



Aggregate Facility Study

SPP-2011-AGP1-AFS-8

8/16/2012

SPP Engineering, SPP Transmission Service Studies



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Executive Summary

Pursuant to Attachment Z1 of the Southwest Power Pool, Inc. (SPP) Open Access Transmission Tariff (OATT), 4554 MW of long-term transmission service requests have been studied in this Aggregate Facility 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. A highly tangible benefit of studying transmission requests aggregately under the SPP OATT Attachment Z1 is the sharing of costs among Transmission Customers using the same facility. Facility upgrade costs are allocated on a prorated basis to all requests positively impacting any individual overloaded facility.

Attachment Z2 further provides for facility upgrade cost recovery by stating: “Transmission Customers paying Directly Assigned Upgrade Costs for Service Upgrades or that are in excess of the Safe Harbor Cost Limit for Network Upgrades associated with new or changed Designated Resources and Project Sponsors paying Directly Assigned Upgrade Costs for Sponsored Upgrades shall receive revenue credits in accordance with Attachment Z2. Generation Interconnection Customers paying for Network Upgrades shall receive credits for new transmission service using the facility as specified in Attachment Z1.”

- The AFS determined that the total assigned facility upgrade Engineering and Construction (E&C) cost is \$79 Million. Additionally, \$42 Million of assigned E&C cost for third party facility upgrades are assignable to the customer.
- Total upgrade levelized revenue requirements for all transmission requests after consideration of potential base plan funding is \$115 Million.

To accommodate the requested SPP Transmission Service, third-party facilities must be upgraded when the third-party transmission provider determines that they are constrained. Third-party facilities include both first-tier neighboring facilities outside SPP and Transmission Owner facilities within SPP that are not under the SPP OATT. In this AFS, third-party facilities were identified. Total E&C cost estimates for required third-party facility upgrades are applicable.

SPP will tender a Letter of Intent on August 16, 2012. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), SPP must receive from the Customer by August 31, 2012, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to withdraw the request or leave the request in study mode.

At the conclusion of the ATSS, Service Agreements for each request for service will be tendered identifying the terms and conditions of the confirmed service.

If Customers withdraw from the ATSS after posting of this AFS, the AFS will be re-performed to determine final cost allocation and Available Transmission Capability (ATC) in consideration of the

remaining ATSS participants. 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

Important milestones and dates in SPP's Aggregate Transmission Study process:

- In 2005, the Federal Energy Regulatory Commission (FERC) accepted SPP's proposed Aggregate Transmission Study procedures in Docket ER05-109.
- In 2008, in Docket ER08-1379-000 SPP filed with FERC to pair open seasons closing during January 2010 with an effective date of August 9, 2008.
- In January 2010, in Docket ER10-659-000 SPP filed with FERC to extend its current practice of pairing open seasons through January 31, 2011, with an effective date of January 28, 2010.
- In March 2010, in Docket ER10-659-000 FERC issued a letter order accepting SPP's proposal to continue to pair open seasons through January 31, 2011, effective January 28, 2010.
- The 2010-AG3 open season commenced June 1, 2010 and closed September 30, 2010.
- The 2011-AG1 open season commenced October 1, 2010 and closed January 31, 2011.
- All requests for long-term transmission service with a signed study agreement received before October 1, 2010 for 2010-AG3 and February 1, 2011 for 2011-AG1 have been included in the first paired Aggregate Transmission Service Study (ATSS) of 2011.

Approximately 4554 MW of long-term Transmission Service was studied in this Aggregate Facility Study (AFS), and over \$79 Million in transmission upgrades is proposed. The results of the AFS are detailed in Tables 1 through 6. Detailed results depict individual upgrade costs by study and potential base plan allowances determined by Attachments J and Z1. The [OATT](#) may be accessed at SPP's website by going to [SPP.org>Org Groups>Governing Documents](#).

To understand the extent to which Base Plan Upgrades may be applied to both Point-to-Point (PTP) and Network Transmission Services, it is necessary to highlight the definition of Designated Resource. Per Section 1.9a of the SPP OATT, a Designated Resource is:

“[a]ny 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.”

