Screening Study SPP-LTSR-2013-017

9/9/2013

SPP Engineering, SPP Transmission Service Studies



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Executive Summary

American Electric Power has requested a Screening Study to determine the impacts on SPP facilities due to the Long Term Service Requests for 400 MW. The service type requested for this screening study is Long Term Service Request (LTSR). OASIS# 78485407 and 78485570 was studied as one request from 1/1/2016 to 12/1/2026.

The principal objective of this study is to identify system problems and potential system modifications necessary to facilitate the LTSR request while maintaining system reliability. The LTSR request was studied using two system scenarios. The service was modeled by the transfers from OKGE to AEPW. The two scenarios were studied to capture system limitations caused or impacted by the requested service. An analysis was conducted on the planning horizon from 1/1/2016 to 12/1/2026.

The service was modeled from OKGE to AEPW. Facilities on the SPP system were identified for the requested service due to the SPP Study Methodology criteria. Tables 1 and 2 summarize the results of the screening study analysis for the transfers for the scenarios listed in the table. Table 1 lists SPP thermal transfer limitations identified. Table 2 lists SPP voltage transfer limitations identified. Table 3 lists the network upgrades required to mitigate the limitations impacted by this request.

Introduction

American Electric Power has requested a screening study to determine the impacts on SPP facilities for the Long Term Service Requests for 400 MW.

The purpose of the LTSR Option Screening Study is to provide the Eligible Customer with an approximation of the transmission remediation costs of each potential LTSR and a reasonable cost differential between alternatives for the purpose of an Eligible Customer's ranking of its potential LTSRs. The results of the Screening Study are not binding and the Eligible Customer retains the rights to enter the Aggregate Transmission Service Study. The Screening Study results will not assess the third party impacts and upgrades required. Service will not be granted based on the Screening Study for potential LTSRs on the Transmission System. To obtain a Service Agreement, Eligible Customers must apply for service and follow the application process set forth in Parts II and III of the Tariff.

This study includes steady-state contingency analysis (PSS/E function ACCC). The steady-state analysis considers the impact of the request on transmission line and transformer loadings for outages of single transmission lines, transformers, and generating units, and selected multiple transmission lines and transformers on the SPP and first-tier third party systems.

The LTSR request was studied using two system scenarios. The service was modeled by a transfer from OKGE to AEPW and SPS to AEPW. The two scenarios were studied to capture the system limitations caused or impacted by the requested service. Scenario 0 includes projected usage of transmission service included in the SPP 2012 Series Cases. Scenario 5 includes transmission service not already included in the SPP 2012 Series Cases.

Study Methodology

Description

The facility study analysis was conducted to determine the steady-state impact of the requested service on the SPP system. The steady-state analysis was performed to ensure current SPP Criteria and NERC Reliability Standards requirements are fulfilled. SPP conforms to NERC Reliability Standards, which provide strict requirements related to voltage violations and thermal overloads during normal conditions and during a contingency. NERC Standards require all facilities to be within normal operating ratings for normal system conditions and within emergency ratings after a contingency.

Normal operating ratings and emergency operating ratings monitored are Rate A and B in the SPP Model Development Working Group (MDWG) models, respectively. The upper bound and lower bound of the normal voltage range monitored is 105% and 95%. The upper bound and lower bound of the emergency voltage range monitored is 105% and 90%. Transmission Owner voltage monitoring criteria is used if more restrictive. The SPS Tuco 230 kV bus voltage is monitored at 92.5% due to pre-determined system stability limitations. The WERE Wolf Creek 345 kV bus voltage is monitored at 103.5% and 98.5% due to transmission operating procedure.

The contingency set includes all SPP control area branches and ties 69 kV 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 control areas with SPP reserve share program redispatch. The monitor elements include all SPP control area branches, ties, and buses 69 kV. and above,. Voltage monitoring was performed for SPP control area buses 69 kV and above.

A 3 % transfer distribution factor (TDF) cutoff was applied to all SPP control area facilities. For voltage monitoring, a 0.02 per unit change in voltage must occur due to the transfer or modeling upgrades to be considered a valid limit to the transfer.

Model Development

SPP used four seasonal models to study the OKGE to AEPW 400 MW request for the requested service period. The following SPP Transmission Expansion Plan 2012 Build 1 Cases were used to study the impact of the requested service on the transmission system:

Southwest Power Pool, Inc.

2014/15 Winter Peak (14WP)

2018 Summer Peak (18SP)

2018/19 Winter Peak (18WP)

2023 Summer Peak (23SP)

2023/24 Winter Peak (23WP)

The Summer Peak models apply to June through September, and the Winter Peak models apply to December through March.

The chosen base case models were modified to reflect the current modeling information. From the six seasonal models, two system scenarios were developed. Scenario 0 includes projected usage of transmission included in the SPP 2012 Series Cases. Scenario 5 includes transmission not already included in the SPP 2012 Series Cases.

Transmission Request Modeling

Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to Generation to Generation because the requested Network Integration Transmission Service is a request to serve network load with the new designated network resource, and the impacts on the Transmission System are determined accordingly. Generation to Generation transfers are accomplished by developing a post-transfer case for comparison by dispatching the request source and redispatching the request sink.

Transfer Analysis

Using the selected cases both with and without the requested transfer modeled, the PSS/E Activity ACCC was run on the cases and compared to determine the facility overloads caused or impacted by the transfer. Transfer distribution factor cutoffs and voltage threshold (0.02 change) were applied to determine the impacted facilities. The PSS/E options chosen to conduct the analysis can be found in Appendix A.

Study Results

Study Analysis Results

Tables 1 and 2 contain the initial steady-state analysis results of the LTSR. The tables are attached to the end of this report, if applicable. The tables identify the scenario and season in which the event occurred, the transfer amount studied, the facility control area location, applicable ratings of the thermal transfer limitations and voltage transfer limitations, and the loading percentage and voltage per unit (pu).

Table 1 lists the SPP thermal transfer limitations caused or impacted by the 400 MW requested transfers for applicable scenarios. Solutions are identified for the limitations in this table.

Table 2 lists the SPP voltage transfer limitations caused or impacted by the 400 MW requested transfers for applicable scenarios. Solutions are identified for the violations in this table.

Table 3 lists the network upgrades required to mitigate the limitations caused or impacted by this request. Engineering and construction costs are provided for assigned upgrades in this table.

Conclusion

The results of the screening study show that limiting constraints exist within the SPP regional transmission system for the requested transfer of 400 MW. The next steps are to WITHDRAW the request on OASIS and, if desired, enter a new OASIS request into the aggregate study queue.

The results contained in this study are for informational purposes only. Service will not be granted based on the Screening Study results. To obtain a Service Agreement, Eligible Customers must apply for service and follow the application processes set forth in Parts II and III of the Tariff and enter the Aggregate Study process. The results of the Aggregate Study may vary from the results of this screening study.

As a final step in this process, it is requested that the customer WITHDRAW the LTSR screening study request on OASIS.

Appendix A

PSS/E CHOICES IN RUNNING LOAD FLOW PROGRAM AND ACCC

R	Λ	CI	F	C	۸	C	F	C	\mathbf{E}	ריז	ויו	П	V	C	C	
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 Solutions: Fixed slope decoupled Newton-Raphson so
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(FDNS)

• Tap adjustment: Stepping

Area Interchange Control: Tie lines and loads
 Var limits: Apply immediately

• Solution Options:

X Phase shift adjustment

_ Flat start

Lock DC taps

_ Lock switched shunts

ACCC CASE SETTINGS:

• Solutions: AC contingency checking (ACCC)

MW mismatch tolerance: 0.5
System intact rating: Rate A
Contingency case rating: Rate B
Percent of rating: 100
Output code: Summary

Min flow change in overload report: 3mw
Excld cases w/ no overloads from report: YES
Exclude interfaces from report: NO
Perform voltage limit check: YES
Elements in available capacity table: 60000
Cutoff threshold for available capacity 99999.0

table:

Min. contng. Case Vltg chng for report: 0.02
 Sorted output: None

Newton Solution:

• Tap adjustment: Stepping

• Area interchange control: Tie lines and loads (Disabled for generator

outages)

• Var limits: Apply immediately

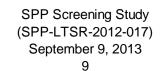
• Solution options: \underline{X} Phase shift adjustment

