



ERAS 2025-001

Incremental Long-Term Congestion Rights Study Report

ERAS-2025-028



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By SPP Generation Interconnections Dept.

REVISION HISTORY

DATE OR VERSION NUMBER	AUTHOR	CHANGE DESCRIPTION
06/08/2026	SPP	Initial Report

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INTRODUCTION

Incremental Long-Term Congestion Rights (ILTCRs) were made available by FERC 685 Guideline 3 as a reimbursement mechanism for sponsors of transmission upgrades. The guideline specifies that long-term firm transmission rights made feasible by transmission upgrades or expansions must be available upon request to any party that pays for such upgrades or expansions in accordance with the transmission organization's prevailing cost allocation methods for upgrades or expansions. Effective July 1, 2020, ILTCR is the default cost recovery mechanism for eligible Network Upgrades (NU) with Directly Assigned Upgrade Cost (DAUC) as a result of a Generation Interconnection Study (GIS), Aggregate Transmission Service Study (ATSS), or a Sponsored Upgrade Study in SPP.

The objective of the ILTCR analysis is to determine the incremental Available Transfer Capability (ATC) created on each of the Upgrade Sponsor submitted source-to-sink paths over a ten-year period resulting from the construction of the Network Upgrade. The Upgrade Sponsor may then have the option to use the results of this study to obtain candidate ILTCRs on the path selected.

The ILTCR study process was completed for ERAS-2025-028 (the Customer) that has Directly Assigned Upgrade Costs (DAUC) for the following network upgrades from ERAS 2025-001 Studies.

- COMANC7 TAP to LES 345 kV Line Rebuild (ERAS-2025-001)
- COMANC7 TAP to OKU 345 kV Line Rebuild (ERAS-2025-001)
- ELKCITY 230/138 kV Transformer Replacement (ERAS-2025-001)
- ELKCITY6 to CHISHOLM6 230 kV Line Rebuild (ERAS-2025-001)

STUDY INPUTS

MODEL BASIS

The 2025 ITP Transmission Services (TS) cases were the starting point for the analysis. The following details specify the particular models utilized for this evaluation.

- Model years 2029, 2034
 - Summer Peak (2029SP, 2034SP)
 - Winter Peak (2029WP, 2034WP)
 - Light Load (2029 LP, 2034LP)

MONITORED FACILITIES

The monitored elements include all SPP control area branches, ties, and buses 69 kV and above, and all first tier Non-SPP control area branches and ties 100 kV and above. NERC Power Transfer Distribution Flowgates for SPP and first tier Non-SPP control areas are monitored. Additional NERC Flowgates are monitored in second tier or greater Non-SPP control areas.

- All branches and ties within the following areas:
 - SPP Internal Areas for 60kV – 999kV facilities:
 - 506– 546, 640 – 659, 998, 999
 - SPP External Areas for 100kV – 999kV facilities:
 - 327, 330, 351, 356, 502, 600, 615, 620, 627, 635, 661, 680
- NERC, SPP, and Tier 1 Permanent Monitor Flowgates (thermal)

CONTINGENCY EVENTS

The contingency set includes all SPP control area branches and ties 69kV and above, first tier Non-SPP control area branches and ties 115 kV and above, any defined contingencies for these control areas, and generation unit outages for the SPP control areas with SPP reserve share program redispatch.

- All branches, ties, shunts, and generators within the following areas:
 - SPP Internal Areas for 60kV – 999kV facilities: o
 - 515 – 546, 640, 641, 642, 645, 650, 652, 659, 998, 999
 - SPP External Areas for 100kV – 999kV facilities:
 - 327, 330, 351, 356, 502, 600, 615, 620, 627, 635, 661, 680
- NERC, SPP, and Tier 1 Permanent Contingent Flowgates
- SPP T.O. Specific P1, P2, P4, and P5 TPL-005-1 Contingencies
- SPP T.O. Specific Op Guide Implementation

NETWORK UPGRADES

The Network Upgrades were sorted based on construction lead-time in order to reflect the sequence of in-service dates for the upgrades. Each Network Upgrade was evaluated sequentially and as a standalone addition. Sequentially, the first Network Upgrade was evaluated in comparison to the TS Case. The second Network Upgrade was evaluated on top of the previously added Network Upgrade. The process was repeated until all Network Upgrades were evaluated. Network

Upgrades that share the same construction lead-time were evaluated as incremental upgrades to the final set of Network Upgrades with the same lead-times. The studied Network Upgrades and associated lead time for the Customer is listed in Table 1.

