



AGGREGATE FACILITIES STUDY

SPP-2015-AG2

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EXECUTIVE SUMMARY

This study report provides results for Southwest Power Pool, Inc. (SPP) Aggregate Transmission Service Study (ATSS) SPP-2015-AG2. Pursuant to Attachment Z1 of the SPP Open Access Transmission Tariff (OATT), 2,334 MW of long-term transmission service requests have been studied in this Aggregate Facilities Study (AFS).

The principal objective of the AFS is to identify system problems and potential modifications necessary to facilitate these transfers while maintaining or improving system reliability, as well as summarizing the operating limits and determination of the financial characteristics associated with facility upgrades. Facility upgrade costs are allocated on a prorated basis to all requests positively impacting any individual overloaded facility. The AFS determined that no engineering and construction (E&C) costs are assigned to Transmission Customers. Additionally, no third party facility upgrades are assigned to Transmission Customers. Total upgrade levelized revenue requirements for all transmission requests after consideration of potential base plan funding is \$0.

Transmission Customers (Customer) requesting service in this study specified five parameters under which they agreed to confirm service. The five parameters are:

1. Directly Assigned Upgrade Cost
2. Third-Party Upgrade Cost
3. Latest Deferred Start Date
4. Interim Re-dispatch Acceptance
5. Letter of Credit Amount

This final study report provides details and indicates for each request whether any of the five parameters were exceeded. The specific parameters defined by the Customer are confidential and will not be included in this report.

SPP will accept the requests in which the specified study parameters were met and will tender a Service Agreement for each of these requests identifying the terms and conditions of the confirmed service. SPP has refused all requests in which the parameters were exceeded.

All allocated revenue requirements for facility upgrades are assigned to the Customer in the AFS data tables. Potential base plan funding allowable is contingent upon validation of designated resources meeting Attachment J, Section III B criteria.

INTRODUCTION

All requests for long-term transmission service with a Completed Application received before December 1, 2015 have been included in this ATSS.

The results of the AFS are detailed in Tables 1 through 7. Detailed results depict individual upgrade costs by study and potential base plan allowances determined by Attachments J and Z1 of the SPP OATT.

To understand the extent to which Base Plan Upgrades may be applied to both Point-to-Point (PTP) and Network Integration Transmission Services (NITS), it is necessary to highlight the definition of Designated Resource. Per Section 1 of the SPP OATT, a Designated Resource is:

“Any designated generation resource owned, purchased or leased by a Transmission Customer to serve load in the SPP Region. Designated Resources do not include any resource, or any portion thereof, that is committed for sale to third parties or otherwise cannot be called upon to meet the Transmission Customer's load on a non-interruptible basis.”

Both NITS and PTP service have potential for base plan funding if the conditions for classifying upgrades associated with designated resources as Base Plan Upgrades as defined in Section III.B of Attachment J are met.

Pursuant to Attachment J, Section III.B of the SPP OATT, the Customer must provide SPP information necessary to verify that the new or changed Designated Resource meets the following conditions:

1. Customer's commitment to the requested new or changed Designated Resource must have duration of at least five years.
2. During the first year the Designated Resource is planned to be used by the Customer, the accredited capacity of the Customer's existing Designated Resources plus the lesser of:
 - a. The planned maximum net dependable capacity applicable to the Customer or
 - b. The requested capacity; shall not exceed 125% of the Customer's projected system peak responsibility determined pursuant to SPP Criteria 2.

According to Attachment Z1 Section V.A, PTP Customers pay the higher of the monthly transmission access charge (base rate) or the monthly revenue requirement associated with the directly assigned portion of the Service Upgrade, if any.

NITS Customers pay the total monthly transmission access charges and the monthly revenue requirement associated with the directly assigned portion of the Service Upgrade, if any.

Customers paying for a directly assigned Network Upgrade shall receive credits for new transmission service using the facility as specified in Attachment Z2.

Facilities identified as limiting the requested Transmission Service have been reviewed to determine the required in-service date of each Network Upgrade. Both previously assigned facilities and the facilities assigned to this request for Transmission Service were evaluated.

In some instances, due to lead times for engineering and construction, Network Upgrades may not be available when required to accommodate a request for Transmission Service. When this occurs, the ATC with available Network Upgrades will be less than the capacity requested during either a portion of or all of the requested reservation period. The ATC may be limited by transmission owner planned projects, expansion plan projects, or Customer assigned upgrades.

Some constraints identified in the AFS were not assigned to the Customer because SPP determined that upgrades are not required due to various reasons or the Transmission Owner has construction plans pending for these upgrades. These facilities are listed by reservation in Table 3. Table 6 lists possible generation pairs that could be used to allow start of service prior to completion of assigned Network Upgrades by utilizing interim re-dispatch. Table 7 lists the costs allocated per request for each Service Upgrade assigned in this AFS.

By taking the transmission service subject to interim redispatch, the Customer agrees to any limitations to Auction Revenue Rights that may result. In the absence of implementation of interim redispatch as requested by SPP for Customer transactions resulting in overloads on limiting facilities, SPP may curtail the Customer's schedule.

FINANCIAL ANALYSIS

The AFS utilizes the allocated Customer's E&C cost in a present worth analysis to determine the monthly levelized revenue requirement of each facility upgrade over the term of the reservation. In some cases, Network Upgrades cannot be completed within the requested reservation period, thus deferred reservation periods will be utilized in the present worth analysis. If the Customer chose Option 5, Use of Interim Redispatch, in Appendix 1 of the Aggregate Facilities Study Agreement, the present worth analysis of revenue requirements will be based on the deferred term with redispatch in the subsequent AFS. The upgrade levelized revenue requirement includes interest, depreciation, and carrying costs.

Each request for Transmission Service is evaluated independently as the cost associated with each Network Upgrade is assigned to a request. When facilities are upgraded throughout the reservation period, the Customer will pay the total E&C costs and other annual operating costs associated with the new facilities.

In the event that the engineering and construction of a previously assigned Network Upgrade may be accelerated, with no additional upgrades, to accommodate a new request for Transmission Service, the levelized present worth of only the incremental expenses though the reservation period of the new request, excluding depreciation, shall be assigned to the new request. These incremental expenses, excluding depreciation, include:

1. The levelized difference in present worth of the engineering and construction expenses given the change in date to complete construction to account for additional interest expense and reduced engineering and construction expense due to inflation,
2. The levelized present worth of all expediting fees, and
3. The levelized present worth of the incremental annual carrying charges, excluding depreciation and interest, during the new reservation period taking into account both:
 - a. The reservation in which the project was originally assigned, and
 - b. A reservation, if any, in which the project was previously accelerated.

In the case of a Base Plan Upgrade being deferred or displaced by an earlier in service date for a requested upgrade, the methodology for achievable base plan avoided revenue requirements shall be determined per Attachment J, Section VII.A or Section VII.B, respectively. A deferred Base Plan Upgrade is defined as a different requested Network Upgrade needed at an earlier date that negates the need for the initial Base Plan Upgrade within the planning horizon. A displaced Base Plan Upgrade is defined as the same Network Upgrade being displaced by a requested upgrade needed at an earlier date.

A 40-year service life assumption is utilized for Base Plan funded projects, unless another assumption is provided by the Transmission Owner. A present worth analysis of revenue

requirements on a common year basis between the Base Plan and Requested Upgrades was performed to determine avoided Base Plan revenue requirements due to the displacement or deferral of the Base Plan Upgrade by the Requested Upgrade. The difference in present worth between the Base Plan and Requested Upgrades is assigned to the transmission requests impacting this upgrade based on the displacement or deferral.

MAKE-WHOLE PAYMENT

Make-whole payment (MWP) is a potential cost that may be allocated to a Request in a completed AFS meeting the Study Completion Conditions but with unresolved third party impacts. For a Request with identified third party impact(s) where the Customer has not notified SPP of a successful conclusion to the third-party negotiation by the deadline described in Section III.D.2 of Attachment Z1 in the OATT, SPP will deem the Request to be terminated and withdrawn and the Customer may be subject to a MWP in accordance with Section III.D.4 of Attachment Z1 in the OATT. The calculation of the Customer's MWP shall include any impacts to subsequent completed AFS(s).

The MWP assigned to a withdrawn Request will be any reallocated upgrade costs that are in excess of the sum of (i) the DAUC and (ii) the amounts included in rates, for any remaining confirmed Request(s).

If there is more than one withdrawn Request then the MWP, if any, shall be assigned to the withdrawn Customers based upon the impact of the withdrawal of each withdrawn Customer's request on those upgrades for which the DAUC increased for the confirmed requests, thereby resulting in the MWP. Upgrade costs for facilities only required by the withdrawn Customer's request(s) shall not be included as part of the calculation of the MWP. A Customer required to pay a MWP will enter into a Sponsored Upgrade Agreement with SPP in accordance with Attachment J of the OATT and will be eligible for revenue credits in accordance with Attachment Z2 of the OATT.

THIRD-PARTY FACILITIES

For third-party facilities listed in Table 3 and Table 5, the Customer is responsible for funding the necessary upgrades of these facilities per Section 21.1 of SPP's OATT. Total E&C cost estimates for required third-party facility upgrades are not applicable. SPP will undertake reasonable efforts to assist the Customer in making arrangements for necessary engineering, permitting, and construction of the third-party facilities. Third-party facility upgrade E&C cost estimates are not utilized to determine the present worth value of levelized revenue requirements for SPP system Network Upgrades.