_ Flat start

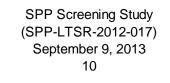
_ Lock DC taps

__ Lock switched shunts

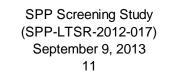
Scenario	Season From To Area	Monitored Branch Over 100% Rate B	Transfer Case %	TDF (%)	Outaged Branch Causing Overload	Upgrade Name	Solution
		DENTON MICHIES 04510/ OKT 4	Loading	40.000/	GEN532751 1-WOLF CREEK GENERATING STATION	Viole Clearwater 1291/ Clt1	Puild now 139/4/ line between new Viela substation 345/139 W/ transformer and evicting Clearwater 139 W/ substation
5	14WP WERE WERE	BENTON - WICHITA 345KV CKT 1 BENTON - WICHITA 345KV CKT 1	108.6 101.6	13.90% 15.40%	UNIT 1 RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1	Viola - Clearwater 138kV Ckt1 Viola - Clearwater 138kV Ckt1	Build new 138kV line between new Viola substation 345/138 kV transformer and existing Clearwater 138 kV substation. Build new 138kV line between new Viola substation 345/138 kV transformer and existing Clearwater 138 kV substation.
5	14WP WERE WERE	BENTON - WICHITA 345KV CKT 1	103.1	16.26%	HUNTERS7 345.00 - WOODRING 345KV CKT 1	Viola - Clearwater 138kV Ckt1	Build new 138kV line between new Viola substation 345/138 kV transformer and existing Clearwater 138 kV substation
5	14WP WERE WERE	BENTON - WICHITA 345KV CKT 1	108.6	13.90%	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1	Viola - Rose Hill 345 kV	Build new 35 mile line from Viola to Rose Hill 345 kV
5	14WP WERE WERE	BENTON - WICHITA 345KV CKT 1	103.1	16.26%	HUNTERS7 345.00 - WOODRING 345KV CKT 1	Viola - Rose Hill 345 kV	Build new 35 mile line from Viola to Rose Hill 345 kV
5	14WP WERE WERE	BENTON - WICHITA 345KV CKT 1	101.6	15.40%	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1	Viola - Rose Hill 345 kV	Build new 35 mile line from Viola to Rose Hill 345 kV
5	14WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	109.8	23.89%	GRACEMONT - MINCO 345KV CKT 1	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	14WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	109.2	22.02%	ARCADIA - SEMINOLE 345KV CKT 1	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	14WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	104.9	22.12%	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	23WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	127.5	21.59%	ARCADIA - SEMINOLE 345KV CKT 1 GEN532751 1-WOLF CREEK GENERATING STATION	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	14WP WERE WERE	BENTON - WICHITA 345KV CKT 1	108.6	13.90%	UNIT 1	Viola - Gill 138kV Ckt1 Viola - Gill 138kV Ckt1	Build new 138kV line between new Viola substation 345/138 kV transformer and existing Gill 138 kV substation. Build new 138kV line between new Viola substation 345/138 kV transformer and existing Gill 138 kV substation.
5 5	23WP OKGE OKGE	BENTON - WICHITA 345KV CKT 1 CIMARRON - DRAPER LAKE 345KV CKT 1	101.6 116.0	15.40% 22.01%	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1 LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	23WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	115.8	21.88%	CIMARRON - MINCO 345KV CKT 1	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	23WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	109.7	18.88%	SPP-AEPW-32	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	23WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	108.5	18.90%	OGE3TERM14	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	23WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	108.3	18.82%	OGE3TERM12	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	23WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	107.5	18.86%	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	23WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	107.2	18.86%	HOYT - STRANGER CREEK 345KV CKT 1	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	23WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	106.5	18.81%	QUANEX TAP - QUANEXS5 161.00 161KV CKT 1	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap
5	14WP WERE WERE	BENTON - WICHITA 345KV CKT 1	103.1	16.26%	HUNTERS7 345.00 - WOODRING 345KV CKT 1	Viola - Gill 138kV Ckt1	Build new 138kV line between new Viola substation 345/138 kV transformer and existing Gill 138 kV substation.
5	23WP OKGE OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	105.5	18.81%	BASE CASE POSE HILL - WOLE OPEEK 345KV CKT 1	CIMARRON - DRAPER LAKE 345KV CKT 1 CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap Increase capacity of Draper Lake CT and Cimarron wave trap
5 5	23WP OKGE OKGE 14WP WERE WERE	CIMARRON - DRAPER LAKE 345KV CKT 1 BENTON - WICHITA 345KV CKT 1	105.1 108.6	18.85% 13.90%	ROSE HILL - WOLF CREEK 345KV CKT 1 GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1	Viola 345/138kV Transformer Ckt 1	Increase capacity of Draper Lake CT and Cimarron wave trap Install new 345/138 kV transformer at Viola substation
5	14WP WERE WERE	ELK CITY - RED HILLS WIND 138KV CKT 1	110.9	3.51%	ELK CITY - FALCON ROAD 138KV CKT 1	ELK CITY - RED HILLS WIND 138KV CKT 1	Upgrade Elk City to RHWIND4 TO 1113
5	23WP WFEC AEPW	ELK CITY - RED HILLS WIND 138KV CKT 1	141.6	3.80%	ELK CITY - FALCON ROAD 138KV CKT 1	ELK CITY - RED HILLS WIND 138KV CKT 1	Upgrade Elk City to RHWIND4 TO 1113
5	14WP WERE WERE	BENTON - WICHITA 345KV CKT 1	101.6	15.40%	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1	Viola 345/138kV Transformer Ckt 1	Install new 345/138 kV transformer at Viola substation
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	119.1	8.29%	GEN336821 1-GRAND GULF UNIT	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	119.0	10.56%	PITTSBURG - VALLIANT 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP WERE WERE	BENTON - WICHITA 345KV CKT 1	103.1	16.26%	HUNTERS7 345.00 - WOODRING 345KV CKT 1	Viola 345/138kV Transformer Ckt 1	Install new 345/138 kV transformer at Viola substation
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	117.8	8.29%	OKLAUN - OKLAUNION 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	117.7	8.29%	SPP-AEPW-32	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	115.9	10.18%	SPP-AEPW-01	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE 14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	111.0 109.7	8.47% 8.33%	OVERTON-TRF LACYGNE - STILWELL 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP ORGE ORGE	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	109.7	4.07%	BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT	Cimarron - Mathewson 345 kV Ckt 1 Accelerate	Build new 16 mile 345 kV line from Mathweson to Cimarron.
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	108.7	8.33%	HOYT - STRANGER CREEK 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	107.8	8.29%	15TH & FULTON TAP - TULSA SOUTHEAST 138KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	107.8	8.30%	LACYGNE - WEST GARDNER 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	106.7	8.29%	BASE CASE	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	106.1	8.33%	ROSE HILL - WOLF CREEK 345KV CKT 1 DOLET HILLS - SOUTHWEST SHREVEPORT 345KV	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	105.0	8.05%	CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A)	104.7	8.27%	LACYGNE - NEOSHO 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP SPS SPS	345/230/13.2KV TRANSFORMER CKT 1	108.9	4.07%	345KV CKT 1	Cimarron - Mathewson 345 kV Ckt 1 Accelerate	Build new 16 mile 345 kV line from Mathweson to Cimarron.
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	124.6	10.15%	GEN336153 1-WATERFORD UNIT#3	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE 23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	123.4 122.8	10.15% 10.14%	GEN335831 1-RIVERBEND UNIT#1 SPP-AEPW-32	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	122.8	12.62%	SPP-AEPW-01	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	116.2	10.51%	AI03	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP SPS SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.8	4.07%	BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT	Elk City 345/230 kV	Expand Elk City substation (or build new station). Install a 345/230 kV 675 MVA transformer at Elk City.
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	114.3	10.20%	LACYGNE - STILWELL 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	113.9	10.19%	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	113.4	10.19%	HOYT - STRANGER CREEK 345KV CKT 1 15TH & FULTON TAP - TULSA SOUTHEAST 138KV	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	112.9	10.15%	CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	112.8	10.16%	LACYGNE - WEST GARDNER 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	112.4	10.16%	MCCREDIE - THOMAS HILL 345KV CKT 1	FT SMITH MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE 23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	111.7	10.15% 10.18%	BASE CASE ROSE HILL - WOLF CREEK 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	111.1	9.85%	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	23WP OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	109.5	10.16%	LACYGNE - NEOSHO 345KV CKT 1	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps
5	14WP OKGE OKGE	FT SMITH (FTSMITH1) 500/345/13.8KV TRANSFORMER CKT 1	102.3	8.16%	FT SMITH (FTSMITH5) 345/161/13.8KV TRANSFORMER CKT 5	FT SMITH (FTSMITH1) 500/345/13.8KV TRANSFORMER CKT 1	Install 2nd 500/345 kV bus tie in Ft. Smith Sub
5	23WP OKGE OKGE	T SMITH (FTSMITH1) 500/345/13.8KV TRANSFORMER CKT 1 T SMITH (FTSMITH5) 245/464/43.8KV/TRANSFORMER	106.6	9.95%	FT SMITH (FTSMITH5) 345/161/13.8KV TRANSFORMER CKT 5	FT SMITH (FTSMITH1) 500/345/13.8KV TRANSFORMER CKT 1 ET SMITH (FTSMITH1) 500/345/13.8KV TRANSFORMER	Install 2nd 500/345 kV bus tie in Ft. Smith Sub
5	14WP OKGE OKGE	FT SMITH (FTSMITH5) 345/161/13.8KV TRANSFORMER CKT 5 FT SMITH (FTSMITH5) 345/161/13.8KV TRANSFORMER	116.4	5.85%	FT SMITH (FTSMITH1) 500/345/13.8KV TRANSFORMER CKT 1 FT SMITH (FTSMITH1) 500/345/13.8KV	FT SMITH (FTSMITH1) 500/345/13.8KV TRANSFORMER CKT 1 FT SMITH (FTSMITH1) 500/345/13.8KV TRANSFORMER	Install 2nd 500/345 kV bus tie in Ft. Smith Sub
5	23WP OKGE OKGE	CKT 5 POTTER COUNTY INTERCHANGE (WAUK 90343-A)	124.1	7.38%	TRANSFORMER CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV	CKT 1	Install 2nd 500/345 kV bus tie in Ft. Smith Sub
5	14WP SPS SPS	345/230/13.2KV TRANSFORMER CKT 1	108.9	4.07%	345KV CKT 1	Elk City 345/230 kV	Expand Elk City substation (or build new station). Install a 345/230 kV 675 MVA transformer at Elk City.
5	14WP WFEC OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	107.1	5.29%	KNOBHILL - MOORELAND 138KV CKT 1	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	Reset CT
5	14WP WFEC OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	105.5	5.11%	CEDARDALE - MOORELAND 138KV CKT 1	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	Reset CT
5	14WP WFEC OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	105.2	5.11%	CEDARDALE - OKEENE 138KV CKT 1	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	Reset CT
5	23WP SWPA SWPA	GORE - MUSKOGEE TAP 161KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A)	111.2	3.04%	FT SMITH - MUSKOGEE 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5	14WP SPS SPS	345/230/13.2KV TRANSFORMER CKT 1 GPACEMONT - LAWITON FASTSIDE 3/15KV CKT 1	108.8	4.07%	DITTEDLIDO SEMINOLE SACIOLOGE	Elk City to Gracemont 345kV AEPW GRACEMONT - LAWTON EASTSIDE 345KV CKT 1 Accelerate	Build new 46.5 mile 345 kV line from Elk City to Gracemont (AEP portion). Replace Terminal Equipment
3	23WP OKGE AEPW	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	113.0	13.71% 10.86%	PITTSBURG - SEMINOLE 345KV CKT 1 BASE CASE	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1 Accelerate	Replace Terminal Equipment Replace Terminal Equipment
5	23WP OKGE AEPW	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	110.7	111.00	DASE LASE	ALLERIAL	Kenace reminal eminanem



