Proposal H - Peach Bottom-Doubs 500kV (Circuits #1 and #2)

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 962

Project title Proposal H - Peach Bottom-Doubs 500kV (Circuits #1 and #2)

Project description 500kV Greenfield line from Doubs Station to Peach Bottom Station Circuit #1. 500kV Greenfield line

from Doubs Station to Peach Bottom Station Circuit #2. Reconductor 500kV Line from Doubs

Station to Goose Creek Station

Email Competitive

Project in-service date 06/2028

Tie-line impact Yes

Interregional project No

Is the proposer offering a binding cap on capital costs?

Yes

Additional benefits Competitive

Project Components

- 1. New 500kV line from Doubs Station to Peach Bottom Station Circuit 1
- 2. Reconductor 500kV line from Doubs station to Goose Creek station
- 3. Reconductor Peach Bottom North to Peach Bottom South Tie #1 and #2
- 4. Peach Bottom 500kV Upgrade
- 5. Gracetone 230kV Upgrade

- 6. Doubs 500/230kV Upgrade
- 7. New 500kV line from Doubs Station to Peach Bottom Station Circuit 2
- 8. Conastone/Brighton 500kV Upgrade
- 9. Waugh Chapel/Brighton 500kV Upgrade
- 10. North East/Riverside 230kV Upgrades
- 11. Dickerson 230kV Upgrade
- 12. Pleasant View/Belmont 230kV Upgrade

Greenfield Transmission Line Component

Component title New 500kV line from Doubs Station to Peach Bottom Station Circuit 1

Project description Competitive

Point A Doubs 500kV

Point B Peach Bottom 500kV

Point C

	Normal ratings	Emergency ratings
Summer (MVA)	2940.000000	3733.000000
Winter (MVA)	3618.000000	4424.000000
Conductor size and type	500-kV AC single-circuit 954 kcmil ACSR "Cardi	inal"
Nominal voltage	AC	
Nominal voltage	500kV	
Line construction type	Overhead	
General route description	Each circuit is approximately 86.3 miles of greer	nfield transmission line

Terrain description

Right-of-way width by segment

Electrical transmission infrastructure crossings

Civil infrastructure/major waterway facility crossing plan

Environmental impacts

Tower characteristics

The Peach Bottom - Doubs Route is mostly in rural areas. Northern portion of the route is located in southern Pennsylvania with rural and farmed properties and then the route heads to the west. The route is to the north and west of Westminster and then heads in a south-westerly direction to Doubs.

This project will require ROWs with widths of 150 feet.

Existing transmission line crossing between #209 and #210, Existing transmission line crossing between #214 and #215, Existing transmission line crossing between #269 and #270, Existing transmission line crossing between #301 and #302, Existing transmission line crossing between #43 and #44

All civil infrastructure and major waterway crossings are listed on 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

H frames

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 \$452,502,758.02

Component cost (in-service year) \$492,082,237.00

Transmission Line Upgrade Component

Component title Reconductor 500kV line from Doubs station to Goose Creek station

Project description Competitive

Impacted transmission line Doubs-Goose Creek 500kV

Point A Doubs 500kV station

Point B Goose Creek 500kV station

Point C

Terrain description Mainly in rural areas. Existing ROWs will be used.

Existing Line Physical Characteristics

Operating voltage 500kV

Conductor size and type N/A

Hardware plan description

Hardware is assumed to be in good shape and will be reused

Tower line characteristics

Tower structures and foundations are assumed to be in good shape and will be reused.

Proposed Line Characteristics

·	Designed	Operating
	Designed	Operating
Voltage (kV)	500.000000	500.000000
	Normal ratings	Emergency ratings
Summer (MVA)	2940.000000	3733.000000
Winter (MVA)	3618.000000	4424.000000
Conductor size and type	945 kcmil ACSR "Cardinal"	
Shield wire size and type	Shield wire is assumed in good condition and w	ill be reused
Rebuild line length	3.2 miles	
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Rebuild portion description Approximately 3.2 miles of line will be reconductored.