Table 1: Network Upgrades

Upgrade ID	Upgrade Name	Estimated Lead-Time (months)
172047	COMANC7 TAP to LES 345 kV Line Rebuild	36
172048	COMANC7 TAP to OKU 345 kV Line Rebuild	36
172056	ELKCITY 230/138 kV Transformer Replacement	36
172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	36

CONTINGENT UPGRADES

Contingent upgrades are not yet in-service. These facilities have been assigned to higher queued interconnection customers. These facilities were included in the models respective of their estimated lead-time for this study prior to determining the incremental transfer amount that each Network Upgrade provided. The list of contingent upgrades and their associated lead-time for the participating Customers is listed in Table 2

Table 2: Contingent Upgrade Sequence

Upgrade ID	Upgrade Name	Estimated Lead-Time (months)
NTC - 220965	Dunjee-Reno 138 kV Ckt 1 Rebuild	36
NTC - 220965	Trosper-Reno 138 kV Ckt 1 Rebuild	36
NTC	Multi - Horseshoe Lake Reconfiguration	36
NTC - 220994	Line - Crawfish Draw - Phantom 765 kV New Line (2025 ITP)	36
UID - 170597	Build New Andrews to Road Runner 345 kV Line	36
NTC - 210485	Cleveland Jct - Anadarko 138 kV Ckt 1 Voltage Conversion	36
NTC - 220941	Line - Holcomb - Sidney 345 kV Ckt 1 New Line	54
NTC - 220812	Potter to Beckham 345 kV Line (2024 ITP)	36
NTC - 220808	Evans Energy Center North - Maize 138 kV Ckt 1 Rebuild	30
NTC - 220751	Ellsworth Tap - Great Bend 115 kV Ckt 1 Structure Upgrade	12
NTC - 210715	Fargo 230 kV Terminal Upgrade	6

CUSTOMER TRANSFER PATHS

The Customer is eligible to select up to three (3) source-to-sink transfer paths per Network Upgrade. The list of valid source-to-sink paths is posted on the SPP OASIS site under Source/Sink Summary and were available to Customers with a valid OASIS certificate.

Customers may select paths for ILTCR studies using their new generator that was studied as a source. The generator must be registered in the Marketplace before it is able to participate in the Congestion Hedging process.

Each source-to-sink transfer path was collected by SPP for the Customer and those submissions are captured in the Results section.

STUDY METHODOLOGY

TRANSFER ANALYSIS

A DC transfer analysis was conducted using PowerGEM TARA to determine the limiting flowgates in each applicable case for the respective transfer paths provided by the Customer. Constraints were defined as any overloaded facility in which the transfer had three (3) percent or more TDF or OTDF impact for system intact or contingency conditions respectively. AC Contingency Analysis was performed on each case to identify existing overloaded flowgates that were not caused by the Customer, Network Upgrade, or the source-to-sink transfer path. These flowgates were filtered out of the transfer analysis results for the respective case in which they were reported in the AC Contingency Analysis.

Once the initial DC limiting flowgates were filtered to valid results, the top five (5) limiting flowgates in each applicable case for the respective transfer paths provided by the Customer were AC verified. If the AC verified results reported a non-converged condition and all other AC verified transfers were not zero, then the AC non-converged condition was reviewed for appropriate adjustments until an AC transfer limit was established. If no adjustments were found to resolve the AC non-converged condition, then the AC transfer limit was reported as 0 MW to reflect the condition in which no transfer could be achieved.

