None Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV circuit breakers, fourteen (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	Substation upgrade scope	replacing the existing XFMRs with two (2) 230/115kV 750MVA XFMRs. This project will also install
New equipment description Two (2) 230/115kV 750MVA XFMRs, two (2) 230kV XFMR disconnect switches, seven (7) 230kV circuit breakers, fourteen (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	Transformer Information	
circuit breakers, fourteen (14) 230kV circuit breaker disconnect switches, four (4) 230kV line	None	
terminals, four (4) 230kV line disconnect switches, and one (1) control building.	New equipment description	

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Substation assumptions	This proposal assumes that all necessary outages will be available; existing AC, DC, and telecom. systems will accommodate the new equipment; geotechnical data is available; the existing cable trench has space for the new cables; the existing control house has space for the new relay panels; existing yard station equipment does not need to be replaced except for the associated line relays and existing line interchange metering exists and does not need to be replaced.
Real-estate description	No substation expansion is anticipated.
Construction responsibility	Competitive
Benefits/Comments	Competitive
Component Cost Details - In Current Year \$	
Engineering & design	Competitive
Permitting / routing / siting	Competitive
ROW / land acquisition	Competitive
Materials & equipment	Competitive
Construction & commissioning	Competitive
Construction management	Competitive
Overheads & miscellaneous costs	Competitive
Contingency	Competitive
Total component cost	\$56,434,017.00
Component cost (in-service year)	\$61,370,184.00
Substation Upgrade Component	
Component title	Peach Bottom 500kV Upgrade
Project description	Competitive
Substation name	Peach Bottom
Substation zone	PECO

Substation upgrade scope	Rebuild two (2) Peach Bottom South main busses and upgrade four (4) 500kV breakers to a higher rating of 80kA
Transformer Information	
None	
New equipment description	Upgrade four (4) 500kV breakers
Substation assumptions	This proposal assumes that all necessary outages will be available; existing AC, DC, and telecom. systems will accommodate the new equipment; geotechnical data is available; ground grid upgrades will not be needed; the existing cable trench has space for the new cables; the existing control house has space for the new relay panels; existing yard station equipment does not need to be replaced except for the associated line relays and existing line interchange metering exists and does not need to be replaced.
Real-estate description	No substation expansion is anticipated.
Construction responsibility	Competitive
Benefits/Comments	Competitive
Component Cost Details - In Current Year \$	
Engineering & design	Competitive
Permitting / routing / siting	Competitive
ROW / land acquisition	Competitive
Materials & equipment	Competitive
Construction & commissioning	Competitive
Construction management	Competitive
Overheads & miscellaneous costs	Competitive
Contingency	Competitive
Total component cost	\$12,535,570.00
Component cost (in-service year)	\$13,632,031.00

Substation Upgrade Component

Component title	Doubs 500/230kV Upgrade		
Project description	Competitive		
Substation name	Doubs		
Substation zone	APS		
Substation upgrade scope	Upgrade 500/230kV transforme	ers #01 and #03 at	Doubs
Transformer Information			
	Name		Capacity (MVA)
Transformer	#01		
	High Side	Low Side	Tertiary
Voltage (kV)	500	230	
	Name		Capacity (MVA)
Transformer	#03		
	High Side	Low Side	Tertiary
Voltage (kV)	500	230	
New equipment description	Two (2) new 500/230kV transfo	ormers	
Substation assumptions	systems will accommodate the upgrades will not be needed; th control house has space for the be replaced except for the ass does not need to be replaced.	new equipment; gene existing cable tre e new relay panels; pociated line relays a	will be available; existing AC, DC, and telecom. eotechnical data is available; ground grid ench has space for the new cables; the existing existing yard station equipment does not need to and existing line interchange metering exists and
Real-estate description	No substation expansion is ant	icipated.	

Construction responsibility	Competitive
Benefits/Comments	Competitive
Component Cost Details - In Current Year \$	
Engineering & design	Competitive
Permitting / routing / siting	Competitive
ROW / land acquisition	Competitive
Materials & equipment	Competitive
Construction & commissioning	Competitive
Construction management	Competitive
Overheads & miscellaneous costs	Competitive
Contingency	Competitive
Total component cost	\$25,202,609.00
Component cost (in-service year)	\$27,407,029.00
Substation Upgrade Component	
Component title	Conastone 500kV Upgrade
Project description	Competitive
Substation name	Conastone
Substation zone	BGE
Substation upgrade scope	Upgrade terminal equipment at Conastone 500kV station and upgrade two (2) 230kV breakers to a higher rating of 63kA
Transformer Information	

Transformer Information

None

New equipment description	New terminal equipment
Substation assumptions	This proposal assumes that all necessary outages will be available; existing AC, DC, and telecom. systems will accommodate the new equipment; geotechnical data is available; ground grid upgrades will not be needed; the existing cable trench has space for the new cables; the existing control house has space for the new relay panels; existing yard station equipment does not need to be replaced except for the associated line relays and existing line interchange metering exists and does not need to be replaced.
Real-estate description	No substation expansion is anticipated.
Construction responsibility	Competitive
Benefits/Comments	Competitive
Component Cost Details - In Current Year \$	
Engineering & design	Competitive
Permitting / routing / siting	Competitive
ROW / land acquisition	Competitive
Materials & equipment	Competitive
Construction & commissioning	Competitive
Construction management	Competitive
Overheads & miscellaneous costs	Competitive
Contingency	Competitive
Total component cost	\$770,574.00
Component cost (in-service year)	\$837,974.00
Substation Upgrade Component	
Component title	Ox 500kV Upgrade
Project description	Competitive

