LS Power

2025 Open Window 1 Proposal Addendum Memorandum

To: PJM Interconnection
Date: September 22, 2025
Subject: PJM Proposal ID 260 Addendum

Introduction

This memorandum provides a summary of component details on PJM Proposal ID 260. While these components were included as part of the proposal, the component details were omitted in the PJM Competitive Planner web-based tool.

Addendum Description

The attached addendum provides component details for:

20. Rawlings to South Fork 500 kV
21. South Fork to Carson 500 kV
22. Middle Fork to South Fork 500 kV Transmission Line #1
23. Middle Fork to South Fork 500 kV Transmission Line #2
24. Joshua Falls to Yeat 765 kV Transmission Line Loop-in
25. Elmont to Cunningham 500 kV Loop-in
26. Midlothian to North Anna 500 kV Loop-in

Proposal ID 260 Cost Summary

Components 25 and 26 were not included in the original capital expenditure details. These components are associated with the 500 kV interconnections for the proposed Turkey Creek substation, which do not affect the proponent scope or cost containment. A side-by-side comparison of the total Component Cost (in current-year dollars) is provided below.

Capital Expenditure Details	Original	Updated
Engineering and design	$116,656,310	$116,865,214
Permitting / routing / siting	$81,949,576	$82,602,401
ROW / land acquisition	$183,649,798	$184,013,434
Materials and equipment	$1,052,997,714	$1,053,954,102
Construction and commissioning	$1,390,503,916	$1,391,718,170
Construction management	$112,413,904	$112,580,374
Overheads and miscellaneous costs	$115,547,924	$115,613,206
Contingency	$458,057,871	$458,602,035
Proposer total capex	$3,423,053,784	$3,423,053,784
Work by others capex	$88,723,229	$92,895,153
Total project capex	**$3,511,777,013**	**$3,515,948,938**

Virginia Transmission Project Addendum

Project Components

20. Rawlings to South Fork 500 kV

21. South Fork to Carson 500 kV

22. Middle Fork to South Fork 500 kV Transmission Line #1

23. Middle Fork to South Fork 500 kV Transmission Line #2

24. Joshua Falls to Yeat 765 kV Transmission Line Loop-in

25. Elmont to Cunningham 500 kV Loop-in

26. Midlothian to North Anna 500 kV Loop-in

Greenfield Transmission Line Component

Component title	Rawlings to South Fork 500 kV Transmission Line	
Project description		
Point A	Rawlings	
Point B	South Fork	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	4330	4330
Winter (MVA)	4330	4330
Conductor size and type	Triple 954kcmil "Cardinal" ACSS /TW MA3	
Nominal voltage	AC	
Nominal voltage	500	
Line construction type	Overhead	
General route description	The route heads east out of Rawlings for before terminating at the South Fork substation.	

Terrain description	The terrain is generally wooded lands or farm fields.
Right-of-way width by segment	The project will feature a right of way width of 175 feet for the project route.
Electrical transmission infrastructure crossings	
Civil infrastructure/major waterway facility crossing plan	The proposer will secure crossing and encroachment permits, authorizations and agreements for existing linear infrastructure crossed by the project. The proposer will coordinate with easement holders including; municipal and county roads; oil and gas pipelines; transmission lines, and local distribution utilities (power, sewer, water, gas, fiber, etc.) to not interfere with existing easement rights crossed by the project. The proposer will obtain occupation agreements from municipal and county jurisdictions to place transmission facilities over municipal and country roads. The proposer plans to secure crossing agreements with existing oil and gas pipelines and transmission lines.
Environmental impacts	The proposed Project was sited to avoid and minimize impacts to wetlands or other areas of environmental concern based on GIS data. It is possible that the Project cannot avoid impacts to a limited number of wetlands and waterways. If so, Proposer expects the Project will be subject to regulation under certain permitting programs, namely Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, and Section 401 of the Clean Water Act. Proposer will engage a qualified consultant to conduct a wetlands delineation of the selected site/route in order to establish the extent of proposed impacts and the need for specific permits from the state or U.S. Army Corps of Engineers. In addition to the permits described above, Proposer has identified other permits which may be required for the construction of the Project. Proposer considers these permits to be minor due to the more limited effort to prepare applications and the less intensive permitting processes which follow. These include permits related to airspace clearance, stormwater/erosion and sedimentation control, road crossings, and utility and railroad crossings.
Tower characteristics	The preliminary design for the single circuit transmission line utilizes tubular steel monopole structures with davit arms and v-string insulators in a delta configuration.
Construction responsibility	Proposer
Benefits/Comments	
Supporting Documents	
Land acquisition by segment	Rawlings to South Fork Constraints Map.zip