Right of way

This reconductor will use existing ROWs

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 \$5,702,907.00

Component cost (in-service year) \$6,201,728.00

Transmission Line Upgrade Component

Component title Reconductor Peach Bottom North to Peach Bottom South Tie #1 and #2

Project description Competitive

Impacted transmission line Peach Bottom North to Peach Bottom South Tie #1 and #2

Point A Peach Bottom North

Point B Peach Bottom South

Point C

Terrain description Area of less than a mile located between Peach Bottom North and Peach Bottom South.

Existing Line Physical Characteristics

Operating voltage 500kV

Conductor size and type N/A

Hardware plan description Existing hardware is assumed to be in good shape and will be reused

Tower line characteristics

Tower structures and foundations are assumed to be good shape and will be reused.

Proposed Line Characteristics

Designed Operating

Voltage (kV)	500.000000	500.000000
	Normal ratings	Emergency ratings
Summer (MVA)	2477.000000	5752.000000
Winter (MVA)	2598.000000	7463.000000
Conductor size and type	954 kcmil 54/7 ACSR "Cardinal"	
Shield wire size and type	Shield wire will be reused	
Rebuild line length	< 1 mile	
Rebuild portion description	Peach Bottom South-New breaker and a half babreaker bay.	ay. Peach Bottom North new double bus double
Right of way	This reconductor will use existing ROWs	
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	\$3,011,848.00	

Component cost (in-service year)

\$3,275,288.00

Substation Upgrade Component

Component title Peach Bottom 500kV Upgrade

Project description Competitive

Substation name Peach Bottom 500kV

Substation zone PECO

Substation upgrade scope

Transformer Information

None

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Rebuild two (2) Peach Bottom South and two (2) Peach Bottom North main busses. Expand Peach Bottom South 500kV with one new breaker and half bay. Relocate the 500kV circuits 5012 (Peach Bottom - Conastone) & 5034 (Peach Bottom - North delta) to these new positions at Peach Bottom South 500kV Relocate the 500kV circuit 5014 (Peach Bottom - Rock Springs) to another existing position at Peach Bottom South 500kV. Connect the Peach Bottom to Doubs 500kV circuit #2 to an

existing position at Peach Bottom South 500kV. Connect the Peach Bottom to Doubs 500kV circuit to an existing position at Peach Bottom South 500kV. Relocate the 500kV circuit 5014 to another existing position at Peach Bottom South 500kV. Expand Peach Bottom North 500kV with one new double bus double breaker bay. Relocate the 500kV circuit 5010 (Peach Bottom - Limerick) to this

new position at Peach Bottom North 500kV.

Peach Bottom South-New breaker and a half bay. Peach Bottom North new double bus double breaker bay.

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.

No station expansion is anticipated.

Competitive

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 \$31,304,023.00

Component cost (in-service year) \$34,042,121.00

Substation Upgrade Component

Component title Gracetone 230kV Upgrade

Project description Competitive

Substation name Gracetone

Substation zone BGE

Substation upgrade scope Expand Gracetone 230kV station with a new double bus double breaker bay, relocate the 230kV

circuit 2305 to a new position

Transformer Information

None

New equipment description New double bus double breaker bay

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 \$5,299,914.00

Component cost (in-service year) \$5,763,488.00

Substation Upgrade Component

Component title Doubs 500/230kV Upgrade

Project description Competitive

Substation name Doubs

Substation zone APS

Substation upgrade scope

Connect the new Peach Bottom to Doubs 500kV circuit #1 to an existing position at Doubs 500kV Expand Doubs 500kV station with one new double bus double breaker bay Connect the new Peach Bottom to Doubs 500kV circuit #2 to this new position at Doubs 500kV Upgrade 500/230kV transformer #01 at Doubs

Transformer Information

Construction & commissioning

		ate the new equipment; geotechnical data is available; ground gr				
	Name		Capacity (MVA)			
Transformer	01					
	High Side	Low Side	Tertiary			
Voltage (kV)	500	230				
New equipment description	Upgrade 500/230kV transforme	er, new double bus	double breaker bay.			
Substation assumptions	This proposal assumes that all necessary outages will be available; existing AC, DC, and telect 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 be replaced except for the associated line relays and existing line interchange metering exists a does not need to be replaced. No substation expansion is anticipated.					
Real-estate description	No substation expansion is anti	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					