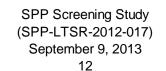
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5	23WP	OKGE	AEPW	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	108.9	12.52%	CIMARRON - DRAPER LAKE 345KV CKT 1	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1 Accelerate	Replace Terminal Equipment
5	23WP	OKGE	AEPW	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	105.7	10.86%	GEN562308 1-G12-037 18.000	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1 Accelerate	Replace Terminal Equipment
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.8	4.07%	BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT	Elk City to Gracemont 345kV OKGE	Build new 46.5 mile 345 kV line from Elk City to Gracemont (OGE portion).
5	23WP	OKGE	AEPW	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	103.9	10.88%	SPP-SWPS-02	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1 Accelerate	Replace Terminal Equipment
5	23WP		AEPW	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	102.6	10.87%	SPP-SWPS-04	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1 Accelerate	Replace Terminal Equipment
5	14WP	SPS		POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.9	4.07%	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	Elk City to Gracemont 345kV OKGE	Build new 46.5 mile 345 kV line from Elk City to Gracemont (OGE portion).
5								GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	
5	23WP	OKGE		GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	102.5	11.00%	OGE3TERM41 DOLET HILLS - SOUTHWEST SHREVEPORT 345KV	Accelerate GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	Replace Terminal Equipment
5	23WP	OKGE	AEPW	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	101.5	11.01%	CKT 1	Accelerate GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	Replace Terminal Equipment
5	23WP	OKGE	AEPW	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	101.2	10.87%	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 LAWTON WESTSIDE NORTH - LAWTON WESTSIDE	Accelerate GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	Replace Terminal Equipment
5	23WP	OKGE	AEPW	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1	100.1	10.86%	NORTH TAP 138KV CKT 1	Accelerate	Replace Terminal Equipment
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	139.6	4.71%	AXTELL - PAULINE 345KV CKT 1	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	128.2	4.22%	MOORE - PAULINE 345KV CKT 1	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	111.7	3.48%	HOYT - STRANGER CREEK 345KV CKT 1	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5	14WP		NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	111.5	3.61%	SPP-AEPW-32	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5									
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	110.0	3.43%	LN-1090	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	109.2	3.38%	NORTH PLATTE 115/34.5KV TRANSFORMER CKT 1	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	108.6	3.37%	LACYGNE - WEST GARDNER 345KV CKT 1	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	107.9	3.38%	BASE CASE	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	107.2	3.34%	LACYGNE - NEOSHO 345KV CKT 1	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5	23WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	110.7	3.72%	AXTELL - PAULINE 345KV CKT 1	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
							CHERRYC3 345.00 - GERALD GENTLEMAN	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5	23WP	NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1	107.8	3.19%	STATION 345KV CKT 1 CHERRYC3 345.00 - HOLT.CO3 345.00 345KV CKT		
5	23WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	107.2	3.19%	1	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit
5	23WP	GRDA	GRDA	GRDA1 - SILOAM SPRINGS TAP 345KV CKT 1	115.9	3.62%	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1	GRDA1 - SILOAM SPRINGS TAP 345KV CKT 1 #2	Replace Terminal Equipment
5	23WP	GRDA	GRDA	GRDA1 - SILOAM SPRINGS TAP 345KV CKT 1	108.4	4.24%	7JASPER 345.00 - BLACKBERRY 345KV CKT 1	GRDA1 - SILOAM SPRINGS TAP 345KV CKT 1 #2	Replace Terminal Equipment
5	23WP	GRDA	GRDA	GRDA1 - SILOAM SPRINGS TAP 345KV CKT 1	104.7	4.11%	7JASPER 345.00 - MORGAN 345KV CKT 1	GRDA1 - SILOAM SPRINGS TAP 345KV CKT 1 #2	Replace Terminal Equipment
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.8	4.07%	BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT	Line - Clark County - Thistle 345 kV dbl Ckt	Build a new 86 mile double circuit 345 kV line with at least 3000 A capacity from the Thistle 345 kV substation to the new Clark County substation. Build a new 345 kV substation at Thistle with a ring bus and necessary terminal equipment.
5	23WP		OKGE	HIGHWAY 59 - TAHLEQUAH 161KV CKT 1	119.4	3.24%	FT SMITH - MUSKOGEE 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5	23WP		OKGE	HIGHWAY 59 - VBI 161KV CKT 1	127.3	3.24%		Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
<u> </u>	14WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	115.1	4.47%	AUBURN ROAD - JEFFREY ENERGY CENTER 230KV	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
- -				POTTER COUNTY INTERCHANGE (WAUK 90343-A)			BORDER 7345.00 - WOODWARD DISTRICT EHV		Build a new 86 mile double circuit 345 kV line with at least 3000 A capacity from the Thistle 345 kV substation to the new
5	14WP	SPS		345/230/13.2KV TRANSFORMER CKT 1	108.9	4.07%	345KV CKT 1 JEFFREY ENERGY CENTER - MORRIS COUNTY	Line - Clark County - Thistle 345 kV dbl Ckt	Clark County substation. Build a new 345 kV substation at Thistle with a ring bus and necessary terminal equipment.
5	14WP	WERE	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	114.7	3.75%	345KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5	14WP	WERE	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	114.6	5.43%	SWISSVALE - WEST GARDNER 345KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5	14WP	WERE	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	103.7	4.24%	LACYGNE - STILWELL 345KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5	14WP	WERE	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	102.3	3.82%	SJHALKNAIASC	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5	14WP	WERE	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	101.8	4.21%	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5	14WP	WERE		HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	101.5	4.04%	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5	14006	VVERE	WERE	HOTT-JEFFRET ENERGT CENTER 343KV CKT I	101.5	4.04%	230KV CKT 1		TEDUNG THE JEC - HOYE 343KV THE as a SINGLE CITCUIT WITH HEW CONDUCTOR, POLES, AND SHIELD WHE AND STATION WORK
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5	14WP	WERE	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	101.2	4.36%	SPP-AEPW-32	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5 5	14WP 14WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	101.2 100.9	4.36% 4.29%	SPP-AEPW-32 SPP-WERE-85		Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5 5 5		WERE						HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5 5 5	14WP 14WP	WERE	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A)	100.9	4.29% 4.17%	SPP-WERE-85	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary
5 5 5	14WP 14WP 14WP	WERE WERE SPS	WERE WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	100.9 100.4 108.8	4.29% 4.17% 4.07%	SPP-WERE-85 LACYGNE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term
5 5 5 5	14WP 14WP	WERE WERE SPS	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A)	100.9	4.29% 4.17%	SPP-WERE-85 LACYGNE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary
5 5 5 5 5	14WP 14WP 14WP	WERE WERE SPS WERE	WERE WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	100.9 100.4 108.8	4.29% 4.17% 4.07%	SPP-WERE-85 LACYGNE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term
5 5 5 5 5	14WP 14WP 14WP 23WP	WERE SPS WERE WERE	WERE WERE SPS WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	100.9 100.4 108.8 104.4	4.29% 4.17% 4.07% 4.42%	SPP-WERE-85 LACYGNE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV CKT 1 JEFFREY ENERGY CENTER - MORRIS COUNTY	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5 5 5 5 5	14WP 14WP 23WP 23WP	WERE SPS WERE WERE	WERE WERE WERE WERE WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A)	100.9 100.4 108.8 104.4 102.9 102.7	4.29% 4.17% 4.07% 4.42% 3.68% 5.25%	SPP-WERE-85 LACYGNE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV CKT 1 JEFFREY ENERGY CENTER - MORRIS COUNTY 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation with the necessary
5 5 5 5 5 5	14WP 14WP 14WP 23WP	WERE SPS WERE WERE	WERE WERE WERE WERE WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	100.9 100.4 108.8 104.4 102.9	4.29% 4.17% 4.07% 4.42% 3.68%	SPP-WERE-85 LACYGNE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV CKT 1 JEFFREY ENERGY CENTER - MORRIS COUNTY 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild 20.38 miles of line
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5 5 5 5 5 5 5	14WP 14WP 23WP 23WP 23WP	WERE WERE WERE WERE WERE SPS	WERE WERE WERE WERE WERE WERE OKGE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	100.9 100.4 108.8 104.4 102.9 102.7	4.29% 4.17% 4.07% 4.42% 3.68% 5.25% 4.07%	SPP-WERE-85 LACYGNE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV CKT 1 JEFFREY ENERGY CENTER - MORRIS COUNTY 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild 20.38 miles of line
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5 5 5 5 5 5 5 5	14WP 14WP 23WP 23WP 23WP 14WP 14WP	WERE SPS WERE WERE WERE SPS OKGE	WERE SPS WERE WERE WERE SPS OKGE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HUNTERS7 345.00 - WOODRING 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	100.9 100.4 108.8 104.4 102.9 102.7 108.9 112.1	4.29% 4.17% 4.07% 4.42% 3.68% 5.25% 4.07% 4.07%	SPP-WERE-85 LACYGNE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV CKT 1 JEFFREY ENERGY CENTER - MORRIS COUNTY 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 VIOLA 7 345.00 - WICHITA 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HUNTERS7 345.00 - WOODRING 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild 20.38 miles of line Build 30 mile double circuit 345 kV line with at least 3000 A capacity from the Hitchland substation to the OGE interception point from the Woodward District EHV substation. Upgrade the Hitchland substation with the necessary breakers and terminal equipme
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Upgrade the Hitchland substation with the necessary breakers and terminal equipme Build approximately 181 miles of 345kV from KCPL Lacygne - AMRN Mariosa Build 30 mile double circuit 345 kV line with at least 3000 A capacity from the Hitchland substation to the OGE interception point from the Woodward District EHV substation. Upgrade the Hitchland substation with the necessary breakers and terminal equipme Build 111 mile 345 kV line from Potter to Tolk. Further study analysis will be performed with regard to the SPS North-South Stability Limit to determine whether its rating may be increased based on approved SPP Expansion Plan Network Upgrades scheduled t Build 111 mile 345 kV line from Potter to Tolk. Further study analysis will be performed with regard t