Substation name	Ox 500kV
Substation zone	Dominion
Substation upgrade scope	Upgrade one (1) 500kV breaker to a higher rating of 50kA
Transformer Information	
None	
New equipment description	Upgrade one (1) 500kV breaker to a higher rating of 50kA
Substation assumptions	This proposal assumes that all necessary outages will be available; existing AC, DC, and telecom. systems will accommodate the new equipment; geotechnical data is available; ground grid upgrades will not be needed; the existing cable trench has space for the new cables; the existing control house has space for the new relay panels; existing yard station equipment does not need to be replaced except for the associated line relays and existing line interchange metering exists and does not need to be replaced.
Real-estate description	No substation expansion is anticipated.
Construction responsibility	Competitive
Benefits/Comments	Competitive
Component Cost Details - In Current Year \$	
Engineering & design	Competitive
Permitting / routing / siting	Competitive
ROW / land acquisition	Competitive
Materials & equipment	Competitive
Construction & commissioning	Competitive
Construction management	Competitive
Overheads & miscellaneous costs	Competitive
Contingency	Competitive
Total component cost	\$1,171,097.00

Component cost (in-service year)

\$1,273,530.00

Greenfield Transmission Line Component

Component title	North Delta-Northeast 230kV	
Project description	Competitive	
Point A	North Delta 230kV	
Point B	Northeast 230kV	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	1886.000000	2160.000000
Winter (MVA)	1998.000000	2286.000000
Conductor size and type	230-kV AC single-circuit 1590 kcmil ACSS/AW "Falcon"	
Nominal voltage	AC	
Nominal voltage	230	
Line construction type	Overhead	
General route description	Approximately 36.5 miles between 230kV North Substation	Delta Substation and the 230kV Northeast
Terrain description	North Delta-Northeast 230kV is mostly in rural areas to the north and urban to the south. Northern portion of the route is located in southern Pennsylvania with rural and farmed properties and as the route heads to the south, it ends to the northeast of Baltimore.	
Right-of-way width by segment	The greenfield transmission line will require an 1 100 feet in farmland	ROW with a width of 85 feet in residential areas and

Electrical transmission infrastructure crossings

Civil infrastructure/major waterway facility crossing plan

Environmental impacts

Existing transmission line crossing between #132 and #133, Existing transmission line crossing between #136 and #137, Existing transmission line crossing between #141 and #142, Existing transmission line crossing between #145 and #146, Existing transmission line crossing between #148 and #149, Existing transmission line crossing between #151 and #152, Existing transmission line crossing between #156 and #157, Existing transmission line crossing between #177 and #178

All civil infrastructure and major waterway crossings can be found in the attached crossing plan

The Team conducted an assessment of anticipated permits associated with the proposed route and have supported the evaluation of routing and development scenarios throughout the process. The assessments included a review of Federal, state, regional, and local regulatory requirements that could potentially impact each of the individual project scenarios. The circuits and associated stations are located in Pennsylvania and Maryland. A GIS analysis was performed to route away from known public lands and no public lands will be required for this project scope. Reviews were performed using publicly available GIS data from both MD and PA sources. Upon award a detailed field based analysis will be completed. No transmission towers are located in stream crossings which will minimize stream bed impacts. NWI wetlands data, FEMA floodplain layers, and state datasets were reviewed as part of the project analysis. Known wetlands areas were used for avoidance however field analysis will confirm total proposed temporary and permanent impacts. PSE&G has been able to largely avoid permanent impacts to wetlands for overhead transmission projects and will work to shift tower foundations wherever feasible in detailed design upon confirmation of field conditions. The proposed route will intersect FEMA mapped floodplains however only the tower foundations will have assumed impacts. Field based delineations and assessments will include the above mentioned wetlands and streams delineations, habitat surveys for species identified by the records review, and cultural resource studies will be completed for the entire project (including known construction only impacts). Following field studies, data will be incorporated into the engineering model so that tower locations and applicable station location are sited to maximize avoidance of sensitive resources. Towers will be placed outside of wetlands, streams, known threatened and endangered species habitat and cultural/historical areas and floodplains to the greatest extent possible. Construction timing will be scheduled in accordance with USFWS and state agency specifications to minimize impacts to threatened and endangered habitat locations. At a minimum, approvals and permits are anticipated to be acquired from the Maryland Public Service Commission, Pennsylvania Public Utility Commission, USACE, USFWS, MDE, PADEP, MD County Soil Conservation Districts and in accordance with the standards & specifications of applicable local ordinance

Monopole - single circuit

Competitive

Competitive

Tower characteristics

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design	Competitive	
Permitting / routing / siting	Competitive	
ROW / land acquisition	Competitive	
Materials & equipment	Competitive	
Construction & commissioning	Competitive	
Construction management	Competitive	
Overheads & miscellaneous costs	Competitive	
Contingency	Competitive	
Total component cost	\$188,387,826.00	
Component cost (in-service year)	\$204,865,720.00	
Greenfield Transmission Line Component		
Component title	Hunterstown-New Green Valley 500kV	
Project description	Competitive	
Point A	Hunterstown 500kV	
Point B	New Green Valley 500kV	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	3341.000000	4156.000000
Winter (MVA)	3759.000000	4595.000000
Conductor size and type	500-kV AC single-circuit 954 kcmil ACSR "Cardi	inal"
Nominal voltage	AC	