With the transfer limits AC verified, the deltas between the minimum AC transfer amounts across all analyzed cases for each path with and without the associated Network Upgrade were determined as follows:

- If $ATC_{pre-NU} < 0$ and $ATC_{post-NU} < 0$, then individual increment = 0
- If $ATC_{pre-NU} < 0$ and $ATC_{post-NU} > 0$, then individual increment = $ATC_{post-NU}$
- If $ATC_{pre-NU} > 0$ and $ATC_{post-NU} > 0$, then individual increment = $ATC_{post-NU} - ATC_{pre-NU}$

If the Network Upgrade costs were shared between multiple Customers, then the minimum delta was allocated to each participating Customer in the same proportion as the pro-rata share of the total cost of the upgrade allocated. The lowest amount of candidate MWs that can be awarded is 0.1 MW. Therefore, any candidate MWs below 0.1 MWs is reported as 0.0 MWs.

ILTCR STUDY RESULTS

Table 3 summarizes the minimum incremental ATC created across all seasons for each of the source-to-sink paths provided by the Customer for the Network Upgrades.

Appendix A includes the detailed results of the top five (5) most limiting flowgates for each transfer path as submitted by the Customer.

Table 3: ERAS-2025-028 Candidate ILTCRs

NU #	NU	Source	Sink	Min Delta (MW)	Cost Allocation (%)	cILTCR (MW)
172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.NICHOLS3	SPS	0	18.72%	0
172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.SPIN_SPUR	SPS	0	18.72%	0
172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.TOLK1	SPS	0	18.72%	0
172048	COMANC7 TAP to OKU 345 kV Line Rebuild	LAM345	SPS	0	18.72%	0
172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BLACKHAWK1	SPS	0	18.72%	0
172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BONITA.LRZ	SPS	0	18.72%	0
172056	ELKCITY 230/138 kV Transformer Replacement	SPS.MAMMOTHWND	SPS	0	16.67%	0
172056	ELKCITY 230/138 kV Transformer Replacement	SPS.PLNTX1.SLR	SPS	0	16.67%	0
172056	ELKCITY 230/138 kV Transformer Replacement	SPS.TOLK1	SPS	0	16.67%	0
172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.JONES2	SPS	0	16.67%	0
172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.NICHOLS2	SPS	0.1	16.67%	0
172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.PALODURWND	SPS	0.2	16.67%	0

CONCLUSION

The ILTCR analysis determined the incremental ATC created on the Customer submitted source-to-sink paths as provided by the associated Network Upgrade. The Customer may choose the one source-to-sink path in which to receive candidate ILTCRs based on the ATC results presented. If a source-to-sink path that reported no incremental ATC (0 MW) is chosen, then the Customer will not receive any candidate ILTCRs for the Network Upgrade. This data will be included in the applicable agreement(s) and executed before filing with FERC.

The Customer must notify SPP 45 days in advance of energization of the associated Network Upgrade via RMS ticket. Tracking of the Network Upgrade progress can be achieved by utilizing the SPP Quarterly Project Tracking workbooks posted on the SPP website. Once the Network Upgrade is energized, SPP will make available TCR MWs for the candidate ILTCR until the end of that TCR year in the next feasible monthly TCR auction.

