Standar

Indicates DTO Populated field
Indicates SPP Populated field (locked for DTO)

Network Upgrade Name		
High Voltage		
Low Voltage		
Project ID		
Upgrade ID		
Project Estimate Stage		
Baseline Estimate (Y/N)		
Total Network Upgrade Cost Estimate	**$3,293,025**	Formula will pu
Override	☐	
Final Cost		
Network Upgrade Description		
Network Upgrade Scope	Expand substation and build a r	
Estimate Provider Comments		
Type of SCERT		

Construction Status	Not Applicable (N/A)	Not Started
Engineering/Design Phase		X
Siting/Routing Phase	X	
Environmental Study Phase	X	
Permits Phase	X	
Material Procurement Phase		X
Construction Phase		X
In Service:		

Line Costs	Current Year $
Engineering Labor	
Construction Labor	
Right-of-Way	
Reactive Compensation (Labor & Materials)	
Material	
Line Sub-Total	**$0**
Station Costs	
Engineering Labor	750000
Construction Labor	1189331
Site Property Rights	

Reactive Compensation (Labor & Materials)	
Material	1054328.04
Station Sub-Total	**$2,993,659**
Summary Info	
Line Sub-Total	$0
Station Sub-Total	$2,993,659
AFUDC	
Contingency	$299,365.90
Total Network Upgrade Cost Estimate	**$3,293,025**

Miscellaneous Cost Info	
CWIP (Y/N)	N
Non-Transmission Cost Amount ($)	

Expenditures Info	
Expenditures To Date ($)	
Contractually Binding Financial Commitments ($)	

Definitions
Project Estimate Stage
Conceptual
Study
CPE
NPE
Design_Construction
SCERT Type
Standard
Legacy
Project Status
Complete
Delay-Mitigation
In Service
On Schedule < 4
On Schedule > 4
Re-evaluation
Suspended
NTC-Commitment Window
NTC-C Project Estimate Window
RFP Response Window

dized Cost Estimate Reporting Template (SCERT)

	Estimate Creation Date	
	Estimate Request Date	
	RTO Determined Need Date	
	In-Service Date	
	Network Upgrade Start Date	
	Mitigation Plan	
	Network Upgrade Lead Time (Months)	25
ll from below fields	**Estimate Provider (Company)**	
	Point of Contact	

ew bay to the existing Nearman 161 breaker and a half bus

In Progress	Complete
☐	

Current Approved Line Assumptions		Segment 1
	Number of Circuits	
Line Length	New Line (Miles)	
	Reconductor (Miles)	
	Voltage Conversion (Miles)	
Termination Points	To BUS Name	
	To BUS Number	
	From BUS Name	
	From BUS Number	
	Type	
	Size (kcmil)	

Conductor	Voltage (kV)	
	Ampacity	
	Emergency Rating (MVA)	
	Number of Conductors per Phase	
Structure	Configuration	
	Foundation Type	
	Material	
	NESC Assumptions	
	Dead Ends (Qty)	
	Tangents (Qty)	
	Storm Structures (Qty)	
	Running Corners (Qty)	
	Underbuild (Y/N)	
Shield Wire	Number	
	Type	
	Size	
Right-of-Way	Width (ft)	
	Acquisition	
	Clearing Requirements	
Design Critera	Weather Loading	
	Live Line Maintenance	
	Unbalanced Structural Loads	
Permitting	Traffic Control Requirements	
	FAA Requirements	
Environmental	Study Requirements	
	Wetland Requirements/Mitigation	
	Threatened & Endangered Species Mitigation	
	Cultural/Historical Resource Requirements	
Type of Terrain		
Switch Requirements		
Legal Requirements		
Geotechnical Assumptions		
Special Material Requirements		
Preliminary Line Route (Rough location when practical)		
Access Road Requirements		
Distribution/Joint Use Requirements		

Station Assumptions		
		High Side
Voltage	(kV)	161
Location	BUS Name	NEARMAN5
	BUS Number	546653
Transformers	Quantity	0
	Rating (MVA)	