Nominal voltage	500
Line construction type	Overhead
General route description	Approximately 40.1 miles between 500kV Hunterstown Substation and the 500kV New Green Valley Substation
Terrain description	Hunterstown-New Green Valley 500kV begins in Southern PA and heads in a southerly direction until the New Green Valley Station. Much of this route is in rural areas and is routed to the west of Taneytown.
Right-of-way width by segment	The greenfield transmission line will require an ROW with a width of 150 feet in farmland
Electrical transmission infrastructure crossings	Existing 115kV wooden H-frame transmission line crossing between #137 and #138, Existing 500kV transmission line crossing between #26 and #27, Existing transmission (appears to be 230kV) line crossing between #141 and #142, Existing transmission (or distribution) line crossing between #34 and #35
Civil infrastructure/major waterway facility crossing plan	All civil infrastructure and major waterway crossings can be found in the attached crossing plan

en inc sit str flo US loc Pu PA sp	r species identified by the records review, and cultural resource studies will be completed for the ntire project (including known construction only impacts). Following field studies, data will be corporated into the engineering model so that tower locations and applicable station location are ted to maximize avoidance of sensitive resources. Towers will be placed outside of wetlands, reams, known threatened and endangered species habitat and cultural/historical areas and bodplains to the greatest extent possible. Construction timing will be scheduled in accordance with SFWS and state agency specifications to minimize impacts to threatened and endangered habitat cations. At a minimum, approvals and permits are anticipated to be acquired from the Maryland ublic Service Commission, Pennsylvania Public Utility Commission, USACE, USFWS, MDE, ADEP, MD County Soil Conservation Districts and in accordance with the standards & becifications of applicable local ordinance onopole - single circuit
Co	ompetitive

Tower characteristics

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design	Competitive
Permitting / routing / siting	Competitive
ROW / land acquisition	Competitive
Materials & equipment	Competitive

Construction & commissioning	Competitive	
Construction management	Competitive	
Overheads & miscellaneous costs	Competitive	
Contingency	Competitive	
Total component cost	\$190,189,567.00	
Component cost (in-service year)	\$206,825,054.00	
Greenfield Substation Component		
Component title	New Green Valley 500kV	
Project description	Competitive	
Substation name	New Green Valley	
Substation description	500kV circuit 5011 between Conastone, and B	on with a five (5) breaker ring bus. Cut and loop the ighton into new Green Valley 500kV Station. Cut s, and Brighton into new Green Valley 500kV Station
Nominal voltage	AC	
Nominal voltage	500kV	
Transformer Information		
None		
Major equipment description	500kV five (5) breaker ring bus	
	Normal ratings	Emergency ratings
Summer (MVA)	0.000000	0.000000
Winter (MVA)	0.000000	0.000000

Environmental assessment

Outreach plan

Land acquisition plan

A GIS analysis was performed to locate known public lands and no public lands will be required for this project scope. Environmental reviews were performed using publicly available GIS data from Maryland sources. Upon award a detailed field based analysis will be completed. NWI wetlands data, FEMA floodplain layers, and state datasets were reviewed as part of the project analysis. Field based delineations and assessments will include wetlands and streams delineations, habitat surveys for species identified by the records review, and cultural resource studies will be completed for the entire project (including known temporary –construction based impacts). Following field studies, data will be incorporated into the engineering model so that the station development maximizes avoidance of sensitive resources. Development will be placed outside of wetlands, streams, known threatened and endangered species habitat and cultural/historical areas and floodplains to the greatest extent possible. Construction timing will be scheduled in accordance with USFWS and state agency specifications to minimize impacts to threatened and endangered habitat locations. At a minimum, approvals and permits are anticipated to be acquired from the Maryland Public Service Commission, USACE, USFWS, MDE, MD County Soil Conservation District and in accordance with the standards and specifications of applicable local ordinances.

PSE&G will coordinate all outreach, real estate-related requests, and efforts to identify environmental and non-environmental conditions affecting the properties along the proposed Project route. Working collaboratively with our internal Outreach Team, PSE&G will coordinate stakeholder engagement and public outreach with land acquisition planning. This level of collaboration will help to ensure proactive and cohesive stakeholder communications in order to better serve landowners and impacted individuals and entities. PSE&G contemplates the need for access roads and areas, as part of any lands to be acquired.

PSEG has identified several properties that are suitable for this proposed solution. The Project Team has initiated contact with the property owners and will continue to work to acquire site control in the event of award. The Project Team will work with impacted stakeholders, municipalities, and local authorities to obtain the necessary property rights to construct and maintain its facilities. While this solution is located outside of PSE&G territory, PSE&G is committed to a transparent, timely, and efficient land rights acquisition process for any site control required. PSE&G intends to utilize the same land acquisition professionals from start to finish, ensuring landowners have the same team assigned to their negotiations throughout the process.

Competitive

Competitive

Competitive

Competitive

Competitive

Component Cost Details - In Current Year \$

Engineering & design

Benefits/Comments

Permitting / routing / siting

Construction responsibility

ROW / land acquisition

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Materials & equipment	Competitive
Construction & commissioning	Competitive
Construction management	Competitive
Overheads & miscellaneous costs	Competitive
Contingency	Competitive
Total component cost	\$41,121,477.00
Component cost (in-service year)	\$44,718,288.00
Substation Upgrade Component	
Component title	Hunterstown 500kV Upgrade
Project description	Competitive
Substation name	Hunterstown
Substation zone	ME
Substation upgrade scope	Connect the new Hunterstown to Green Valley 500kV circuit to an existing position at Hunterstown 500kV
Transformer Information	
None	
New equipment description	n/a
Substation assumptions	This proposal assumes that all necessary outages will be available; existing AC, DC, and telecom. systems will accommodate the new equipment; geotechnical data is available; ground grid upgrades will not be needed; the existing cable trench has space for the new cables; the existing control house has space for the new relay panels; existing yard station equipment does not need to be replaced except for the associated line relays and existing line interchange metering exists and does not need to be replaced.
Real-estate description	No substation expansion is anticipated.
Construction responsibility	Competitive

