Oceanview 2,400 MW DC Injection

General Information

Proposing entity name	NEETMH
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Yes
Company proposal ID	2-024
PJM Proposal ID	298
Project title	Oceanview 2,400 MW DC Injection
Project description	Two 1,200 MW HVDC Symmetrical Monopole systems connecting offshore platforms in the Hudson South lease area to a new Neptune 230 kV switchyard near the existing Oceanview 230 kV substation. Loop in the existing Oceanview-Atlantic 230 kV double circuit tower into Neptune 230 kV. Reterminate the Oceanview-Larrabee 230 kV line from Oceanview to the new Neptune 230 kV switchyard.
Email	Johnbinh.Vu@nexteraenergy.com
Project in-service date	06/2028
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	See Attachment 1, Section 3.4
Project Components	

1. Offshore Platform A – Asbury Park Landing HVDC

2. Offshore Platform B – Asbury Park Landing HVDC

3. Asbury Park Landing – Neptune Converter Station HVDC

- 4. Offshore Platform A
- 5. Offshore Platform B
- 6. Neptune Converter Station
- 7. Loop in existing Atlantic Oceanview 230 kV OH line Circuit X at NEETMA...
- 8. Loop in existing Atlantic Oceanview 230 kV OH line Circuit Y at NEETMA...
- 9. Loop in existing Atlantic Oceanview 230 kV OH line Circuit X at NEETMA...
- 10. Loop in existing Atlantic Oceanview 230 kV OH line Circuit Y at NEETMA...
- 11. Reterminate and Reconductor existing Larrabee Oceanview 230 kV OH circuit

Greenfield Transmission Line Component

Component title	Offshore Platform A – Asbury Park Landing HVDC	
Project description	Submarine HVDC Symmetrical monopole system from Offshore Platform A to Asbury Park Landing. NEETMA will deliver 1,200 MW at the onshore point of injection. Actual losses will be calculated based upon the exact location of the offshore platform and incorporated into the final cable design	
Point A	Offshore Platform A	
Point B	Asbury Park Landing	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	1200.000000	1200.000000
Winter (MVA)	1200.000000	1200.000000
Conductor size and type	2000mm2 copper	
Nominal voltage	DC	
Nominal voltage	400	
Line construction type	Submarine	
General route description	See Attachments 4, 19, and 22	

Terrain description	See Attachments 19 and 22
Right-of-way width by segment	See Attachments 4 and 22
Electrical transmission infrastructure crossings	See Attachment 7
Civil infrastructure/major waterway facility crossing plan	See Attachment 7
Environmental impacts	See Attachment 19
Tower characteristics	See Attachment 6
Construction responsibility	Proposer
Benefits/Comments	See Attachment 1, Section 3.4
Component Cost Details - In Current Year \$	
Engineering & design	Confidential competitive information
Permitting / routing / siting	Confidential competitive information
ROW / land acquisition	Confidential competitive information
Materials & equipment	Confidential competitive information
Construction & commissioning	Confidential competitive information
Construction management	Confidential competitive information
Overheads & miscellaneous costs	Confidential competitive information
Contingency	Confidential competitive information
Total component cost	\$278,200,172.00
Component cost (in-service year)	\$293,312,818.00
Greenfield Transmission Line Component	

Component title

Offshore Platform B –Asbury Park Landing HVDC

Project description	Submarine HVDC Symmetrical monopole system from Offshore Platform B to Asbury Park Landing. NEETMA will deliver 1,200 MW at the onshore point of injection. Actual losses will be calculated based upon the exact location of the offshore platform and incorporated into the final cable design	
Point A	Offshore Platform B	
Point B	Asbury Park Landing	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	1200.000000	1200.000000
Winter (MVA)	1200.000000	1200.000000
Conductor size and type	2000mm2 copper	
Nominal voltage	DC	
Nominal voltage	400	
Line construction type	Submarine	
General route description	Submarine route in Atlantic Ocean. See Attachments 4, 19, and 22	
Terrain description	Submarine route in Atlantic Ocean. See Attachments 19 and 22	
Right-of-way width by segment	A kmz of the route is provided as Attachment 4. See Attachment 22 for more details.	
Electrical transmission infrastructure crossings	See Attachment 7 for a list of all crossings and proposed crossing plan.	
Civil infrastructure/major waterway facility crossing plan	See Attachment 7 for a list of all crossings and proposed crossing plan	
Environmental impacts	See Attachment 19	
Tower characteristics	A submarine cable is being proposed. See Attachment 6 for details on proposed submarine installation	
Construction responsibility	Proposer	
Benefits/Comments	See Attachment 1, Section 3.4	