Competitive

Construction management Competitive

Overheads & miscellaneous costs Competitive

Contingency Competitive

Total component cost \$27,389,583.00

Component cost (in-service year) \$29,785,293.00

Greenfield Transmission Line Component

Component title New 500kV line from Doubs Station to Peach Bottom Station Circuit 2

Project description Competitive

Point A Doubs 500kV

Point B Peach Bottom 500kV

Point C

	Normal ratings	Emergency ratings
Summer (MVA)	2940.000000	3733.000000
Winter (MVA)	3618.000000	4424.000000
Conductor size and type	500-kV AC single-circuit 954 kcmil ACSR "Card	linal"
Nominal voltage	AC	

Nominal voltage 500kV

Line construction type Overhead

General route description Each circuit is approximately 86.3 miles of greenfield transmission line

Terrain description

The Peach Bottom - Doubs Route is mostly in rural areas. Northern portion of the route is located in southern Pennsylvania with rural and farmed properties and then the route heads to the west. The route is to the north and west of Westminster and then heads in a south-westerly direction to

Doubs.

Right-of-way width by segment

Electrical transmission infrastructure crossings

Civil infrastructure/major waterway facility crossing plan

Environmental impacts

Tower characteristics

Construction responsibility

Benefits/Comments

This project will require ROWs with widths of 150 feet

Existing transmission line crossing between #209 and #210, Existing transmission line crossing between #214 and #215, Existing transmission line crossing between #269 and #270, Existing transmission line crossing between #301 and #302, Existing transmission line crossing between #43 and #44

All civil infrastructure and major waterway crossings are listed on 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

H frames

Competitive

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 \$452,502,758.02

Component cost (in-service year) \$499,891,583.00

Substation Upgrade Component

Component title Conastone/Brighton 500kV Upgrade

Project description Competitive

Substation name Conastone/Brighton 500kV

Substation zone BGE/PEPCO

Substation upgrade scope Upgrade terminal equipment of the 500kV circuit 5011 connecting Conastone & Brighton 500kV

stations

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 expected.

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 \$.00

Component cost (in-service year) \$.00

Substation Upgrade Component

Component title Waugh Chapel/Brighton 500kV Upgrade

Project description Competitive

Substation name Waugh Chapel/Brighton

Substation zone BGE/PEPCO

Substation upgrade scope Upgrade terminal equipment of the 500kV circuit 5053 connecting Waugh Chapel & Brighton 500kV

stations

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 \$.00

Component cost (in-service year) \$.00

Substation Upgrade Component

Component title North East/Riverside 230kV Upgrades

Project description Competitive

Substation name North East/Riverside 230kV

Substation zone BGE

Substation upgrade scope Upgrade terminal equipment of the 230kV circuit 2339 connecting North east & River side 230kV

stations

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 \$.00

Component cost (in-service year) \$.00

Substation Upgrade Component

Component title Dickerson 230kV Upgrade

Project description Competitive

Substation name Dickerson 230kV station

Substation zone PEPCO

Substation upgrade scope

Upgrade terminal equipment of the 230kV circuit connecting Dickerson & Aqueduct 230kV stations

Upgrade terminal equipment of the 230kV circuit connecting Dickerson & Doubs 230kV stations

Transformer Information

None

New equipment description New terminal equipment

Substation assumptions

This proposal assumes that all necessary to the 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 \$.00

Component cost (in-service year) \$.00

Substation Upgrade Component

Component title Pleasant View/Belmont 230kV Upgrade

Project description Competitive

Substation name Pleasant View/Belmont

Substation zone DVP

Substation upgrade scope

Upgrade terminal equipment of the 230kV circuit connecting Pleasant View & Belmont 230kV

stations

Transformer Information

None

New equipment description New terminal equipment

Substation assumptions

Real-estate description

Construction responsibility

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.