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Benefits/Comments	Competitive
Component Cost Details - In Current Year \$	
Engineering & design	Competitive
Permitting / routing / siting	Competitive
ROW / land acquisition	Competitive
Materials & equipment	Competitive
Construction & commissioning	Competitive
Construction management	Competitive
Overheads & miscellaneous costs	Competitive
Contingency	Competitive
Total component cost	\$4,861,755.00
Component cost (in-service year)	\$5,287,002.00
Congostion Drivers	

Congestion Drivers

None

Existing Flowgates

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-GD-S17	7 0 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-W12	23204544	27LINCOLN	204538	27STRABAN	1	115	227	Winter Gen Deliv	Included
2022W3-GD-S16	9 2 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-GD-S28	0235105	01DOUBS	235459	01DOUBS	3	500/230	201	Summer Gen Deliv	Included
2022W3-GD-W38	3 213869	PCHBTMTP	214087	COOPER2	1	230	230	Winter Gen Deliv	Included
2022W3-GD-S11	9213869	PCHBTMTP	214087	COOPER2	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S17	7 2 08047	PPL-BGE TIE	220963	CONASTON	1	230	229/232	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-GD-S20	3 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-W4	204544	27LINCOLN	204538	27STRABAN	1	115	227	Winter Gen Deliv	Included
2022W3-GD-S28	1200065	PCHBTM2S	200064	PCHBTM1S	Z1	500	230	Summer Gen Deliv	Included
2022W3-GD-W12	26200532	26ROXBURY	235188	01GREENE	1	138	226/201	Winter Gen Deliv	Included
2022W3-GD-S12	5204529	27GERMANTN	204530	27GERMANTN	1	115/138	227	Summer Gen Deliv	Included
2022W3-GD-S16	9 2 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-GD-W12	2200512	26LEWISTWN	200519	26REED TAP	1	115	226	Winter Gen Deliv	Included
2022W3-GD-S77	9200512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-N1-ST2	1@04544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	17204544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	1235105	01DOUBS	235459	01DOUBS	3	500/230	201/201	Summer N-1 Thermal	Included
2022W3-GD-S16	5 2 13846	NOTTREAC	213869	PCHBTMTP	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S82	8235105	01DOUBS	235459	01DOUBS	3	500/230	201	Summer Gen Deliv	Included
2022W3-GD-W29	9 235463	01TANEY	235450	01CARROL	1	138	201	Winter Gen Deliv	Included
2022W3-GD-W13	383300004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-S27	6204514	27TMI	204502	27JACKSON	1	230	227	Summer Gen Deliv	Included
2022W3-GD-W3	204550	27ORRTANNA	204544	27LINCOLN	1	115	227	Winter Gen Deliv	Included
2022W3-N1-ST2	0 2 00512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-N1-ST2	4521034544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1	Included
2022W3-GD-S17	6 2 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-N1-ST2	10235105	01DOUBS	235459	01DOUBS	3	500/230	201/201	Summer N-1 Thermal	Included
2022W3-N1-ST2	1208069	PPL-BGE TIE	220964	GRACETON	1	230/230	229/232	Summer N-1 Thermal	Included
2022W3-N1-ST2	1 2 21090	GLENARM2	221089	WINDYED1	1	115/115	232/232	Summer N-1 Thermal	Included
2022W3-GD-W8	4204544	27LINCOLN	204538	27STRABAN	1	115	227	Winter Gen Deliv	Included
2022W3-GD-S13	5213869	PCHBTMTP	214087	COOPER2	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S17	7 8 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S29	9235105	01DOUBS	235459	01DOUBS	3	500/230	201	Summer Gen Deliv	Included
2022W3-GD-S30	0235105	01DOUBS	235459	01DOUBS	3	500/230	201	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-GD-W94	9213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Winter Gen Deliv	Included
2022W3-GD-W50) 200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Winter Gen Deliv	Included
2022W3-GD_L33	1235105	01DOUBS	235459	01DOUBS	1	500/230	201/201	Light Load Gen Deliv	Included
2022W3-GD-S84	213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Summer Gen Deliv	Included
2022W3-GD-W95	5235105	01DOUBS	235459	01DOUBS	3	500/230	201	Winter Gen Deliv	Included
2022W3-GD-S85	213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S13	9208071	SAHA34TP	208069	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-GD-W13	32200065	PCHBTM2S	200064	PCHBTM1S	Z2	500	230	Winter Gen Deliv	Included
2022W3-GD-S17	7 8 08048	OTCR	208047	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-GD-S78	0200512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-S12	7208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Summer Gen Deliv	Included
2022W3-GD-W44	204550	27ORRTANNA	204544	27LINCOLN	1	115	227	Winter Gen Deliv	Included
2022W3-GD-S16	9 2 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-N1-ST2	2 0 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S16	6 8 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S16	6 2 00064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-GD-S17	8 8 00512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-S14	7213869	PCHBTMTP	214087	COOPER2	1	230	230	Summer Gen Deliv	Included
2022W3-GD-W83	31213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Winter Gen Deliv	Included
2022W3-GD-W83	32213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Winter Gen Deliv	Included
2022W3-GD-S16	7 2 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-GD-S17	0 2 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S32	6208048	OTCR	208047	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-GD-S15	2200512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-S95	213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S15	5208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Summer Gen Deliv	Included
2022W3-GD-W58	3 204538	27STRABAN	204529	27GERMANTN	1	115	227	Winter Gen Deliv	Included