Component Cost Details - In Current Year \$

Engineering & design	Confidential competitive information	
Permitting / routing / siting	Confidential competitive information	
ROW / land acquisition	Confidential competitive information	
Materials & equipment	Confidential competitive information	
Construction & commissioning	Confidential competitive information	
Construction management	Confidential competitive inform	ation
Overheads & miscellaneous costs	Confidential competitive inform	ation
Contingency	Confidential competitive inform	ation
Total component cost	\$289,063,430.00	
Component cost (in-service year)	\$303,013,430.00	
Greenfield Transmission Line Component		
Component title	Asbury Park Landing – Neptune Converter Station HVDC	
Project description	Two terrestrial HVDC Symmetrical monopole systems in a common duct bank from Asbury Park Landing to Neptune Converter Station. NEETMA will deliver 2,400 MW at the onshore point of injection. Actual losses will be calculated based upon the exact location of the offshore platform and incorporated into the final cable design	
Point A	Asbury Park Landing	
Point B	Neptune Converter Station	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	1200.000000	1200.000000
Winter (MVA)	1200.000000	1200.000000

Conductor size and type	6000kcmil copper
Nominal voltage	DC
Nominal voltage	320
Line construction type	Underground
General route description	See Attachments 4, 19, and 22
Terrain description	See Attachments 19 and 22
Right-of-way width by segment	See Attachments 4 and 22
Electrical transmission infrastructure crossings	See Attachment 7
Civil infrastructure/major waterway facility crossing plan	See Attachment 7
Environmental impacts	See Attachment 19
Tower characteristics	See Attachment 6
Construction responsibility	Proposer
Construction responsibility Benefits/Comments	Proposer See Attachment 1, Section 3.4
Benefits/Comments	
Benefits/Comments Component Cost Details - In Current Year \$	See Attachment 1, Section 3.4
Benefits/Comments Component Cost Details - In Current Year \$ Engineering & design	See Attachment 1, Section 3.4 Confidential competitive information
Benefits/Comments Component Cost Details - In Current Year \$ Engineering & design Permitting / routing / siting	See Attachment 1, Section 3.4 Confidential competitive information Confidential competitive information
Benefits/Comments Component Cost Details - In Current Year \$ Engineering & design Permitting / routing / siting ROW / land acquisition	See Attachment 1, Section 3.4 Confidential competitive information Confidential competitive information Confidential competitive information
Benefits/Comments Component Cost Details - In Current Year \$ Engineering & design Permitting / routing / siting ROW / land acquisition Materials & equipment	See Attachment 1, Section 3.4 Confidential competitive information Confidential competitive information Confidential competitive information Confidential competitive information
Benefits/Comments Component Cost Details - In Current Year \$ Engineering & design Permitting / routing / siting ROW / land acquisition Materials & equipment Construction & commissioning	See Attachment 1, Section 3.4 Confidential competitive information Confidential competitive information Confidential competitive information Confidential competitive information

Total component cost	\$153,923,738.00	\$153,923,738.00	
Component cost (in-service year)	\$174,893,738.00	\$174,893,738.00	
Greenfield Substation Component			
Component title	Offshore Platform A	Offshore Platform A	
Project description	Offshore Platform A to collect Neptune Converter Station	Offshore Platform A to collect offshore wind and deliver 1,200 MW at the point of injection at the Neptune Converter Station	
Substation name	Offshore Platform A	Offshore Platform A	
Substation description		Offshore platform with an HVDC VSC technology converter station that will allow offshore wind generation to interconnect at 66 kV AC	
Nominal voltage	DC	DC	
Nominal voltage	400	400	
Transformer Information			
None			
Major equipment description	Offshore platform with an HVDC VSC technology converter station that will allow offshore wind generation to interconnect at 66 kV AC		
	Normal ratings	Emergency ratings	
Summer (MVA)	0.000000	0.000000	
Winter (MVA)	0.000000	0.000000	
Environmental assessment	See Attachment 19		
Outreach plan	See Attachment 12		
Land acquisition plan	See Attachment 22		
Construction responsibility	Proposer		
Benefits/Comments	See Attachment 1, Section 3	3.4	