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Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor. Poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line with at least 3000 A capacity from the Woodward District EHV substation the SPS interception from the Hitchland substation. 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5 5 <t< td=""><td>14WP 14WP 23WP 23WP 23WP 14WP 14WP 14WP 14WP 14WP 14WP 14WP 14</td><td>WERE WERE WERE WERE WERE SPS OKGE SPS AEPW SPS SPS WFEC SPS WFEC SPS WERE WERE SWPA SPS WERE WERE SWPA</td><td>WERE WERE SPS WERE WERE WERE SPS OKGE SPS AEPW SPS SPS AEPW SPS AEPW SPS WERE WERE WERE SPS SPS AEPW SPS SPS AEPW SPS AEPW SPS SPS AEPW SPS SPS AEPW SPS SPS SPS SPS SPS WERE V WERE SPS SPS</td><td>HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HUNTERS7 345.00 - WOODRING 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 LYDIA - VALLIANT 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 SOUTHWESTERN STATION - WASHITA 138KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 SOUTHWESTERN STATION - 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Thistle - Wichita 345 kV dbl Ckt PW Line - Thistle - Wichita 345 kV dbl Ckt PW</td><td>Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation work Preakers and term Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation the SPS interception from the Hitchland substation. 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Hitchland - Woodward 345 kV dbl Ckt SPS Potter to Tolk 345 kV SOUTHWESTERN STATION - WASHITA 138KV CKT 2 Line - Spearville - Clark County 345 kV dbl Ckt latan - Jeffrey Energy Center 345 kV KACP Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Line - Spearville - Clark County 345 kV dbl Ckt Viola 345/138kV Transformer Ckt 1 Viola 345/138kV Transformer Ckt 1 Line - Thistle - Wichita 345 kV dbl Ckt WERE Line - Thistle - Wichita 345 kV dbl Ckt WERE</td><td>Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work Build a new 32 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation in the SPS interception from the Hitchland substation. 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Hitchland - Woodward 345 kV dbl Ckt OKGE HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HUNTERS7 345.00 - WOODRING 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt SPS Lacygne - Mariosa 345KV KACP Line - Hitchland - Woodward 345 kV dbl Ckt SPS Potter to Tolk 345 kV SOUTHWESTERN STATION - WASHITA 138KV CKT 2 Line - Spearville - Clark County 345 kV dbl Ckt latan - Jeffrey Energy Center 345 kV KACP Iatan - Jeffrey Energy Center 345 kV KACP Muskogee - VBl 345 kV with 345/161 kV bus tie near VBl Line - Spearville - Clark County 345 kV dbl Ckt Viola 345/138kV Transformer Ckt 1 Viola 345/138kV Transformer Ckt 1 Line - Thistle - Wichita 345 kV dbl Ckt PW Line - Thistle - Wichita 345 kV dbl Ckt WERE Line - Thistle - Wichita 345 kV dbl Ckt WERE Line - Thistle - Wichita 345 kV dbl Ckt OKGE Line - Thistle - Woodward 345 kV dbl Ckt OKGE Line - Thistle - Woodward 345 kV dbl Ckt PW Line - 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Rebuild the JEC - Hoyl 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation with the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild the JEC - Hoyl 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyl 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyl 345kV line was a single circuit with new conductor, poles, and shield wire and substation work. Rebuild by JEC - Hoyl 345kV line was a single circuit with new conductor, poles, and shield wire and substation work. 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WEST GARDNER 345KV CKT 1 VAN BUREN - VBI 161KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 VAN BUREN - VBI 161KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 WIGHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2</td><td>100.9 100.4 108.8 104.4 102.9 102.7 108.9 112.1 108.8 104.8 108.9 108.9 108.8 110.1 101.3 108.9 110.5 106.7 108.8 108.9 108.8 108.9 108.8 108.9 108.8</td><td>4.29% 4.17% 4.07% 4.42% 3.68% 5.25% 4.07%</td><td>SPP-WERE-85 LACYGNE - 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JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HUNTERS7 345.00 - WOODRING 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt SPS Lacygne - Mariosa 345KV KACP Line - Hitchland - Woodward 345 kV dbl Ckt SPS Potter to Tolk 345 kV SOUTHWESTERN STATION - WASHITA 138KV CKT 2 Line - Spearville - Clark County 345 kV dbl Ckt latan - Jeffrey Energy Center 345 kV KACP latan - Jeffrey Energy Center 345 kV KACP Muskogee - VBl 345 kV with 345/161 kV bus tie near VBl Line - Spearville - Clark County 345 kV dbl Ckt Viola 345/138kV Transformer Ckt 1 Viola 345/138kV Transformer Ckt 1 Line - Thistle - Wichita 345 kV dbl Ckt WERE Line - Thistle - Wichita 345 kV dbl Ckt WERE Line - Thistle - Wichita 345 kV dbl Ckt WERE Line - Thistle - Wichita 345 kV dbl Ckt OKGE Line - Thistle - Woodward 345 kV dbl Ckt PW Line - 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Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Build a new 92 mile double circuit 345 kV in with at least 3000 A capacity from the Woodward District EHV substation the SPS interception from the Hitchiand substation. Upgrade the Woodward District EHV substation with the necessary breakers and term Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation the SPS interception from the Hitchiand substation. Upgrade the Woodward District EHV substation with the necessary breakers and term. 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5 5 <t< td=""><td>14WP 14WP 23WP 23WP 23WP 23WP 14WP 14WP 14WP 14WP 14WP 14WP 14WP 14</td><td>WERE WERE WERE WERE WERE SPS OKGE SPS AEPW SPS SPS WFEC SPS WERE WERE SWPA SPS SPS WERE SPS SPS SPS SPS SPS SPS SPS</td><td>WERE WERE WERE WERE WERE WERE SPS OKGE SPS AEPW SPS SPS AEPW SPS SPS SPS SPS SPS SPS SPS</td><td>HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HUNTERST 345.00 - WOODRING 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 LYDIA - VALLIANT 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 SOUTHWESTERN STATION - WASHITA 138KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 SWISSVALE - 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Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation with the SPS interception from the Hitchland substation. Dipgrade the Woodward District EHV substation with the necessary breakers and term. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation with the necessary breakers and term. Rebuild 30 mile double circuit 345 kV line with at lesst 3000 A capacity from the Hitchland substation to the OSE interception from the Woodward District EHV substation. Upgrade the Hitchland substation with the necessary breakers and term. Build 30 mile double circuit 345 kV line with at lesst 3000 A capacity from the Hitchland substation to the OSE interception point from the Woodward District EHV substation. Upgrade the Hitchland substation with the necessary breakers and terminal equipme. Build 30 mile double circuit 345 kV line with a less 3000 A capacity from the Hitchland substation with the necessary breakers and terminal equipme. Build 31 mile 345 kV line from Poter to Tok. Further study analysis will be performed with regard to the SPS North-South Stability Limit to determine whether its rating may be increased based on approved SPP Expansion Plan Network Upgrades substation. 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Hitchland - Woodward 345 kV dbl Ckt OKGE HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt OKGE HUNTERS7 345.00 - WOODRING 345KV CKT 1 Line - Hitchland - Woodward 345 kV dbl Ckt SPS Lacygne - Mariosa 345KV KACP Line - Hitchland - Woodward 345 kV dbl Ckt SPS Potter to Tolk 345 kV Potter to Tolk 345 kV SOUTHWESTERN STATION - WASHITA 138KV CKT 2 Line - Spearville - Clark County 345 kV dbl Ckt latan - Jeffrey Energy Center 345 kV KACP Muskogee - VBl 345 kV with 345/161 kV bus tie near VBl Line - Spearville - Clark County 345 kV dbl Ckt Viola 345/138kV Transformer Ckt 1 Viola 345/138kV Transformer Ckt 1 Line - Thistle - Wichita 345 kV dbl Ckt PW Line - Thistle - Wichita 345 kV dbl Ckt WERE Line - Thistle - Wichita 345 kV dbl Ckt WERE Line - Thistle - Woodward 345 kV dbl Ckt OKGE Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV line OKGE Line - Tuco - Woodward 345 kV line OKGE	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation with the SPS interception from the Hitchland substation. Dipgrade the Woodward District EHV substation with the necessary breakers and term. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation with the necessary breakers and term. Rebuild 30 mile double circuit 345 kV line with at lesst 3000 A capacity from the Hitchland substation to the OSE interception from the Woodward District EHV substation. Upgrade the Hitchland substation with the necessary breakers and term. Build 30 mile double circuit 345 kV line with at lesst 3000 A capacity from the Hitchland substation to the OSE interception point from the Woodward District EHV substation. Upgrade the Hitchland substation with the necessary breakers and terminal equipme. Build 30 mile double circuit 345 kV line with a less 3000 A capacity from the Hitchland substation with the necessary breakers and terminal equipme. Build 31 mile 345 kV line from Poter to Tok. Further study analysis will be performed with regard to the SPS North-South Stability Limit to determine whether its rating may be increased based on approved SPP Expansion Plan Network Upgrades substation. Build the C
5 5 <t< td=""><td>14WP 14WP 23WP 23WP 23WP 14WP 14WP 14WP 14WP 14WP 14WP 14WP 14</td><td>WERE WERE WERE WERE SPS OKGE SPS AEPW SPS SPS SPS WFEC SPS WERE WERE SWPA SPS SPS SPS SPS SPS SPS SPS SPS SPS S</td><td>WERE WERE WERE WERE WERE WERE SPS OKGE SPS AEPW SPS SPS AEPW SPS SPS SPS SPS SPS SPS SPS</td><td>HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HUNTERS7 345.00 - WOODRING 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 LYDIA - VALLIANT 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 SOUTHWESTERN STATION - WASHITA 138KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1 VAN BUREN - VBI 161KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 NICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1 WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 PO</td><td>100.9 100.4 108.8 104.4 102.9 102.7 108.9 112.1 108.8 104.8 108.9 108.9 108.8 111.7 100.1 101.3 108.9 110.5 106.7 108.8 108.9 108.8 108.9 108.8 108.9 108.8 108.9 108.8 108.9 108.8</td><td>4.29% 4.17% 4.07% 4.42% 3.68% 5.25% 4.07%</td><td>SPP-WERE-85 LACYGNE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV CKT 1 JEFFREY ENERGY CENTER - MORRIS COUNTY 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 WIOLA 7 345.00 - WICHITA 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1</td><td>HOYT - 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Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Thistle - Woodward 345 kV dbl Ckt PW Line - Tuco - Woodward 345 kV line OKGE Line - Tuco - Woodward 345 kV line SPS Line - Tuco - Woodward 345 kV line SPS</td><td>Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work. 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Upgrade the Hitchiand substation to the Research and the subs</td></t<>	14WP 14WP 23WP 23WP 23WP 14WP 14WP 14WP 14WP 14WP 14WP 14WP 14	WERE WERE WERE WERE SPS OKGE SPS AEPW SPS SPS SPS WFEC SPS WERE WERE SWPA SPS SPS SPS SPS SPS SPS SPS SPS SPS S	WERE WERE WERE WERE WERE WERE SPS OKGE SPS AEPW SPS SPS AEPW SPS SPS SPS SPS SPS SPS SPS	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 HUNTERS7 345.00 - WOODRING 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 LYDIA - VALLIANT 345KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 SOUTHWESTERN STATION - WASHITA 138KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1 VAN BUREN - VBI 161KV CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 NICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1 WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 PO	100.9 100.4 108.8 104.4 102.9 102.7 108.9 112.1 108.8 104.8 108.9 108.9 108.8 111.7 100.1 101.3 108.9 110.5 106.7 108.8 108.9 108.8 108.9 108.8 108.9 108.8 108.9 108.8 108.9 108.8	4.29% 4.17% 4.07% 4.42% 3.68% 5.25% 4.07%	SPP-WERE-85 LACYGNE - 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Build 30 mile double circuit 345 kV line with at least 3000 A capacity from the Hitchiand substation to the OCE interception point from the Woodward District EHV substation. Upgrade the Hitchiand substation to the Research and the subs