Proposed route	Rawlings – South Fork 500kV.kmz
Component Cost Details - In Current Year $	
Engineering & design	CONFIDENTIAL
Permitting / routing / siting	CONFIDENTIAL
ROW / land acquisition	CONFIDENTIAL
Materials & equipment	CONFIDENTIAL
Construction & commissioning	CONFIDENTIAL
Construction management	CONFIDENTIAL
Overheads & miscellaneous costs	CONFIDENTIAL
Contingency	CONFIDENTIAL
Total component cost	$126,507,016
Component cost (in-service year)	$150,981,921

Greenfield Transmission Line Component

Component title	South Fork to Carson 500 kV Transmission Line	
Project description		
Point A	South Fork	
Point B	Carson	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	4330	4330
Winter (MVA)	4330	4330
Conductor size and type	Triple 954kcmil "Cardinal" ACSS /TW MA3	
Nominal voltage	AC	
Nominal voltage	500	
Line construction type	Overhead	
General route description	The route heads east out of South Fork before terminating at the Carson substation.	
Terrain description	The terrain is generally wooded lands or farm fields.	
Right-of-way width by segment	The project will feature a right of way width of 175 feet for the project route.	

Electrical transmission infrastructure crossings	
Civil infrastructure/major waterway facility crossing plan	The proposer will secure crossing and encroachment permits, authorizations and agreements for existing linear infrastructure crossed by the project. The proposer will coordinate with easement holders including; municipal and county roads; oil and gas pipelines; transmission lines, and local distribution utilities (power, sewer, water, gas, fiber, etc.) to not interfere with existing easement rights crossed by the project. The proposer will obtain occupation agreements from municipal and county jurisdictions to place transmission facilities over municipal and country roads. The proposer plans to secure crossing agreements with existing oil and gas pipelines and transmission lines.
Environmental impacts	The proposed Project was sited to avoid and minimize impacts to wetlands or other areas of environmental concern based on GIS data. It is possible that the Project cannot avoid impacts to a limited number of wetlands and waterways. If so, Proposer expects the Project will be subject to regulation under certain permitting programs, namely Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, and Section 401 of the Clean Water Act. Proposer will engage a qualified consultant to conduct a wetlands delineation of the selected site/route in order to establish the extent of proposed impacts and the need for specific permits from the state or U.S. Army Corps of Engineers. In addition to the permits described above, Proposer has identified other permits which may be required for the construction of the Project. Proposer considers these permits to be minor due to the more limited effort to prepare applications and the less intensive permitting processes which follow. These include permits related to airspace clearance, stormwater/erosion and sedimentation control, road crossings, and utility and railroad crossings.
Tower characteristics	The preliminary design for the single circuit transmission line utilizes tubular steel monopole structures with davit arms and v-string insulators in a delta configuration.
Construction responsibility	Proposer
Benefits/Comments	
Supporting Documents	
Land acquisition by segment	South Fork – Carson Maps.zip
Proposed route	South Fork – Carson 500kV.kmz
Component Cost Details - In Current Year $	
Engineering & design	CONFIDENTIAL
Permitting / routing / siting	CONFIDENTIAL

ROW / land acquisition	CONFIDENTIAL
Materials & equipment	CONFIDENTIAL
Construction & commissioning	CONFIDENTIAL
Construction management	CONFIDENTIAL
Overheads & miscellaneous costs	CONFIDENTIAL
Contingency	CONFIDENTIAL
Total component cost	$2,399,203
Component cost (in-service year)	$2,863,369

Greenfield Transmission Line Component

Component title	Middle Fork to South Fork 500 kV Transmission Line #1	
Project description		
Point A	Middle Fork	
Point B	South Fork	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	5196	5196
Winter (MVA)	5196	5196
Conductor size and type	Triple 1351.5kcmil "Martin" ACSS /TW MA3	
Nominal voltage	AC	
Nominal voltage	500	
Line construction type	Overhead	
General route description	The route heads south out of Middle Fork and mainly parallels existing transmission before terminating at the South Fork substation.	
Terrain description	The terrain is generally wooded lands or farm fields.	
Right-of-way width by segment	The project will feature a right of way width of 175 feet for the project route.	
Electrical transmission infrastructure crossings		
Civil infrastructure/major waterway facility crossing plan	The proposer will secure crossing and encroachment permits, authorizations and agreements for existing linear infrastructure crossed by the project. The proposer will	