Component Cost Details - In Current Year \$

Engineering & design	Confidential competitive information
Permitting / routing / siting	Confidential competitive information
ROW / land acquisition	Confidential competitive information
Materials & equipment	Confidential competitive information
Construction & commissioning	Confidential competitive information
Construction management	Confidential competitive information
Overheads & miscellaneous costs	Confidential competitive information
Contingency	Confidential competitive information
Total component cost	\$662,036,186.00
Component cost (in-service year)	\$760,286,605.00
Greenfield Substation Component	
Component title	Offshore Platform B
Project description	Offshore Platform B to collect offshore wind and deliver 1,200 MW at the point of injection at the Neptune Converter Station
Substation name	Offshore Platform B
Substation description	
	Offshore platform with an HVDC VSC technology converter station that will allow offshore wind generation to interconnect at 66 kV AC
Nominal voltage	
Nominal voltage Nominal voltage	generation to interconnect at 66 kV AC
-	generation to interconnect at 66 kV AC

None

Environmental assessment

Summer (MVA)

Winter (MVA)

Outreach plan

Land acquisition plan

Benefits/Comments

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Overheads & miscellaneous costs

Component cost (in-service year)

Construction management

Total component cost

Contingency

Construction responsibility

Component Cost Details - In Current Year \$

Offshore platform with an HVDC VSC technology converter station that will allow offshore wind generation to interconnect at 66 kV AC

Normal ratings	Emergency ratings
0.000000	0.000000
0.000000	0.000000
See Attachment 19	
See Attachment 12	
See Attachment 22	
Proposer	
See Attachment 1, Section 3.4	
Confidential competitive informa	tion
\$662,031,326.00	
\$760,281,745.00	

Greenfield Substation Component

Component title	Neptune Converter Station	
Project description	Onshore Converter station site with two 1,200 MW HVDC converters to connect to the existing 230 kV system to deliver 2,400 MW of offshore wind from Offshore Platforms A and B	
Substation name	Neptune Converter Station	
Substation description	Two HVDC VSC 1200 MW converters, tieing into a new 230 kV AC switchyard, with the existing Atlantic-Oceanview lines looped in and re-termination of the existing Larrabee-Oceanview into Neptune	
Nominal voltage	AC	
Nominal voltage	230	
Transformer Information		
None		
	Two HVDC VSC 1,200 MW converters, tieing into a new 230 kV AC switchyard, with the existing Atlantic-Oceanview lines looped in and re-termination of the existing Larrabee-Oceanview into Neptune	
Major equipment description	Atlantic-Oceanview lines loope	
Major equipment description	Atlantic-Oceanview lines loope	
Major equipment description Summer (MVA)	Atlantic-Oceanview lines loope Neptune	d in and re-termination of the existing Larrabee-Oceanview into
	Atlantic-Oceanview lines loope Neptune Normal ratings	d in and re-termination of the existing Larrabee-Oceanview into Emergency ratings
Summer (MVA)	Atlantic-Oceanview lines loope Neptune Normal ratings 0.000000	d in and re-termination of the existing Larrabee-Oceanview into Emergency ratings 0.000000
Summer (MVA) Winter (MVA)	Atlantic-Oceanview lines loope Neptune Normal ratings 0.000000 0.000000	d in and re-termination of the existing Larrabee-Oceanview into Emergency ratings 0.000000
Summer (MVA) Winter (MVA) Environmental assessment	Atlantic-Oceanview lines loope Neptune Normal ratings 0.000000 0.000000 See Attachment 19	d in and re-termination of the existing Larrabee-Oceanview into Emergency ratings 0.000000
Summer (MVA) Winter (MVA) Environmental assessment Outreach plan	Atlantic-Oceanview lines loope Neptune Normal ratings 0.000000 0.000000 See Attachment 19 See Attachment 12	d in and re-termination of the existing Larrabee-Oceanview into Emergency ratings 0.000000