5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.8	4.07%	BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT	Mathewson 345 kV Accelerate	Build new Mathewson 345 kV substation at the intersection of the Woodring-Cimarron and the existing Northwest - Tatonga 345 kV lines.
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.9	4.07%	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	Mathewson 345 kV Accelerate	Build new Mathewson 345 kV substation at the intersection of the Woodring-Cimarron and the existing Northwest - Tatonga 345 kV lines.
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.8	4.07%	BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT	Tatonga - Woodward EHV 345 kV Ckt 2 Accelerate	Build new 49-mile Woodward EHV - Tatonga 345 kV Ckt 2 line.
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.9	4.07%	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	Tatonga - Woodward EHV 345 kV Ckt 2 Accelerate	Build new 49-mile Woodward EHV - Tatonga 345 kV Ckt 2 line.
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.8	4.07%	BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT	XFR - Thistle 345/138 kV	Install a 400 MVA 345/138 kV transformer at the new 345 kV Thistle substation.
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.9	4.07%	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	XFR - Thistle 345/138 kV	Install a 400 MVA 345/138 kV transformer at the new 345 kV Thistle substation.
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.8	4.07%	BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles).
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.9	4.07%	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles).
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	108.8	4.07%	BORDER 7345.00 - G12-038 TAP 345.00 345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV	Cherry Co - Holt Co 345 kV Ckt1	Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation. (Estimated 146 miles). Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation.
5	14WP	SPS	SPS	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A)	108.9	4.07%	345KV CKT 1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	Cherry Co - Holt Co 345 kV Ckt1	(Estimated 146 miles).
5	14WP	SPS	SPS	345/230/13.2KV TRANSFORMER CKT 1 POTTER COUNTY INTERCHANGE (WAUK 90343-A)	108.8	4.07%	1 BORDER 7345.00 - WOODWARD DISTRICT EHV	Cherry Co 345 kV Terminal Upgrades	Build new Cherry County 345 kV Substation.
<u>5</u>	14WP 14WP	SPS WERE	SPS WERE	345/230/13.2KV TRANSFORMER CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	108.9 100.4	4.07% 4.17%	345KV CKT 1 LACYGNE - WEST GARDNER 345KV CKT 1	Cherry Co 345 kV Terminal Upgrades latan - Jeffrey Energy Center 345 kV KACP	Build new Cherry County 345 kV Substation. Build 14.2 miles of new 345 kV
5	23WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	102.7	5.25%	SWISSVALE - WEST GARDNER 345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV	latan - Jeffrey Energy Center 345 kV KACP	Build 14.2 miles of new 345 kV
<u>5</u>	23WP 14WP	WERE WERE		HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	104.4 100.9	4.42% 4.29%	CKT 1 SPP-WERE-85	latan - Jeffrey Energy Center 345 kV KACP latan - Jeffrey Energy Center 345 kV KACP	Build 14.2 miles of new 345 kV Build 14.2 miles of new 345 kV
5	14WP	WERE	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	101.2	4.36%	SPP-AEPW-32 EAST MANHATTAN - JEFFREY ENERGY CENTER	latan - Jeffrey Energy Center 345 kV KACP	Build 14.2 miles of new 345 kV
5	14WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	101.5	4.04%	230KV CKT 1 AUBURN ROAD (AUBRN77X) 230/115/13.8KV	latan - Jeffrey Energy Center 345 kV KACP	Build 14.2 miles of new 345 kV
5 5	14WP 14WP	WERE WERE	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	101.8 102.3	4.21% 3.82%	TRANSFORMER CKT 1 SJHALKNAIASC	latan - Jeffrey Energy Center 345 kV KACP latan - Jeffrey Energy Center 345 kV KACP	Build 14.2 miles of new 345 kV Build 14.2 miles of new 345 kV
5	14WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	114.6	5.43%	SWISSVALE - WEST GARDNER 345KV CKT 1 JEFFREY ENERGY CENTER - MORRIS COUNTY	latan - Jeffrey Energy Center 345 kV KACP	Build 14.2 miles of new 345 kV
5	14WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	114.7	3.75%	345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV	latan - Jeffrey Energy Center 345 kV KACP	Build 14.2 miles of new 345 kV
5	14WP 23WP	WERE	WERE WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	115.1 102.9	4.47% 3.68%	CKT 1 JEFFREY ENERGY CENTER - MORRIS COUNTY 345KV CKT 1	latan - Jeffrey Energy Center 345 kV KACP latan - Jeffrey Energy Center 345 kV KACP	Build 14.2 miles of new 345 kV Build 14.2 miles of new 345 kV
5	14WP	WERE	WERE WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	102.9 103.7 100.4	4.24% 4.17%	LACYGNE - STILWELL 345KV CKT 1 LACYGNE - WEST GARDNER 345KV CKT 1	latan - Jeffrey Energy Center 345 kV KACP latan - Jeffrey Energy Center 345 kV WERE	Build 14.2 miles of new 345 kV Build 56.8 miles of new 345 kV
5	23WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	100.4	5.25%	SWISSVALE - WEST GARDNER 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV	latan - Jeffrey Energy Center 345 kV WERE	Build 56.8 miles of new 345 kV
5 5	23WP 14WP	WERE WERE	WERE WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	104.4 100.9	4.42% 4.29%	CKT 1 SPP-WERE-85	latan - Jeffrey Energy Center 345 kV WERE latan - Jeffrey Energy Center 345 kV WERE	Build 56.8 miles of new 345 kV Build 56.8 miles of new 345 kV
5	14WP	WERE	WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	101.2	4.36%	SPP-AEPW-32 EAST MANHATTAN - JEFFREY ENERGY CENTER	latan - Jeffrey Energy Center 345 kV WERE	Build 56.8 miles of new 345 kV
5	14WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	101.5	4.04%	230KV CKT 1 AUBURN ROAD (AUBRN77X) 230/115/13.8KV	latan - Jeffrey Energy Center 345 kV WERE	Build 56.8 miles of new 345 kV
5 5	14WP 14WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	101.8	4.21% 3.82%	TRANSFORMER CKT 1 SJHALKNAIASC	latan - Jeffrey Energy Center 345 kV WERE latan - Jeffrey Energy Center 345 kV WERE	Build 56.8 miles of new 345 kV Build 56.8 miles of new 345 kV
5	14WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	114.6	5.43%	SWISSVALE - WEST GARDNER 345KV CKT 1 JEFFREY ENERGY CENTER - MORRIS COUNTY	latan - Jeffrey Energy Center 345 kV WERE latan - Jeffrey Energy Center 345 kV WERE	Build 56.8 miles of new 345 kV Build 56.8 miles of new 345 kV
5	14WP 14WP		WERE WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	114.7 115.1	3.75% 4.47%	345KV CKT 1 AUBURN ROAD - JEFFREY ENERGY CENTER 230KV CKT 1	latan - Jeffrey Energy Center 345 kV WERE	Build 56.8 miles of new 345 kV
5	23WP		WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	102.9	3.68%	JEFFREY ENERGY CENTER - MORRIS COUNTY 345KV CKT 1	latan - Jeffrey Energy Center 345 kV WERE	Build 56.8 miles of new 345 kV
5 5	14WP 23WP	WERE	WERE OKGE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	103.7 112.8	4.24% 10.16%	LACYGNE - STILWELL 345KV CKT 1 LACYGNE - WEST GARDNER 345KV CKT 1	latan - Jeffrey Energy Center 345 kV WERE Arkansas Nuclear One 500/345 Transformer	Build 56.8 miles of new 345 kV Build 500/345 kV Transformer at ANO
5 5	23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	122.8 122.8	10.14% 12.62%	SPP-AEPW-01	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5 5	23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	116.2 114.3	10.51% 10.20%	AI03 LACYGNE - STILWELL 345KV CKT 1	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5	23WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	113.9	10.19%	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 15TH & FULTON TAP - TULSA SOUTHEAST 138KV	Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO
5 5	23WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	112.9 108.7	10.15% 8.33%	CKT 1 HOYT - STRANGER CREEK 345KV CKT 1	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5 5	23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	112.4 111.7	10.16% 10.15%	MCCREDIE - THOMAS HILL 345KV CKT 1 BASE CASE	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5	23WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	111.1	10.18%	ROSE HILL - WOLF CREEK 345KV CKT 1 DOLET HILLS - SOUTHWEST SHREVEPORT 345KV	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5	23WP 23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	110.0 109.5 123.4	9.85% 10.16% 10.15%	CKT 1 LACYGNE - NEOSHO 345KV CKT 1 GEN335831 1-RIVERBEND UNIT#1	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5	23WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	113.4 111.0	10.19% 8.47%	HOYT - STRANGER CREEK 345KV CKT 1 OVERTON-TRF	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5 5	14WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	119.1 119.0	8.29% 10.56%	GEN336821 1-GRAND GULF UNIT PITTSBURG - VALLIANT 345KV CKT 1	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5 5	14WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	117.8 107.8	8.29% 8.30%	OKLAUN - OKLAUNION 345KV CKT 1 LACYGNE - WEST GARDNER 345KV CKT 1	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5 5	14WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	115.9 124.6	10.18% 10.15%	SPP-AEPW-01 GEN336153 1-WATERFORD UNIT#3	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5	14WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	109.7	8.33%	LACYGNE - STILWELL 345KV CKT 1 15TH & FULTON TAP - TULSA SOUTHEAST 138KV	Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO
5 5	14WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	107.8 106.7	8.29% 8.29%	CKT 1 BASE CASE	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5	14WP 14WP		OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	106.1 105.0	8.33% 8.05%	ROSE HILL - WOLF CREEK 345KV CKT 1 DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5	14WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	104.7 117.7	8.27% 8.29%	LACYGNE - NEOSHO 345KV CKT 1 SPP-AEPW-32	Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO Build 500/345 kV Transformer at ANO
5	23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	112.8 122.8	10.16% 10.14%	LACYGNE - WEST GARDNER 345KV CKT 1 SPP-AEPW-32	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5	23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	122.8 116.2	12.62% 10.51%	SPP-AEPW-01 AI03	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5	23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	114.3 113.9	10.20%	LACYGNE - STILWELL 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5	23WP	OKGE	OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	112.9	10.15%	15TH & FULTON TAP - TULSA SOUTHEAST 138KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5 5	14WP 23WP	OKGE OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	108.7 112.4	8.33% 10.16%	HOYT - STRANGER CREEK 345KV CKT 1 MCCREDIE - THOMAS HILL 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5 5	23WP 23WP		OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	111.7 111.1	10.15% 10.18%	BASE CASE ROSE HILL - WOLF CREEK 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5	23WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	110.0	9.85%	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1 LACYCNE NEOSHO 346KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5 5	23WP 23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	109.5 123.4 113.4	10.16% 10.15% 10.19%	LACYGNE - NEOSHO 345KV CKT 1 GEN335831 1-RIVERBEND UNIT#1 HOYT - STRANGER CREEK 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5 5 5	14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	113.4 111.0 119.1	10.19% 8.47% 8.29%	OVERTON-TRF GEN336821 1-GRAND GULF UNIT	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5 5	14WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	119.1 119.0 117.8	8.29% 10.56% 8.29%	PITTSBURG - VALLIANT 345KV CKT 1 OKLAUN - OKLAUNION 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5 5	14WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	107.8 115.9	8.30% 10.18%	LACYGNE - WEST GARDNER 345KV CKT 1 SPP-AEPW-01	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5 5	23WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	124.6 109.7	10.15% 8.33%	GEN336153 1-WATERFORD UNIT#3 LACYGNE - STILWELL 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5	14WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	107.8	8.29%	15TH & FULTON TAP - TULSA SOUTHEAST 138KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5 5	14WP 14WP		OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	106.7 106.1	8.29% 8.33%	BASE CASE ROSE HILL - WOLF CREEK 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5	14WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	105.0	8.05%	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5 5	14WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 ET SMITH - MUSKOGEE 345KV CKT 1	104.7 117.7	8.27% 8.29%	LACYGNE - NEOSHO 345KV CKT 1 SPP-AEPW-32 LACYGNE - WEST GARDNER 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI VBI - Arkansas Nuclear One 345kV EES	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line Indeterminate
5 5	23WP 23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	112.8 122.8 122.8	10.16% 10.14% 12.62%	LACYGNE - WEST GARDNER 345KV CKT 1 SPP-AEPW-32 SPP-AEPW-01	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate Indeterminate
5 5	23WP 23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	122.8 116.2 114.3	12.62% 10.51% 10.20%	AI03 LACYGNE - STILWELL 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate Indeterminate Indeterminate
5	23WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	113.9	10.20%	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1 15TH & FULTON TAP - TULSA SOUTHEAST 138KV	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate
<u>5</u> 5	23WP 14WP		OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	112.9 108.7	10.15% 8.33%	CKT 1 HOYT - STRANGER CREEK 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate
5 5	23WP 23WP	OKGE OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	112.4 111.7	10.16% 10.15%	MCCREDIE - THOMAS HILL 345KV CKT 1 BASE CASE	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate
5	23WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	111.1	10.18%	ROSE HILL - WOLF CREEK 345KV CKT 1 DOLET HILLS - SOUTHWEST SHREVEPORT 345KV	VBI - Arkansas Nuclear One 345kV EES	Indeterminate
5 5	23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	110.0 109.5	9.85% 10.16%	CKT 1 LACYGNE - NEOSHO 345KV CKT 1 CEN325931 4 DIVERDEND LINE#4	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate
5 5	23WP 23WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	123.4 113.4	10.15% 10.19%	GEN335831 1-RIVERBEND UNIT#1 HOYT - STRANGER CREEK 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate Indeterminate
5 5	14WP 14WP 14WP	OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	111.0 119.1 119.0	8.47% 8.29% 10.56%	OVERTON-TRF GEN336821 1-GRAND GULF UNIT PITTSBURG - VALLIANT 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate Indeterminate Indeterminate
5	14WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	117.8	8.29%	OKLAUN - OKLAUNION 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate



<u>5</u>	14WP 14WP	OKGE OKGE		FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	107.8 115.9	8.30% 10.18%	LACYGNE - WEST GARDNER 345KV CKT 1 SPP-AEPW-01	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate
5 5	23WP 14WP	OKGE OKGE	OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	124.6 109.7	10.15% 8.33%	GEN336153 1-WATERFORD UNIT#3 LACYGNE - STILWELL 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate
5	14WP 14WP	OKGE OKGE		FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	107.8 106.7	8.29% 8.29%	15TH & FULTON TAP - TULSA SOUTHEAST 138KV CKT 1 BASE CASE	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate
5		OKGE		FT SMITH - MUSKOGEE 345KV CKT 1	106.1	8.33%	ROSE HILL - WOLF CREEK 345KV CKT 1 DOLET HILLS - SOUTHWEST SHREVEPORT 345KV	VBI - Arkansas Nuclear One 345kV EES	Indeterminate
5 5	14WP 14WP	OKGE OKGE	OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	105.0 104.7	8.05% 8.27%	CKT 1 LACYGNE - NEOSHO 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate Indeterminate
5 5	14WP 23WP	OKGE		FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	117.7	8.29% 10.16%	SPP-AEPW-32 LACYGNE - WEST GARDNER 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV OKGE	Indeterminate Build 73 miles of 345kV line
5	23WP 23WP	OKGE OKGE	OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	122.8 122.8	10.14% 12.62%	SPP-AEPW-01	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line Build 73 miles of 345kV line
5	23WP 23WP 23WP	OKGE OKGE	OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	116.2 114.3 113.9	10.51% 10.20% 10.19%	AI03 LACYGNE - STILWELL 345KV CKT 1 HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line Build 73 miles of 345kV line
5	23WP	OKGE		FT SMITH - MUSKOGEE 345KV CKT 1	112.9	10.15%	15TH & FULTON TAP - TULSA SOUTHEAST 138KV	VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line
5 5	14WP 23WP	OKGE OKGE	OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	108.7	8.33% 10.16%	HOYT - STRANGER CREEK 345KV CKT 1 MCCREDIE - THOMAS HILL 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line
5 5	23WP 23WP	OKGE OKGE		FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	111.7 111.1	10.15% 10.18%	BASE CASE ROSE HILL - WOLF CREEK 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line
5	23WP	OKGE		FT SMITH - MUSKOGEE 345KV CKT 1	110.0	9.85%	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line
5	23WP 23WP 23WP	OKGE OKGE	OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	109.5 123.4 113.4	10.16% 10.15% 10.19%	LACYGNE - NEOSHO 345KV CKT 1 GEN335831 1-RIVERBEND UNIT#1 HOYT - STRANGER CREEK 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line Build 73 miles of 345kV line
5	14WP	OKGE OKGE	OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	111.0 119.1	8.47% 8.29%	OVERTON-TRF GEN336821 1-GRAND GULF UNIT	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line Build 73 miles of 345kV line
5		OKGE OKGE	OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	119.0 117.8	10.56% 8.29%	PITTSBURG - VALLIANT 345KV CKT 1 OKLAUN - OKLAUNION 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line
5 5	14WP 14WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	107.8 115.9	8.30% 10.18%	LACYGNE - WEST GARDNER 345KV CKT 1 SPP-AEPW-01	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line
5 5	23WP 14WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	124.6 109.7	10.15% 8.33%	GEN336153 1-WATERFORD UNIT#3 LACYGNE - STILWELL 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line
5	14WP	OKGE		FT SMITH - MUSKOGEE 345KV CKT 1	107.8	8.29%	15TH & FULTON TAP - TULSA SOUTHEAST 138KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line
5 5	14WP 14WP	OKGE OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	106.7 106.1	8.29% 8.33%	BASE CASE ROSE HILL - WOLF CREEK 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line
5	14WP 14WP	OKGE OKGE	OKGE OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	105.0 104.7	8.05% 8.27%	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1 LACYGNE - NEOSHO 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line
5	14WP 14WP		OKGE	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	104.7 117.7	8.27% 8.29%	SPP-AEPW-32	VBI - Arkansas Nuclear One 345kV OKGE VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line Build 73 miles of 345kV line
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	111.7	3.48%	HOYT - STRANGER CREEK 345KV CKT 1 CHERRYC3 345.00 - GERALD GENTLEMAN	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles
5	23WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	107.8	3.19%	STATION 345KV CKT 1	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles
5	23WP	NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1	110.7	3.72%	AXTELL - PAULINE 345KV CKT 1	Cherry Co., Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles
5	14WP	NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1	107.2	3.34%	LACYGNE - NEOSHO 345KV CKT 1	Cherry Co - Gentleman 345 kV Ckt1 Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles
5	14WP 14WP	NPPD NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1 GRAND ISLAND - SWEETWATER 345KV CKT 1	107.9 108.6	3.38%	BASE CASE LACYGNE - WEST GARDNER 345KV CKT 1	Cherry Co - Gentleman 345 kV Ckt1 Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles
5	14WP	NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1	109.2	3.38%	NORTH PLATTE 115/34.5KV TRANSFORMER CKT 1	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles
5	14WP	NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1	139.6	4.71%	AXTELL - PAULINE 345KV CKT 1	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	111.5	3.61%	SPP-AEPW-32	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	128.2	4.22%	MOORE - PAULINE 345KV CKT 1 CHERRYC3 345.00 - HOLT.CO3 345.00 345KV CKT	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles
5	23WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	107.2	3.19%	1	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles
5	14WP	NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1	110.0	3.43%	LN-1090	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation (Estimated 146 miles).
5	14WP 23WP	NPPD NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1 GRAND ISLAND - SWEETWATER 345KV CKT 1	111.7 107.8	3.48%	HOYT - STRANGER CREEK 345KV CKT 1 CHERRYC3 345.00 - GERALD GENTLEMAN STATION 345KV CKT 1	Cherry Co - Holt Co 345 kV Ckt1 Cherry Co - Holt Co 345 kV Ckt1	Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation (Estimated 146 miles).
5	23WP	NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1	110.7	3.72%	AXTELL - PAULINE 345KV CKT 1	Cherry Co - Holt Co 345 kV Ckt1	Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation (Estimated 146 miles).
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	107.2	3.34%	LACYGNE - NEOSHO 345KV CKT 1	Cherry Co - Holt Co 345 kV Ckt1	Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation (Estimated 146 miles).
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	107.9	3.38%	BASE CASE	Cherry Co - Holt Co 345 kV Ckt1	Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation (Estimated 146 miles). Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	108.6	3.37%	LACYGNE - WEST GARDNER 345KV CKT 1	Cherry Co - Holt Co 345 kV Ckt1	(Estimated 146 miles). Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation
5	14WP 14WP	NPPD NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1 GRAND ISLAND - SWEETWATER 345KV CKT 1	109.2 139.6	3.38% 4.71%	NORTH PLATTE 115/34.5KV TRANSFORMER CKT 1 AXTELL - PAULINE 345KV CKT 1	Cherry Co - Holt Co 345 kV Ckt1 Cherry Co - Holt Co 345 kV Ckt1	(Estimated 146 miles). Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation (Estimated 146 miles).
5	14WP	NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1	111.5	3.61%	SPP-AEPW-32	Cherry Co - Holt Co 345 kV Ckt1	Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation (Estimated 146 miles).
5	14WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	128.2	4.22%	MOORE - PAULINE 345KV CKT 1	Cherry Co - Holt Co 345 kV Ckt1	Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation (Estimated 146 miles).
5	23WP	NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1	107.2	3.19%	CHERRYC3 345.00 - HOLT.CO3 345.00 345KV CKT	Cherry Co - Holt Co 345 kV Ckt1	Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation (Estimated 146 miles). Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation
<u>5</u>	14WP 14WP	NPPD NPPD	NPPD NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1 GRAND ISLAND - SWEETWATER 345KV CKT 1	110.0 111.7	3.43% 3.48%	LN-1090 HOYT - STRANGER CREEK 345KV CKT 1	Cherry Co - Holt Co 345 kV Ckt1 Cherry Co 345 kV Terminal Upgrades	(Estimated 146 miles). Build new Cherry County 345 kV Substation.
5	23WP	NPPD		GRAND ISLAND - SWEETWATER 345KV CKT 1	107.8	3.19%	CHERRYC3 345.00 - GERALD GENTLEMAN STATION 345KV CKT 1	Cherry Co 345 kV Terminal Upgrades	Build new Cherry County 345 kV Substation.
5 5	23WP 14WP 14WP	NPPD NPPD NPPD	NPPD NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1 GRAND ISLAND - SWEETWATER 345KV CKT 1 GRAND ISLAND - SWEETWATER 345KV CKT 1	110.7 107.2 107.9	3.72% 3.34%	AXTELL - PAULINE 345KV CKT 1 LACYGNE - NEOSHO 345KV CKT 1 BASE CASE	Cherry Co 345 kV Terminal Upgrades Cherry Co 345 kV Terminal Upgrades Cherry Co 345 kV Terminal Upgrades	Build new Cherry County 345 kV Substation. Build new Cherry County 345 kV Substation. Build new Cherry County 345 kV Substation.
5	14WP 14WP		NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1 GRAND ISLAND - SWEETWATER 345KV CKT 1	107.9	3.38% 3.37%	LACYGNE - WEST GARDNER 345KV CKT 1	Cherry Co 345 kV Terminal Opgrades Cherry Co 345 kV Terminal Upgrades	Build new Cherry County 345 kV Substation. Build new Cherry County 345 kV Substation.
5 5	14WP 14WP	NPPD NPPD	NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1 GRAND ISLAND - SWEETWATER 345KV CKT 1	109.2 139.6	4.71%	NORTH PLATTE 115/34.5KV TRANSFORMER CKT 1 AXTELL - PAULINE 345KV CKT 1	Cherry Co 345 kV Terminal Upgrades Cherry Co 345 kV Terminal Upgrades	Build new Cherry County 345 kV Substation. Build new Cherry County 345 kV Substation.
5 5	14WP 14WP	NPPD NPPD	NPPD NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1 GRAND ISLAND - SWEETWATER 345KV CKT 1	111.5 128.2	3.61% 4.22%	SPP-AEPW-32 MOORE - PAULINE 345KV CKT 1	Cherry Co 345 kV Terminal Upgrades Cherry Co 345 kV Terminal Upgrades	Build new Cherry County 345 kV Substation. Build new Cherry County 345 kV Substation.
5	23WP 14WP	NPPD NPPD	NPPD NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 1 GRAND ISLAND - SWEETWATER 345KV CKT 1	107.2 110.0	3.19% 3.43%	CHERRYC3 345.00 - HOLT.CO3 345.00 345KV CKT 1 LN-1090	Cherry Co 345 kV Terminal Upgrades Cherry Co 345 kV Terminal Upgrades	Build new Cherry County 345 kV Substation. Build new Cherry County 345 kV Substation.
5	14WP	WERE		SWISSVALE - WEST GARDNER 345KV CKT 1	100.1	5.86%	87th STREET - CRAIG 345KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5	14WP	WERE	KCPL	SWISSVALE - WEST GARDNER 345KV CKT 1	111.7	6.89%	HOYT - STRANGER CREEK 345KV CKT 1	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield wire and substation work
5 5	14WP	WERE WERE	KCPL KCPL	SWISSVALE - WEST GARDNER 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1	100.1 111.7	5.86% 6.89%	87th STREET - CRAIG 345KV CKT 1 HOYT - STRANGER CREEK 345KV CKT 1	latan - Jeffrey Energy Center 345 kV WERE latan - Jeffrey Energy Center 345 kV WERE	Build 56.8 miles of new 345 kV Build 56.8 miles of new 345 kV
5 5	14WP	WERE	KCPL	SWISSVALE - WEST GARDNER 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1	100.1	5.86% 6.89%	87th STREET - CRAIG 345KV CKT 1 HOYT - STRANGER CREEK 345KV CKT 1	Lacygne - Mariosa 345KV AMRN Lacygne - Mariosa 345KV AMRN	Indeterminate Indeterminate
5 5	14WP 14WP	WERE WERE	KCPL	SWISSVALE - WEST GARDNER 345KV CKT 1 SWISSVALE - WEST GARDNER 345KV CKT 1 WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT	100.1 111.7	5.86% 6.89%	87th STREET - CRAIG 345KV CKT 1 HOYT - STRANGER CREEK 345KV CKT 1	Lacygne - Mariosa 345KV KACP Lacygne - Mariosa 345KV KACP	Build approximately 181 miles of 345kV from KCPL Lacygne - AMRN Mariosa Build approximately 181 miles of 345kV from KCPL Lacygne - AMRN Mariosa
5	23WP	WERE	WERE	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1 WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT	106.7	3.11%	BENTON - WICHITA 345KV CKT 1	Viola - Clearwater 138kV Ckt1	Build new 138kV line between new Viola substation 345/138 kV transformer and existing Clearwater 138 kV substation
5	14WP		WERE	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT	110.5	4.70%	BENTON - WICHITA 345KV CKT 1	Viola - Clearwater 138kV Ckt1	Build new 138kV line between new Viola substation 345/138 kV transformer and existing Clearwater 138 kV substation
5	23WP	WERE		1 WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT	106.7	3.11%	BENTON - WICHITA 345KV CKT 1	Viola - Gill 138kV Ckt1	Build new 138kV line between new Viola substation 345/138 kV transformer and existing Gill 138 kV substation.
5	14WP 23WP	WERE WERE		1 WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT	110.5 106.7	4.70% 3.11%	BENTON - WICHITA 345KV CKT 1 BENTON - WICHITA 345KV CKT 1	Viola - Gill 138kV Ckt1 Viola - Rose Hill 345 kV	Build new 138kV line between new Viola substation 345/138 kV transformer and existing Gill 138 kV substation. Build new 35 mile line from Viola to Rose Hill 345 kV
5 5	23WP 14WP		WERE	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT	106.7 110.5	3.11% 4.70%	BENTON - WICHITA 345KV CKT 1 BENTON - WICHITA 345KV CKT 1	Viola - Rose Hill 345 kV Viola - Rose Hill 345 kV	Build new 35 mile line from Viola to Rose Hill 345 kV Build new 35 mile line from Viola to Rose Hill 345 kV
5	23WP			LYDIA - VALLIANT 345KV CKT 1	104.8	44.26%	NORTHWEST TEXARKANA - VALLIANT 345KV CKT 1	ADABELL - VBI 161KV CKT 1	Replace existing 800 amp wave trap with 1200 amp in VBI sub
F	23WP		AEPW	LYDIA - VALLIANT 345KV CKT 1	104.8		NORTHWEST TEXARKANA - VALLIANT 345KV CKT 1	Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO
<u> </u>	23WP	AEPW	AEPW	LYDIA - VALLIANT 345KV CKT 1	104.8	44.26%	NORTHWEST TEXARKANA - VALLIANT 345KV CKT 1	Lacygne - Mariosa 345KV AMRN	Indeterminate
5		AEPW	AEPW	LYDIA - VALLIANT 345KV CKT 1	104.8	44.26%	NORTHWEST TEXARKANA - VALLIANT 345KV CKT 1	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line
5 5 5	23WP			LVBIA VALUANT SATINA OKT A	104.8	44.26%	NORTHWEST TEXARKANA - VALLIANT 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES	Indeterminate
5 5 5	23WP	AEPW	AEPW	LYDIA - VALLIANT 345KV CKT 1	104.0	0,	<u>'</u>		
5 5 5 5		AEPW SWPA	AEPW SWPA	LYDIA - VALLIANT 345KV CKT 1 LYDIA - VALLIANT 345KV CKT 1 GORE - MUSKOGEE TAP 161KV CKT 1	104.8		NORTHWEST TEXARKANA - VALLIANT 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE ADABELL - VBI 161KV CKT 1	Build 73 miles of 345kV line Replace existing 800 amp wave trap with 1200 amp in VBI sub
5 5 5 5 5 5 5	23WP 23WP 23WP 23WP 23WP	AEPW SWPA GRDA OKGE	AEPW SWPA OKGE OKGE	LYDIA - VALLIANT 345KV CKT 1 GORE - MUSKOGEE TAP 161KV CKT 1 HIGHWAY 59 - TAHLEQUAH 161KV CKT 1 HIGHWAY 59 - VBI 161KV CKT 1	104.8 111.2 119.4 127.3	44.26% 3.04% 3.24% 3.24%	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	ADABELL - VBI 161KV CKT 1 ADABELL - VBI 161KV CKT 1 ADABELL - VBI 161KV CKT 1	Replace existing 800 amp wave trap with 1200 amp in VBI sub Replace existing 800 amp wave trap with 1200 amp in VBI sub Replace existing 800 amp wave trap with 1200 amp in VBI sub
5 5 5 5 5 5 5 5 5	23WP 23WP 23WP 23WP	AEPW SWPA GRDA OKGE SWPA SWPA	AEPW SWPA OKGE OKGE	LYDIA - VALLIANT 345KV CKT 1 GORE - MUSKOGEE TAP 161KV CKT 1 HIGHWAY 59 - TAHLEQUAH 161KV CKT 1	104.8 111.2 119.4	44.26% 3.04% 3.24%	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	ADABELL - VBI 161KV CKT 1 ADABELL - VBI 161KV CKT 1	Replace existing 800 amp wave trap with 1200 amp in VBI sub Replace existing 800 amp wave trap with 1200 amp in VBI sub