	coordinate with easement holders including; municipal and county roads; oil and gas pipelines; transmission lines, and local distribution utilities (power, sewer, water, gas, fiber, etc.) to not interfere with existing easement rights crossed by the project. The proposer will obtain occupation agreements from municipal and county jurisdictions to place transmission facilities over municipal and country roads. The proposer plans to secure crossing agreements with existing oil and gas pipelines and transmission lines.
Environmental impacts	The proposed Project was sited to avoid and minimize impacts to wetlands or other areas of environmental concern based on GIS data. It is possible that the Project cannot avoid impacts to a limited number of wetlands and waterways. If so, Proposer expects the Project will be subject to regulation under certain permitting programs, namely Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, and Section 401 of the Clean Water Act. Proposer will engage a qualified consultant to conduct a wetlands delineation of the selected site/route in order to establish the extent of proposed impacts and the need for specific permits from the state or U.S. Army Corps of Engineers. In addition to the permits described above, Proposer has identified other permits which may be required for the construction of the Project. Proposer considers these permits to be minor due to the more limited effort to prepare applications and the less intensive permitting processes which follow. These include permits related to airspace clearance, stormwater/erosion and sedimentation control, road crossings, and utility and railroad crossings.
Tower characteristics	The preliminary design for the single circuit transmission line utilizes tubular steel monopole structures with davit arms and v-string insulators in a delta configuration.
Construction responsibility	Proposer
Benefits/Comments	
Supporting Documents	
Land acquisition by segment	Middle Fork – South Fork 1 Maps.zip
Proposed route	South Fork – Middle Fork 500kV 1.kmz
Component Cost Details - In Current Year $	
Engineering & design	CONFIDENTIAL
Permitting / routing / siting	CONFIDENTIAL
ROW / land acquisition	CONFIDENTIAL
Materials & equipment	CONFIDENTIAL
Construction & commissioning	CONFIDENTIAL

Construction management	CONFIDENTIAL
Overheads & miscellaneous costs	CONFIDENTIAL
Contingency	CONFIDENTIAL
Total component cost	$649,964,937
Component cost (in-service year)	$775,711,558

Greenfield Transmission Line Component

Component title	Middle Fork to South Fork 500 kV Transmission Line #2	
Project description		
Point A	Middle Fork	
Point B	South Fork	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	5196	5196
Winter (MVA)	5196	5196
Conductor size and type	Triple 1351.5kcmil "Martin" ACSS /TW MA3	
Nominal voltage	AC	
Nominal voltage	500	
Line construction type	Overhead	
General route description	The route heads south out of Middle Fork and mainly parallels existing transmission before terminating at the South Fork substation.	
Terrain description	The terrain is generally wooded lands or farm fields.	
Right-of-way width by segment	The project will feature a right of way width of 175 feet for the project route.	
Electrical transmission infrastructure crossings		
Civil infrastructure/major waterway facility crossing plan	The proposer will secure crossing and encroachment permits, authorizations and agreements for existing linear infrastructure crossed by the project. The proposer will coordinate with easement holders including; municipal and county roads; oil and gas pipelines; transmission lines, and local distribution utilities (power, sewer, water, gas, fiber, etc.) to not interfere with existing easement rights crossed by the project. The	

	proposer will obtain occupation agreements from municipal and county jurisdictions to place transmission facilities over municipal and country roads. The proposer plans to secure crossing agreements with existing oil and gas pipelines and transmission lines.
Environmental impacts	The proposed Project was sited to avoid and minimize impacts to wetlands or other areas of environmental concern based on GIS data. It is possible that the Project cannot avoid impacts to a limited number of wetlands and waterways. If so, Proposer expects the Project will be subject to regulation under certain permitting programs, namely Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, and Section 401 of the Clean Water Act. Proposer will engage a qualified consultant to conduct a wetlands delineation of the selected site/route in order to establish the extent of proposed impacts and the need for specific permits from the state or U.S. Army Corps of Engineers. In addition to the permits described above, Proposer has identified other permits which may be required for the construction of the Project. Proposer considers these permits to be minor due to the more limited effort to prepare applications and the less intensive permitting processes which follow. These include permits related to airspace clearance, stormwater/erosion and sedimentation control, road crossings, and utility and railroad crossings.
Tower characteristics	The preliminary design for the single circuit transmission line utilizes tubular steel monopole structures with davit arms and v-string insulators in a delta configuration.
Construction responsibility	Proposer
Benefits/Comments	
Supporting Documents	
Land acquisition by segment	Middle Fork to South Fork 2 Maps.zip
Proposed route	South Fork – Middle Fork 500 kV 2.kmz
Component Cost Details - In Current Year $	
Engineering & design	CONFIDENTIAL
Permitting / routing / siting	CONFIDENTIAL
ROW / land acquisition	CONFIDENTIAL
Materials & equipment	CONFIDENTIAL
Construction & commissioning	CONFIDENTIAL
Construction management	CONFIDENTIAL
Overheads & miscellaneous costs	CONFIDENTIAL

Contingency	CONFIDENTIAL
Total component cost	$649,964,937
Component cost (in-service year)	$775,711,558