Component Cost Details - In Current Year \$

Engineering & design	Confidential competitive information
Permitting / routing / siting	Confidential competitive information
ROW / land acquisition	Confidential competitive information
Materials & equipment	Confidential competitive information
Construction & commissioning	Confidential competitive information
Construction management	Confidential competitive information
Overheads & miscellaneous costs	Confidential competitive information
Contingency	Confidential competitive information
Total component cost	\$578,718,977.00
Component cost (in-service year)	\$653,275,181.90
Transmission Line Upgrade Component	
Component title	Loop in existing Atlantic - Oceanview 230 kV OH line Circuit X at NEETMA proposed Neptune 230 kV substation and reconductor the line section from Atlantic-Neptune
Project description	Loop in existing Atlantic - Oceanview 230 kV OH line Circuit X at NEETMA proposed Neptune 230 kV substation and reconductor the line section from Atlantic-Neptune
Impacted transmission line	Atlantic to New NEETMA-Neptune substation 230 kV line
Point A	Atlantic
Point B	Neptune
Point C	
Terrain description	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by incumbent, and substation will be constructed on property NEETMA will obtain site control for
Existing Line Physical Characteristics	

Operating voltage	230	230	
Conductor size and type	Same as existing	Same as existing	
Hardware plan description	Utilize existing line hardware	Utilize existing line hardware to extent practicable	
Tower line characteristics	New dead end structures will Neptune substation	New dead end structures will need to be installed in order to loop existing lines into the NEETMA Neptune substation	
Proposed Line Characteristics			
	Designed	Operating	
Voltage (kV)	230.000000	230.000000	
	Normal ratings	Emergency ratings	
Summer (MVA)	1086.000000	1456.000000	
Winter (MVA)	1222.000000	1618.000000	
Conductor size and type	1033.5 kcmil Curlew ACSR: 2C Bundle		
Shield wire size and type	Utilize existing shield wire to extent practicable		
Rebuild line length	4.76 miles		
Rebuild portion description	Reconductor and construct ne substation	Reconductor and construct new ~0.25 mi long 230 kV loop-ins to tie into the NEETMA Neptune AC substation	
Right of way	Use of existing ROW, no expansion anticipated		
Construction responsibility	JCPL		
Benefits/Comments	Resolves reliability issues identified per PJM's Gen. Deliv. Process		
Component Cost Details - In Current Year \$			
Engineering & design	Confidential competitive information		
Permitting / routing / siting	Confidential competitive inform	Confidential competitive information	

ROW / land acquisition	Confidential competitive information
Materials & equipment	Confidential competitive information
Construction & commissioning	Confidential competitive information
Construction management	Confidential competitive information
Overheads & miscellaneous costs	Confidential competitive information
Contingency	Confidential competitive information
Total component cost	\$6,190,000.00
Component cost (in-service year)	\$6,700,000.00
Transmission Line Upgrade Component	
Component title	Loop in existing Atlantic - Oceanview 230 kV OH line Circuit Y at NEETMA proposed Neptune 230 kV substation and reconductor the line section from Atlantic-Neptune
Project description	Loop in existing Atlantic - Oceanview 230 kV lines at NEETMA proposed Neptune 230 kV substation and reconductor the line section from Atlantic-Neptune
Impacted transmission line	Atlantic to New NEETMA-Neptune sub 230 kV line
Point A	Atlantic
Point B	Neptune
Point C	
Terrain description	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by incumbent, and substation will be constructed on property NEETMA will obtain site control for
Existing Line Physical Characteristics	
Operating voltage	230
Conductor size and type	Same as existing
Hardware plan description	Utilize existing line hardware to extent practicable

Tower line characteristics	New dead end structures will need to be installed in order to loop existing lines into the NEETMA Neptune substation	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	1086.000000	1456.000000
Winter (MVA)	1222.000000	1618.000000
Conductor size and type	1033.5 kcmil Curlew ACSR: 2C	
Shield wire size and type	Utilize existing shield wire to extent practicable	
Rebuild line length	4.76 miles	
Rebuild portion description	Reconductor and construct new \sim 0.25 mi long 230 kV loop-ins to tie into the NEETMA Neptune AC substation	
Right of way	Use of existing ROW, no expansion anticipated	
Construction responsibility	JCPL	
Benefits/Comments	Resolves reliability issues identified per PJM's Gen. Deliv. Process	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential competitive information	
Permitting / routing / siting	Confidential competitive information	
ROW / land acquisition	Confidential competitive information	
Materials & equipment	Confidential competitive information	
Construction & commissioning	Confidential competitive information	