	23WP	SWPA	OKGE	VAN BUREN - VBI 161KV CKT 1	101.3	4.03%	FT SMITH - MUSKOGEE 345KV CKT 1	Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO
<u> </u>	23WP		SWPA	GORE - MUSKOGEE TAP 161KV CKT 1	111.2	3.04%	FT SMITH - MUSKOGEE 345KV CKT 1 FT SMITH - MUSKOGEE 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES	Indeterminate
<u> </u>	23WP	GRDA			111.2			VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate
5			OKGE	HIGHWAY 59 - TAHLEQUAH 161KV CKT 1		3.24%	FT SMITH - MUSKOGEE 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES VBI - Arkansas Nuclear One 345kV EES	Indeterminate
5	23WP	OKGE	OKGE	HIGHWAY 59 - VBI 161KV CKT 1	127.3	3.24%	FT SMITH - MUSKOGEE 345KV CKT 1		Indeterminate
5	23WP	SWPA	OKGE	VAN BUREN - VBI 161KV CKT 1	101.3	4.03%	FT SMITH - MUSKOGEE 345KV CKT 1	VBI - Arkansas Nuclear One 345kV EES	
5	23WP	SWPA	SWPA	GORE - MUSKOGEE TAP 161KV CKT 1	111.2	3.04%	FT SMITH - MUSKOGEE 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line
5	23WP	GRDA	OKGE	HIGHWAY 59 - TAHLEQUAH 161KV CKT 1	119.4	3.24%	FT SMITH - MUSKOGEE 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line
5	23WP	OKGE	OKGE	HIGHWAY 59 - VBI 161KV CKT 1	127.3	3.24%	FT SMITH - MUSKOGEE 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line
5	23WP	SWPA	OKGE	VAN BUREN - VBI 161KV CKT 1	101.3	4.03%	FT SMITH - MUSKOGEE 345KV CKT 1	VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line
5	14WP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	105.2	5.11%	CEDARDALE - OKEENE 138KV CKT 1	Cimarron - Mathewson 345 kV Ckt 1 Accelerate	Build new 16 mile 345 kV line from Mathweson to Cimarron.
5	14WP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	105.5	5.11%	CEDARDALE - MOORELAND 138KV CKT 1	Cimarron - Mathewson 345 kV Ckt 1 Accelerate	Build new 16 mile 345 kV line from Mathweson to Cimarron.
5	14WP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	107.1	5.29%	KNOBHILL - MOORELAND 138KV CKT 1	Cimarron - Mathewson 345 kV Ckt 1 Accelerate	Build new 16 mile 345 kV line from Mathweson to Cimarron.
5	14WP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	105.2	5.11%	CEDARDALE - OKEENE 138KV CKT 1	Mathewson - Tatonga 345 kV Ckt 2 Accelerate	Build new 61 mile Tatonga - Mathewson 345 kV line.
5	14WP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	105.5	5.11%	CEDARDALE - MOORELAND 138KV CKT 1	Mathewson - Tatonga 345 kV Ckt 2 Accelerate	Build new 61 mile Tatonga - Mathewson 345 kV line.
5	14WP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	107.1	5.29%	KNOBHILL - MOORELAND 138KV CKT 1	Mathewson - Tatonga 345 kV Ckt 2 Accelerate	Build new 61 mile Tatonga - Mathewson 345 kV line.
	14WP				105.2	5.11%	CEDARDALE - OKEENE 138KV CKT 1	Mathewson 345 kV Accelerate	Build new Mathewson 345 kV substation at the intersection of the Woodring-Cimarron and the existing Northwest - Tatonga 345 kV lines.
5	14VVP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	105.2	5.11%	CEDARDALE - OKEENE 138KV CKT 1	Watnewson 345 kV Accelerate	Ų.
5	14WP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	105.5	5.11%	CEDARDALE - MOORELAND 138KV CKT 1	Mathewson 345 kV Accelerate	Build new Mathewson 345 kV substation at the intersection of the Woodring-Cimarron and the existing Northwest - Tatonga 345 kV lines.
5	14WP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	107.1	5.29%	KNOBHILL - MOORELAND 138KV CKT 1	Mathewson 345 kV Accelerate	Build new Mathewson 345 kV substation at the intersection of the Woodring-Cimarron and the existing Northwest - Tatonga 345 kV lines.
5	14WP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	105.2	5.11%	CEDARDALE - OKEENE 138KV CKT 1	Tatonga - Woodward EHV 345 kV Ckt 2 Accelerate	Build new 49-mile Woodward EHV - Tatonga 345 kV Ckt 2 line.
5	14WP	WFEC	OKGE	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	105.5	5.11%	CEDARDALE - MOORELAND 138KV CKT 1	Tatonga - Woodward EHV 345 kV Ckt 2 Accelerate	Build new 49-mile Woodward EHV - Tatonga 345 kV Ckt 2 line.
5	14WP			GLASS MOUNTAIN - MOORELAND 138KV CKT 1	107.1	5.29%	KNOBHILL - MOORELAND 138KV CKT 1	Tatonga - Woodward EHV 345 kV Ckt 2 Accelerate	Build new 49-mile Woodward EHV - Tatonga 345 kV Ckt 2 line.