2022W3-GD-S96	213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-GD-S20)3 8 21092	FIVE.FOR	221096	ROCKRGE1	1	115	232	Summer Gen Deliv	Included
2022W3-N1-ST2	40200512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-GD-S31	2208047	PPL-BGE TIE	220963	CONASTON	1	230	229/232	Summer Gen Deliv	Included
2022W3-GD-S16	6 8 13869	PCHBTMTP	214087	COOPER2	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S17	70 2 00064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-N1-ST1	09221092	FIVE.FOR	221096	ROCKRGE1	1	115/115	232/232	Summer N-1 Thermal	Included
2022W3-N1-ST2	30235105	01DOUBS	235459	01DOUBS	3	500/230	201/201	Summer N-1 Thermal	Included
2022W3-GD-S16	6 9 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-N1-ST2	3200064	PCHBTM1S	200004	CNASTONE	1	500/500	230/232	Summer N-1 Thermal	Included
2022W3-N1-ST2	3 2 04544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	3 3 04544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	32208071	SAHA34TP	208069	PPL-BGE TIE	1	230/230	229/229	Summer N-1 Thermal	Included
2022W3-N1-ST2	3@08069	PPL-BGE TIE	220964	GRACETON	1	230/230	229/232	Summer N-1 Thermal	Included
2022W3-N1-ST1	1@07922	BRIS	204515	27YORKANA	1	230/230	229/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	37208069	PPL-BGE TIE	220964	GRACETON	1	230/230	229/232	Summer N-1 Thermal	Included
2022W3-GD-S17	79 3 21092	FIVE.FOR	221096	ROCKRGE1	1	115	232	Summer Gen Deliv	Included
2022W3-GD-S16	64208071	SAHA34TP	208069	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-GD-W1	21 210 0532	26ROXBURY	235188	01GREENE	1	138	226/201	Winter Gen Deliv	Included
2022W3-GD-S17	79 8 20962	NWEST311	220972	GRANITE1	1	230	232	Summer Gen Deliv	Included
2022W3-GD-S17	71 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-W1	08204530	27GERMANTN	235463	01TANEY	1	138	227/201	Winter Gen Deliv	Included
2022W3-GD-S17	71 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-S17	79 3 13746	6SOJOURNER	313822	6RUNWAY	1	230	345	Summer Gen Deliv	Included
2022W3-GD-W8	49204538	27STRABAN	204529	27GERMANTN	1	115	227	Winter Gen Deliv	Included
2022W3-GD-W1	0 520 4530	27GERMANTN	235463	01TANEY	1	138	227/201	Winter Gen Deliv	Included
2022W3-GD-S16	67242563	05BOXWD	242603	05CLIFFR	1	138	205	Summer Gen Deliv	Included
2022W3-N1-ST1	2 9 21092	FIVE.FOR	221096	ROCKRGE1	1	115/115	232/232	Summer N-1 Thermal	Included
2022W3-GD-S17	71 8 08071	SAHA34TP	208069	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-N1-ST9	204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S17	1 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-W84	1213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Winter Gen Deliv	Included
2022W3-GD-W1	1210 0532	26ROXBURY	235188	01GREENE	1	138	226/201	Winter Gen Deliv	Included
2022W3-GD-S17	9 2 04515	27YORKANA	208048	OTCR	1	230	227/229	Summer Gen Deliv	Included
2022W3-GD-W84	2213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Winter Gen Deliv	Included
2022W3-GD-W12	2 8210 0512	26LEWISTWN	200519	26REED TAP	1	115	226	Winter Gen Deliv	Included
2022W3-N1-ST7	204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST12	2 2 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S97	207922	BRIS	204515	27YORKANA	1	230	227/229	Summer Gen Deliv	Included
2022W3-GD-S17	0 8 08069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Summer Gen Deliv	Included
2022W3-N1-ST24	4200512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-GD-S16	7 2 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-GD-W11	520 0004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-S16	7 2 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S10	3200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-N1-ST3	235105	01DOUBS	235459	01DOUBS	3	500/230	201/201	Summer N-1 Thermal	Included
2022W3-GD-S10	4213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Summer Gen Deliv	Included
2022W3-N1-ST4	235105	01DOUBS	235459	01DOUBS	1	500/230	201/201	Summer N-1 Thermal	Included
2022W3-GD-S20	4 2 21092	FIVE.FOR	221096	ROCKRGE1	1	115	232	Summer Gen Deliv	Included
2022W3-GD-S34	0204515	27YORKANA	208048	OTCR	1	230	227/229	Summer Gen Deliv	Included
2022W3-GD-S18	0 2 00512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-S18	0 2 00512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-W11	423 5463	01TANEY	235450	01CARROL	1	138	201	Winter Gen Deliv	Included
2022W3-GD-S20	5 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-W11	22 335463	01TANEY	235450	01CARROL	1	138	201	Winter Gen Deliv	Included
2022W3-GD-S17	2 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-S17	2 0 0004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-N1-ST1	39207922	BRIS	204515	27YORKANA	1	230/230	229/227	Summer N-1 Thermal	Included
2022W3-N1-ST1	9204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST1	4 0 07922	BRIS	204515	27YORKANA	1	230/230	229/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	0204530	27GERMANTN	235463	01TANEY	1	138/138	227/201	Summer N-1 Thermal	Included
2022W3-GD-S17	71 2 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-GD-S17	71 8 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-N1-ST1	8 204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-WT	142100512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Winter N-1 Thermal	Included
2022W3-N1-ST1	2 204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST1	33207922	BRIS	204515	27YORKANA	1	230/230	229/227	Summer N-1 Thermal	Included