APPENDIX A

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.NICHOLS3	SPS	1	29SP0	524043 NICHOLS 3 115 524007 ROLLHILLS 3 115 1	P21:115:SPS:V03_B:::	8.8	8.8	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.NICHOLS3	SPS	2	34LP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P21:345:SPS:J06:::	14.3	14.3	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.NICHOLS3	SPS	3	34LP0	523959 POTTER_CO 6 230 997114 UPDATE LATER 230 2	P21:345:SPS:J06:::	14.3	14.3	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.NICHOLS3	SPS	4	34SP0	524058 WHITAKER 3 115 524138 CENTERPORT 3 115 1	P21:115:SPS:W45:::	29.5	29.5	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.NICHOLS3	SPS	5	29SP0	524043 NICHOLS 3 115 524058 WHITAKER 3 115 1	P21:115:SPS:W45:::	37.3	37.3	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.SPIN_SPUR	SPS	1	29WP0	996976 SPX WT03218 115 527966 KIOWA 3 115 1	527963 POTASH_JCT 6 230 3WXFMR SIEM00129601 1	66.7	66.7	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.SPIN_SPUR	SPS	2	34LP0	528223 CHINA_DRAW 7 345 996962 HYO1063400-2 115 1	P12:115:SPS:U27.1.NLVNG.MLGBND:::	131.6	131.7	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.SPIN_SPUR	SPS	3	29WP0	527965 KIOWA 7 345 996976 SPX WT03218 115 1	527865 CUNNIGHM_N 6 230 527867 CUNNIGHM_S 6 230 *1	159.8	159.8	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.SPIN_SPUR	SPS	4	34SP0	524163 EAST_PLANT 6 230 997098 WH ALM21481 115 1	P21:115:SPS:V03_A:::	243.6	243.7	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.SPIN_SPUR	SPS	5	34LP0	996962 HYO1063400-2 115 528222 CHINA_DRAW 3 115 1	P12:115:SPS:U27.1.NLVNG.MLGBND:::	491.8	491.8	0

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.TOLK1	SPS	1	34LP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P21:345:SPS:J15:::	61.7	61.7	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.TOLK1	SPS	2	34LP0	523959 POTTER_CO 6 230 997114 UPDATE LATER 230 2	P12:345:SPS:J15:1:TOLK_CROSSROADS__:EHV:	61.7	61.7	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.TOLK1	SPS	3	29WP0	996976 SPX WT03218 115 527966 KIOWA 3 115 1	527963 POTASH_JCT 6 230 3W XFMR SIEM00129601 1	74.6	74.6	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.TOLK1	SPS	4	29SP0	525531 TOLK 6 230 997063 ABB XNL8445- 230 2	525549 TOLK 7 345 3W XFMR ABBXNL844501 1	166.2	166.1	0
ERAS-2025-028	172047	COMANC7 TAP to LES 345 kV Line Rebuild	SPS.TOLK1	SPS	5	29WP0	527965 KIOWA 7 345 996976 SPX WT03218 115 1	527865 CUNNIGHM_N 6 230 527867 CUNNIGHM_S 6 230 *1	185.3	185.3	0
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	LAM345	SPS	1	34SP0	531510 HARBNGR3 115 531405 WALKMYR3 115 1	P23:345:SUNC:HLC_BRK188::EHV:	28.6	28.7	0
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	LAM345	SPS	2	34LP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P12:345:SPS:J06_1:HITCHLAND:POTTERCO::	46.5	46.4	0
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	LAM345	SPS	3	34LP0	523959 POTTER_CO 6 230 997114 UPDATE LATER 230 2	P12:345:SPS:J06_1:HITCHLAND:POTTERCO::	46.5	46.4	0
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	LAM345	SPS	4	29WP0	996976 SPX WT03218 115 527966 KIOWA 3 115 1	527963 POTASH_JCT 6 230 3W XFMR SIEM00129601 1	69.2	69.1	0
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	LAM345	SPS	5	29WP0	527965 KIOWA 7 345 996976 SPX WT03218 115 1	527865 CUNNIGHM_N 6 230 527867 CUNNIGHM_S 6 230 *1	164.9	164.9	0
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BLACKHAWK1	SPS	1	34LP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P21:345:SPS:J06:::	15.4	15.3	0