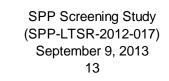


Table 2- SPP Facility Voltage Transfer Limitations

Scenario	Season	Area	Monitored Bus with Violation	Transfer Case Voltage (PU)	Outaged Branch Causing Overload	Upgrade Name	Solution

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
OKGE	HUNTERS7 345.00 - WOODRING 345KV CKT 1	Rebuild 20.38 miles of line	10/1/2014	10/1/2017	\$27,442,571

Construction Pending Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)		Estimated Engineering & Construction Cost	
AEPW	GRACEMONT - LAWTON EASTSIDE 345KV CKT 1 Accelerate	Replace Terminal Equipment	10/1/2015	6/1/2016	\$	305,000	
AMRN	Lacygne - Mariosa 345KV AMRN	Indeterminate	10/1/2014	6/1/2019			
EES	Arkansas Nuclear One 500/345 Transformer	Build 500/345 kV Transformer at ANO	10/1/2014	6/1/2019	\$	12,000,000	
EES	VBI - Arkansas Nuclear One 345kV EES	Indeterminate	10/1/2014	6/1/2019			
GRDA	GRDA1 - SILOAM SPRINGS TAP 345KV CKT 1 #2	Replace Terminal Equipment	6/1/2019	6/1/2019	\$	3,300,000	
KACP	latan - Jeffrey Energy Center 345 kV KACP	Build 14.2 miles of new 345 kV	10/1/2014	6/1/2019	\$	14,089,880	
KACP	Lacygne - Mariosa 345KV KACP	Build approximately 181 miles of 345kV from KCPL Lacygne - AMRN Mariosa	10/1/2014	6/1/2019	\$	275,120,000	
NPPD	GRAND ISLAND - SWEETWATER 345KV CKT 2	Build 63.4 mile second circuit	10/1/2014	6/1/2019	\$	96,288,750	
OKGE	ADABELL - VBI 161KV CKT 1	Replace existing 800 amp wave trap with 1200 amp in VBI sub	10/1/2014	6/1/2016	\$	150,000	
OKGE	CIMARRON - DRAPER LAKE 345KV CKT 1	Increase capacity of Draper Lake CT and Cimarron wave trap	10/1/2015	6/1/2016	\$	150,000	
OKGE	Cimarron - Mathewson 345 kV Ckt 1 Accelerate	Build new 16 mile 345 kV line from Mathweson to Cimarron.	10/1/2014	6/1/2015	\$	32,780,617	
OKGE	FT SMITH (FTSMITH1) 500/345/13.8KV TRANSFORMER CKT 1	Install 2nd 500/345 kV bus tie in Ft. Smith Sub	10/1/2014	6/1/2018	\$	14,500,000	
OKGE	FT SMITH - MUSKOGEE 345KV CKT 1	Upgrade Ft. Smith 345 kV breakers and switches to 2000 amps	6/1/2019	6/1/2019	\$	1,800,000	
OKGE	Mathewson - Tatonga 345 kV Ckt 2 Accelerate	Build new 61 mile Tatonga - Mathewson 345 kV line.	10/1/2014	6/1/2015	\$	82,139,900	
		Build new Mathewson 345 kV substation at the intersection of the Woodring-Cimarron and the		- / / /			
OKGE	Mathewson 345 kV Accelerate	existing Northwest - Tatonga 345 kV lines.	10/1/2014	6/1/2015	\$\$	20,169,602	
OKGE	Muskogee - VBI 345 kV with 345/161 kV bus tie near VBI	Build 70.95 mile 345 kV line plus two new 345/161 kV bus ties near VBI sub and 10 miles of 161 kV line	10/1/2014	6/1/2019	\$	129,000,000	
OKGE	Tatonga - Woodward EHV 345 kV Ckt 2 Accelerate	Build new 49-mile Woodward EHV - Tatonga 345 kV Ckt 2 line.	10/1/2014	6/1/2015	\$	71,876,622	
OKGE	VBI - Arkansas Nuclear One 345kV OKGE	Build 73 miles of 345kV line	6/1/2014	6/1/2019	\$	119,355,000	
SPS	Potter to Tolk 345 kV	Build 111 mile 345 kV line from Potter to Tolk. Further study analysis will be performed with regard to the SPS North-South Stability Limit to determine whether its rating may be increased based on approved SPP Expansion Plan Network Upgrades scheduled t	10/1/2014	12/31/2018	\$	168,852,765	
0.0	Token to Toke 10 KV	Rebuild the JEC - Hoyt 345kV line as a single circuit with new conductor, poles, and shield	10/1/2011	12/01/2010	 	100,002,700	
WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	wire and substation work	10/1/2014	6/1/2018	\$	49,623,119	
WERE	latan - Jeffrey Energy Center 345 kV WERE	Build 56.8 miles of new 345 kV	10/1/2014	6/1/2019	\$	128,776,067	
WERE	Viola - Rose Hill 345 kV	Build new 35 mile line from Viola to Rose Hill 345 kV	10/1/2014	6/1/2019	\$	68,950,000	
WFEC	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	Reset CT	10/1/2015	10/1/2015	\$	40,50	
WFEC	SOUTHWESTERN STATION - WASHITA 138KV CKT 2	Add Second 138 kV line	10/1/2015	6/1/2017	\$	2,260,00	

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
		Build a new 86 mile double circuit 345 kV line with at least 3000 A capacity from the Thistle		
TCGP	Line - Clark County - Thistle 345 kV dbl Ckt	345 kV substation to the new Clark County substation. Build a new 345 kV substation at	6/1/2015	1/1/2015
		Build a new 36 mile double circuit 345 kV line with at least 3000 A capacity from the Spearville		
TCGP	Line - Spearville - Clark County 345 kV dbl Ckt	substation to the new Clark County substation. Build the Clark County 345 kV substation with	10/1/2014	1/1/2015
TCGP	XFR - Thistle 345/138 kV	Install a 400 MVA 345/138 kV transformer at the new 345 kV Thistle substation.	10/1/2014	1/1/2015
		Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the		
OKGE	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	Woodward District EHV substation to the SPS interception from the Hitchland substation.	10/1/2014	7/1/2014
		Build a new 79 mile double circuit 345 kV line with at least 3000 A capacity from the		
OKGE	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	Woodward District EHV substation to the Kansas/Oklahoma state border towards the Thistle	10/1/2014	1/1/2015
		Build new 345 kV line from Woodward EHV to Border - Project costs now include Border		
OKGE	Line - Tuco - Woodward 345 kV line OKGE	reactor substation	10/1/2014	6/1/2014
		Build a new 78 mile double circuit 345 kV line with at least 3000 A capacity from the Wichita		
ΡW	Line - Thistle - Wichita 345 kV dbl Ckt PW	substation to the new Thistle 345 kV substation.	10/1/2014	1/1/2015
		Build a new 30 mile double circuit 345 kV line with at least 3000 A capacity from the Thistle		
νW	Line - Thistle - Woodward 345 kV dbl Ckt PW	substation to the Kansas/Oklahoma state border towards the Woodward District EHV	10/1/2014	1/1/2015
		Build 30 mile double circuit 345 kV line with at least 3000 A capacity from the Hitchland		
SPS	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	substation to the OGE interception point from the Woodward District EHV substation. Upgrade	10/1/2014	7/1/2014
		Build new 345 kV line from Tuco to OGE Border station near TX/OK Stateline. Install line		
SPS	Line - Tuco - Woodward 345 kV line SPS	reactor outside Border station and line reactors at Tuco.	10/1/2014	6/1/2014
		Upgrade the Wichita substation with the necessary breakers and terminal equipment to		
VERE	Line - Thistle - Wichita 345 kV dbl Ckt WERE	accommodate two new 345 kV circuits from the new Thistle 345 kV substation	10/1/2014	1/1/2015

Reliability Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
		Expand Elk City substation (or build new station). Install a 345/230 kV 675 MVA transformer at		
AEPW	Elk City 345/230 kV	Elk City.	10/1/2014	3/1/2018
AEPW	Elk City to Gracemont 345kV AEPW	Build new 46.5 mile 345 kV line from Elk City to Gracemont (AEP portion).	10/1/2014	3/1/2018
		Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County		
NPPD	Cherry Co - Gentleman 345 kV Ckt1	345 kV Substation (76 miles).	10/1/2014	1/1/2018
		Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345		
NPPD	Cherry Co - Holt Co 345 kV Ckt1	kV Holt County Substation. (Estimated 146 miles).	10/1/2014	1/1/2018
NPPD	Cherry Co 345 kV Terminal Upgrades	Build new Cherry County 345 kV Substation.	10/1/2014	1/1/2018
OKGE	Elk City to Gracemont 345kV OKGE	Build new 46.5 mile 345 kV line from Elk City to Gracemont (OGE portion).	10/1/2014	3/1/2018
		Build new 138kV line between new Viola substation 345/138 kV transformer and existing		
WERE	Viola - Clearwater 138kV Ckt1	Clearwater 138 kV substation.	10/1/2014	6/1/2018
		Build new 138kV line between new Viola substation 345/138 kV transformer and existing Gill		
WERE	Viola - Gill 138kV Ckt1	138 kV substation.	10/1/2014	6/1/2018
WERE	Viola 345/138kV Transformer Ckt 1	Install new 345/138 kV transformer at Viola substation	10/1/2014	6/1/2018
WFEC	ELK CITY - RED HILLS WIND 138KV CKT 1	Upgrade Elk City to RHWIND4 TO 1113	10/1/2014	6/1/2016