Construction management	Confidential competitive information
Overheads & miscellaneous costs	Confidential competitive information
Contingency	Confidential competitive information
Total component cost	\$6,190,000.00
Component cost (in-service year)	\$6,700,000.00
Transmission Line Upgrade Component	
Component title	Loop in existing Atlantic - Oceanview 230 kV OH line Circuit X at NEETMA proposed Neptune 230 kV substation and reconductor the line section from Neptune - Oceanview 230 kV OH line Circuit -X
Project description	Loop in existing Atlantic - Oceanview 230 kV OH line Circuit X at NEETMA proposed Neptune 230 kV substation and reconductor the line section from Neptune - Oceanview 230 kV OH line Circuit -X
Impacted transmission line	New NEETMA-Neptune sub to Oceanview 230 kV line
Point A	Neptune
Point B	Oceanview
	Oceditiew
Point B	Oceanniew
	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by incumbent, and substation will be constructed on property NEETMA will obtain site control for
Point C	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by
Point C Terrain description	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by
Point C Terrain description Existing Line Physical Characteristics	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by incumbent, and substation will be constructed on property NEETMA will obtain site control for
Point C Terrain description Existing Line Physical Characteristics Operating voltage	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by incumbent, and substation will be constructed on property NEETMA will obtain site control for 230
Point C Terrain description Existing Line Physical Characteristics Operating voltage Conductor size and type	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by incumbent, and substation will be constructed on property NEETMA will obtain site control for 230 Same as existing
Point C Terrain description Existing Line Physical Characteristics Operating voltage Conductor size and type Hardware plan description	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by incumbent, and substation will be constructed on property NEETMA will obtain site control for 230 230 Same as existing Utilize existing line hardware to extent practicable New dead end structures will need to be installed in order to loop existing lines into the NEETMA
Point C Terrain description Existing Line Physical Characteristics Operating voltage Conductor size and type Hardware plan description Tower line characteristics	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by incumbent, and substation will be constructed on property NEETMA will obtain site control for 230 230 Same as existing Utilize existing line hardware to extent practicable New dead end structures will need to be installed in order to loop existing lines into the NEETMA

Voltage (kV)	230.000000	230.000000	
	Normal ratings	Emergency ratings	
Summer (MVA)	1337.000000	1642.000000	
Winter (MVA)	1403.000000	1720.000000	
Conductor size and type	Same as existing		
Shield wire size and type	Utilize existing shield wire to extent practicable		
Rebuild line length	0.3 miles	0.3 miles	
Rebuild portion description	Construct new ~0.25 mi long 2	Construct new ~0.25 mi long 230 kV loop-ins to tie into the NEETMA Neptune AC substation	
Right of way	Use of existing ROW, no expa	nsion anticipated	
Construction responsibility	JCPL		
Benefits/Comments	Resolves reliability issues identified per PJM's Gen. Deliv. Process		
Component Cost Details - In Current Year \$			
Engineering & design	Confidential competitive inform	nation	
Permitting / routing / siting	Confidential competitive information		
ROW / land acquisition	Confidential competitive information		
Materials & equipment	Confidential competitive information		
Construction & commissioning	Confidential competitive inform	nation	
Construction management	Confidential competitive inform	nation	
Overheads & miscellaneous costs	Confidential competitive inform	nation	
Contingency	Confidential competitive inform	nation	
Total component cost	\$2,000,000.00		
Component cost (in-service year)	\$2,160,000.00		

Transmission Line Upgrade Component

Component title		nview 230 kV OH line Circuit Y at NEETMA proposed Neptune 230 the line section from Neptune - Oceanview 230 kV OH line Circuit -Y	
Project description	Loop in existing Atlantic - Oceanview 230 kV OH line Circuit Y at NEETMA proposed Neptune 230 kV substation and reconductor the line section from Neptune - Oceanview 230 kV OH line Circuit -Y		
Impacted transmission line	New NEETMA-Neptune sub to Oceanview 230 kV line		
Point A	Neptune		
Point B	Oceanview	Oceanview	
Point C			
Terrain description	Terrain is cleared land area in sub-urban settings. Cut-ins will occur on ROW/easements owned by incumbent, and substation will be constructed on property NEETMA will obtain site control for		
Existing Line Physical Characteristics			
Operating voltage	230		
Conductor size and type	Same as existing		
Hardware plan description	Utilize existing line hardware to extent practicable		
Tower line characteristics	New dead end structures will need to be installed in order to loop existing lines into the NEETMA Neptune substation		
Proposed Line Characteristics			
	Designed	Operating	
Voltage (kV)	230.000000	230.000000	
	Normal ratings	Emergency ratings	
Summer (MVA)	1337.000000	1672.000000	
Winter (MVA)	1403.000000	1720.000000	