No substation expansion anticipated.

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 \$.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	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-GD-W1	23204544	27LINCOLN	204538	27STRABAN	1	115	227	Winter Gen Deliv	Included
2022W3-GD-S17	77 2 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-W3	8 213869	РСНВТМТР	214087	COOPER2	1	230	230	Winter Gen Deliv	Included
2022W3-GD-S16	69 2 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-GD-S17	7208047	PPL-BGE TIE	220963	CONASTON	1	230	229/232	Summer Gen Deliv	Included
2022W3-GD-S1	19213869	PCHBTMTP	214087	COOPER2	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S20	3200004	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	31200065	PCHBTM2S	200064	PCHBTM1S	Z1	500	230	Summer Gen Deliv	Included
2022W3-GD-W1	26200532	26ROXBURY	235188	01GREENE	1	138	226/201	Winter Gen Deliv	Included
2022W3-GD-S12	25204529	27GERMANTN	204530	27GERMANTN	1	115/138	227	Summer Gen Deliv	Included
2022W3-GD-S16	69 2 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-GD-W1	22200512	26LEWISTWN	200519	26REED TAP	1	115	226	Winter Gen Deliv	Included
2022W3-GD-S77	79200512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-N1-ST2	21@04544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	212204544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-W1	382300004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-S16	65 2 13846	NOTTREAC	213869	PCHBTMTP	1	230	230	Summer Gen Deliv	Included
2022W3-GD-W2	9 235463	01TANEY	235450	01CARROL	1	138	201	Winter Gen Deliv	Included
2022W3-N1-ST2	0 9 00512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-N1-ST2	4 5210 14544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1	Included
2022W3-GD-W3	204550	27ORRTANNA	204544	27LINCOLN	1	115	227	Winter Gen Deliv	Included
2022W3-GD-S27	76204514	27TMI	204502	27JACKSON	1	230	227	Summer Gen Deliv	Included
2022W3-GD-S17	76 2 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-N1-ST2	1 208069	PPL-BGE TIE	220964	GRACETON	1	230/230	229/232	Summer N-1 Thermal	Included
2022W3-N1-ST2	2 12 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	35213869	PCHBTMTP	214087	COOPER2	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-S1	7 72 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-W9	49213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Winter Gen Deliv	Included
2022W3-GD-W5	0 200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Winter Gen Deliv	Included
2022W3-GD-S8	1 213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S8	213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S1	39208071	SAHA34TP	208069	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-GD-W1	32200065	PCHBTM2S	200064	PCHBTM1S	Z2	500	230	Winter Gen Deliv	Included
2022W3-GD-S1	7 78 08048	OTCR	208047	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-GD-S1	27208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Summer Gen Deliv	Included
2022W3-GD-S7	30200512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-W4	4 204550	27ORRTANNA	204544	27LINCOLN	1	115	227	Winter Gen Deliv	Included
2022W3-GD-S1	69 2 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-N1-ST2	22 0 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S1	6 68 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S1	6 2 00064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-GD-S1	78 3 00512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-W8	31213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Winter Gen Deliv	Included