Breaker Scheme	Quantity	2
	Configuration	Breaker and a H
	Ampacity	3000
	Interrupting Capacity Rating (KA)	40
Wave Traps	Quantity	0
	Ampacity	
Switches	Quantity	7
	Ampacity	3000
Stand Alone CTs	Quantity	3
	Ampacity	2000
PTs	Quantity	3
	Voltage (kV)	92
CCVTs	Quantity	0
	Voltage (kV)	
Capacitors	Quantity	0
	Size (MVAR)	
Reactors	Quantity	0
	Size (MVAR)	
Control Panels	Quantity	4
	Voltage (kV)	
Environmental	Study Requirements	
	Wetland Requirements/Mitigation	
	Threatened and Endangered Species Mitigation	
	Cultural/Historical Resource Requirements	
	BIL Rating (kV Crest)	750
	Required Substation Property/Fence Expansions	KCBPU would n
	SCADA Requirements	
	Mobile Substation Requirements	
	Control Enclosure Expansions	
	Fiber Optic Requirements	Would require (
	Remote End Requirements	High voltage cir
	Metering Requirements	KCBPU to mete
	Contamination Requirements	
	Unusual Site Prep Requirements	

Segment 2

Station 1		Station 2		
Low Side	Tertiary	High Side	Low Side	Tertiary

Half				

eed to expand substation and fence to the East to accomade new bay

OPGW or an approved fiber communication routing to customer substa

cuit breaker on line side of GSU with line diffferential protective relays

r at Nearman5 terminal

Facilities Study For Southwest Power Pool (SPP)

Group 5
DISIS-2023-Network Upgrades

Xcel Energy Services, Inc.

Southwestern Public Service Co.
Transmission Planning South
Updated 3/12/2026

Executive Summary

The Southwest Power Pool (SPP or Transmission Provider [TP]) requested a Facility Study for certain Network Upgrades that were identified in the DISIS-2023-001 Phase 2 Restudy. The results were posted in December 2025.

This report is for the identified Network Upgrade – "Switch Out Carpenter Line Reactor."

SPP assigned UID 171463 to this project.

It is anticipated that the entire process of this project will require approximately 36 - 42 months to complete after an agreement is signed and an authorization to proceed is received. The estimated costs for the work needed for this project are shown below in Table 1.

Table 1: Cost Summary[1]

Switch Out Carpenter Line Reactor to Finney UID 171463	**$ 2,739,899**
Switch Out Carpenter Line Reactor to Hitchland UID 171463	**$ 2,002,275**
Total:	**$ 4,742,174**

[1] The cost estimates are 2026 dollars with an accuracy level of ±20%.

General Description of SPS[2] Facilities

1. **SPS Carpenter Substation**: See Appendix A, Figure A-1 for general vicinity location map of the SPS facility.