All modeled facilities within the SPP system were monitored during the development of this study, as well as certain facilities in first-tier neighboring systems. Third-party facilities must be upgraded when it is determined that they are overloaded while accommodating the requested Transmission Service. An agreement between the Customer and third party owner detailing the mitigation of the third party impact must be provided to SPP prior to tendering of a Transmission Service Agreement. These facilities also include those owned by members of SPP who have not placed their

facilities under SPP's OATT. Upgrades on the Southwest Power Administration (SWPA) network requires prepayment of the upgrade cost prior to construction of the upgrade.

Third-party facilities are evaluated for only those requests whose load sinks within the SPP footprint. The Customer must arrange with the applicable Transmission Providers for study of third party facilities for service that sinks outside the SPP footprint.

STUDY METHODOLOGY

DESCRIPTION

The facility study analysis was conducted to determine the steady-state impact of the requested service on the SPP and first tier non-SPP control area systems. The steady-state analysis was performed consistent with current SPP Criteria and NERC Reliability Standards requirements. 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 monitored elements include all SPP control area branches, ties, and buses 69 kV and above, and all first tier non-SPP control area branches and ties 115 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 first tier non-SPP control area facilities, a 3% TDF cutoff was applied to AECL, AMRN (Ameren), and ENTR (Entergy) control areas. 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 the following 2015 Integrated Transmission Planning (ITP) models, used in the 2016 ITP Near Term, to study the aggregate transfers over a variety of requested service periods and to determine the impact of the requested service on the transmission system:

- 2016 Summer Peak (16SP)
- 2016/17 Winter Peak (16WP)
- 2017 Summer Peak (17SP)
- 2017/18 Winter Peak (17WP)

- 2020 Summer Peak (20SP)
- 2020/21 Winter Peak (20WP)
- 2025 Summer Peak (25SP)
- 2025/26 Winter Peak (25WP)

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. One group of requests was developed from the aggregate to model the requested service. From the seasonal models, two system scenarios were developed. Scenario 0 includes projected usage of transmission included in the SPP 2015 Series Cases. Scenario 5 includes transmission service not already included in the SPP 2015 Series Cases.

TRANSMISSION REQUEST MODELING

NITS requests are modeled as Generation to Load transfers in addition to Generation to Generation transfers. NITS requests are modeled as Generation to Load transfers in addition to Generation to Generation because the requested NITS is a request to serve network load with the new designated network resource, and the impacts on Transmission System are determined accordingly. PTP Transmission Service requests are modeled as Generation to Generation transfers. 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 transfers modeled, the PSS/E Activity ACCC was run on the cases and compared to determine the facility overloads caused or impacted by the transfer. TDF cutoffs (SPP and 1st-Tier) 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.

CURTAILMENT AND REDISPATCH EVALUATION

During any period in which SPP determines that a transmission constraint exists on and may impair Transmission System reliability, SPP will take whatever actions are reasonably necessary to maintain reliability. If SPP determines Transmission System reliability can be maintained by redispatching resources, it will evaluate the interim redispatch of units to provide service prior to completion of any assigned Network Upgrades. Any redispatch may not unduly discriminate between the Transmission Owners' use of the Transmission System on behalf of their Native Load Customers and any Customer's use of the Transmission System to serve its designated load. Redispatch was evaluated to provide only interim service during the time frame prior to completion of any assigned Network Upgrades.

SPP determined potential relief pairs to relieve the incremental MW impact on limiting facilities as identified in Table 6. Using the selected cases where the limiting facilities were identified, potential incremental and decremental units were identified by determining the generation amount available for increasing and decreasing from the units' generation amount, maximum generation amount, and minimum generation amount. If the incremental or decremental amount was greater than 1 MW, the unit was considered as a potential incremental or decremental unit.

Generation shift factors were calculated for the potential incremental and decremental units using the Siemens power flow analysis tool, Managing and Utilizing System Transmission (MUST). Relief pairs from the generation shift factors for the incremental and decremental units with a TDF greater than 3% on the limiting constraint were determined from the incremental units with the lowest generation shift factors and decremental units with highest generation shift factors. If the aggregate redispatch amount for the potential relief pair was determined to be three times greater than the lower of the increment or decrement, then the pair was determined not to be feasible and is not included. Customers can request SPP to provide additional relief pairs beyond those determined. The potential relief pairs were not evaluated to determine impacts on limiting facilities in the SPP and first tier systems.

The AFS analyzes the most probable contingencies and does not account for every situation that may be encountered in real-time operation. Because of this, it is possible that the Customer may be curtailed under certain system conditions to allow system operators to maintain the reliability of the transmission network.

STUDY RESULTS

STUDY ANALYSIS RESULTS

Tables 1 through 7 contain the AFS steady-state analysis results.

TABLE 1

Table 1 identifies the participating long-term Transmission Service requests included in the AFS. This table lists deferred start and stop dates both with and without redispatch (based on Customer selection of redispatch if available) and the minimum annual allocated ATC without upgrades, the season of first impact, and indicates which requests, if any, had parameters that were exceeded.

TABLE 2

Table 2 identifies total E&C cost allocated to each Customer, letter of credit requirements, third party E&C cost assignments, potential base plan E&C funding (lower of allocated E&C or Attachment J Section III B criteria), PTP base rate charge, total revenue requirements for assigned upgrades with consideration of potential base plan funding, and final total cost allocation to the Customer. In addition, Table 2 identifies SWPA upgrade costs which require prepayment in addition to other allocated costs.

TABLE 3

Table 3 provides additional details for each request including all assigned facility upgrades required, allocated E&C costs, allocated revenue requirements for upgrades, upgrades not assigned to the Customer but required for service to be confirmed, credits to be paid for previously assigned AFS or Generation Interconnection Network Upgrades, and any required third party upgrades.

TABLE 4

Table 4 lists all upgrade requirements with associated solutions needed to provide Transmission Service for the AFS, earliest date upgrade is required (DUN), estimated date the upgrade will be completed and in service (EOC), and estimated E&C cost.

TABLE 5

Table 5 lists identified third-party constrained facilities.

TABLE 6

Table 6 identifies potential redispatch pairs available to relieve the aggregate impacts on identified constraints to prevent deferral of start of service. MW amounts listed for redispatch are maximum values observed in a long term study and may only be available in a reduced amount or unavailable at any given time.

TABLE 7

Table 7 lists costs allocated per request for Service Upgrades assigned in this AFS.

BASE PLAN UPGRADES

The potential base plan funding allowable is contingent on meeting each of the conditions for classifying upgrades associated with designated resources as Base Plan Upgrades as defined in Section III.B of Attachment J. If the additional capacity of the new or changed Designated Resource exceeds the 125% resource to load forecast for the year of start of service, the requested resource is not eligible for base plan funding of required Network Upgrades and the full cost of the upgrades is assignable to the Customer.

If the request is for wind generation, the total requested capacity of wind generation plus existing wind generation capacity shall not exceed 20% of the customer's projected system peak responsibility in the first year the Designated Resource is planned to be used by the customer. If the five-year term and 125% resource to load criteria are met, (as well as the 20% wind resource to load criteria for wind generation requests) the requested capacity is multiplied by \$180,000 to determine the potential base plan funding allowable. The maximum potential base plan funding allowable may be less than the potential base plan funding allowable, due to the E&C cost allocated to the customer being lower than the potential amount allowable to the Customer. The Customer is responsible for any assigned upgrade costs in excess of potential base plan E&C funding allowable. Network Upgrades required for wind generation requests located in a zone other than the Customer's Point of Delivery (POD) shall be allocated as 67% base plan region-wide charge and 33% directly assigned to the Customer.

Regarding application of base plan funding for PTP requests, if PTP base rate exceeds upgrade revenue requirements without taking into effect the reduction of revenue requirements by potential base plan funding, then the base rate revenue pays back the Transmission Owner for upgrades and no base plan funding is applicable as the access charge must be paid as it is the higher of "OR" pricing.

However, if initially the upgrade revenue requirements exceed the PTP base rate, then potential base plan funding would be applicable. The test of the higher of “OR” pricing would then be made against the remaining assignable revenue requirements versus PTP base rate. Examples are as follows:

Example A:

E&C allocated for upgrades is \$74 million with revenue requirements of \$140 million and PTP base rate of \$101 million. Potential base plan funding is \$47 million, with the difference of \$27 million E&C assignable to the Customer. If the revenue requirements for the assignable portion is \$54 million and the PTP base rate is \$101 million, the Customer will pay the higher amount (so-called “or pricing”) of \$101 million base rate of which \$54 million revenue requirements will be paid back to the Transmission Owners for the upgrades, and the remaining revenue requirements of \$86 million (\$140 million less \$54 million) will be paid by base plan funding.

Example B:

E&C allocated for upgrades is \$74 million with revenue requirements of \$140 million and PTP base rate of \$101 million. Potential base plan funding is \$10 million with the difference of \$64 million E&C assignable to the Customer. If the revenue requirements for this assignable portion is \$128 million and the PTP base rate is \$101 million, the Customer will pay the higher amount of \$128 million revenue requirements to be paid back to the Transmission Owners, and the remaining revenue requirements of \$12 million (\$140 million less \$128 million) will be paid by base plan funding.