2022W3-GD-S1	47213869	PCHBTMTP	214087	COOPER2	1	230	230	Summer Gen Deliv	Included
2022W3-GD-W8	32213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Winter Gen Deliv	Included
2022W3-GD-S1	67 2 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-GD-S1	70 2 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S3	26208048	OTCR	208047	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-GD-S1	52200512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-S1	5208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Summer Gen Deliv	Included
2022W3-GD-S9	213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Summer Gen Deliv	Included
2022W3-GD-W5	8 204538	27STRABAN	204529	27GERMANTN	1	115	227	Winter Gen Deliv	Included
2022W3-GD-S2	03 8 21092	FIVE.FOR	221096	ROCKRGE1	1	115	232	Summer Gen Deliv	Included
2022W3-GD-S9	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-N1-ST2	24 2 00512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-GD-S3	12208047	PPL-BGE TIE	220963	CONASTON	1	230	229/232	Summer Gen Deliv	Included
2022W3-N1-ST	10 9 21092	FIVE.FOR	221096	ROCKRGE1	1	115/115	232/232	Summer N-1 Thermal	Included
2022W3-GD-S1	70200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-GD-S1	66 8 13869	PCHBTMTP	214087	COOPER2	1	230	230	Summer Gen Deliv	Included
2022W3-N1-ST2	23200064	PCHBTM1S	200004	CNASTONE	1	500/500	230/232	Summer N-1 Thermal	Included
2022W3-GD-S1	66 2 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-N1-ST2	23 2 04544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	23 3 04544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	23 4 208071	SAHA34TP	208069	PPL-BGE TIE	1	230/230	229/229	Summer N-1 Thermal	Included
2022W3-N1-ST2	23 @ 08069	PPL-BGE TIE	220964	GRACETON	1	230/230	229/232	Summer N-1 Thermal	Included
2022W3-N1-ST2	23 7 208069	PPL-BGE TIE	220964	GRACETON	1	230/230	229/232	Summer N-1 Thermal	Included
2022W3-GD-S1	79 3 21092	FIVE.FOR	221096	ROCKRGE1	1	115	232	Summer Gen Deliv	Included
2022W3-GD-W1	12 120 0532	26ROXBURY	235188	01GREENE	1	138	226/201	Winter Gen Deliv	Included
2022W3-GD-S1	64208071	SAHA34TP	208069	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-GD-S1	79 3 20962	NWEST311	220972	GRANITE1	1	230	232	Summer Gen Deliv	Included
2022W3-GD-S1	71 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-W1	10 8210 4530	27GERMANTN	235463	01TANEY	1	138	227/201	Winter Gen Deliv	Included
2022W3-GD-S1	71 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-W1	10 5210 4530	27GERMANTN	235463	01TANEY	1	138	227/201	Winter Gen Deliv	Included
2022W3-GD-W8	349204538	27STRABAN	204529	27GERMANTN	1	115	227	Winter Gen Deliv	Included
2022W3-N1-ST	12 9 21092	FIVE.FOR	221096	ROCKRGE1	1	115/115	232/232	Summer N-1 Thermal	Included
2022W3-GD-S1	67242563	05BOXWD	242603	05CLIFFR	1	138	205	Summer Gen Deliv	Included
2022W3-N1-ST9	9 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S1	71 8 08071	SAHA34TP	208069	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-GD-S1	71 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-W8	341213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Winter Gen Deliv	Included
2022W3-GD-W1	120 0532	26ROXBURY	235188	01GREENE	1	138	226/201	Winter Gen Deliv	Included

