



DISIS 2022-001

Incremental Long-Term Congestion Rights Study Report

GEN-2022-104

REVISION HISTORY

DATE OR VERSION NUMBER	AUTHOR	CHANGE DESCRIPTION
08/17/2026	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 GEN-2022-104 (the Customer) that has Directly Assigned Upgrade Costs (DAUC) for the following network upgrades from DISIS-2022-001-2 Studies.

- Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1. (DISIS-2022-001-2)
- CANEYCK4 to TEXOMAJ4 138kV Line Rebuild. (DISIS-2022-001-2)
- Woodward 138/69kV Transformer CT Tap Adjustment. (DISIS-2022-001-2)

STUDY INPUTS

MODEL BASIS

The 2026 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 2026, 2027, 2028, 2030, 2035
 - Peak (2026SP, 2027SP, 2028SP, 2030SP, 2035SP)
 - Winter Peak (2026WP, 2027WP, 2028WP, 2030WP, 2035WP)
 - Light Load (2027LP)

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:
 - 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)
170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	36
170700	CANEYCK4 to TEXOMAJ4 138kV Line Rebuild	36
TBD	Woodward 138/69kV Transformer CT Tap Adjustment	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)
TBD	Reconfigure the Neosho Transformers	18
170066, 170093	Line - Beckham County - Potter -345 kV New Line (2024 ITP)	36
170653	Axtell 345/115 kV New Transformer	78

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: GEN-2022-104 Candidate ILTCRs

NU #	NU	Source	Sink	Min Delta (MW)	Cost Allocation (%)	cILTCR (MW)
170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	GDSM.MINCO4	0	22.87%	0
170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	OKGE.TRWE.TRWE	0	22.87%	0
170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	WFEC.CFSP.CFSP	0	22.87%	0
170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	GDSM.MINCO4	0	17.78%	0
170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	OKGE.TRWE.TRWE	0	17.78%	0
170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	WFEC.CFSP.CFSP	0	17.78%	0
TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	GDSM.MINCO4	0	100.00%	0
TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	OKGE.TRWE.TRWE	0	100.00%	0
TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	WFEC.CFSP.CFSP	0	100.00%	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
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	GDSM.MINCO4	1	30SP0	515157 BROWN 4	138	505602 S BROWN4	138	90.5	90.6	0
							515944 STRRDTTP4	138	515159 COLBRTTP4	138			
							1		1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	GDSM.MINCO4	2	30SP0	515944 STRRDTTP4	138	505602 S BROWN4	138	119.3	119.3	0
							515152 BROWNTTP4		515159 COLBRTTP4	138			
							138	1	1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	GDSM.MINCO4	3	35SP0	505602 S BROWN4	138	515157 BROWN 4	138	175	175	0
							515159 COLBRTTP4	138	515944 STRRDTTP4	138			
							1		1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	GDSM.MINCO4	4	35SP0	515157 BROWN 4	138	505602 S BROWN4	138	49	49	0
							515944 STRRDTTP4	138	515159 COLBRTTP4	138			
							1		1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	GDSM.MINCO4	5	35SP0	515944 STRRDTTP4	138	505602 S BROWN4	138	75.6	75.6	0
							515152 BROWNTTP4		515159 COLBRTTP4	138			
							138	1	1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	OKGE.TRWE.TRWE	1	30SP0	515157 BROWN 4	138	505602 S BROWN4	138	91.2	91.2	0
							515944 STRRDTTP4	138	515159 COLBRTTP4	138			
							1		1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	OKGE.TRWE.TRWE	2	30SP0	515944 STRRDTTP4	138	505602 S BROWN4	138	120.1	120.1	0
							515152 BROWNTTP4		515159 COLBRTTP4	138			
							138	1	1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	OKGE.TRWE.TRWE	3	35SP0	505602 S BROWN4	138	515157 BROWN 4	138	176.2	176.2	0
							515159 COLBRTTP4	138	515944 STRRDTTP4	138			
							1		1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	OKGE.TRWE.TRWE	4	35SP0	515157 BROWN 4	138	505602 S BROWN4	138	49.3	49.3	0
							515944 STRRDTTP4	138	515159 COLBRTTP4	138			
							1		1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	OKGE.TRWE.TRWE	5	35SP0	515944 STRRDTTP4	138	505602 S BROWN4	138	75.9	75.9	0
							515152 BROWNTTP4		515159 COLBRTTP4	138			
							138	1	1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	WFEC.CFSP.CFSP	1	30SP0	515157 BROWN 4	138	505602 S BROWN4	138	102.9	103	0
							515944 STRRDTTP4	138	515159 COLBRTTP4	138			
							1		1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	WFEC.CFSP.CFSP	2	30SP0	515944 STRRDTTP4	138	505602 S BROWN4	138	135.7	135.8	0.1
							515152 BROWNTTP4		515159 COLBRTTP4	138			
							138	1	1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	WFEC.CFSP.CFSP	3	35SP0	505602 S BROWN4	138	515157 BROWN 4	138	198.8	198.9	0
							515159 COLBRTTP4	138	515944 STRRDTTP4	138			
							1		1				
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	WFEC.CFSP.CFSP	4	35SP0	515157 BROWN 4	138	505602 S BROWN4	138	55.3	55.3	0
							515944 STRRDTTP4	138	515159 COLBRTTP4	138			
							1		1				