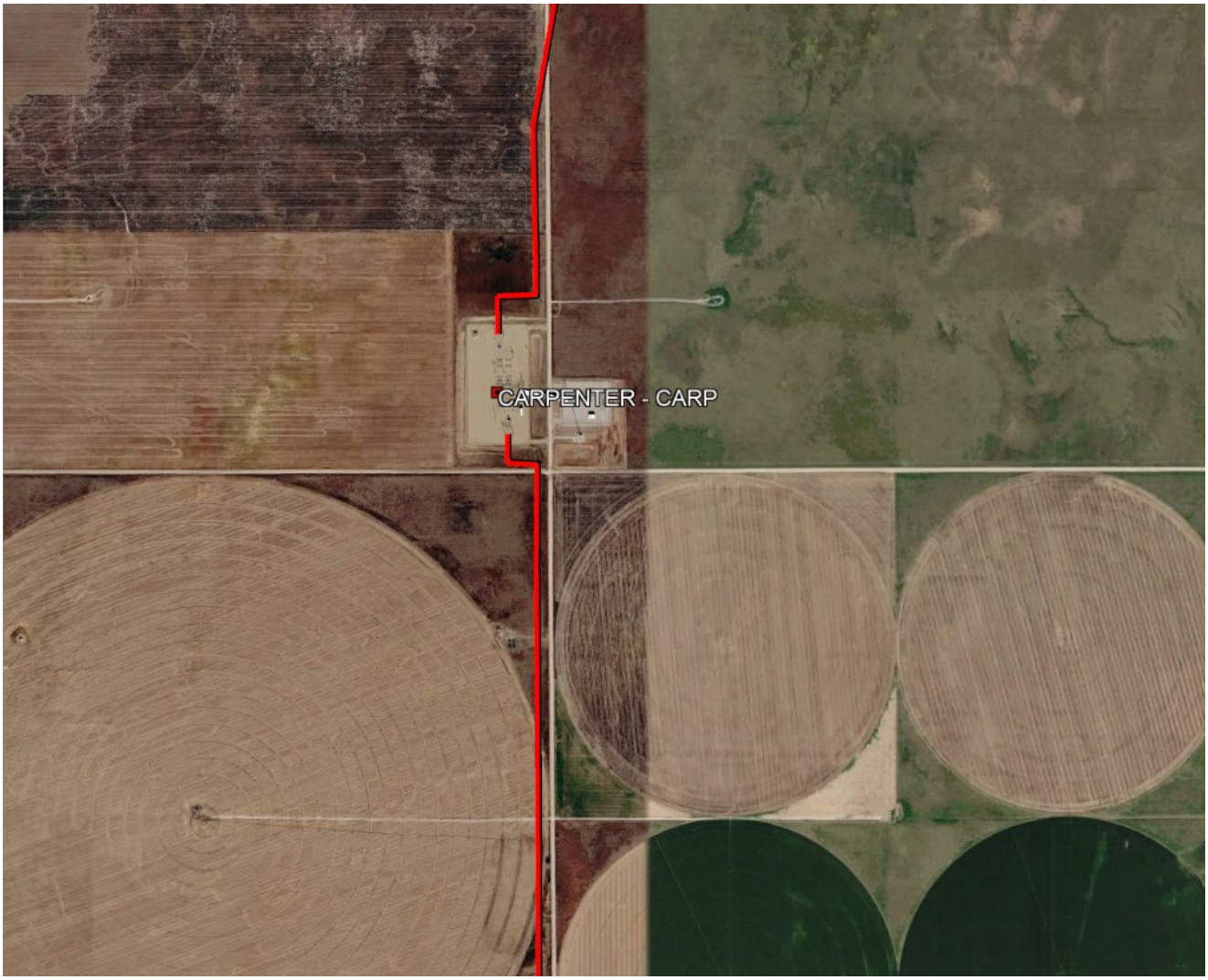
2. **Estimated Construction Costs and Schedule**
    a. **Schedule**: An engineering and construction schedule for this project is estimated at approximately 36 - 42 months. Other factors associated with clearances, equipment delays, and work schedules could cause additional delays. This is applicable after all required agreements are signed and internal approvals are granted.

    b. All additional costs for work not identified in this study are the sole responsibility of the IC unless other arrangements are made.

[2] All modifications to SPS facilities will be owned, maintained, and operated by SPS.

Appendix A

Figure A-1: General vicinity location map of the Carpenter Substation



SPS 345 kV transmission lines are shown in red.

– END OF REPORT –

Facilities Study For Southwest Power Pool (SPP)

Group 5
DISIS-2023-Network Upgrades

Xcel Energy Services, Inc.

Southwestern Public Service Co.
Transmission Planning South
Updated 3/12/2026

Executive Summary

The Southwest Power Pool (SPP or Transmission Provider [TP]) requested a Facility Study for certain Network Upgrades that were identified in the DISIS-2023-001 Phase 2 Restudy. The results were posted in December 2025.

This report is for the identified Network Upgrade – "Switch Out Finney Line Reactors."

SPP assigned UID 171464 to this project.

It is anticipated that the entire process of this project will require approximately 36 - 42 months to complete after an agreement is signed and an authorization to proceed is received. The estimated costs for the work needed for this project are shown below in Table 1.

Table 1: Cost Summary[1]

Switch Out Finney Line Reactor to Carpenter UID 171464	**$ 1,788,278**
Total:	**$ 1,788,278**

[1] The cost estimates are 2026 dollars with an accuracy level of ±20%.

General Description of SPS[2] Facilities

1. **SPS Finney Substation**: See Appendix A, Figure A-1 for general vicinity location map of the SPS facility.

