



ERAS 2025-001

Incremental Long-Term Congestion Rights Study Report

ERAS-2025-024

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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-2025-024 (the Customer) that has Directly Assigned Upgrade Costs (DAUC) for the following network upgrades from ERAS 2025-001 Studies.

- Comanche 345 kV New Substation (ERAS-2025-001)
- Comanche Tap-New Comanche 345 kV Ckt 1 New Line (ERAS-2025-001)
- Comanche-Comanche Tap 138 kV Ckt 1 Rebuild (ERAS-2025-001)
- Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild (ERAS-2025-001)
- Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild (ERAS-2025-001)
- Duncan-OmDuncan 138 kV Ckt 1 Rebuild (ERAS-2025-001)
- Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild (ERAS-2025-001)
- Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers (ERAS-2025-001)
- LACYGNE7-G20-007-TAP 345 kV Ckt 1 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)
172049	Comanche 345 kV New Substation	36
172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	36
172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	36
172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	36
172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	36
170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	36
172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	36
172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	36
172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 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-2025-024 Candidate ILTCRs

NU #	NU	Source	Sink	Min Delta (MW)	Cost Allocation (%)	cILTCR (MW)
172049	Comanche 345 kV New Substation	CSWCOMANCHE1	CSWS	0	100.00%	0
172049	Comanche 345 kV New Substation	CSWS.DVWIND	CSWS	0	100.00%	0
172049	Comanche 345 kV New Substation	CSWS.TNSK.CADO	CSWS	0	100.00%	0
172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWCOMANCHE1	CSWS	0.1	100.00%	0.1
172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.DVWIND	CSWS	68.6	100.00%	68.6
172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.TNSK.CADO	CSWS	0	100.00%	0
172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	0	100.00%	0
172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	0	100.00%	0
172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	0	100.00%	0
172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	2.4	52.31%	1.3
172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	0.9	52.31%	0.5
172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	0.1	52.31%	0.1
172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	0	100.00%	0
172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	0	100.00%	0
172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	0	100.00%	0
170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	0.2	52.31%	0.1
170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	0	52.31%	0
170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	0	52.31%	0
172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	0	100.00%	0

NU #	NU	Source	Sink	Min Delta (MW)	Cost Allocation (%)	cILTCR (MW)
172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	0	100.00%	0
172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	0	100.00%	0
172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	BLUECANYON5	CSWS	0	100.00%	0
172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWCOMANCHE1	CSWS	0.1	100.00%	0.1
172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWS.TNSK.CADO	CSWS	1.1	100.00%	1.1
172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	0	4.32%	0
172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	OKGE.SUEZ.KPLN	CSWS	0	4.32%	0
172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	WTHW.WTHW	CSWS	0	4.32%	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-2025-024	172049	Comanche 345 kV New Substation	CSWCOMANCHE1	CSWS	1	29SP0	511436 COMANC-2 69.0 511466 L.E.S.-2 69.0 1	P12:69:AEPW-OMPA:COMANC-2:OMWALTR2:::	2.8	2.8	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWCOMANCHE1	CSWS	2	34SP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	3.9	3.9	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWCOMANCHE1	CSWS	3	34WP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	5.6	5.6	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWCOMANCHE1	CSWS	4	34SP0	511436 COMANC-2 69.0 511524 L-DISTP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	6.4	6.4	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWCOMANCHE1	CSWS	5	29SP0	511524 L-DISTP2 69.0 511526 L-RLITP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	11.4	11.4	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWS.DVWIND	CSWS	1	29WP0	511494 COMMTAP4 138 511467 L.E.S.-4 138 1	500001 COMMANC7 TAP 345 511607 O.K.U.3-7 345 1	751.4	751.4	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWS.DVWIND	CSWS	2	34SP0	511494 COMMTAP4 138 511467 L.E.S.-4 138 1	511456 O.K.U.-7 345 511607 O.K.U.3-7 345 Z1	767.9	767.9	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWS.DVWIND	CSWS	3	29WP0	511437 COMANC-4 138 511467 L.E.S.-4 138 1	511456 O.K.U.-7 345 511607 O.K.U.3-7 345 Z1	876.4	876.4	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWS.DVWIND	CSWS	4	29WP0	511437 COMANC-4 138 511494 COMMTAP4 138 1	511456 O.K.U.-7 345 511607 O.K.U.3-7 345 Z1	878.5	878.5	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWS.DVWIND	CSWS	5	34LP0	511494 COMMTAP4 138 511467 L.E.S.-4 138 1	P23:345:AEPW:TERRYRD_CB_3417A_NBT B:::	889.9	889.9	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWS.TNSK.CADO	CSWS	1	29SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	265.8	265.8	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWS.TNSK.CADO	CSWS	2	34SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	266.1	266.1	0