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IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
GEN-2022-104	170698	Rebuild the WOODWRD4 to WINDFRM4 138kV Line 1	GEN-2022-104	WFEC.CFSP.CFSP	5	35SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	85	85	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	GDSM.MINCO4	1	30SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	90.6	90.6	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	GDSM.MINCO4	2	30SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	119.3	119.3	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	GDSM.MINCO4	3	35SP0	505602 S BROWN4 138 515159 COLBRTP4 138 1	515157 BROWN 4 138 515944 STRRDT4 138 1	175.1	175	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	GDSM.MINCO4	4	35SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	49	49	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	GDSM.MINCO4	5	35SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	75.6	75.6	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	OKGE.TRWE.TRWE	1	30SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	91.2	91.2	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	OKGE.TRWE.TRWE	2	30SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	120.2	120.1	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	OKGE.TRWE.TRWE	3	35SP0	505602 S BROWN4 138 515159 COLBRTP4 138 1	515157 BROWN 4 138 515944 STRRDT4 138 1	176.2	176.2	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	OKGE.TRWE.TRWE	4	35SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	49.3	49.3	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	OKGE.TRWE.TRWE	5	35SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	75.9	75.9	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	WFEC.CFSP.CFSP	1	30SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	103	103	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	WFEC.CFSP.CFSP	2	30SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	135.8	135.8	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	WFEC.CFSP.CFSP	3	35SP0	505602 S BROWN4 138 515159 COLBRTP4 138 1	515157 BROWN 4 138 515944 STRRDT4 138 1	198.9	198.9	0
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	WFEC.CFSP.CFSP	4	35SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	55.3	55.3	0

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IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
GEN-2022-104	170700	CANEYCK to TEXOMA 138kV Line Rebuild	GEN-2022-104	WFEC.CFSP.CFSP	5	35SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	85	85	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	GDSM.MINCO4	1	30SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	90.6	90.6	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	GDSM.MINCO4	2	30SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	119.3	119.3	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	GDSM.MINCO4	3	35SP0	505602 S BROWN4 138 515159 COLBRT4 138 1	515157 BROWN 4 138 515944 STRRDT4 138 1	175	175	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	GDSM.MINCO4	4	35SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	49	49	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	GDSM.MINCO4	5	35SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	75.6	75.6	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	OKGE.TRWE.TRWE	1	30SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	91.2	91.2	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	OKGE.TRWE.TRWE	2	30SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	120.1	120.1	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	OKGE.TRWE.TRWE	3	35SP0	505602 S BROWN4 138 515159 COLBRT4 138 1	515157 BROWN 4 138 515944 STRRDT4 138 1	176.2	176.2	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	OKGE.TRWE.TRWE	4	35SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	49.3	49.3	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	OKGE.TRWE.TRWE	5	35SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	75.9	75.9	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	WFEC.CFSP.CFSP	1	30SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	103	103	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	WFEC.CFSP.CFSP	2	30SP0	515944 STRRDT4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	135.8	135.8	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	WFEC.CFSP.CFSP	3	35SP0	505602 S BROWN4 138 515159 COLBRT4 138 1	515157 BROWN 4 138 515944 STRRDT4 138 1	198.9	198.9	0
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	WFEC.CFSP.CFSP	4	35SP0	515157 BROWN 4 138 515944 STRRDT4 138 1	505602 S BROWN4 138 515159 COLBRT4 138 1	55.3	55.3	0

Southwest Power Pool, Inc.

IC	NU	Network Upgrade Name	Source	Sink	Limit	Case	Monitored Facility	Contingency Name	Base FCITC	Upgrade FCITC	ATC Increase
GEN-2022-104	TBD	Woodward 138/69kV Transformer CT Tap Adjustment	GEN-2022-104	WFEC.CFSP.CFSP	5	35SP0	515944 STRRDTP4 138 515152 BROWNT4 138 138 1	505602 S BROWN4 138 515159 COLBRTP4 138 1	85	85	0