2022W3-N1-ST1	3204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST1	4204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S17	72 8 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-GD-S18	30 2 00512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-S17	2 8 00064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-GD-S17	2 2 00064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-GD-S19	0242563	05BOXWD	242603	05CLIFFR	1	138	205	Summer Gen Deliv	Included
2022W3-GD-S20	5 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD_L3	11235105	01DOUBS	235459	01DOUBS	3	500/230	201/201	Light Load Gen Deliv	Included
2022W3-GD-S17	72 2 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S17	72 2 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S34	6200065	PCHBTM2S	200066	PCHBTM1N	2	500	230	Summer Gen Deliv	Included
2022W3-N1-ST2	1 204530	27GERMANTN	235463	01TANEY	1	138/138	227/201	Summer N-1 Thermal	Included
2022W3-N1-ST2	2 204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-WT	152407922	BRIS	204515	27YORKANA	1	230/230	229/227	Winter N-1 Thermal	Included
2022W3-N1-ST2	4204544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	5204544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S17	3 2 00064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-GD-S20	1200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-S20	2200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-N1-ST3	9204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST4	1 204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST42	2204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S17	2 9 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-N1-WT4	3204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-N1-WT4	4204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD_L81	242563	05BOXWD	242603	05CLIFFR	1	138/138	205/205	Light Load Gen Deliv	Included
2022W3-N1-WT4	5204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-N1-ST3	5235463	01TANEY	235450	01CARROL	1	138/138	201/201	Summer N-1 Thermal	Included
2022W3-N1-ST1	5 @ 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-WT1	6 2 07922	BRIS	204515	27YORKANA	1	230/230	229/227	Winter N-1 Thermal	Included
2022W3-N1-ST3	7235463	01TANEY	235450	01CARROL	1	138/138	201/201	Summer N-1 Thermal	Included
2022W3-N1-LLT1	4235105	01DOUBS	235459	01DOUBS	3	500/230	201/201	Light Load N-1	Included
2022W3-N1-ST5)204538	27STRABAN	204529	27GERMANTN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST5	1 204538	27STRABAN	204529	27GERMANTN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-LLT1	8235105	01DOUBS	235459	01DOUBS	1	500/230	201/201	Light Load N-1	Included
2022W3-N1-WT6	2235463	01TANEY	235450	01CARROL	1	138/138	201/201	Winter N-1 Thermal	Included
2022W3-N1-ST5	3204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S17	3 2 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-N1-WT5	3204544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-N1-ST1	3 2 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-WT5	8204544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-N1-WT6	0235463	01TANEY	235450	01CARROL	1	138/138	201/201	Winter N-1 Thermal	Included
2022W3-LD-ST1	1 200004	CNASTONE	200064	PCHBTM1S	1	500/500	232/230	Load Deliverability	Included
2022W3-N1-ST5	204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-LD-ST1	3200064	PCHBTM1S	200004	CNASTONE	1	500/500	230/232	Load Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-LD-ST1	2 200064	PCHBTM1S	200004	CNASTONE	1	500/500	230/232	Load Deliverability	Included
2022W3-N1-WT7	2204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD-W8	50213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Winter Gen Deliv	Included
2022W3-N1-ST6	3204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-W8	51213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Winter Gen Deliv	Included
2022W3-N1-LLT	22242563	05BOXWD	242603	05CLIFFR	1	138/138	205/205	Light Load N-1	Included
2022W3-N1-LLT	21242563	05BOXWD	242603	05CLIFFR	1	138/138	205/205	Light Load N-1	Included
2022W3-N1-LLT	24242563	05BOXWD	242603	05CLIFFR	1	138/138	205/205	Light Load N-1	Included
2022W3-N1-LLT	23242563	05BOXWD	242603	05CLIFFR	1	138/138	205/205	Light Load N-1	Included
2022W3-GD-W9	7204515	27YORKANA	208048	OTCR	1	230	227/229	Winter Gen Deliv	Included
2022W3-N1-WT6	4204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-N1-WT6	5204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-N1-ST1	7 22 08069	PPL-BGE TIE	220964	GRACETON	1	230/230	229/232	Summer N-1 Thermal	Included
2022W3-N1-ST5	8 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST7	1 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-W1	002108047	PPL-BGE TIE	220963	CONASTON	1	230	229/232	Winter Gen Deliv	Included
2022W3-N1-ST7	2 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-W7	3 200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-W7	4 200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-N1-ST7	4204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-W6	3 204514	27TMI	204502	27JACKSON	1	230	227	Winter Gen Deliv	Included
2022W3-GD-W9	87200065	PCHBTM2S	200064	PCHBTM1S	Z2	500	230	Winter Gen Deliv	Included
2022W3-GD-W64	4 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Winter Gen Deliv	Included
2022W3-GD-W6	5 200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Winter Gen Deliv	Included
2022W3-GD-W6	8 200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-W9	95200065	PCHBTM2S	200064	PCHBTM1S	Z1	500	230	Winter Gen Deliv	Included
2022W3-GD-W6	7 200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-W7	8 200512	26LEWISTWN	200519	26REED TAP	1	115	226	Winter Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-GD-W1	012408048	OTCR	208047	PPL-BGE TIE	1	230	229	Winter Gen Deliv	Included
2022W3-GD-S18	31235596	01VASC T	235173	01EDGEWT	1	138	201	Summer Gen Deliv	Included