Example C:

E&C allocated for upgrades is \$25 million with revenue requirements of \$50 million and PTP base rate of \$101 million. Potential base plan funding is \$10 million. Base plan funding is not applicable as the higher amount of PTP base rate of \$101 million must be paid and the \$50 million revenue requirements will be paid from this.

The 125% resource to load determination is performed on a per-request basis and is not based on a total of Designated Resource requests per Customer.

STUDY DEFINITIONS

- The date upgrade needed date (DUN) is the earliest date the upgrade is required to alleviate a constraint considering all requests.
- End of construction (EOC) is the estimated date the upgrade will be completed and in service.
- Total engineering and construction cost (E&C) is the upgrade solution cost as determined by the Transmission Owner.
- The Transmission Customer’s allocation of the E&C cost is based on the request (1) having an impact of at least 3% on the limiting element, and (2) having a positive impact on the upgraded facility.
- Minimum ATC is the portion of the requested capacity that can be accommodated without upgrading facilities.
- Annual ATC allocated to the Transmission Customer is determined by the least amount of allocated seasonal ATC within each year of a reservation period.

CONCLUSION

The results of the AFS show that limiting constraints exist in many areas of the regional Transmission System. Due to these constraints, Transmission Service cannot be granted unless noted in Table 3.

SPP will accept the requests in which the specified study parameters were met and will tender a Service Agreement for each of these requests identifying the terms and conditions of the confirmed service. SPP has refused all requests in which the parameters were exceeded.

APPENDIX A

PSS/E CHOICES IN RUNNING LOAD FLOW PROGRAM AND ACCC

BASE CASE SETTINGS:

- Solutions: Fixed slope decoupled Newton-Raphson solution (FDNS)
- Tap adjustment: Stepping
- Area Interchange Control: Tie lines and loads
- Var limits: Apply immediately
- Solution Options:
 - 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
- Excl'd 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 table: 99999.0
- 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:
 - Phase shift adjustment
 - Flat start
 - Lock DC taps
 - Lock switched shunts

Table 1 - Long-Term Transmission Service Requests Included in Aggregate Facility Study

Accepted Requests

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date without interim redispach (Parameter)	Deferred Stop Date without interim redispach	Start Date with interim redispach (Parameter)	Stop Date with interim redispach	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period	*One or More Study Parameters Exceeded
AEPE	AG2-2015-003	81925179	NPPD	NPPD	40	1/1/2017	1/1/2022	1/1/2017	1/1/2022	1/1/2017	1/1/2022	0	17SP	NO
AEPE	AG2-2015-004	81925238	NPPD	NPPD	32	1/1/2017	1/1/2022	1/1/2017	1/1/2022	1/1/2017	1/1/2022	0	17SP	NO
AEPE	AG2-2015-005	81925271	WAUE	NPPD	5	1/1/2017	1/1/2022	1/1/2017	1/1/2022	1/1/2017	1/1/2022	0	17SP	NO
AEPE	AG2-2015-006	81925328	LES	NPPD	4	1/1/2017	1/1/2022	1/1/2017	1/1/2022	1/1/2017	1/1/2022	0	17SP	NO
BRPS	AG2-2015-007	81939641	SECI	NPPD	15	1/1/2018	6/1/2019	1/1/2018	6/1/2019	1/1/2018	6/1/2019	15	20SP	NO
CHAN	AG2-2015-008	81921748	WR	WR	45	1/1/2017	1/1/2021	1/1/2017	1/1/2021	1/1/2017	1/1/2021	0	17SP	NO
CHAN	AG2-2015-009	81921765	WR	WR	9	1/1/2017	1/1/2022	1/1/2017	1/1/2022	1/1/2017	1/1/2022	0	17SP	NO
INDP	AG2-2015-011	81761267	WR	KCPL	20	6/1/2016	6/1/2036	6/1/2018	6/1/2036	6/1/2016	6/1/2036	0	16SP	NO
KCPS	AG2-2015-012	81620079	WPEK	KCPL	50	1/1/2017	1/1/2022	6/1/2018	6/1/2023	1/1/2017	1/1/2022	0	17SP	NO
KCPS	AG2-2015-013	81917580	AECI	KCPL	100	6/1/2016	1/1/2019	6/1/2018	1/1/2021	6/1/2016	1/1/2019	0	16SP	NO
KCPS	AG2-2015-014	81921840	WPEK	KCPL	50	1/1/2017	1/1/2022	6/1/2018	6/1/2023	1/1/2017	1/1/2022	0	17SP	NO
KMEA	AG2-2015-015	81939677	SECI	SECI	27	6/1/2016	6/1/2021	6/1/2016	6/1/2021	6/1/2016	6/1/2021	27	16SP	NO
MIDW	AG2-2015-016	81939203	WR	WR	120	6/1/2016	6/1/2026	6/1/2019	6/1/2029	6/1/2016	6/1/2026	0	16SP	NO
MIDW	AG2-2015-018	81939816	WR	WR	5	6/1/2016	6/1/2026	6/1/2016	6/1/2026	6/1/2016	6/1/2026	5	16SP	NO
NPPM	AG2-2015-019	81761103	NPPD	NPPD	75	6/1/2016	6/1/2026	6/1/2018	6/1/2028	6/1/2016	6/1/2026	0	16SP	NO
OMPA	AG2-2015-020	81909660	OKGE	OKGE	42	1/1/2020	1/1/2026	1/1/2020	1/1/2026	1/1/2020	1/1/2026	0	25SP	NO
OPPM	AG2-2015-021	81918646	WAUE	OPPD	400	1/1/2018	7/1/2037	1/1/2018	7/1/2037	1/1/2018	7/1/2037	400	20SP	NO
PEC	AG2-2015-022	81926148	CSWS	WFEC	75	6/1/2016	6/1/2026	6/1/2018	6/1/2028	6/1/2016	6/1/2026	0	16SP	NO
PEC	AG2-2015-023	81926178	WFEC	WFEC	62	6/1/2016	6/1/2026	6/1/2018	6/1/2026	6/1/2016	6/1/2026	0	16SP	NO
SPSM	AG2-2015-024	81882937	SPS	SPS	30	10/1/2016	10/1/2031	6/1/2018	6/1/2033	10/1/2016	10/1/2031	0	17SP	NO
SPSM	AG2-2015-026	81883317	OKGE	SPS	199	1/1/2017	12/9/2034	6/1/2020	12/9/2034	11/16/2018	12/9/2034	0	17SP	NO

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Requests with Study Parameters Exceeded

AECC	AG2-2015-001	81871305	CSWS	CSWS	108	1/1/2017	1/1/2022	3/1/2021	3/1/2026	1/1/2017	1/1/2022	0	17SP	YES
AECC	AG2-2015-002	81871334	OKGE	CSWS	64	1/1/2018	1/1/2023	1/1/2018	1/1/2023	1/1/2018	1/1/2023	0	20SP	YES
GSECGS	AG2-2015-010	81892833	OKGE	SPS	5	6/1/2016	7/1/2034	6/1/2016	7/1/2034	6/1/2016	7/1/2034	0	16SP	YES
MIDW	AG2-2015-017	81939312	WR	WR	50	12/1/2016	12/1/2036	6/1/2019	6/1/2039	12/1/2016	12/1/2036	0	17SP	YES
SPSM	AG2-2015-025	81883164	BLKW	SPS	15	6/1/2016	6/1/2021	12/15/2018	12/15/2023	6/1/2018	6/1/2023	0	16SP	YES
WRGS	AG2-2015-027	81914448	WR	WR	280	12/1/2016	10/1/2025	3/1/2021	10/1/2025	12/1/2016	10/1/2025	0	17SP	YES
WRGS	AG2-2015-028	81916202	WR	WR	104	12/1/2016	10/1/2025	6/1/2019	10/1/2025	12/1/2016	10/1/2025	0	17SP	YES
WRGS	AG2-2015-029	81916204	WR	WR	103	12/1/2016	10/1/2025	6/1/2019	10/1/2025	12/1/2016	10/1/2025	0	17SP	YES
WRGS	AG2-2015-030	81925795	WR	WR	200	7/1/2016	10/1/2025	6/1/2019	10/1/2025	7/1/2016	10/1/2025	0	17SP	YES

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Note 1: Start and Stop Dates with interim redispach are determined based on customers choosing option to pursue redispach to start service at Requested Start and Stop Dates or earliest date possible.

Note 2: Start dates with and without redispach are based on the assumed completion dates of previous Aggregate Transmission Service Studies currently being conducted. Actual start dates may differ from the potential start dates upon completion of the previous studies.

Note 3: Request is unable to be deferred due to fixed stop dates.

Note 4: Transmission customer did not select "remain in the study using interim redispach" option.

Note 5: Request parameters have been exceeded.

