Upgrades for Oceanview 3000 MW 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?

Company proposal ID 1A-O30

PJM Proposal ID 331

Project title Upgrades for Oceanview 3000 MW Injection

Yes

Project description Upgrades for Oceanview 3000 MW Injection

Email Johnbinh.Vu@nexteraenergy.com

Project in-service date 10/2025

Tie-line impact No

Interregional project No

Is the proposer offering a binding cap on capital costs?

Additional benefits

Project Components

- 1. Build one new Atlantic Smithburg 230 kV OH circuit utilizing existing...
- 2. Reconductor existing Larrabee Smithburg 230kV OH line Circuit 1
- 3. Reconductor existing Larrabee Smithburg 230kV OH line Circuit 2
- 4. Reconductor existing Atlantic New Prospect 230 kV OH line
- 5. Reconductor existing New Prospect Smithburg 230 kV OH line
- 6. Reconductor existing Windsor Clarksville 230 kV OH line

- 7. Reconductor existing Raritan River Kilmer 230 kV OH line
- 8. Reconductor existing Windsor E. Windsor 230 kV OH line Circuit 1
- 9. Reconductor existing Windsor E. Windsor 230 kV OH line Circuit 2
- 10. Eliminate conditions (contingencies such as as "JC-P1-2-JCC-230-018")...
- 11. Atlantic 230kV Substation Upgrade
- 12. Smithburg 230kV Substation Upgrade
- 13. Add 1x Phase Shifting Transformer (PST) at Raritan River substation for ...
- 14. Add 1x Phase Shifting Transformer (PST) at Raritan River substation for ...
- 15. Build one new Larrabee Oceanview sub 230 kV OH circuit
- 16. Retire existing Larrabee Atlantic 230 kV OH line

Transmission Line Upgrade Component

Component title Build one new Atlantic - Smithburg 230 kV OH circuit utilizing existing rights of way and open

positions on towers to extent practicable

Project description Add one new circuit from Atlantic - Smithburg utilizing open tower positions or by reconfiguring or

rebuilding existing single circuit lines to include a new double circuit in order to stay within the

existing rights of way

Impacted transmission line

Atlantic to Smithburg 230 kV line

Point A Atlantic

Point B Smithburg

Point C

Terrain description Expect to utilize existing easements/utility owned property, no expansion anticipated

Existing Line Physical Characteristics

Operating voltage 230/138

Conductor size and type Same as existing

Hardware plan description

Utilize existing line hardware to extent practicable

Tower line characteristics

Voltage (kV)

Summer (MVA)

Winter (MVA)

Conductor size and type

Shield wire size and type

Rebuild portion description

Rebuild line length

Utilize existing towers to extent practicable

Proposed Line Characteristics

Designed Operating

230.000000 230.000000

Normal ratings Emergency ratings

937.000000 1123.000000

982.000000 1173.000000

1272 kcmil Bittern ACSS HS: 1C Bundle

Utilize existing shield wire to extent practicable

23.58 miles

Proposing to add one new circuit from Atlantic - Smithburg utilizing open tower positions or by reconfiguring or rebuilding the existing lines to include the new circuit in order to stay within the

existing ROW to achieve the specified rating.

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 \$58,970,000.00

Component cost (in-service year) \$63,810,000.00

Transmission Line Upgrade Component

Component title Reconductor existing Larrabee - Smithburg 230kV OH line Circuit 1

Project description Reconductor existing Larrabee - Smithburg 230kV OH line Circuit 1

Impacted transmission line Larrabee to Smithburg 230 kV line

Point A Larrabee

Point B Smithburg

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

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)	937.000000	1123.000000
Winter (MVA)	982.000000	1173.000000
Conductor size and type	1272 kcmil Bittern ACSS HS: 1	C Bundle
Shield wire size and type	Utilize existing shield wire to ex	xtent practicable
Rebuild line length	11.76 miles	
Rebuild portion description	Proposing to reconductor the e	entire line (or necessary portion) to achieve the specified rating
Right of way	Use of existing ROW, no expar	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	ation
Permitting / routing / siting	Confidential competitive inform	ation
ROW / land acquisition	Confidential competitive inform	ation
Materials & equipment	Confidential competitive inform	ation
Construction & commissioning	Confidential competitive inform	ation
Construction management	Confidential competitive inform	ation
Overheads & miscellaneous costs	Confidential competitive inform	ation
Contingency	Confidential competitive inform	ation
Total component cost	\$15,280,000.00	
Component cost (in-service year)	\$16,550,000.00	

Transmission Line Upgrade Component

Component title Reconductor existing Larrabee - Smithburg 230kV OH line Circuit 2

Project description Reconductor existing Larrabee - Smithburg 230kV OH line Circuit 2