2022W3-GD-S36	61235105	01DOUBS	235459	01DOUBS	1	500/230	201	Summer Gen Deliv	Included
2022W3-N1-WT	86204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-N1-WT	8204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-N1-WT	102204538	27STRABAN	204529	27GERMANTN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD-W8	6 208071	SAHA34TP	208069	PPL-BGE TIE	1	230	229	Winter Gen Deliv	Included
2022W3-GD-S18	31 8 35105	01DOUBS	235459	01DOUBS	3	500/230	201	Summer Gen Deliv	Included
2022W3-GD-W8	8 204530	27GERMANTN	235463	01TANEY	1	138	227/201	Winter Gen Deliv	Included
2022W3-N1-WT	102804538	27STRABAN	204529	27GERMANTN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD-W8	87213869	РСНВТМТР	214087	COOPER2	1	230	230	Winter Gen Deliv	Included
2022W3-GD-W8	200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Winter Gen Deliv	Included
2022W3-GD-W8	3 204515	27YORKANA	208048	OTCR	1	230	227/229	Winter Gen Deliv	Included
2022W3-GD-W8	83208071	SAHA34TP	208069	PPL-BGE TIE	1	230	229	Winter Gen Deliv	Included
2022W3-GD-W8	5 200512	26LEWISTWN	200519	26REED TAP	1	115	226	Winter Gen Deliv	Included
2022W3-GD-S18	31 2 35105	01DOUBS	235459	01DOUBS	3	500/230	201	Summer Gen Deliv	Included
2022W3-GD-W9	3 208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Winter Gen Deliv	Included
2022W3-N1-WT	182015463	01TANEY	235450	01CARROL	1	138/138	201/201	Winter N-1 Thermal	Included
2022W3-GD-S20	06 0 21090	GLENARM2	221089	WINDYED1	1	115	232	Summer Gen Deliv	Included
2022W3-GD-S17	74 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-W8	9 92 07922	BRIS	204515	27YORKANA	1	230	227/229	Winter Gen Deliv	Included
2022W3-N1-WT	19210044530	27GERMANTN	235463	01TANEY	1	138/138	227/201	Winter N-1 Thermal	Included
2022W3-GD-W9	5 200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Winter Gen Deliv	Included
2022W3-GD-W1	382100004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-W8	91208071	SAHA34TP	208069	PPL-BGE TIE	1	230	229	Winter Gen Deliv	Included
2022W3-GD-W8	92208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Winter Gen Deliv	Included
2022W3-GD-W1	242000512	26LEWISTWN	200519	26REED TAP	1	115	226	Winter Gen Deliv	Included
2022W3-LD-ST1	5200064	PCHBTM1S	200004	CNASTONE	1	500/500	230/232	Load Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-LD-ST1	4200064	PCHBTM1S	200004	CNASTONE	1	500/500	230/232	Load Deliverability	Included
2022W3-GD-S24	0235105	01DOUBS	235459	01DOUBS	3	500/230	201	Summer Gen Deliv	Included
2022W3-GD-W90	3207922	BRIS	204515	27YORKANA	1	230	227/229	Winter Gen Deliv	Included
2022W3-LD-ST1	7200004	CNASTONE	200003	BRIGHTON	1	500/500	232/233	Load Deliverability	Included
2022W3-LD-ST1	6200004	CNASTONE	200003	BRIGHTON	1	500/500	232/233	Load Deliverability	Included
2022W3-GD-S16	4 2 04550	27ORRTANNA	204544	27LINCOLN	1	115	227	Summer Gen Deliv	Included
2022W3-N1-ST1	3 4 208071	SAHA34TP	208069	PPL-BGE TIE	1	230/230	229/229	Summer N-1 Thermal	Included
2022W3-GD-S16	4 2 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-GD-S17	235105	01DOUBS	235459	01DOUBS	1	500/230	201	Summer Gen Deliv	Included
2022W3-GD-W96	5 200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Winter Gen Deliv	Included
2022W3-N1-WT1	9 2004 544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD-W90	02213869	PCHBTMTP	214087	COOPER2	1	230	230	Winter Gen Deliv	Included
2022W3-N1-WT1	922044539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD-S10	235105	01DOUBS	235459	01DOUBS	3	500/230	201	Summer Gen Deliv	Included
2022W3-GD-W97	' 200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-S13	235484	01MESSCK	235490	01MORGAN	1	138	201	Summer Gen Deliv	Included
2022W3-N1-WT1	9240044538	27STRABAN	204529	27GERMANTN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD-S14	235484	01MESSCK	235490	01MORGAN	1	138	201	Summer Gen Deliv	Included
2022W3-GD-S16	4 2 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-GD-S17	5 2 04529	27GERMANTN	204530	27GERMANTN	1	115/138	227	Summer Gen Deliv	Included
2022W3-GD-S16	4 2 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S15	204539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S17	5 2 08395	FARO FF	208393	FARO DC TIE	2	69/115	229	Summer Gen Deliv	Included
2022W3-GD-W12	204530	27GERMANTN	235463	01TANEY	1	138	227/201	Winter Gen Deliv	Included
2022W3-GD-S10	5213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S24	7208047	PPL-BGE TIE	220963	CONASTON	1	230	229/232	Summer Gen Deliv	Included
2022W3-GD-W1	5 213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Winter Gen Deliv	Included
2022W3-GD-W10	8200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-GD-S11	0207922	BRIS	204515	27YORKANA	1	230	227/229	Summer Gen Deliv	Included
2022W3-GD-S24	9235504	01RIDGLY	235484	01MESSCK	1	138	201	Summer Gen Deliv	Included
2022W3-GD-W1	6 213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Winter Gen Deliv	Included
2022W3-GD-W9	0213869	PCHBTMTP	214087	COOPER2	1	230	230	Winter Gen Deliv	Included
2022W3-GD-S16	7 9 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S25	2235504	01RIDGLY	235484	01MESSCK	1	138	201	Summer Gen Deliv	Included
2022W3-GD-W1	9 207922	BRIS	204515	27YORKANA	1	230	227/229	Winter Gen Deliv	Included
2022W3-GD-W3	523 5504	01RIDGLY	235484	01MESSCK	1	138	201	Winter Gen Deliv	Included
2022W3-GD-S26	0208048	OTCR	208047	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-GD-W7	75235105	01DOUBS	235459	01DOUBS	1	500/230	201	Winter Gen Deliv	Included
2022W3-GD-W3	423 5504	01RIDGLY	235484	01MESSCK	1	138	201	Winter Gen Deliv	Included
2022W3-N1-ST1	9 4 200512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-N1-ST1	9 @ 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST1	97235105	01DOUBS	235459	01DOUBS	3	500/230	201/201	Summer N-1 Thermal	Included