Table 2 - Total Revenue Requirements Associated with Long-Term Transmission Service Requests

Accepted Requests

Customer	Study Number	Reservation	Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	¹ Letter of Credit Amount Required (Parameter)	² Potential Base Plan Engineering and Construction Funding Allowable	Notes	⁴ Additional Engineering and Construction Cost for 3rd Party Upgrades (Parameter)	^{3,5} Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITH Potential Base Plan Funding Allocation	Point-to-Point Base Rate Over Reservation Period	⁴ Total Cost of Reservation Assignable to Customer Contingent Upon Base Plan Funding	Directly Assigned Upgrade Cost (DAUC) (Parameter)
AEPE	AG2-2015-003	81925179	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
AEPE	AG2-2015-004	81925238	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
AEPE	AG2-2015-005	81925271	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
AEPE	AG2-2015-006	81925328	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
BRPS	AG2-2015-007	81939641	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
CHAN	AG2-2015-008	81921748	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
CHAN	AG2-2015-009	81921765	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
INDP	AG2-2015-011	81761267	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
KCPS	AG2-2015-012	81620079	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
KCPS	AG2-2015-013	81917580	\$0	\$0	\$0		\$0	\$6,755,585	\$6,755,585	Schedule 9 & 11 Charges	\$ -
KCPS	AG2-2015-014	81921840	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
KMEA	AG2-2015-015	81939677	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
MIDW	AG2-2015-016	81939203	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
MIDW	AG2-2015-018	81939816	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
NPPM	AG2-2015-019	81761103	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
OMPFA	AG2-2015-020	81909660	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
OPPM	AG2-2015-021	81918646	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
PEC	AG2-2015-022	81926148	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
PEC	AG2-2015-023	81926178	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
SPSM	AG2-2015-024	81882937	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
SPSM	AG2-2015-026	81883317	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
Grand Total			\$0		\$0			\$0			

Requests with Study Parameters Exceeded

AECC	AG2-2015-001	81871305	\$11,823,093	\$11,823,093	\$0		\$0	\$19,885,020	\$0	\$19,885,020	\$11,823,093
AECC	AG2-2015-002	81871334	\$3,558,894	\$3,558,894	\$0		\$0	\$4,948,823	\$0	\$4,948,823	\$3,558,894
GSECGS	AG2-2015-010	81892833	\$1,073,637	\$1,073,637	\$0		\$0	\$2,212,686	\$0	\$2,212,686	\$1,073,637
MIDW	AG2-2015-017	81939312	\$2,974,609	\$2,974,609	\$0		\$0	\$7,485,016	\$0	\$7,485,016	\$2,974,609
SPSM	AG2-2015-025	81883164	\$0	\$0	\$0		\$0	\$0	\$0	Schedule 9 & 11 Charges	\$ -
WRGS	AG2-2015-027	81914448	\$7,260,553	\$7,260,553	\$0		\$0	\$15,342,100	\$0	\$15,342,100	\$7,260,553
WRGS	AG2-2015-028	81916202	\$2,920,039	\$2,920,039	\$0		\$0	\$6,192,498	\$0	\$6,192,498	\$2,920,039
WRGS	AG2-2015-029	81916204	\$2,891,959	\$2,891,959	\$0		\$0	\$6,132,950	\$0	\$6,132,950	\$2,891,959
WRGS	AG2-2015-030	81925795	\$5,615,459	\$5,615,459	\$0		\$0	\$11,718,640	\$0	\$11,718,640	\$5,615,459
Grand Total			\$38,118,243		\$0			\$73,917,733			

Note 1: Letter of Credit required for financial security for transmission owner for network upgrades is determined by allocated engineering and construction costs less engineering and construction costs for upgrades when network customer is the transmission owner less the E & C allocation of expedited projects. Letter of Credit is required for upgrades assigned to PTP requests. The amount of the letter of credit will be adjusted down on an annual basis to reflect cost recovery based on revenue allocation. This letter of credit is not required for those facilities that are fully base plan funded. The Letter Of Credit Amount listed is based on meeting OATT Attachment J requirements for base plan funding.

Note 2: If potential base plan funding is applicable, this value is the lesser of the Engineering and Construction costs of assignable upgrades or the value of base plan funding calculated pursuant to Attachment J, Section III B criteria. Allocation of base plan funding is contingent upon verification of customer agreements meeting Attachment J, Section II B criteria. Not applicable if Point-to-Point base rate exceeds revenue requirements.

Note 3: Revenue Requirements (RR) are based upon deferred end dates if applicable. Deferred dates are based upon customer's choice to pursue redispatch. Achievable Base Plan Avoided RR in the case of a Base Plan upgrade being displaced or deferred by an earlier in service date for a Requested Upgrade shall be determined per Attachment J, Section VII.C methodology. Assumption of a 40 year service life is utilized for Base Plan funded projects. A present worth analysis of RR on a common year basis between the Base Plan and Requested Upgrades was performed to determine avoided Base Plan RR due to the displacement or deferral of the Base Plan upgrade by the Requested Upgrade. The incremental increase in present worth of a Requested Upgrade on a common year basis as a Base Plan upgrade is assigned to the transmission requests impacting the upgrade based on the displacement or deferral. If the displacement analysis results in lower RR due to the shorter amortization period of the requested upgrade when compared to a base plan amortization period, then no direct assignment of the upgrade cost is made due to the displacement to an earlier start date.

Note 4: For Point-to-Point requests, total cost is based on the higher of the base rate or assigned upgrade revenue requirements. For Network requests, the total cost is based on the assigned upgrade revenue requirement. Allocation of base plan funding will be determined after verification of designated resource meeting Attachment J, Section II B Criteria. Additionally E & C of 3rd Party upgrades is assignable to Customer. This includes prepayments required for any SWPA upgrades. Revenue requirements for 3rd Party facilities are not calculated. Total cost to customer is based on assumption of Revenue Requirements with confirmation of base plan funding. Customer is responsible for negotiating redispatch costs if applicable. Customer is also responsible to pay credits for previously assigned upgrades that are impacted by their request. Credits can be paid from base plan funding if applicable.

Note 5: RR with base plan funding may increase or decrease even if no base plan funding is applicable to a particular request if another request that shares the upgrade is now full base plan funded resulting in a different amortization period for the upgrade and thus different RR.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 AEPE AG2-2015-003

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPE	81925179	NPPD	NPPD	40	1/1/2017	1/1/2022	1/1/2017	1/1/2022	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81925179	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 AEPE AG2-2015-004

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPE	81925238	NPPD	NPPD	32	1/1/2017	1/1/2022	1/1/2017	1/1/2022	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81925238	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

AEPE AG2-2015-005

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPE	81925271	WAUE	NPPD	5	1/1/2017	1/1/2022	1/1/2017	1/1/2022	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81925271	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 AEPE AG2-2015-006

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPE	81925328	LES	NPPD	4	1/1/2017	1/1/2022	1/1/2017	1/1/2022	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81925328	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81925328	Cherry Co. - Gentleman 345 kV Ckt 1	10/1/2016	6/1/2018		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81925328	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2013		
	GREENLEAF - KNOB HILL 115KV CKT 1 (MKEC)	6/1/2013	6/1/2013		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
BRPS AG2-2015-007

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
BRPS	81939641	SECI	NPPD	15	1/1/2018	6/1/2019	1/1/2018	6/1/2019	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81939641	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 CHAN AG2-2015-008

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CHAN	81921748	WR	WR	45	1/1/2017	1/1/2021	1/1/2017	1/1/2021	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81921748	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 CHAN AG2-2015-009

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CHAN	81921765	WR	WR	9	1/1/2017	1/1/2022	1/1/2017	1/1/2022	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81921765	None					\$ -	\$ -	\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -	\$ -	\$ -

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 INDP AG2-2015-011

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
INDP	81761267	WR	KCPL	20	6/1/2016	6/1/2036	6/1/2018	6/1/2036	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81761267	None					\$ -	\$ -	\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81761267	Multi - Geary County 345/115 kV and Geary - Chapman 115 kV	6/1/2016	6/1/2018		Yes

Planned Projects

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81761267	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81761267	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2013		
	MARSHALL CO POI Nus	9/19/2014	9/19/2014		
	GREENLEAF - KNOB HILL 115KV CKT 1 (MKEC)	6/1/2013	6/1/2013		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 KCPS AG2-2015-012

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	81620079	WPEK	KCPL	50	1/1/2017	1/1/2022	6/1/2018	6/1/2023	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81620079	None					\$ -	\$ -	\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81620079	Woodward EHV 138kV Phase Shifting Transformer circuit #1	6/1/2017	6/1/2018		Yes

Planned Projects

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81620079	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81620079	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MATHEWSON - NORTHWEST 345KV CKT 1	1/1/2010	1/1/2010		
	MATHEWSON - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	POWER SYSTEM STABILIZERS IN SPS	11/30/2014	11/30/2014		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD EHV 138KV PHASE SHIFTING TRANSFORMER CIRCUIT #1	8/2/2017	8/2/2017		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 KCPS AG2-2015-013

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	81917580	AECI	KCPL	100	6/1/2016	1/1/2019	6/1/2018	1/1/2021	\$ -	\$ 2,615,097	\$ -	\$ -
									\$ -	\$ 2,615,097	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81917580	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81917580	Multi - Geary County 345/115 kV and Geary - Chapman 115 kV	6/1/2016	6/1/2018		Yes

Planned Projects

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81917580	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2017	6/1/2017		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 KCPS AG2-2015-014

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	81921840	WPEK	KCPL	50	1/1/2017	1/1/2022	6/1/2018	6/1/2023	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81921840	None					\$ -	\$ -	\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81921840	Woodward EHV 138kV Phase Shifting Transformer circuit #1	6/1/2017	6/1/2018		Yes

Planned Projects

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81921840	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81921840	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MATHEWSON - NORTHWEST 345KV CKT 1	1/1/2010	1/1/2010		
	MATHEWSON - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	POWER SYSTEM STABILIZERS IN SPS	11/30/2014	11/30/2014		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD EHV 138KV PHASE SHIFTING TRANSFORMER CIRCUIT #1	8/2/2017	8/2/2017		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
KMEA AG2-2015-015