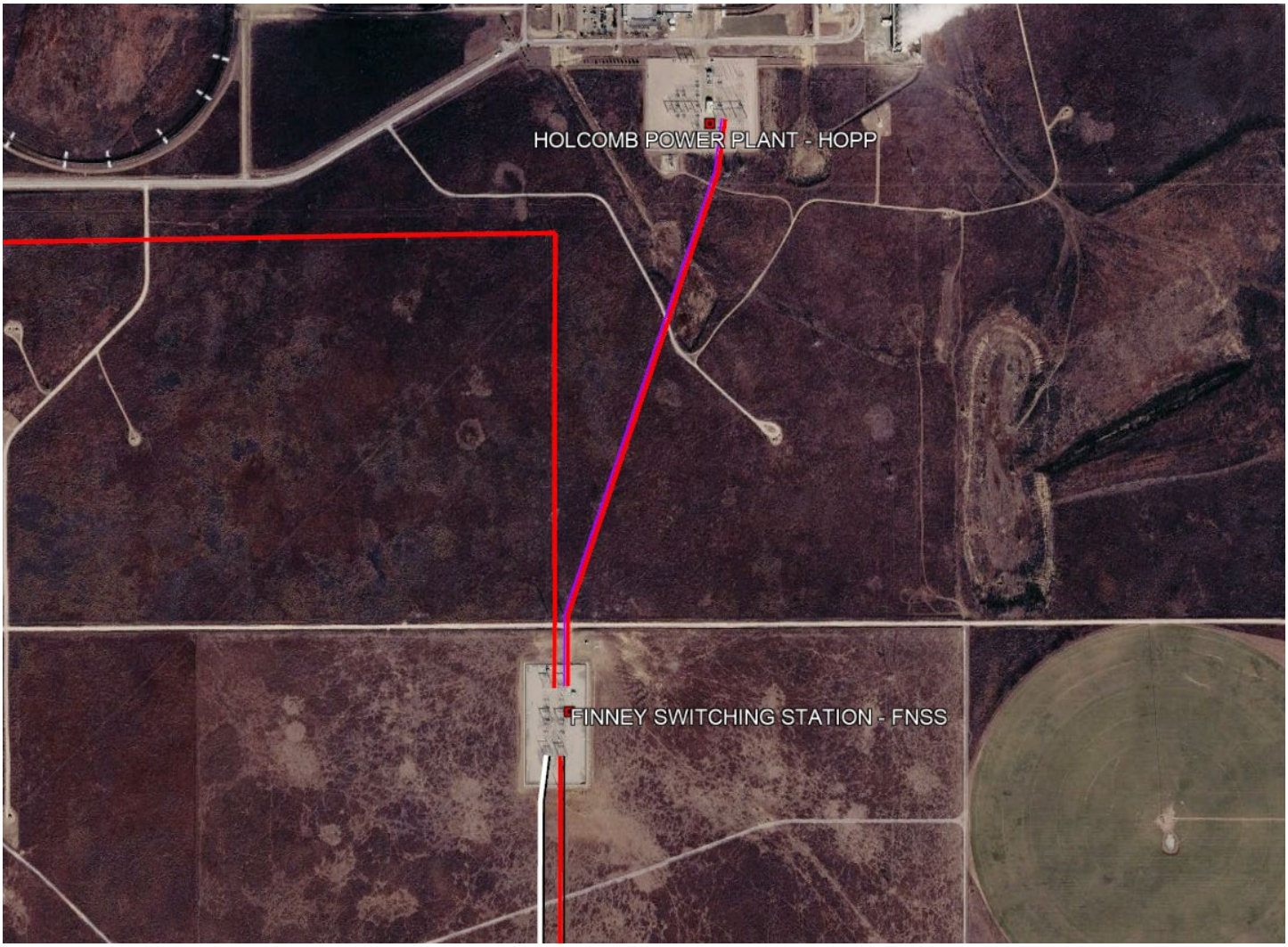
2. **Estimated Construction Costs and Schedule**
    a. **Schedule**: An engineering and construction schedule for this project is estimated at approximately 36 - 42 months. Other factors associated with clearances, equipment delays, and work schedules could cause additional delays. This is applicable after all required agreements are signed and internal approvals are granted.

    b. All additional costs for work not identified in this study are the sole responsibility of the IC unless other arrangements are made.

[2] All modifications to SPS facilities will be owned, maintained, and operated by SPS.

Appendix A

Figure A-1: General vicinity location map of the Finney Substation



SPS 345 kV transmission lines shown in red, earlier customer's gen-tie line shown in white.

– END OF REPORT –