Impacted transmission line

Larrabee to Smithburg 230 kV line

Point A Larrabee

Point B Smithburg

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

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) 937.000000 1123.000000

Winter (MVA) 982.000000 1173.000000

Conductor size and type 1272 kcmil Bittern ACSS HS: 1C Bundle

Shield wire size and type

Utilize existing shield wire to extent practicable

Rebuild line length 11.76 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 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 \$15,280,000.00

Component cost (in-service year) \$16,550,000.00

Transmission Line Upgrade Component

Component title Reconductor existing Atlantic - New Prospect 230 kV OH line

Project description Reconductor existing Atlantic - New Prospect 230 kV OH line

Impacted transmission line Atlantic to New Prospect 230 kV line

Point A Atlantic

Point B New Prospect

Point C

Terrain description Expect to utilize existing easements/utility owned property, no expansion anticipated

Designed

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

Utilize existing towers to extent practicable

Proposed Line Characteristics

Summer (MVA)

Winter (MVA)

Voltage (kV) 230.000000 230.000000

Normal ratings Emergency ratings

Operating

937.000000 1123.000000

982.000000 1173.000000

Conductor size and type 1272 kcmil Bittern ACSS HS: 1C Bundle

Shield wire size and type

Utilize existing shield wire to extent practicable

Rebuild line length 18.33 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 JCPL

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

Component Cost Details - In Current Year \$

Engineering & design Confidential competitive information

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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 \$23,830,000.00

Component cost (in-service year) \$25,790,000.00

Transmission Line Upgrade Component

Component title Reconductor existing New Prospect - Smithburg 230 kV OH line

Project description Reconductor existing New Prospect - Smithburg 230 kV OH line

Impacted transmission line Smithburg to New Prospect 230 kV line

Point A Smithburg

Point B New Prospect

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

Hardware plan description

Utilize existing line hardware to extent practicable

Tower line characteristics

Utilize existing towers to extent practicable

Proposed Line Characteristics

Construction management

Overheads & miscellaneous costs

	Designed	Operating	
Voltage (kV)	230.000000	230.000000	
	Normal ratings	Emergency ratings	
Summer (MVA)	937.000000	1123.000000	
Winter (MVA)	982.000000	1173.000000	
Conductor size and type	1272 kcmil Bittern ACSS HS: 1	1272 kcmil Bittern ACSS HS: 1C Bundle	
Shield wire size and type	Utilize existing shield wire to extent practicable		
Rebuild line length	6.58 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	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 inform	nation	
Construction & commissioning	Confidential competitive inform	nation	

Confidential competitive information

Confidential competitive information

Contingency Confidential competitive information

Total component cost \$8,550,000.00

Component cost (in-service year) \$9,260,000.00

Transmission Line Upgrade Component

Component title Reconductor existing Windsor - Clarksville 230 kV OH line

Project description Reconductor existing Windsor - Clarksville 230 kV OH line

Impacted transmission line Windsor to Clarksville Bus Section 1 230 kV line

Point A Windsor

Point B Clarksville Bus Section 1

Point C

Terrain description Expect to utilize existing easements/utility owned property, no expansion anticipated

Designed

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

Utilize existing towers to extent practicable

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	812.000000	975.000000

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Operating

Winter (MVA) 852.000000 1020.000000

Conductor size and type 1033.5 kcmil Snowbird ACSS: 1C Bundle

Shield wire size and type

Utilize existing shield wire to extent practicable

Rebuild line length 7.75 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 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 \$10,090,000.00

Component cost (in-service year) \$10,910,000.00

Transmission Line Upgrade Component

Component title Reconductor existing Raritan River - Kilmer 230 kV OH line

Project description Reconductor existing Raritan River - Kilmer 230 kV OH line

Impacted transmission line Raritan River to Kilmer I 230 kV line

Point A Raritan River

Point B Kilmer I

Point C

Terrain description Expect to utilize existing easements/utility owned property, no expansion anticipated

Designed

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

Utilize existing towers to extent practicable

Proposed Line Characteristics

Voltage (kV) 230.000000 230.000000

Normal ratings Emergency ratings

Summer (MVA) 799.000000 963.000000

Winter (MVA) 837.000000 1008.000000

Conductor size and type 1033.5 kcmil Curlew ACSS HS: 1C Bundle

Shield wire size and type

Utilize existing shield wire to extent practicable

Rebuild line length 6.09 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

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Operating

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 \$7,910,000.00

Component cost (in-service year) \$8,570,000.00

Transmission Line Upgrade Component

Component title Reconductor existing Windsor - E. Windsor 230 kV OH line Circuit 1

Project description Reconductor existing Windsor - E. Windsor 230 kV OH line Circuit 1