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2022W3-GD-W8	342213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Winter Gen Deliv	Included
2022W3-GD-W1	12. 8210 0512	26LEWISTWN	200519	26REED TAP	1	115	226	Winter Gen Deliv	Included
2022W3-GD-S1	79204515	27YORKANA	208048	OTCR	1	230	227/229	Summer Gen Deliv	Included
2022W3-N1-ST7	7 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST	12 2 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S1	70 2 08069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Summer Gen Deliv	Included
2022W3-N1-ST2	24200512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-GD-W1	5210 0004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-S1	67 2 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S1	6 72 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S1	03200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-GD-S1	04213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Summer Gen Deliv	Included
2022W3-GD-S2	04 2 21092	FIVE.FOR	221096	ROCKRGE1	1	115	232	Summer Gen Deliv	Included
2022W3-GD-S3	40204515	27YORKANA	208048	OTCR	1	230	227/229	Summer Gen Deliv	Included
2022W3-GD-S1	80 2 00512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-W1	42/3 5463	01TANEY	235450	01CARROL	1	138	201	Winter Gen Deliv	Included
2022W3-GD-S1	80 2 00512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-S2	05 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-W1	22/3 5463	01TANEY	235450	01CARROL	1	138	201	Winter Gen Deliv	Included
2022W3-GD-S1	72 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-S1	72 0 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-N1-ST	19 204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	20 204530	27GERMANTN	235463	01TANEY	1	138/138	227/201	Summer N-1 Thermal	Included
2022W3-GD-S1	71 2 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-GD-S1	71 8 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-N1-ST	18 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-ST	12 204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-N1-ST1	13204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST1	14204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S1	72 8 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-GD-S1	80 2 00512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-S1	72 8 00064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-GD-S1	72 2 00064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-GD-S1	90242563	05BOXWD	242603	05CLIFFR	1	138	205	Summer Gen Deliv	Included
2022W3-GD-S2	05 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-S1	72 2 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S3	46200065	PCHBTM2S	200066	PCHBTM1N	2	500	230	Summer Gen Deliv	Included
2022W3-GD-S1	72 3 04544	27LINCOLN	204538	27STRABAN	1	115	227	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	22 204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	24204544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST2	25 204544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S1	73200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Summer Gen Deliv	Included
2022W3-GD-S2	01200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-GD-S2	02200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-N1-ST3	39 204539	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-ST4	12 204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S1	72 9 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-N1-WT	43204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD_L8	1 242563	05BOXWD	242603	05CLIFFR	1	138/138	205/205	Light Load Gen Deliv	Included
2022W3-N1-WT	44204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-N1-ST3	35 235463	01TANEY	235450	01CARROL	1	138/138	201/201	Summer N-1 Thermal	Included
2022W3-N1-ST1	15 @ 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-WT	45204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2022W3-N1-ST3	7235463	01TANEY	235450	01CARROL	1	138/138	201/201	Summer N-1 Thermal	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-WT6	2235463	01TANEY	235450	01CARROL	1	138/138	201/201	Winter N-1 Thermal	Included
2022W3-N1-ST5	3 204539	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	5 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-LD-ST1	3 200064	PCHBTM1S	200004	CNASTONE	1	500/500	230/232	Load Deliverability	Included
2022W3-N1-ST5	9204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-LD-ST1	2200064	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	0213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Winter Gen Deliv	Included
2022W3-N1-ST6	3 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-W8	1213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Winter Gen Deliv	Included
2022W3-N1-LLT2	2 2 242563	05BOXWD	242603	05CLIFFR	1	138/138	205/205	Light Load N-1	Included
2022W3-N1-LLT2	21242563	05BOXWD	242603	05CLIFFR	1	138/138	205/205	Light Load N-1	Included
2022W3-N1-LLT2	2 4 242563	05BOXWD	242603	05CLIFFR	1	138/138	205/205	Light Load N-1	Included
2022W3-N1-LLT2	2 3 242563	05BOXWD	242603	05CLIFFR	1	138/138	205/205	Light Load N-1	Included
2022W3-N1-WT6	4204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD-W97	7204515	27YORKANA	208048	OTCR	1	230	227/229	Winter Gen Deliv	Included
2022W3-N1-WT6	5204550	27ORRTANNA	204544	27LINCOLN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-N1-ST1	72 08069	PPL-BGE TIE	220964	GRACETON	1	230/230	229/232	Summer N-1 Thermal	Included
2022W3-N1-ST5	3 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