Conductor size and type	Same as existing
Shield wire size and type	Utilize existing shield wire to extent practicable
Rebuild line length	0.3 miles
Rebuild portion description	Construct new ~0.25 mi long 230 kV loop-ins to tie into the NEETMA Neptune AC substation
Right of way	Use of existing ROW, no expansion anticipated
Construction responsibility	JCPL
Benefits/Comments	Resolves reliability issues identified per PJM's Gen. Deliv. Process
Component Cost Details - In Current Year \$	
Engineering & design	Confidential competitive information
Permitting / routing / siting	Confidential competitive information
ROW / land acquisition	Confidential competitive information
Materials & equipment	Confidential competitive information
Construction & commissioning	Confidential competitive information
Construction management	Confidential competitive information
Overheads & miscellaneous costs	Confidential competitive information
Contingency	Confidential competitive information
Total component cost	\$2,000,000.00
Component cost (in-service year)	\$2,160,000.00
Transmission Line Upgrade Component	
Component title	Reterminate and Reconductor existing Larrabee - Oceanview 230 kV OH circuit
Project description	Reconductor existing Larrabee - Oceanview 230 kV line, and reterminate the Oceanview 230 kV
	and into NEETMAL Neature 220 W/ autotion

end into NEETMA's Neptune 230 kV substation

Impacted transmission line	Larrabee to Oceanview 230 kV line		
Point A	Larrabee		
Point B	Oceanview	Oceanview	
Point C			
Terrain description	Expect to utilize existing easements/utility owned property, no expansion anticipated		
Existing Line Physical Characteristics			
Operating voltage	230		
Conductor size and type	Same as existing	Same as existing	
Hardware plan description	Utilize existing line hardware to extent practicable		
Tower line characteristics	Utilize existing towers to extent practicable		
Proposed Line Characteristics			
	Designed	Operating	
Voltage (kV)	230.000000	230.000000	
	Normal ratings	Emergency ratings	
Summer (MVA)	887.000000	1195.000000	
Winter (MVA)	997.000000	1322.000000	
Conductor size and type	2156 kcmil Bluebird ACSR:1C Bundle		
Shield wire size and type	Utilize existing shield wire to extent practicable		
Rebuild line length	16.6 miles		
Rebuild portion description	Proposing to reconductor the entire line (or necessary portion) to achieve the specified rating		
Right of way	Use of existing ROW, no expansion anticipated		

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Congestion Drivers

None

Existing Flowgates

None

New Flowgates

None

JCPL

Resolves reliability issues identified per PJM's Gen. Deliv. Process

Confidential competitive information Source information Confidential competitive information Source information \$21,580,000.00

Financial Information

Capital spend start date	01/2022
Construction start date	12/2025
Project Duration (In Months)	77
Cost Containment Commitment	
Cost cap (in current year)	Confidential competitive information
Cost cap (in-service year)	Confidential competitive information
Components covered by cost containment	
1. Offshore Platform A – Asbury Park Landing HVDC - Proposer	
2. Offshore Platform B – Asbury Park Landing HVDC - Proposer	
3. Asbury Park Landing – Neptune Converter Station HVDC - Propose	r
4. Offshore Platform A - Proposer	
5. Offshore Platform B - Proposer	
6. Neptune Converter Station - Proposer	

Cost elements covered by cost containment

Engineering & design	Yes
Permitting / routing / siting	Yes
ROW / land acquisition	Yes
Materials & equipment	Yes
Construction & commissioning	Yes
Construction management	Yes
Overheads & miscellaneous costs	Yes

Taxes	Yes
AFUDC	Yes
Escalation	Yes
Additional Information	Confidential competitive information
Is the proposer offering a binding cap on ROE?	Yes
Would this ROE cap apply to the determination of AFUDC?	Yes
Would the proposer seek to increase the proposed ROE if FERC finds that a higher ROE would not be unreasonable?	No
Is the proposer offering a Debt to Equity Ratio cap?	Confidential competitive information
Additional cost containment measures not covered above	Confidential competitive information
Additional Comments	

None