Network and PTP service has 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 Transmission Customer must provide SPP information necessary to verify that the new or changed Designated Resource meets the following conditions:

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

According to Attachment Z1 Section VI.A, PTP customers pay the higher of the monthly transmission access charge (base rate) or the monthly revenue requirement associated with the assigned facility upgrades, including any prepayments for redispatch required during construction.

Network Integration Service Customers pay the total monthly transmission access charges and the monthly revenue requirement associated with the facility upgrades, including any prepayments for redispatch during construction.

Transmission 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. The year that each Network Upgrade is required to accommodate a request is determined by interpolating between the applicable model years given the respective loading data. 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. As a result, the lowest seasonal allocated ATC within the requested reservation period will be offered to the Transmission Customer on an applicable annual basis as listed in Table 1. 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, the Transmission Provider, 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. This table also includes constrained facilities in the current planning horizon that limit the rollover rights of the Transmission Customer. Table 6 lists possible redispatch pairs to allow start of service prior to completion of assigned Network Upgrades. Table 7 (if applicable) lists deferral of expansion plan projects with different upgrades with the new required in service date as a result of this AFS.

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 2, Redispatch, in the Letter of Intent sent coincident with the initial AFS, 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 Transmission Customer shall 1) pay the total E&C costs and other annual operating costs associated with the new facilities, and 2) receive credits associated with the depreciated book value of removed usable facilities; salvage value of removed non-usable facilities; and the carrying charges, excluding depreciation, associated with all removed usable facilities based on their respective book values.

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 displaced or deferred by an earlier in service date for a requested upgrade, achievable base plan avoided revenue requirements shall be determined per Attachment J, Section VII.B methodology. 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.

Third-Party Facilities

For third-party facilities listed in Table 3 and Table 5, the Transmission Customer is responsible for funding the necessary upgrades of these facilities per Section 21.1 of the Transmission Provider's OATT. In this AFS, third-party facilities were identified. Total E&C cost estimates for required third-party facility upgrades are applicable. The Transmission Provider will undertake reasonable efforts to assist the Transmission 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 Transmission Provider 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 the Transmission Provider prior to tendering of a Transmission Service Agreement. These facilities also include those owned by members of the Transmission Provider who have not placed their facilities under the Transmission Provider's OATT. Upgrades on the Southwest Power Administration 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 for study of third party facilities for load that sinks outside the SPP footprint with the applicable Transmission Providers.

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 to ensure current SPP Criteria and NERC Reliability Standards requirements are fulfilled. SPP conforms to NERC Reliability Standards, which provide strict requirements related to voltage violations and thermal overloads during normal conditions and during a contingency. NERC Standards require all facilities to be within normal operating ratings for normal system conditions and within emergency ratings after a contingency.

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

The contingency set includes all SPP control area branches and ties 69 kV and above; first tier non-SPP control area branches and ties 115 kV and above; any defined contingencies for these control areas; and generation unit outages for the control areas with SPP reserve share program redispatch. The monitor elements include all SPP control area branches, ties, and buses 69 kV and above, 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 AECI, AMRN (Ameren), and ENTR (Entergy) control areas. A 2 % TDF cutoff was applied to WAPA. 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 seven seasonal models to study the aggregate transfers of 4554 MW over a variety of requested service periods. The following SPP Transmission Expansion Plan 2011 Build 2 Cases were used to study the impact of the requested service on the transmission system:

- 2012 Summer Peak (12SP)
- 2012/13 Winter Peak (12WP)
- 2013 Summer Peak (13SP)
- 2013/14 Winter Peak (13WP)
- 2017 Summer Peak (17SP)
- 2017/18 Winter Peak (17WP)
- 2022 Summer Peak (22SP)

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 of 4554 MW to model the requested service. From the seven seasonal models, two system scenarios were developed. Scenario 0 includes projected usage of transmission included in the SPP 2011 Series Cases. Scenario 5 includes transmission service not already included in the SPP 2011 Series Cases.

Transmission Request Modeling

Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to Generation to Generation transfers. Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to Generation to Generation because the requested Network Integration Transmission Service is a request to serve network load with the new designated network resource, and the impacts on Transmission System are determined accordingly. Point-To-Point 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. Transfer distribution factor 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.