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2022W3-GD-W1	002108047	PPL-BGE TIE	220963	CONASTON	1	230	229/232	Winter Gen Deliv	Included
2022W3-N1-ST7	72 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-W7	7 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	74 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-W9	87200065	PCHBTM2S	200064	PCHBTM1S	Z2	500	230	Winter Gen Deliv	Included
2022W3-GD-W6	3 204514	27TMI	204502	27JACKSON	1	230	227	Winter Gen Deliv	Included
2022W3-GD-W6	64 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	78 200512	26LEWISTWN	200519	26REED TAP	1	115	226	Winter Gen Deliv	Included
2022W3-GD-W1	012408048	OTCR	208047	PPL-BGE TIE	1	230	229	Winter 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	88204539	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-W8	88 204530	27GERMANTN	235463	01TANEY	1	138	227/201	Winter Gen Deliv	Included
2022W3-N1-WT	102604538	27STRABAN	204529	27GERMANTN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD-W8	887213869	PCHBTMTP	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	883208071	SAHA34TP	208069	PPL-BGE TIE	1	230	229	Winter Gen Deliv	Included
2022W3-GD-W8	35 200512	26LEWISTWN	200519	26REED TAP	1	115	226	Winter Gen Deliv	Included
2022W3-GD-W9	3 208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Winter Gen Deliv	Included
2022W3-N1-WT	18 20\ 5463	01TANEY	235450	01CARROL	1	138/138	201/201	Winter N-1 Thermal	Included
2022W3-GD-S2	06 0 21090	GLENARM2	221089	WINDYED1	1	115	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-S17	4 2 00004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-N1-WT	1921014530	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	3 821 00004	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	2.42000512	26LEWISTWN	200519	26REED TAP	1	115	226	Winter Gen Deliv	Included
2022W3-LD-ST1	5 200064	PCHBTM1S	200004	CNASTONE	1	500/500	230/232	Load Deliverability	Included
2022W3-LD-ST1	4200064	PCHBTM1S	200004	CNASTONE	1	500/500	230/232	Load Deliverability	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	34 3 04550	27ORRTANNA	204544	27LINCOLN	1	115	227	Summer Gen Deliv	Included
2022W3-N1-ST1	8 4 208071	SAHA34TP	208069	PPL-BGE TIE	1	230/230	229/229	Summer N-1 Thermal	Included
2022W3-GD-S16	64 2 35463	01TANEY	235450	01CARROL	1	138	201	Summer Gen Deliv	Included
2022W3-GD-W9	6 200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Winter Gen Deliv	Included
2022W3-N1-WT	19 20\ 4544	27LINCOLN	204538	27STRABAN	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD-W9	00213869	PCHBTMTP	214087	COOPER2	1	230	230	Winter Gen Deliv	Included
2022W3-N1-WT	19 20\ 4539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Winter N-1 Thermal	Included
2022W3-GD-W9	7 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-WT	1924014538	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	64 2 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-GD-S17	75 2 04529	27GERMANTN	204530	27GERMANTN	1	115/138	227	Summer Gen Deliv	Included
2022W3-GD-S16	6 42 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-W1	2 204530	27GERMANTN	235463	01TANEY	1	138	227/201	Winter Gen Deliv	Included
2022W3-GD-S17	75 2 08395	FARO FF	208393	FARO DC TIE	2	69/115	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-GD-W1	08200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-S24	47208047	PPL-BGE TIE	220963	CONASTON	1	230	229/232	Summer Gen Deliv	Included
2022W3-GD-S10	05213846	NOTTREAC	213869	PCHBTMTP	1	230	230	Summer Gen Deliv	Included
2022W3-GD-W1	5 213844	NOTTNGHM	213846	NOTTREAC	1	230	230	Winter 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-S24	49235504	01RIDGLY	235484	01MESSCK	1	138	201	Summer Gen Deliv	Included
2022W3-GD-S10	6 72 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S2	52235504	01RIDGLY	235484	01MESSCK	1	138	201	Summer Gen Deliv	Included
2022W3-GD-W3	52/3 5504	01RIDGLY	235484	01MESSCK	1	138	201	Winter Gen Deliv	Included
2022W3-GD-W3	42/3 5504	01RIDGLY	235484	01MESSCK	1	138	201	Winter Gen Deliv	Included
2022W3-GD-S26	60208048	OTCR	208047	PPL-BGE TIE	1	230	229	Summer Gen Deliv	Included