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	81939677	SECI	SECI	27	6/1/2016	6/1/2021	6/1/2016	6/1/2021	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81939677	None					\$ -	\$ -	\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -	\$ -	\$ -

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81939677	FT. DODGE - NORTH FT. DODGE 115 KV CKT 2	5/1/2015	5/1/2015		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
MIDW AG2-2015-016

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	81939203	WR	WR	120	6/1/2016	6/1/2026	6/1/2019	6/1/2029	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81939203	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81939203	Multi - Viola 345/138KV Transformer and 138 kV Lines to Clearwater and Gill	6/1/2016	6/1/2019		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81939203	HEIZER (HEIZER T4) 115/69/12.5KV TRANSFORMER CKT 4	6/1/2021	6/1/2021		
	BALDWIN CREEK 230/115KV TRANSFORMER CKT 1	6/1/2021	6/1/2021		
	LEC US - MIDLAND 230 KV CKT 1	6/1/2021	6/1/2021		

Planned Projects

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81939203	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81939203	BARBER - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MATHEWSON - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2013		
	RICE - CIRCLE 230 KV CKT 1 (MIDW PORTION)	11/7/2012	11/7/2012		
	RICE - CIRCLE 230 KV CKT 1 (WR PORTION)	11/29/2012	11/29/2012		
	RICE - LYONS 115 KV CKT 1	4/1/2013	4/1/2013		
	RICE COUNTY 230/115 KV TRANSFORMER CKT 1	10/1/2012	10/1/2012		
	RIVER ROAD - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WHEATLAND 115 KV #2	12/31/2012	12/31/2012		
	WOODWARD EHV 138KV PHASE SHIFTING TRANSFORMER CIRCUIT #1	8/2/2017	8/2/2017		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
MIDW AG2-2015-018

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	81939816	WR	WR	5	6/1/2016	6/1/2026	6/1/2016	6/1/2026	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81939816	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 NPPM AG2-2015-019

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
NPPM	81761103	NPPD	NPPD	75	6/1/2016	6/1/2026	6/1/2018	6/1/2028	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81761103	None					\$ -	\$ -	\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81761103	Cherry Co. - Gentleman 345 kV Ckt 1	10/1/2016	6/1/2018		Yes

Planned Projects

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81761103	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81761103	STEELE CITY 115KV SUBSTATION ADDITION	11/15/2013	11/15/2013		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
OMPA AG2-2015-020

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OMPA	81909660	OKGE	OKGE	42	1/1/2020	1/1/2026	1/1/2020	1/1/2026	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81909660	None					\$ -	\$ -	\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81909660	Marlow - Rush Springs Tap 138 kV Ckt 1 Rebuild	6/1/2024	6/1/2024		

Planned Projects

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81909660	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81909660	CACHE - SNYDER 138KV CKT 1	5/21/2008	5/21/2008		
	MATHEWSON - NORTHWEST 345KV CKT 1	1/1/2010	1/1/2010		
	MATHEWSON - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	OSAGE - SHIDLER 138KV	1/15/2014	1/15/2014		
	RENFROW 345KV SUBSTATION	11/12/2015	11/12/2015		
	SHIDLER 138 KV	2/8/2014	2/8/2014		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD EHV 138KV PHASE SHIFTING TRANSFORMER CIRCUIT #1	8/2/2017	8/2/2017		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 OPPM AG2-2015-021

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OPPM	81918646	WAUE	OPPD	400	1/1/2018	7/1/2037	1/1/2018	7/1/2037	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81918646	None					\$ -	\$ -	\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -	\$ -	\$ -

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 PEC AG2-2015-022

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
PEC	81926148	CSWS	WFEC	75	6/1/2016	6/1/2026	6/1/2018	6/1/2028	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81926148	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81926148	Woodward EHV 138kV Phase Shifting Transformer circuit #1	6/1/2017	6/1/2018		Yes

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
 PEC AG2-2015-023

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
PEC	81926178	WFEC	WFEC	62	6/1/2016	6/1/2026	6/1/2016	6/1/2026	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81926178	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
SPSM AG2-2015-024

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	81882937	SPS	SPS	30	10/1/2016	10/1/2031	6/1/2018	6/1/2033	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81882937	None					\$ -	\$ -	\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81882937	MUSTANG - SEMINOLE 115 KV	6/1/2017	6/1/2018		Yes
	SEMINOLE INTERCHANGE 230/115 KV TRANSFORMERS 1 and 2	6/1/2017	6/1/2018		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81882937	Woodward EHV 138kV Phase Shifting Transformer circuit #1	6/1/2017	6/1/2018		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81882937	HARRINGTON MID - NICHOLS 230 KV CKT 2	12/1/2012	12/1/2012		
	HARRINGTON WEST - NICHOLS 230KV CKT 1	12/1/2012	12/1/2012		
	PLANT X - TOLK 230KV REBUILD CIRCUIT #1	12/31/2017	12/31/2017		
	PLANT X - TOLK 230KV REBUILD CIRCUIT #2	12/31/2017	12/31/2017		
	POWER SYSTEM STABILIZERS IN SPS	11/30/2014	11/30/2014		
	TUCCO INTERCHANGE 345/230KV CKT 1 REPLACEMENT	6/1/2018	6/1/2018		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Accepted Requests

Customer Study Number
SPSM AG2-2015-026

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	81883317	OKGE	SPS	199	1/1/2017	12/9/2034	6/1/2020	12/9/2034	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81883317	None					\$ -	\$ -	\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81883317	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	1/1/2017	6/1/2020	Yes	
	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	1/1/2017	6/1/2017	Yes	
	CANYON WEST SUB - DAWN SUB 115KV CKT 1	1/1/2017	4/1/2018	Yes	
	Carlisle Interchange - Wolfforth Interchange 230 kv Ckt 1	1/1/2017	6/1/2017	Yes	
	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	1/1/2017	4/1/2018	Yes	
	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	1/1/2017	4/1/2018	Yes	
	INTREPDW_TP3115.00 - POTASH JUNCTION INTERCHANGE 115KV CKT 1	6/1/2017	11/16/2018	No	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81883317	AMOCO - SUNDOWN 230KV TERMINAL UPGRADES	6/1/2017	6/1/2018	Yes	
	CARLISLE INTERCHANGE - LP-DOUD_TP 3115.00 115KV CKT 1	6/1/2021	6/1/2021		
	MUSTANG - SEMINOLE 115 kv	6/1/2017	6/1/2018	Yes	
	SEMINOLE INTERCHANGE 230/115 kv TRANSFORMERS 1 and 2	6/1/2017	6/1/2018	Yes	
	SUNDOWN INTERCHANGE 230/115/13.8KV TRANSFORMER CKT 2	6/1/2017	6/1/2018	Yes	
	TOLK STATION WEST - YOAKUM COUNTY INTERCHANGE 230KV CKT 1	10/1/2021	10/1/2021		
	TUCCO - YOAKUM 345 kv CKT 1 with YOAKUM 345-230 kv TRANSFORMER CKT 1	6/1/2017	6/1/2018	No	
	WOLFFORTH INTERCHANGE (WH 7001668) 230/115/13.2KV TRANSFORMER CKT 1	6/1/2021	6/1/2021		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81883317	EDDY CO 230KV Bus Tie	1/1/2017	12/15/2018	Yes	
	Woodward EHV 138kv Phase Shifting Transformer circuit #1	6/1/2017	6/1/2018	Yes	

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81883317	TATONGA 345KV SUBSTATION ADDITION (DEWEY CO)	9/24/2014	9/24/2014		
	TATONGA 345KV SUBSTATION ADDITION (BLAINE CO)	5/18/2014	5/18/2014		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Requests with Study Parameters Exceeded

Customer Study Number
 AECC AG2-2015-001

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AECC	81871305	CSWS	CSWS	108	1/1/2017	1/1/2022	3/1/2021	3/1/2026	\$ -	\$ -	\$ 11,823,093	\$ 19,885,021
									\$ -	\$ -	\$ 11,823,093	\$ 19,885,021

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81871305	BONANZA - HACKETT AECC 161KV CKT 1	6/1/2017	6/1/2019			\$ -	\$ 2,201,052	\$ 2,201,052	\$ 3,500,000	\$ 4,080,092
	COMANCHE - COMANCHE TAP 69KV CKT 1	10/1/2020	10/1/2020			\$ -	\$ 2,600,000	\$ 2,600,000	\$ 2,600,000	\$ 3,875,658
	HANCOCK - MUSKOGEE 161KV CKT 1 Accelerate	6/1/2017	6/1/2017			\$ -	\$ 48,105	\$ 48,105	\$ 73,942	\$ 90,546
	Marlow - Rush Springs Tap 138 kV Ckt 1 Rebuild	6/1/2018	6/1/2019		Yes	\$ -	\$ 6,973,936	\$ 6,973,936	\$ 7,430,909	\$ 11,838,724
					Total	\$ -	\$ 11,823,093	\$ 11,823,093	\$ 13,604,851	\$ 19,885,021