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BLACKHAWK1	SPS	2	34LP0	523959 POTTER_CO 6 230 997114 UPDATE LATER 230 2	P21:345:SPS:j06:::	15.4	15.3	0
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BLACKHAWK1	SPS	3	29LP0	523977 HARRNG_WST 6 230 524010 ROLLHILLS 6 230 1	Base Case	22.7	22.7	0
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BLACKHAWK1	SPS	4	29SP0	524043 NICHOLS 3 115 524007 ROLLHILLS 3 115 1	P12:230:SPS:K86_1:HARRNGWST:ROLLHILLS::	23.4	24	0.6
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BLACKHAWK1	SPS	5	29SP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	527000 GAINES_PLNT7 345 527020 SIDEWINDER 7 345 1	52.6	53	0.4
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BONITA.LRZ	SPS	1	29WP0	526269 LUBBCK_STH 6 230 526525 WOLFFORTH 6 230 1	P21:230:SPS:K07:::	31.5	31.5	0
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BONITA.LRZ	SPS	2	34WP0	526269 LUBBCK_STH 6 230 526525 WOLFFORTH 6 230 1	P12:230:SPS:K07:1:TUCOINT_JONES__:HV:	33.3	33.2	0
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BONITA.LRZ	SPS	3	34LP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P21:345:SPS:j15:::	70.7	71.4	0.7
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BONITA.LRZ	SPS	4	34LP0	523959 POTTER_CO 6 230 997114 UPDATE LATER 230 2	P12:345:SPS:j15:1:TOLK_CROSSROADS__:EHV:	70.7	71.4	0.7
ERAS-2025-028	172048	COMANC7 TAP to OKU 345 kV Line Rebuild	SPS.BONITA.LRZ	SPS	5	34SP0	525803 BLANCO 3 115 525780 FLOYD_CNTY 3 115 1	P21:230:SPS:K10:::	71.8	71.8	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.MAMMOTHWND	SPS	1	34LP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P21:345:SPS:j06:::	60.6	60.6	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.MAMMOTHWND	SPS	2	34LP0	523959 POTTER_CO 6 230 997114	P12:345:SPS:j06_1:HITCHLAND:POTTERCO::	60.6	60.6	0

Southwest Power Pool, Inc.

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
							UPDATE LATER 230 2				
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.MAMMOTHWND	SPS	3	29WP0	996976 SPX WT03218 115 527966 KIOWA 3 115 1	527963 POTASH_JCT 6 230 3WXFMR SIEM00129601 1	69.4	69.4	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.MAMMOTHWND	SPS	4	34LP0	528223 CHINA_DRAW 7 345 996962 HYO1063400-2 115 1	P12:115:SPS:U27.1.NLVNG.MLGBND:::HV:	127.5	127.5	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.MAMMOTHWND	SPS	5	29WP0	527965 KIOWA 7 345 996976 SPX WT03218 115 1	527865 CUNNIGHM_N 6 230 527867 CUNNIGHM_S 6 230 *1	165.5	165.5	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.PLNTX1.SLR	SPS	1	34LP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P21:345:SPS:J15:::	49.5	49.5	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.PLNTX1.SLR	SPS	2	34LP0	523959 POTTER_CO 6 230 997114 UPDATE LATER 230 2	P12:345:SPS:J15:1:TOLK_CROSSROADS__:EHV:	49.5	49.5	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.PLNTX1.SLR	SPS	3	29WP0	996976 SPX WT03218 115 527966 KIOWA 3 115 1	527963 POTASH_JCT 6 230 3WXFMR SIEM00129601 1	75	75	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.PLNTX1.SLR	SPS	4	29SP0	525019 MULSHVLY_TP3 115 525028 BAILEYCO 3 115 1	P21:230:SPS:K18:::	103.5	103.5	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.PLNTX1.SLR	SPS	5	29WP0	527965 KIOWA 7 345 996976 SPX WT03218 115 1	527865 CUNNIGHM_N 6 230 527867 CUNNIGHM_S 6 230 *1	184.6	184.6	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.TOLK1	SPS	1	34LP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P21:345:SPS:J15:::	61.7	61.7	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.TOLK1	SPS	2	34LP0	523959 POTTER_CO 6 230 997114 UPDATE LATER 230 2	P12:345:SPS:J15:1:TOLK_CROSSROADS__:EHV:	61.7	61.7	0