Impacted transmission line Windsor to E Windsor 230 kV line

Point A Windsor

Point B E. Windsor

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

Hardware plan description

Utilize existing line hardware to extent practicable

Tower line characteristics

Utilize existing towers to extent practicable

Proposed Line Characteristics

Voltage (kV)	230.000000	230.000000

Normal ratings	Emergency ratings

Summer (MVA) 799.000000 963.000000

Winter (MVA) 837.000000 1008.000000

Conductor size and type 1033.5 kcmil Curlew ACSS HS: 1C Bundle

Shield wire size and type

Utilize existing shield wire to extent practicable

Rebuild line length 2.64 miles

Rebuild portion description Proposing to reconductor the entire line (or necessary portion) to achieve the specified rating

Designed

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

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Operating

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 \$3,430,000.00

Component cost (in-service year) \$3,720,000.00

Transmission Line Upgrade Component

Component title Reconductor existing Windsor - E. Windsor 230 kV OH line Circuit 2

Project description Reconductor existing Windsor - E. Windsor 230 kV OH line Circuit 2

Impacted transmission line Windsor to E Windsor 230 kV line

Point A Windsor

Point B E. Windsor

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

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)	799.000000	963.000000	
Winter (MVA)	837.000000	1008.000000	
Conductor size and type	1033.5 kcmil Curlew ACSS HS	S: 1C Bundle	
Shield wire size and type	Utilize existing shield wire to ex	Utilize existing shield wire to extent practicable	
Rebuild line length	2.64 miles	2.64 miles	
Rebuild portion description	Proposing to reconductor the e	Proposing to reconductor the entire line (or necessary portion) to achieve the specified rating	
Right of way	Use of existing ROW, no expa	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 inform	nation	
Total component cost	\$3,430,000.00		
Component cost (in-service year)	\$3,720,000.00		

Transmission Line Upgrade Component

Component title Eliminate conditions (contingencies such as as "JC-P1-2-JCC-230-018") which derate short-term

winter emergency ratings of Smithburg - E. Windsor 230 kV OH line

Project description Eliminate conditions (contingencies such as as "JC-P1-2-JCC-230-018") which derate short-term

winter emergency ratings of Smithburg - E. Windsor 230 kV OH line

Operating

Impacted transmission line Smithburg to E Windsor 230 kV line

Point A Smithburg

Point B E. Windsor

Point C

Terrain description Expect to utilize existing easements/utility owned property, no expansion anticipated

Designed

Existing Line Physical Characteristics

Operating voltage 230

Conductor size and type Same as existing

Utilize existing line hardware to extent practicable Hardware plan description

Tower line characteristics Utilize existing towers to extent practicable

Proposed Line Characteristics

Voltage (kV) 230.000000 230.000000

Normal ratings Emergency ratings

Summer (MVA) 1245.000000 1394.000000

Winter (MVA) 1476.000000 1652.000000

Conductor size and type Same as existing

Shield wire size and type

Utilize existing shield wire to extent practicable

Rebuild line length N/A

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 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 \$5,000,000.00

Component cost (in-service year) \$5,410,000.00

Substation Upgrade Component

Component title Atlantic 230kV Substation Upgrade

Project description Add one 230 kV line termination at Atlantic, or reconfigure the existing substation to breaker and a

half with 9 positions (10 existing CB + 4 new CB)

Substation name Atlantic 230 kV

Substation zone JCPL

Substation upgrade scope Add one 230 kV line termination at Atlantic, or reconfigure the existing substation to breaker and a

half with 9 positions (10 existing CB + 4 new CB)

Transformer Information

None

New equipment description

Add one 230 kV line termination at Atlantic, or reconfigure the existing substation to breaker and a half with 9 positions (10 existing CB + 4 new CB)

Substation assumptions

Use available space to rebuild the sub

Real-estate description No expansion of substation fence 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 \$13,990,000.00

Component cost (in-service year) \$15,140,000.00

Substation Upgrade Component

Component title Smithburg 230kV Substation Upgrade

Project description Add one new line position (2 CBs) at Smithburg substation to land the new Atlantic -Smithburg 230

kV OH circuit

Substation name Smithburg

Substation zone JCPL

Substation upgrade scope Add one new line position (2 CBs) at Smithburg substation to land the new Atlantic -Smithburg 230

kV OH circuit

Transformer Information

None

New equipment description Add one new line position (2 CBs) at Smithburg substation to land the new Atlantic -Smithburg 230

kV OH circuit

Substation assumptions Open positions available per TO provided one-lines

Real-estate description No expansion of substation fence 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 \$8,080,000.00

Component cost (in-service year) \$8,740,000.00

Substation Upgrade Component

Component title Add 1x Phase Shifting Transformer (PST) at Raritan River substation for Raritan River- Red Oak