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81871305	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kv	6/1/2017	3/1/2021		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81871305	Solution(s) for 2016ITPNT-RON0422 and 2016ITPNT-RON0423.	1/1/2017	TBD	10/1/2016	
	Solution(s) for 2016ITPNT-RON0474, 2016ITPNT-RON0475, 2016ITPNT-RON0476, 2016ITPNT-RON0477, 2016ITPNT-RON0478, 2016ITPNT-RON0479, and 2016ITPNT-RON0480.	1/1/2017	TBD	10/1/2016	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81871305	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1 AECC	6/1/2021	6/1/2021		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81871305	Ashdown REC (AECC delivery point)	12/1/2011	12/1/2011		
	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	12/1/2011	12/1/2011		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	12/1/2011	12/1/2011		
	Gracemont 138kv line terminal addition	10/12/2012	10/12/2012		
	HUGO - VALLIANT 345KV CKT 1	7/1/2012	7/1/2012		
	MANDEVILTP4 - SE TEXARKANA 138KV CKT 1	7/1/2012	7/1/2012		
	MANDEVILTP4 - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	MATHEWSON - NORTHWEST 345KV CKT 1	1/1/2010	1/1/2010		
	MCNAB REC - Turk 115KV CKT 1 #2 (AEP)	12/1/2011	12/1/2011		
	OKAY - TURK 138KV CKT 1	12/1/2011	12/1/2011		
	Southwestern Station - Washita 138kv Ckt 1	10/1/2005	10/1/2005		
	Southwestern Station - Washita 138kv Ckt 1 (AEP)	10/1/2005	10/1/2005		
	SUGAR HILL - TURK 138KV CKT 1	12/16/2010	12/16/2010		
	TURK 138/115KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	Valliant 345 kv (AEP)	7/1/2012	7/1/2012		
	WASHITA - GRACEMONT 138 KV CKT 2	10/12/2012	10/12/2012		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Requests with Study Parameters Exceeded

Customer	Study Number
AECC	AG2-2015-002

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AECC	81871334	OKGE	CSWS	64	1/1/2018	1/1/2023	1/1/2018	1/1/2023	\$ -	\$ -	\$ 3,558,894	\$ 4,948,823
									\$ -	\$ -	\$ 3,558,894	\$ 4,948,823

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81871334	BONANZA - HACKETT AECC 161KV CKT 1	6/1/2021	6/1/2021			\$ -	\$ 3,500,000	\$ 3,500,000	\$ 3,500,000	\$ 4,848,998
	HANCOCK - MUSKOGEE 161KV CKT 1 Accelerate	6/1/2018	6/1/2018			\$ -	\$ 58,894	\$ 58,894	\$ 58,894	\$ 99,825
	Total					\$ -	\$ 3,558,894	\$ 3,558,894	\$ 3,558,894	\$ 4,948,823

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81871334	HANCOCK - MUSKOGEE 161KV CKT 1	6/1/2021	6/1/2021		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81871334	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1 AECC	6/1/2021	6/1/2021		

Planned Projects

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81871334	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81871334	HUGO - VALLIANT 345KV CKT 1	7/1/2012	7/1/2012		
	MATHEWSON - NORTHWEST 345KV CKT 1	1/1/2010	1/1/2010		
	MCNAB REC - Turk 115KV CKT 1 #2 (AEP)	12/1/2011	12/1/2011		
	TURK 138/115KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	Valliant 345 kv (AEP)	7/1/2012	7/1/2012		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Requests with Study Parameters Exceeded

Customer Study Number
GSECGS AG2-2015-010

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements	
GSECGS	81892833	OKGE	SPS	5	6/1/2016	7/1/2034	6/1/2016	7/1/2034	\$ -	\$ -	\$ 1,073,637	\$ 2,212,686	
										\$ -	\$ -	\$ 1,073,637	\$ 2,212,686

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81892833	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	6/1/2021	6/1/2021			\$ -	\$ 1,073,637	\$ 1,073,637	\$ 1,073,637	\$ 2,212,686
Total						\$ -	\$ 1,073,637	\$ 1,073,637	\$ 1,073,637	\$ 2,212,686

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81892833	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1			10/1/2016	6/1/2020
	CANYON E - TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1			10/1/2016	6/1/2017
	CANYON WEST SUB - DAWN SUB 115KV CKT 1			6/1/2016	4/1/2018
	Carlisle Interchange - Wolforth Interchange 230 kv Ckt 1			6/1/2016	6/1/2017
	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1			6/1/2016	4/1/2018
	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1			6/1/2016	4/1/2018

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81892833	CARLISLE INTERCHANGE - LP-DOUD TP 3115.00 115KV CKT 1			6/1/2021	6/1/2021
	CARNEGIE - HOBART JUNCTION 138KV CKT 1			6/1/2021	6/1/2021
	Solution(s) for 2016ITPNT-RON0910, 2016ITPNT-RON0911, 2016ITPNT-RON0912, 2016ITPNT-RON0913, 2016ITPNT-RON0914, 2016ITPNT-RON0915, 2016ITPNT-RON0916, and 2016ITPNT-RON0917.			6/1/2017	TBD
	Solution(s) for 2016ITPNT-RON0920, 2016ITPNT-RON0921, 2016ITPNT-RON0922, and 2016ITPNT-RON0923.			6/1/2017	TBD
	Solution(s) for 2016ITPNT-RON2130 and 2016ITPNT-RON2131.			6/1/2017	TBD
	Tuco Interchange 345/230 kv Auto #2 Upgrade			6/1/2021	6/1/2021

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81892833	Harrington Mid - Nichols 230 kv Ckt 2			12/1/2012	12/1/2012
	Harrington West - Nichols 230kv Ckt 1			12/1/2012	12/1/2012
	MATHEWSON - NORTHWEST 345KV CKT 1			1/1/2010	1/1/2010
	MATHEWSON - TATONGA 345KV CKT 1			1/1/2010	1/1/2010
	Southwestern Station - Washita 138kv Ckt 1			10/1/2005	10/1/2005
	Southwestern Station - Washita 138kv Ckt 1 (AEP)			10/1/2005	10/1/2005
	TATONGA - WOODWARD 345KV CKT 1			1/1/2010	1/1/2010
	WOODWARD - WOODWARD EHV 138KV CKT 1			1/1/2010	1/1/2010
	WOODWARD 345/138KV TRANSFORMER CKT 1			1/1/2010	1/1/2010

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Requests with Study Parameters Exceeded

Customer Study Number
MIDW AG2-2015-017

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	81939312	WR	WR	50	12/1/2016	12/1/2036	6/1/2019	6/1/2039	\$ -	\$ -	\$ 2,974,609	\$ 7,485,016
									\$ -	\$ -	\$ 2,974,609	\$ 7,485,016

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81939312	KNOLL - N HAYS3 115.00 115KV CKT 1	10/1/2016	10/1/2018		Yes	\$ -	\$ 415,094	\$ 415,094	\$ 1,467,722	\$ 1,069,069
	N HAYS3 115.00 - VINE STREET 115KV CKT 1	10/1/2016	10/1/2018		Yes	\$ -	\$ 774,150	\$ 774,150	\$ 2,737,301	\$ 1,993,812
	SOUTH HAYS (S HAYS T1) 230/115/12.47KV TRANSFORMER CKT 1	6/1/2017	6/1/2019		Yes	\$ -	\$ 1,634,348	\$ 1,634,348	\$ 5,778,860	\$ 3,974,602
	WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 & WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2019		Yes	\$ -	\$ 151,017	\$ 151,017	\$ 18,853,145	\$ 447,534
					Total	\$ -	\$ 2,974,609	\$ 2,974,609	\$ 28,837,028	\$ 7,485,016

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81939312	HEIZER (HEIZER T4) 115/69/12.5KV TRANSFORMER CKT 4	6/1/2021	6/1/2021		
	Mingo 345/115 kV Ckt 2 Transformer	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81939312	BARBER - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2013		
	Rice - Circle 230 kv Ckt 1 (MIDW portion)	11/7/2012	11/7/2012		
	Rice - Circle 230 kv Ckt 1 (WR portion)	11/29/2012	11/29/2012		
	Rice County 230/115 kv transformer Ckt 1	10/1/2012	10/1/2012		
	RIVER ROAD - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	Wheatland 115 kv #2	12/31/2012	12/31/2012		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Requests with Study Parameters Exceeded

Customer Study Number
SPSM AG2-2015-025

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	81883164	BLKW	SPS	15	6/1/2016	6/1/2021	12/15/2018	12/15/2023	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81883164	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81883164	Carlisle Interchange - Wolfforth Interchange 230 kv Ckt 1	6/1/2016	6/1/2017		
	INTREPDW TP3115.00 - POTASH JUNCTION INTERCHANGE 115KV CKT 1	6/1/2017	11/16/2018		
	Mustang - Shell CO2 115 kv Ckt 1	6/1/2016	6/1/2017		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81883164	MUSTANG - SEMINOLE 115 kv	6/1/2016	6/1/2018		
	SEMINOLE INTERCHANGE 230/115 kv TRANSFORMERS 1 and 2	6/1/2016	6/1/2018		
	SUNDOWN INTERCHANGE 230/115/13.8kv TRANSFORMER CKT 2	6/1/2017	6/1/2018		
	TOLK STATION WEST - YOAKUM COUNTY INTERCHANGE 230KV CKT 1	10/1/2021	10/1/2021		
	TUCO - YOAKUM 345 kv CKT 1 with YOAKUM 345-230 kv TRANSFORMER CKT 1	6/1/2016	6/1/2018		No