Transmission Line Upgrade Component

Component title	Joshua Falls to Yeat 765 kV Transmission Line Loop-in	
Project description		
Point A	Joshua Falls	
Point B	Yeat	
Point C		
Terrain description	The terrain is generally farm fields.	
Existing Line Physical Characteristics		
Operating voltage	765	
Conductor size and type	To match existing	
Hardware plan description	N/A	
Tower line characteristics	To match existing	
Proposed Line Characteristics	Designed	Operating
Voltage (kV)	765	765
	Normal ratings	Emergency Ratings
Summer (MVA)	4047	4571
Winter (MVA)	4047	4571
Conductor size and type	Conductor will match existing	
Shield wire size and type	Shield wire will match existing	
Rebuild line length	<0.5 miles	
Rebuild portion description	The loop-in will require the construction of approximately 0.5 miles of new 765 kV transmission line. The right-of-way width is assumed to be 200 feet.	
Right of way	The right-of-way width is assumed to be 200 feet.	
Construction responsibility	Transource	

Benefits/Comments	
Supporting Documents	None
Component Cost Details - In Current Year $	
Engineering & design	CONFIDENTIAL
Permitting / routing / siting	CONFIDENTIAL
ROW / land acquisition	CONFIDENTIAL
Materials & equipment	CONFIDENTIAL
Construction & commissioning	CONFIDENTIAL
Construction management	CONFIDENTIAL
Overheads & miscellaneous costs	CONFIDENTIAL
Contingency	CONFIDENTIAL
Total component cost	$2,085,962
Component cost (in-service year)	$2,454,695

Transmission Line Upgrade Component

Component title	Elmont to Cunningham 500 kV Loop-In
Project description	
Impacted transmission line	Elmont to Cunningham 500 kV Transmission Line
Point A	Elmont
Point B	Cunningham
Point C	
Terrain description	The terrain is flat farmland and forested areas with some rolling hills.
Existing Line Physical Characteristics	
Operating voltage	500
Conductor size and type	To match existing
Hardware plan description	N/A

Tower line characteristics	To match existing	
Proposed Line Characteristics	Designed	Operating
Voltage (kV)	500	500
	Normal ratings	Emergency Ratings
Summer (MVA)	4357	4357
Winter (MVA)	5155	5155
Conductor size and type	Conductor will match existing	
Shield wire size and type	Shield wire will match existing	
Rebuild line length	<0.5 miles	
Rebuild portion description	The loop-in will require the construction of approximately 0.5 miles of new 500 kV transmission line. The right-of-way width is assumed to be 200 feet.	
Right of way	The right-of-way width is assumed to be 200 feet.	
Construction responsibility	Dominion	
Benefits/Comments		
Supporting Documents		
Component Cost Details - In Current Year $		
Engineering & design	CONFIDENTIAL	
Permitting / routing / siting	CONFIDENTIAL	
ROW / land acquisition	CONFIDENTIAL	
Materials & equipment	CONFIDENTIAL	
Construction & commissioning	CONFIDENTIAL	
Construction management	CONFIDENTIAL	
Overheads & miscellaneous costs	CONFIDENTIAL	
Contingency	CONFIDENTIAL	
Total component cost	$2,085,962	
Component cost (in-service year)	$2,454,695	

Transmission Line Upgrade Component

Component title	Midlothian to North Anna 500 kV Loop-In

Project description		
Impacted transmission line	Midlothian to North Anna 500 kV Transmission Line	
Point A	Midlothian	
Point B	North Anna	
Point C		
Terrain description	The terrain is flat farmland and forested areas with some rolling hills.	
Existing Line Physical Characteristics		
Operating voltage	500	
Conductor size and type	To match existing	
Hardware plan description	N/A	
Tower line characteristics	To match existing	
Proposed Line Characteristics	Designed	Operating
Voltage (kV)	500	500
	Normal ratings	Emergency Ratings
Summer (MVA)	3397	3426
Winter (MVA)	3984	4018
Conductor size and type	Conductor will match existing	
Shield wire size and type	Shield wire will match existing	
Rebuild line length	<0.5 miles	
Rebuild portion description	The loop-in will require the construction of approximately 0.5 miles of new 500 kV transmission line. The right-of-way width is assumed to be 200 feet.	
Right of way	The right-of-way width is assumed to be 200 feet.	
Construction responsibility	Dominion	
Benefits/Comments		
Supporting Documents		
Component Cost Details - In Current Year $		
Engineering & design	CONFIDENTIAL	
Permitting / routing / siting	CONFIDENTIAL	
ROW / land acquisition	CONFIDENTIAL	

Materials & equipment	CONFIDENTIAL
Construction & commissioning	CONFIDENTIAL
Construction management	CONFIDENTIAL
Overheads & miscellaneous costs	CONFIDENTIAL
Contingency	CONFIDENTIAL
Total component cost	$2,085,962
Component cost (in-service year)	$2,454,695