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWS.TNSK.CADO	CSWS	3	29WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWS.TNSK.CADO	CSWS	4	34WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.9	267.9	0
ERAS-2025-024	172049	Comanche 345 kV New Substation	CSWS.TNSK.CADO	CSWS	5	34LP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	268.6	268.6	0
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWCOMANCHE1	CSWS	1	29SP0	511436 COMANC-2 69.0 511466 L.E.S.-2 69.0 1	P12:69:AEPW-OMPA:COMANC-2:OMWALTR2:::	2.8	2.9	0.1
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWCOMANCHE1	CSWS	2	34SP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	3.9	3.9	0
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWCOMANCHE1	CSWS	3	34WP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	5.6	5.6	0
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWCOMANCHE1	CSWS	4	34SP0	511436 COMANC-2 69.0 511524 L-DISTP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	6.4	6.4	0
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWCOMANCHE1	CSWS	5	29SP0	511524 L-DISTP2 69.0 511526 L-RLITP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	11.4	11.3	0
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.DVWIND	CSWS	1	34SP0	Non-Converged ¹	500001 COMMANC7 TAP 345 511607 O.K.U.3-7 345 1	751.4	820	68.6
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.DVWIND	CSWS	2	29WP0	Non-Converged ¹	511456 O.K.U.-7 345 511607 O.K.U.3-7 345 Z1	767.9	870	102.1
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.DVWIND	CSWS	3	34LP0	Non-Converged ¹	511456 O.K.U.-7 345 511607 O.K.U.3-7 345 Z1	876.4	930	53.6
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.DVWIND	CSWS	4	34WP0	Non-Converged ¹	511456 O.K.U.-7 345 511607 O.K.U.3-7 345 Z1	878.5	930	51.5

¹ Upgrade FCITC reported at the highest solved transfer level before non-convergence was observed.

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.DVWIND	CSWS	5	34SP0	511453 DUNCAN-4 138 511552 DUNCHERTP4 138 1	P23:345:AEPW:TERRYRD_CB_3417A_NBT B:::	889.9	1318.1	428.2
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.TNSK.CADO	CSWS	1	29SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	265.8	265.8	0
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.TNSK.CADO	CSWS	2	34SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	266.1	266.1	0
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.TNSK.CADO	CSWS	3	29WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.TNSK.CADO	CSWS	4	34WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.9	267.8	0
ERAS-2025-024	172051	Comanche Tap-New Comanche 345 kV Ckt 1 New Line	CSWS.TNSK.CADO	CSWS	5	34LP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	268.6	268.6	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	1	34SP0	511434 WALTRS-2 69.0 521086 WALTERS2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	80	80	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	2	29LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRKO_CHRYRD::::	94.9	94.9	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	3	34LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRKO_CHRYRD::::	95.2	95.2	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	4	29LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD::::	96.1	96.1	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	5	34LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD::::	96.4	96.4	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	1	29SP0	511436 COMANC-2 69.0 511466 L.E.S.-2 69.0 1	P12:69:AEPW-OMPA:COMANC- 2:OMWALTR2:::	2.9	2.9	0
ERAS-2025-024	172053	Comanche-Comanche Tap	CSWCOMANCHE1	CSWS	2	34SP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	3.9	3.9	0

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
		138 kV Ckt 1 Rebuild									
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	3	34WP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	5.6	5.6	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	4	34SP0	511436 COMANC-2 69.0 511524 L-DISTP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	6.4	6.4	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	5	29SP0	511524 L-DISTP2 69.0 511526 L-RLTP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	11.3	11.3	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	1	29SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	265.8	265.8	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	2	34SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	266.1	266.1	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	3	29WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	4	34WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0
ERAS-2025-024	172053	Comanche-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	5	34LP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	268.6	268.6	0
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	1	34SP0	511434 WALTRS-2 69.0 521086 WALTERS2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	77.6	80	2.4
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	2	29LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRKO_CHRYRD:::	94.9	94.9	0
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	3	34LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRKO_CHRYRD:::	95.2	95.2	0
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	4	29LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD:::	96.1	96.1	0

Southwest Power Pool, Inc.