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81883164	EDDY CO 230kv Bus Tie	10/1/2016	12/15/2018		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81883164	Harrington Mid - Nichols 230 kv Ckt 2	12/1/2012	12/1/2012		
	Harrington West - Nichols 230kv Ckt 1	12/1/2012	12/1/2012		
	Plant X - Tolk 230kv rebuild circuit #1	12/31/2017	12/31/2017		
	Plant X - Tolk 230kv rebuild circuit #2	12/31/2017	12/31/2017		
	Power System Stabilizers in SPS	11/30/2014	11/30/2014		
	TUCO Interchange 345/230kv CKT 1 Replacement	6/1/2018	6/1/2018		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Requests with Study Parameters Exceeded

Customer Study Number
WRGS AG2-2015-027

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	81914448	WR	WR	280	12/1/2016	10/1/2025	3/1/2021	10/1/2025	\$ -	\$ -	\$ 7,260,553	\$ 15,342,096
									\$ -	\$ -	\$ 7,260,553	\$ 15,342,096

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81914448	KNOLL - N HAYS3 115.00 115KV CKT 1	10/1/2016	10/1/2018		Yes	\$ -	\$ 22,963	\$ 22,963	\$ 1,467,722	\$ 41,922
	N HAYS3 115.00 - VINE STREET 115KV CKT 1	10/1/2016	10/1/2018		Yes	\$ -	\$ 42,825	\$ 42,825	\$ 2,737,301	\$ 78,182
	SOUTH HAYS (\$ HAYS T1) 230/115/12.47KV TRANSFORMER CKT 1	6/1/2017	6/1/2019			\$ -	\$ 90,410	\$ 90,410	\$ 5,778,860	\$ 155,854
	WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 & WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2019		Yes	\$ -	\$ 7,104,355	\$ 7,104,355	\$ 18,853,145	\$ 15,066,137
					Total	\$ -	\$ 7,260,553	\$ 7,260,553	\$ 28,837,028	\$ 15,342,096

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81914448	BENTON 138kV Terminal Equipment	6/1/2017	6/1/2017		
	Cherry Co. - Gentleman 345 kV Ckt 1	10/1/2016	6/1/2018		
	Multi - Viola 345/138kV Transformer and 138 kv Lines to Clearwater and Gill	6/1/2017	6/1/2019		Yes
	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kv	6/1/2017	3/1/2021		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment 22 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81914448	FLATRDG3 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MATHEWSON - NORTHWEST 345KV CKT 1	1/1/2010	1/1/2010		
	MATHEWSON - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	Rice - Lyons 115 kv Ckt 1	4/1/2013	4/1/2013		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	Wheatland 115 kv #2	12/31/2012	12/31/2012		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Requests with Study Parameters Exceeded

Customer Study Number
WRGS AG2-2015-028

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	81916202	WR	WR	104	12/1/2016	10/1/2025	6/1/2019	10/1/2025	\$ -	\$ -	\$ 2,920,039	\$ 6,192,499
									\$ -	\$ -	\$ 2,920,039	\$ 6,192,499

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81916202	WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 & WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2019		Yes	\$ -	\$ 2,920,039	\$ 2,920,039	\$ 18,853,145	\$ 6,192,499
	Total					\$ -	\$ 2,920,039	\$ 2,920,039	\$ 18,853,145	\$ 6,192,499

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81916202	BENTON 138kV Terminal Equipment	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81916202	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MATHEWSON - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Requests with Study Parameters Exceeded

Customer Study Number
WRGS AG2-2015-029

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	81916204	WR	WR	103	12/1/2016	10/1/2025	6/1/2019	10/1/2025	\$ -	\$ -	\$ 2,891,959	\$ 6,132,950
									\$ -	\$ -	\$ 2,891,959	\$ 6,132,950

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81916204	WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 & WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2019		Yes	\$ -	\$ 2,891,959	\$ 2,891,959	\$ 18,853,145	\$ 6,132,950
	Total					\$ -	\$ 2,891,959	\$ 2,891,959	\$ 18,853,145	\$ 6,132,950

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81916204	BENTON 138kV Terminal Equipment	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81916204	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MATHEWSON - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

*Credits may be required for applicable generation interconnection network upgrades.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Requests with Study Parameters Exceeded

Customer Study Number
WRGS AG2-2015-030

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	81925795	WR	WR	200	6/1/2016	10/1/2025	6/1/2019	10/1/2025	\$ -	\$ -	\$ 5,615,459	\$ 11,718,635
									\$ -	\$ -	\$ 5,615,459	\$ 11,718,635

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
81925795	WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 & WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2019		Yes	\$ -	\$ 5,615,459	\$ 5,615,459	\$ 18,853,145	\$ 11,718,635
	Total					\$ -	\$ 5,615,459	\$ 5,615,459	\$ 18,853,145	\$ 11,718,635

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81925795	BENTON 138kV Terminal Equipment	6/1/2017	6/1/2017		
	Multi - Geary County 345/115 kV and Geary - Chapman 115 kV	6/1/2016	6/1/2018		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81925795	SUMMIT (SUMM TX-2) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2017		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment ZZ of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
81925795	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MATHEWSON - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

*Credits may be required for applicable generation interconnection network upgrades.

Table 4 - Upgrade Requirements and Solutions Needed to Provide Transmission Service for the Aggregate Study

Service Upgrades - None

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)
OKGE	Woodward EHV 138kV Phase Shifting Transformer circuit #1	Install one (1) 138 kV phase shifting transformer along with upgrading relay, protective, and metering equipment, and all associated and miscellaneous materials.	6/1/2017	6/1/2018
SPS	EDDY CO 230kV Bus Tie	Build the 230kV main and transfer bus to a double breaker double bus.	1/1/2017	12/15/2018

Planned 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)
WERE	SWISSVALE - WEST GARDNER 345KV CKT 1 WERE	Replace terminal equipment.	6/1/2017	6/1/2017

Expansion Plan 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)
NPPD	Cherry Co. - Gentleman 345 kV Ckt 1	Build new 110-mile 345 kV line from Gerald Gentleman Station substation to new Cherry County substation. This upgrade is contingent upon approval from Western Area Power Administration ("WAPA") to tap the Grand Island - Fort Thompson 345 kV line.	10/1/2016	6/1/2018
SPS	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	Upgrade wavetrap at Amarillo South interchange - Swisher County Interchange.	1/1/2017	6/1/2020
SPS	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	Rebuild 3 miles of 397 ACSR from Canyon East Sub to Randall County Interchange with 795 ACSR conductor.	1/1/2017	6/1/2017
SPS	CANYON WEST SUB - DAWN SUB 115KV CKT 1	Rebuild 13.7-mile 115 kV line from Canyon West to Dawn.	1/1/2017	4/1/2018
SPS	Carlisle Interchange - Wolfforth Interchange 230 kV Ckt 1	Build 15 miles of new 230 kV line from Carlisle to Wolfforth South and install necessary terminal equipment.	1/1/2017	6/1/2017
SPS	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	Rebuild 8.4-mile 115 kV line from Dawn to Panda.	1/1/2017	4/1/2018
SPS	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	Rebuild 3.5-mile 115 kV line from Deaf Smith to Panda.	1/1/2017	4/1/2018
SPS	INTREPDW_TP3115.00 - POTASH JUNCTION INTERCHANGE 115KV CKT 1	Rebuild 1.5-mile 115 kV line from Intrepid West Tap to Potash Junction.	6/1/2017	11/16/2018
WERE	Multi - Geary County 345/115 kV and Geary - Chapman 115 kV	Build new Geary County 345/115 kV substation south of Junction City where JEC-Summit and McDowell Creek-Junction City #2 ckt separate. Construct new Geary County - Chapman 115 kV line.	6/1/2016	6/1/2018
WERE	Multi - Viola 345/138kV Transformer and 138 kV Lines to Clearwater and Gill	Install 345/138 kV transformer at future Viola 345 kV substation. Build 138kV line from Viola to Clearwater substation. Build 138 kV line from Viola to Gill substation	6/1/2016	6/1/2019

Table 4 - Upgrade Requirements and Solutions Needed to Provide Transmission Service for the Aggregate Study

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)
AEPW	Marlow - Rush Springs Tap 138 kV Ckt 1 Rebuild	Rebuild 9.05-mile 138 kV line from Marlow to Rush Springs with 1533.3 ACSR/TW conductor.	6/1/2024	6/1/2024
MIDW	HEIZER (HEIZER T4) 115/69/12.5KV TRANSFORMER CKT 4	Upgrade Heizer 115/69/12.5KV transformer.	6/1/2021	6/1/2021
SPS	AMOCO - SUNDOWN 230KV TERMINAL UPGRADES	Upgrade switches and wave traps at Sundown and Amoco and increase the line clearance to increase the rating of the 230 kV line from Amoco to Sundown.	6/1/2017	6/1/2018
SPS	CARLISLE INTERCHANGE - LP-DOUD_TP 3115.00 115KV CKT 1	Upgrade relays and add new EEs at Carlisle and Wolfforth substations.	6/1/2021	6/1/2021
SPS	MUSTANG - SEMINOLE 115 kV	New Mustang-Seminole 115 kV line Terminal upgrades at Mustang 115 kV Terminal upgrades at Seminole 115 kV	6/1/2017	6/1/2018
SPS	SEMINOLE INTERCHANGE 230/115 kV TRANSFORMERS 1 and 2	Upgrade Seminole Interchange 230/115 kV transformer 1 and 2.	6/1/2017	6/1/2018
SPS	SUNDOWN INTERCHANGE 230/115/13.8KV TRANSFORMER CKT 2	New 230/115 kV transformer at Sundown.	6/1/2017	6/1/2018
SPS	TOLK STATION WEST - YOAKUM COUNTY INTERCHANGE 230KV CKT 1	Upgrade 800 amp wavetrap at Tolk.	10/1/2021	10/1/2021
SPS	TUCO - YOAKUM 345 kV CKT 1 with YOAKUM 345-230 kV TRANSFORMER CKT 1	New Tuco-Yoakum 345 kV line New 345/230 kV transformer at Yoakum 345 kV bus Terminal upgrades at Tuco 345 kV Terminal upgrades at Yoakum 345 kV	6/1/2017	6/1/2018
SPS	WOLFFORTH INTERCHANGE (WH 7001668) 230/115/13.2KV TRANSFORMER CKT 1	Upgrade Wolfforth Interchange 230/115kV transformer.	6/1/2021	6/1/2021
WERE	BALDWIN CREEK 230/115KV TRANSFORMER CKT 1	Tap the Lawrence Hill - Swissvale 230kV line into the Baldwin Creek 115kV substation. Install a new 230/115kV transformer at Baldwin Creek.	6/1/2021	6/1/2021
WERE	LEC U5 - MIDLAND 230 KV CKT 1	New LEC U5 - Midland 230 kV line New 230/115 kV transformer at Midland	6/1/2021	6/1/2021