2022W3-GD-S20	6 8 21090	GLENARM2	221089	WINDYED1	1	115	232	Summer Gen Deliv	Included
2022W3-GD-W9	06208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Winter Gen Deliv	Included
2022W3-LD-ST1	9200004	CNASTONE	200003	BRIGHTON	1	500/500	232/233	Load Deliverability	Included
2022W3-GD-S16	4 8 04550	27ORRTANNA	204544	27LINCOLN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S17	5 8 00512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-LD-ST1	8 200004	CNASTONE	200003	BRIGHTON	1	500/500	232/233	Load Deliverability	Included
2022W3-GD-S23	204544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S17	′5 8 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-LD-ST2	1 200003	BRIGHTON	200004	CNASTONE	1	500/500	233/232	Load Deliverability	Included
2022W3-GD-S16	4 8 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S17	5 2 00532	26ROXBURY	235188	01GREENE	1	138	226/201	Summer Gen Deliv	Included
2022W3-LD-ST2	0208047	PPL-BGE TIE	220963	CONASTON	1	230/230	229/232	Load Deliverability	Included
2022W3-GD-S17	6 0 08395	FARO FF	208393	FARO DC TIE	1	69/115	229	Summer Gen Deliv	Included
2022W3-LD-ST2	2 208048	OTCR	208047	PPL-BGE TIE	1	230/230	229/229	Load Deliverability	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-N1-ST1	9 3 13746	6SOJOURNER	313822	6RUNWAY	1	230/230	345/345	Summer N-1 Thermal	Included
2022W3-GD-W9	2200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-N1-WT2	3204530	27GERMANTN	235463	01TANEY	1	138/138	227/201	Winter N-1 Thermal	Included
2022W3-GD-S81	N200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-S82	7235105	01DOUBS	235459	01DOUBS	3	500/230	201	Summer Gen Deliv	Included
2022W3-GD-S11	82804544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S16	8 2 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-GD-W1	6204530	27GERMANTN	235463	01TANEY	1	138	227/201	Winter Gen Deliv	Included
2022W3-GD-S16	8 8 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-GD-S12	328B5463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-GD-W92	20200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Winter Gen Deliv	Included
2022W3-N1-ST2	4421034539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1	Included
2022W3-GD-S16	5 8 13844	NOTTNGHM	213846	NOTTREAC	1	230	230	Summer Gen Deliv	Included
2022W3-GD-W1	4200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Winter Gen Deliv	Included
2022W3-N1-ST8	4204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	0 5 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S16	5 2 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-N1-ST2	0 8 13746	6SOJOURNER	313822	6RUNWAY	1	230/230	345/345	Summer N-1 Thermal	Included
2022W3-GD-S16	8 2 04514	27TMI	204502	27JACKSON	1	230	227	Summer Gen Deliv	Included
2022W3-GD-S17	6 2 42563	05BOXWD	242603	05CLIFFR	1	138	205	Summer Gen Deliv	Included
2022W3-N1-WT2	0204530	27GERMANTN	235463	01TANEY	1	138/138	227/201	Winter N-1 Thermal	Included
2022W3-GD-W8	0625088047	PPL-BGE TIE	220963	CONASTON	1	230	229/232	Winter Gen Deliv	Included
2022W3-GD-S47	204538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S26	2235180	01FAYETT	235271	01WWAYNE	1	138	201	Summer Gen Deliv	Included
2022W3-N1-ST1	9 2 00512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-GD-S76	N200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-GD-S16	5 2 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S16	8 2 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-N1-ST2	0200512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-GD-S16	5 2 00064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-N1-ST2) 2 13846	NOTTREAC	213869	PCHBTMTP	1	230/230	230/230	Summer N-1 Thermal	Included
2022W3-GD-S16	5 2 07922	BRIS	204515	27YORKANA	1	230	227/229	Summer Gen Deliv	Included
2022W3-N1-ST2)213844	NOTTNGHM	213846	NOTTREAC	1	230/230	230/230	Summer N-1 Thermal	Included
2022W3-N1-SNC	1N/A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included
2022W3-N1-SNC	2N/A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included
2022W3-N1-SNC	3N/A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included
2022W3-N1-SNC	4N/A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included
2022W3-N1-SNC	5N/A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included
2022W3-N1-SNC	6N/A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included
2022W3-N1-SNC	7N/A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included
2022W3-N1-SNC	8N/A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included
2022W3-N1-SNC	9N/A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included
2022W3-N1-SNC	110/A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included
2022W3-N1-SNC	1 NI /A	N/A	N/A	N/A	N/A	N/A	N/A	Summer N-1 Non Converge	Included

New Flowgates

Competitive

Financial Information

Capital spend start date 01/2024

Construction start date 11/2025

Project Duration (In Months)

Cost Containment Commitment

Cost cap (in current year)

Competitive

41

Cost cap (in-service year)

Competitive

Components covered by cost containment

- 1. North Delta-Northeast 230kV PSEG
- 2. Hunterstown-New Green Valley 500kV PSEG
- 3. New Green Valley 500kV PSEG

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	Competitive
Is the proposer offering a binding cap on ROE?	Yes
Would this ROE cap apply to the determination of AFUDC?	No
Would the proposer seek to increase the proposed ROE if FERC finds that a higher ROE would not be unreasonable?	Yes
Is the proposer offering a Debt to Equity Ratio cap?	Competitive

Competitive

Additional Comments

None