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	5	34LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD:::	96.4	96.4	0
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	1	29SP0	511436 COMANC-2 69.0 511466 L.E.S.-2 69.0 1	P12:69:AEPW-OMPA:COMANC-2:OMWALTR2:::	2	2.9	0.9
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	2	34SP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	4	3.9	0
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	3	34WP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	5.6	5.6	0
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	4	34SP0	511436 COMANC-2 69.0 511524 L-DISTP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	6.4	6.4	0
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	5	29SP0	511524 L-DISTP2 69.0 511526 L-RLITP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	10.1	11.3	1.2
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	1	29SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	265.7	265.8	0.1
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	2	34SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	265.9	266.1	0.2
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	3	29WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.7	267.8	0.1
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	4	34WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.7	267.8	0.1
ERAS-2025-024	172052	Comanche Tap-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	5	34LP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	268.5	268.6	0.1
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	1	34SP0	511434 WALTRS-2 69.0 521086 WALTERS2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	80.1	80	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	2	29LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRKO_CHRYRD:::	94.9	94.9	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	3	34LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRKO_CHRYRD:::	95.2	95.2	0

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	4	29LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD:::	96.1	96.1	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	5	34LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD:::	96.4	96.4	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	1	29SP0	511436 COMANC-2 69.0 511466 L.E.S.-2 69.0 1	P12:69:AEPW-OMPA:COMANC- 2:OMWALTR2:::	2.9	2.9	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	2	34SP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	3.9	3.9	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	3	34WP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	5.6	5.6	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	4	34SP0	511436 COMANC-2 69.0 511524 L-DISTP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	6.4	6.4	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	5	29SP0	511524 L-DISTP2 69.0 511526 L-RLITP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	11.3	11.3	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	1	29SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	265.8	265.8	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	2	34SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	266.1	266.1	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	3	29WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	4	34WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0
ERAS-2025-024	172054	Comanche-Lawton Eastside 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	5	34LP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	268.6	268.6	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	1	34SP0	511434 WALTRS-2 69.0 521086 WALTERS2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	79.8	80	0.2

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	2	29LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRK0_CHRYRD:::	94.9	94.9	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	3	34LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRK0_CHRYRD:::	95.2	95.2	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	4	29LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD:::	96.1	96.1	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	5	34LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD:::	96.4	96.4	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	1	29SP0	511436 COMANC-2 69.0 520814 L.E.S.-2 69.0 1	P12:69:AEPW-OMPA:COMANC- 2:OMWALTR2:::	2.9	2.9	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	2	34SP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	3.9	3.9	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	3	34WP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	5.6	5.6	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	4	34SP0	511436 COMANC-2 69.0 511524 L-DISTP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	6.4	6.4	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	5	29SP0	511524 L-DISTP2 69.0 511526 L-RLTTP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	10.4	11.3	0.9
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	1	29SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	265.8	265.8	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	2	34SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	266	266.1	0.1
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	3	29WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.7	267.8	0.1
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	4	34WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0
ERAS-2025-024	170578	Duncan-OmDuncan 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	5	34LP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	268.5	268.6	0.1

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	1	34SP0	511434 WALTRS-2 69.0 521086 WALTERS2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	80	80	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	2	29LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRKO_CHRYRD:::	94.9	94.9	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	3	34LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRKO_CHRYRD:::	95.2	95.2	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	4	29LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD:::	96.1	96.1	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	BLUECANYON5	CSWS	5	34LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD:::	96.4	96.4	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	1	29SP0	511436 COMANC-2 69.0 511466 L.E.S.-2 69.0 1	P12:69:AEPW:OMPA:COMANC-2:OMWALTR2:::	2.9	2.9	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	2	34SP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	3.9	3.9	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	3	34WP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	5.6	5.6	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	4	34SP0	511436 COMANC-2 69.0 511524 L-DISTP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	6.4	6.4	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWCOMANCHE1	CSWS	5	29SP0	511524 L-DISTP2 69.0 511526 L-RLITP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	11.3	11.3	0