Table 4 - Upgrade Requirements and Solutions Needed to Provide Transmission Service for the Aggregate Study

Network Upgrades requiring credits per Attachment Z2 of the SPP OATT.

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	CACHE - SNYDER 138KV CKT 1	Replace Snyder wavetrap	5/21/2008	5/21/2008
AEPW	OSAGE - SHIDLER 138KV	Osage Substation: Replace Shidler 138kV line terminal primary and redundant relaying with SEL uProcessor based relays, install 3-138kV PTs, Install 1-138kV CB, Install metering, Install 2000A line Trap	1/15/2014	1/15/2014
AEPW	Shidler 138 kV	138kV four (4) Breaker ring-bus including 138kV transmission line terminal to KAMO's Remington 138kV Substation, replace grounding switch with circuit switcher, move OGE's Osage 138kV line terminal, replace relay panels on OGE's Osage and Mound Road 138kV line terminals, metering, and associated equipment.	2/8/2014	2/8/2014
KACP	LACYGNE - WEST GARDNER 345KV CKT 1	KCPL Sponsored Project to Reconductor Line to be In-Service by 6/1/2006	6/1/2006	6/1/2006
MIDW	RICE - CIRCLE 230 KV CKT 1 (MIDW PORTION)	ALL WORK REQUIRED TO CONVERT RICE - CIRCLE 115KV TO 230KV OPERATION. INCLUDES NEW 230KV 3 BREAKER RING BUS, AN EXTENSION OF THE 230KV FROM CURRENT RICE STATION TO NEW RICE SUBSTATION, AND ANY ADDITIONAL WORK REQUIRED FOR THE CONVERSION.	11/7/2012	11/7/2012
MIDW	RICE - CIRCLE 230 KV CKT 1 (WR PORTION)	Install necessary equipment and perform line work at Circle substation to accommodate new bus position.	11/29/2012	11/29/2012
MIDW	RICE - LYONS 115 KV CKT 1	Rebuild and extend 115 kV transmission line from existing Rice Co. substation to new Rice Co. substation, including engineering, surveying, and modification of existing easements as required.	4/1/2013	4/1/2013
MIDW	RICE COUNTY 230/115 KV TRANSFORMER CKT 1	Install 230/115 kV transformer at Rice County.	10/1/2012	10/1/2012
MKEC	BARBER - SAWYER 115KV CKT 1	Rebuild line	12/1/2009	6/1/2013
MKEC	CLIFTON - GREENLEAF 115KV CKT 1	Rebuild 14.4 miles	6/1/2011	6/1/2013
MKEC	FLATRDG3 - HARPER 138KV CKT 1	Rebuild 24.15 mile line	12/1/2009	6/1/2013
MKEC	FLATRDG3 - MEDICINE LODGE 138KV CKT 1	Rebuild 8.05 mile line	12/1/2009	6/1/2013
MKEC	FT. DODGE - NORTH FT. DODGE 115 KV CKT 2	Build approximately 0.5 mile 115 kV line	5/1/2015	5/1/2015
MKEC	GREENLEAF - KNOB HILL 115KV CKT 1 (MKEC)	Rebuild 43.5% Ownership of 20.9 miles	6/1/2013	6/1/2013
MKEC	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	Upgrade transformer	12/1/2009	6/1/2013
MKEC	RIVER ROAD - SAWYER 115KV CKT 1	Rebuild line	12/1/2009	6/1/2013
NPPD	STEELE CITY 115KV SUBSTATION ADDITION	Install one (1) 115 kV bus-tie circuit breaker and associated switches, structures, and associated equipment.	11/15/2013	11/15/2013
OKGE	MATHEWSON - NORTHWEST 345KV CKT 1	Build 345 kV line	1/1/2010	1/1/2010
OKGE	MATHEWSON - TATONGA 345KV CKT 1	Build 345 kV line	1/1/2010	1/1/2010
OKGE	RENFROW 345KV SUBSTATION	Install one (1) 345 kV, 3000 amp circuit breaker, line relaying, disconnect switches, and associated equipment. Add one (1) 345 kV line terminal including dead-end structure, substation steel, substation bus, interconnection metering, line switch and associated equipment.	11/12/2015	11/12/2015
OKGE	TATONGA 345KV SUBSTATION ADDITION (DEWEY CO)	Add one (1) 345 kV line terminal including dead-end structure, substation steel, substation bus, interconnection metering, line relaying, line switches and associated equipment including CTs and PTs.	9/24/2014	9/24/2014
OKGE	TATONGA 345KV SUBSTATION ADDITION (BLAINE CO)	Add one (1) 345 kV line terminal including dead-end structure, substation steel, substation bus, interconnection metering, line relaying, line switches and associated equipment including CTs and PTs.	5/18/2014	5/18/2014
OKGE	TATONGA - WOODWARD 345KV CKT 1	Build 345 kV line	1/1/2010	1/1/2010
OKGE	WOODWARD EHV 138KV PHASE SHIFTING TRANSFORMER CIRCUIT #1	Install one (1) 138 kV phase shifting transformer along with upgrading relay, protective, and metering equipment, and all associated and miscellaneous materials.	8/2/2017	8/2/2017
SPS	HARRINGTON MID - NICHOLS 230 KV CKT 2	Reconductor Harrington Mid - Nichols 230kV. Replace switches and breakers to get circuit to 727/727 MVA rating. New limit should be bus rating.	12/1/2012	12/1/2012
SPS	HARRINGTON WEST - NICHOLS 230KV CKT 1	Reconductor Harrington West - Nichols 230kV. Replace switches and breakers to get circuit to 727/727 MVA rating. New limit should be bus rating.	12/1/2012	12/1/2012
SPS	PLANT X - TOLK 230KV REBUILD CIRCUIT #1	Rebuild Plant X – Tolk 230kV transmission circuit #1 which is approximately 10 miles in length. The existing 795 MCM ACSR conductor will be replaced with 995 MCM ACCS conductor along with upgrading associated disconnect switches, structural steel, foundat	12/31/2017	12/31/2017
SPS	PLANT X - TOLK 230KV REBUILD CIRCUIT #2	Rebuild Plant X – Tolk 230kV transmission circuit #2 which is approximately 10 miles in length. The existing 795 MCM ACSR conductor will be replaced with 995 MCM ACCS conductor along with upgrading associated disconnect switches, structural steel, foundat	12/31/2017	12/31/2017
SPS	POWER SYSTEM STABILIZERS IN SPS	Install Power System Stabilizers (PSS) at Tolk (Units: 1,2) and Jones (Units: 1,2,3). Costs allocated to ASGI-2011-004, GEN-2011-045, GEN-2011-046, & GEN-2011-048.	11/30/2014	11/30/2014

Table 4 - Upgrade Requirements and Solutions Needed to Provide Transmission Service for the Aggregate Study

SPS	TUCO INTERCHANGE 345/230KV CKT 1 REPLACEMENT	The existing 345/230kV 560/560MVA autotransformer at Tuco Substation will be replaced with a new transformer unit to match the other transformer at this site. The new transformer can be installed at Tuco Substation by removing the existing transformer fro	6/1/2018	6/1/2018
WERE	MARSHALL CO POI Nus	Construct interconnection switching station on the Knob Hill - South Seneca 115kV. Station to include the following Network Upgrades: (NUs) (3) 115kV breakers, (7) 115kV double end switches, (2) 115kV double end motor operated switches, (6) CCVTs, (2) 115kV wave traps, (2) 115kV dead end structures, and all other associated equipment totaling approximately \$5,272,127	9/19/2014	9/19/2014
WERE	WHEATLAND 115 KV #2	Install metering equipment at the Wheatland 115 kV substation for GEN-2010-057	12/31/2012	12/31/2012

Table 5 - Third Party Facility Constraints

Transmission Owner	UpgradeName	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
None					

Table 7- Service Upgrade Cost Allocation per Request

Upgrade Name	Customer	Study Number	Reservation	Allocation Percentage	Allocated E & C Cost
None	None	None	0	0.00%	\$0
				Total:	\$0