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.TOLK1	SPS	3	29WP0	996976 SPX WT03218 115 527966 KIOWA 3 115 1	527963 POTASH_JCT 6 230 3W XFMR SIEM00129601 1	74.6	74.6	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.TOLK1	SPS	4	29SP0	525531 TOLK 6 230 997063 ABB XNL8445- 230 2	525549 TOLK 7 345 3W XFMR ABBXNL844501 1	166.1	166.1	0
ERAS-2025-028	172056	ELKCITY 230/138 kV Transformer Replacement	SPS.TOLK1	SPS	5	29WP0	527965 KIOWA 7 345 996976 SPX WT03218 115 1	527865 CUNNIGHM_N 6 230 527867 CUNNIGHM_S 6 230 *1	185.3	185.3	0
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.JONES2	SPS	1	29WP0	526269 LUBBCK_STH 6 230 526525 WOLFFORTH 6 230 1	P21:230:SPS:K07:::	11.2	11.2	0
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.JONES2	SPS	2	34WP0	526269 LUBBCK_STH 6 230 526525 WOLFFORTH 6 230 1	P21:230:SPS:K07:::	11.8	11.8	0
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.JONES2	SPS	3	29SP0	526269 LUBBCK_STH 6 230 526525 WOLFFORTH 6 230 1	P12:230:SPS:K07:1:TUPOINT_JONES__:HV:	61	61	0
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.JONES2	SPS	4	29WP0	996976 SPX WT03218 115 527966 KIOWA 3 115 1	527963 POTASH_JCT 6 230 3W XFMR SIEM00129601 1	77.4	77.4	0
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.JONES2	SPS	5	34WP0	526337 JONES 6 230 526269 LUBBCK_STH 6 230 2	P12:230:SPS:K08_1:LUBBCKSTH:JONES::	112.4	112.4	0
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.NICHOLS2	SPS	1	29SP0	524043 NICHOLS 3 115 524007 ROLLHILLS 3 115 1	P21:115:SPS:V03_B:::	8.7	8.8	0.1
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.NICHOLS2	SPS	2	34LP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P21:345:SPS:J06:::	14.2	14.3	0.1
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.NICHOLS2	SPS	3	34LP0	523959 POTTER_CO 6 230 997114 UPDATE LATER 230 2	P21:345:SPS:J06:::	14.2	14.3	0.1

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.NICHOLS2	SPS	4	34SP0	524058 WHITAKER 3 115 524138 CENTERPORT 3 115 1	P21:115:SPS:W45:::	29.5	29.5	0
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.NICHOLS2	SPS	5	29SP0	524043 NICHOLS 3 115 524058 WHITAKER 3 115 1	P21:115:SPS:W45:::	37.2	37.3	0
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.PALODURWND	SPS	1	34LP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P21:345:SPS:J06:::	36.1	36.3	0.2
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.PALODURWND	SPS	2	34LP0	523959 POTTER_CO 6 230 997114 UPDATE LATER 230 2	P12:345:SPS:J06_1:HITCHLAND:POTTERCO::	36.1	36.3	0.2
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.PALODURWND	SPS	3	29WP0	996976 SPX WT03218 115 527966 KIOWA 3 115 1	527963 POTASH_JCT 6 230 3W XFMR SIEM00129601 1	68.7	68.7	0
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.PALODURWND	SPS	4	29WP0	527965 KIOWA 7 345 996976 SPX WT03218 115 1	527865 CUNNIGHM_N 6 230 527867 CUNNIGHM_S 6 230 *1	164	164.1	0
ERAS-2025-028	172057	ELKCITY6 to CHISHOLM6 230 kV Line Rebuild	SPS.PALODURWND	SPS	5	29SP0	523959 POTTER_CO 6 230 997113 WAUK 90343-A 230 1	P12:345:SPS:J06_1:HITCHLAND:POTTERCO::	193.6	193.8	0.2