2022W3-N1-ST1	19 4 200512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-N1-ST1	19 @ 04539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-LD-ST1	19200004	CNASTONE	200003	BRIGHTON	1	500/500	232/233	Load Deliverability	Included
2022W3-GD-S20	06 3 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	18 200004	CNASTONE	200003	BRIGHTON	1	500/500	232/233	Load Deliverability	Included
2022W3-GD-S1	75 2 00512	26LEWISTWN	200519	26REED TAP	1	115	226	Summer Gen Deliv	Included
2022W3-GD-S10	64 2 04550	27ORRTANNA	204544	27LINCOLN	1	115	227	Summer Gen Deliv	Included
2022W3-LD-ST2	21 200003	BRIGHTON	200004	CNASTONE	1	500/500	233/232	Load Deliverability	Included
2022W3-GD-S2	3 204544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S1	75 2 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-LD-ST2	20208047	PPL-BGE TIE	220963	CONASTON	1	230/230	229/232	Load Deliverability	Included
2022W3-GD-S1	75 2 00532	26ROXBURY	235188	01GREENE	1	138	226/201	Summer Gen Deliv	Included
2022W3-GD-S10	6 48 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-N1-ST1	18 2 04538	27STRABAN	204544	27LINCOLN	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-GD-S1	76 2 08395	FARO FF	208393	FARO DC TIE	1	69/115	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-LD-ST2	2 208048	OTCR	208047	PPL-BGE TIE	1	230/230	229/229	Load Deliverability	Included
2022W3-GD-W9	2200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Winter Gen Deliv	Included
2022W3-GD-S81	N200004	CNASTONE	200003	BRIGHTON	1	500	233/232	Summer Gen Deliv	Included
2022W3-N1-WT2	3204530	27GERMANTN	235463	01TANEY	1	138/138	227/201	Winter N-1 Thermal	Included
2022W3-GD-S11	8 2 04544	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	6 204530	27GERMANTN	235463	01TANEY	1	138	227/201	Winter Gen Deliv	Included
2022W3-GD-S16	8 2 04530	27GERMANTN	235463	01TANEY	1	138	227/201	Summer Gen Deliv	Included
2022W3-GD-S12	3 2 B5463	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	4 210 14539	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	4 200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	Winter Gen Deliv	Included
2022W3-N1-ST2	0 5 204539	27HUNTRSTN	205912	AD1-020 TAP	1	115/115	227/227	Summer N-1 Thermal	Included
2022W3-N1-ST8	4204539	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-GD-W80) 625)18 047	PPL-BGE TIE	220963	CONASTON	1	230	229/232	Winter Gen Deliv	Included
2022W3-N1-WT2	0204530	27GERMANTN	235463	01TANEY	1	138/138	227/201	Winter N-1 Thermal	Included
2022W3-GD-S17	6 2 42563	05BOXWD	242603	05CLIFFR	1	138	205	Summer Gen Deliv	Included
2022W3-GD-S16	8204514	27TMI	204502	27JACKSON	1	230	227	Summer Gen Deliv	Included
2022W3-GD-S47	204538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S76	N200064	PCHBTM1S	200004	CNASTONE	1	500	232/230	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-N1-ST2	0 2 00512	26LEWISTWN	200519	26REED TAP	1	115/115	226/226	Summer N-1 Thermal	Included
2022W3-GD-S16	8 2 04544	27LINCOLN	204538	27STRABAN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S16	5 2 04538	27STRABAN	204529	27GERMANTN	1	115	227	Summer Gen Deliv	Included
2022W3-GD-S16	5 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-N1-ST20) 2 13846	NOTTREAC	213869	PCHBTMTP	1	230/230	230/230	Summer N-1 Thermal	Included
2022W3-N1-ST20) 2 13844	NOTTNGHM	213846	NOTTREAC	1	230/230	230/230	Summer N-1 Thermal	Included

New Flowgates

Competitive

Financial Information

Capital spend start date 01/2024

Construction start date 11/2025

Project Duration (In Months) 53

Cost Containment Commitment

Cost cap (in current year)

Competitive

Cost cap (in-service year)

Competitive

Components covered by cost containment

1. New 500kV line from Doubs Station to Peach Bottom Station Circuit 1 - PSEG

2. New 500kV line from Doubs Station to Peach Bottom Station Circuit 2 - PSEG

Cost elements covered by cost containment

Engineering & design

Permitting / routing / siting

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?

Would this ROE cap apply to the determination of AFUDC?

Yes

Would the proposer seek to increase the proposed ROE if FERC No finds that a higher ROE would not be unreasonable?

Is the proposer offering a Debt to Equity Ratio cap?

Competitive

Additional cost containment measures not covered above Competitive

Additional Comments

None