230 OH line Circuit 1

Project description Add 1x Phase Shifting Transformer (PST) at Raritan River substation for Raritan River- Red Oak

230 OH line Circuit 1

Substation name Raritan River 230 kV

Substation zone JCPL

Substation upgrade scope Add 1x Phase Shifting Transformer (PST) at Raritan River substation for Raritan River- Red Oak

230 OH line Circuit 1

Transformer Information

Name Capacity (MVA)

Transformer Raritan River 230 kV PST (Circuit**76**)6

High Side Low Side Tertiary

Voltage (kV) 230

New equipment description AC Substation : Phase Shifter

Substation assumptions

Use available space in sub to add phase shifting transformer

Real-estate description No expansion of substation fence 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 \$15,000,000.00

Component cost (in-service year) \$16,240,000.00

Substation Upgrade Component

Component title Add 1x Phase Shifting Transformer (PST) at Raritan River substation for Raritan River- Red Oak

230 OH line Circuit 2

Project description Add 1x Phase Shifting Transformer (PST) at Raritan River substation for Raritan River- Red Oak

230 OH line Circuit 2

Substation name Raritan River 230 kV

Substation zone JCPL

Substation upgrade scope Add 1x Phase Shifting Transformer (PST) at Raritan River substation for Raritan River- Red Oak

230 OH line Circuit 2

Transformer Information

Name Capacity (MVA)

Transformer Raritan River 230 kV PST (Circuit/26)6

	High Side	Low Side	Tertiary
Voltage (kV)	230	230	
New equipment description	AC Substation : Phase Shifter		
Substation assumptions	Use available space in sub to ad	ld phase shifting transformer	
Real-estate description	No expansion of substation fence	e anticipated	
Construction responsibility	JCPL		
Benefits/Comments	Resolves reliability issues identif	ied per PJM's Gen. Deliv. Proces	s
Component Cost Details - In Current Year \$			
Engineering & design	Confidential competitive information	tion	
Permitting / routing / siting	Confidential competitive information		
ROW / land acquisition	Confidential competitive information	tion	
Materials & equipment	Confidential competitive information		
Construction & commissioning	Confidential competitive information	tion	
Construction management	Confidential competitive information	tion	
Overheads & miscellaneous costs	Confidential competitive information	tion	
Contingency	Confidential competitive information	tion	
Total component cost	\$15,000,000.00		
Component cost (in-service year)	\$16,240,000.00		
Transmission Line Upgrade Component			
Occurrent City	Della and novel analysis Occasion	view aub 220 la/ Old ainsuit	

Component title Build one new Larrabee - Oceanview sub 230 kV OH circuit

Project description

Build one new Oceanview to Larrabee 230 kV OH circuit using the open position on existing

Oceanview - Larrabee 230 kV tower

Impacted transmission line

Larrabee to Oceanview 230 kV line

Point A Larrabee

Point B Oceanview

Point C

Terrain description Expect to utilize existing easements/utility owned property, no expansion anticipated

Designed

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

Utilize existing towers to extent practicable

Proposed Line Characteristics

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 795 kcmil Drake ACSS/TW HS: 2C Bundle

Shield wire size and type

Utilize existing shield wire to extent practicable

Rebuild line length 16.6 miles

Rebuild portion description

Proposing to add one new circuit from Larrabee to Oceanview utilizing open tower positions or by reconfiguring or rebuilding the existing lines to include the new circuit in order to stay within the existing ROW to achieve the specified rating.

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Operating

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 \$58,970,000.00

Component cost (in-service year) \$63,810,000.00

Transmission Line Upgrade Component

Component title Retire existing Larrabee - Atlantic 230 kV OH line

Project description Retire existing Larrabee - Atlantic 230 kV OH line

Impacted transmission line

Larrabee - Atlantic 230 kV OH line

Point A Larrabee

Point B Atlantic

Point C

Terrain description Existing easements/utility owned property

Existing Line Physical Characteristics

Operating voltage 230

Conductor size and type Same as existing

Hardware plan description N/A

Tower line characteristics N/A

Proposed Line Characteristics

Rebuild line length

Right of way

Rebuild portion description

	Designed	Operating
Voltage (kV)	0.000000	0.000000
	Normal ratings	Emergency ratings
Summer (MVA)	0.000000	0.000000
Winter (MVA)	0.000000	0.000000
Conductor size and type	N/A	
Shield wire size and type	N/A	

N/A

N/A

N/A

Construction responsibility JCPL

Benefits/Comments N/A

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 \$3,000,000.00

Component cost (in-service year) \$3,250,000.00

Congestion Drivers

None

Existing Flowgates

None

New Flowgates

None

Financial Information

Capital spend start date 12/2022

Construction start date 12/2022

Project Duration (In Months) 34

Additional Comments

None