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	1	29SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	265.8	265.8	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	2	34SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	266.1	266.1	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	3	29WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	4	34WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0
ERAS-2025-024	172060	Lawton Eastside-Comanche Tap 138 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	5	34LP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	268.6	268.6	0
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	BLUECANYON5	CSWS	1	34SP0	511434 WALTRS-2 69.0 521086 WALTERS2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	84	80	0
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	BLUECANYON5	CSWS	2	29LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRKO_CHRYRD:::	94.7	94.9	0.2
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	BLUECANYON5	CSWS	3	34LP0	521129 CHERRYRD 4 138 521024 PARADSE4 138 1	P12:138:WFEC:ANADRKO_CHRYRD:::	95	95.2	0.2
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	BLUECANYON5	CSWS	4	29LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD:::	96.1	96.1	0
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	BLUECANYON5	CSWS	5	34LP0	521129 CHERRYRD 4 138 520814 ANADARK4 138 1	P12:138:WFEC:CHERRYRD_SNYDR_GRAN DFLD:::	96.4	96.4	0
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWCOMANCHE1	CSWS	1	29SP0	511436 COMANC-2 69.0 511466 L.E.S.-2 69.0 1	P12:69:AEPW-OMPA:COMANC-2:OMWALTR2:::	2.8	2.9	0.1

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWCOMANCHE1	CSWS	2	34SP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	3.9	3.9	0
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWCOMANCHE1	CSWS	3	34WP0	529311 OMWALTR2 69.0 511434 WALTRS-2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	5.6	5.6	0
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWCOMANCHE1	CSWS	4	34SP0	511436 COMANC-2 69.0 511524 L-DISTP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	6.4	6.4	0
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWCOMANCHE1	CSWS	5	29SP0	511524 L-DISTP2 69.0 511526 L-RLITP2 69.0 1	P12:69:AEPW:COMANC-2:L.E.S.-2:::	11.4	11.3	0
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWS.TNSK.CADO	CSWS	1	29SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	264.7	265.8	1.1
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWS.TNSK.CADO	CSWS	2	34SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	264.9	266.1	1.2
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWS.TNSK.CADO	CSWS	3	29WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	266.7	267.8	1.1
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWS.TNSK.CADO	CSWS	4	34WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	266.8	267.8	1
ERAS-2025-024	172050	Comanche 345/138 kV Ckt 1 and Ckt 2 Transformers	CSWS.TNSK.CADO	CSWS	5	34LP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	268.4	268.6	0.2
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	1	29SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	265.8	265.8	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	2	34SP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	266.1	266.1	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	3	29WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	4	34WP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	267.8	267.8	0

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	CSWS.TNSK.CADO	CSWS	5	34LP0	511920 CDW-SUB 345 511409 TREASILD7 345 1	Base Case	268.6	268.6	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	OKGE.SUEZ.KPLN	CSWS	1	34SP0	516019 KINGWD 7 345 516010 PINTAIL7 345 Z1	Base Case	275.1	275.1	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	OKGE.SUEZ.KPLN	CSWS	2	29WP0	516019 KINGWD 7 345 516010 PINTAIL7 345 Z1	Base Case	276	276	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	OKGE.SUEZ.KPLN	CSWS	3	34WP0	516019 KINGWD 7 345 516010 PINTAIL7 345 Z1	Base Case	276.7	276.7	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	OKGE.SUEZ.KPLN	CSWS	4	34LP0	516019 KINGWD 7 345 516010 PINTAIL7 345 Z1	Base Case	278.2	278.2	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	OKGE.SUEZ.KPLN	CSWS	5	29LP0	516019 KINGWD 7 345 516010 PINTAIL7 345 Z1	Base Case	280.1	280.1	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	WTHW.WTHW	CSWS	1	29LP0	515785 WINDFRM4 138 514785 WOODWRD4 138 1	511557 CHISHOLM6 230 3WXFMR CHISHOLM6 1	153.1	153.1	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	WTHW.WTHW	CSWS	2	29SP0	511534 CL-NGTP4 138 511485 CLINTJC4 138 1	511506 WTH WF 4 WEATHTP4 138 511536 138 1	227.8	227.8	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	WTHW.WTHW	CSWS	3	34SP0	511534 CL-NGTP4 138 511485 CLINTJC4 138 1	511506 WTH WF 4 WEATHTP4 138 511536 138 1	227.8	227.8	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	WTHW.WTHW	CSWS	4	29SP0	511497 WTH_SE 4 138 997415 WTH_SE 69.0 1	511506 WTH WF 4 NGTP4 138 511534 CL- 138 1	238.6	238.6	0
ERAS-2025-024	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	WTHW.WTHW	CSWS	5	29SP0	997415 WTH_SE 69.0 511496 WTH_SE 2 69.0 1	511506 WTH WF 4 NGTP4 138 511534 CL- 138 1	238.7	238.7	0