Curtailement 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 curtailement of existing confirmed service or 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 Transmission 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. Curtailement of existing confirmed service is evaluated to provide only interim service. Curtailement of existing confirmed service is only evaluated at the request of the transmission Customer.

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 Managing and Utilizing System Transmission (MUST). Relief pairs from the generation shift factors for the incremental and decremental units with a greater than 3% TDF 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. Transmission 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 SPP Reliability Coordinator would call upon the redispatch requirements before implementing NERC TLR Level 5a.

Study Results

Study Analysis Results

Tables 1 through 6 contain the AFS steady-state analysis results. 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 and season of first impact.

Table 2 identifies total E&C cost allocated to each Transmission 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), total revenue requirements for assigned upgrades without consideration of potential base plan funding, point-to-point base rate charge, total revenue requirements for assigned upgrades with consideration of potential base plan funding, and final total cost allocation to the Transmission Customer. In addition, Table 2 identifies SWPA upgrade costs which require prepayment in addition to other allocated costs.

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

Table 5 lists identified third-party constrained facilities.

Table 6 identifies potential redispatch pairs available to relieve the aggregate impacts on identified constraints to prevent deferral of start of service.

Table 7 (if applicable) identifies deferred expansion plan projects that were replaced with requested upgrades at earlier dates.

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 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. A footnote will provide the maximum resource designation allowable for base plan funding consideration per Customer basis per year.

Base plan funding verification requires that each Transmission Customer with potential for base plan funding provide SPP attestation statements verifying that the firm capacity of the requested Designated Resource is committed for a minimum five year duration.

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.

The Transmission Provider will tender a Letter of Intent on August 16, 2012. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer) by August 31, 2012, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

The Transmission Provider must receive an unconditional and irrevocable letter of credit in the amount of the total allocated E&C costs assigned to the Customer. This letter of credit is not required for those facilities that are fully base plan funded. The amount of the letter of credit will be adjusted down on an annual basis to reflect cost recovery based on revenue allocation. The Transmission Provider will issue notifications to construct Network Upgrades to the constructing Transmission Owner after filing of necessary service agreements at FERC.

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

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date without interim redispatch	Deferred Stop Date without interim redispatch	Start Date with interim redispatch	Stop Date with interim redispatch	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period
AECC	AG1-2011-032	75197033	OKGE	OKGE	238	7/1/2015	7/1/2020	7/1/2015	7/1/2020	Note 4	Note 4	0	22SP
AECC	AG1-2011-036	75197522	SPA	OKGE	89	7/1/2015	7/1/2020	7/1/2015	7/1/2020	Note 4	Note 4	0	22SP
AECC	AG1-2011-038	75197570	CSWS	OKGE	710	7/1/2015	7/1/2020	7/1/2015	7/1/2020	Note 4	Note 4	0	22SP
AECC	AG1-2011-039	75197442	CSWS	CSWS	170	6/1/2015	6/1/2020	6/1/2015	6/1/2020	Note 4	Note 4	0	22SP
AECC	AG1-2011-040	75197472	CSWS	OKGE	170	7/1/2015	6/1/2020	7/1/2015	6/1/2020	Note 4	Note 4	0	22SP
AECC	AG1-2011-041	75197551	EES	OKGE	320	7/1/2015	7/1/2020	7/1/2015	7/1/2020	Note 4	Note 4	0	22SP
AEPM	AG1-2011-092	75191922	CSWS	CLEC	70	6/1/2014	6/1/2019	6/1/2016	6/1/2021	6/1/2016	6/1/2021	0	17SP
BPAE	AG1-2011-018	75181762	WR	AECI	50	11/1/2012	11/1/2017	6/1/2016	6/1/2021	11/1/2012	11/1/2017	0	13SP
BPAE	AG1-2011-019	75181747	WR	AECI	150	11/1/2012	11/1/2017	6/1/2016	6/1/2021	11/1/2012	11/1/2017	0	13SP
CRGL	AG1-2011-073	75199999	SECI	EES	500	7/1/2014	7/1/2019	1/1/2018	1/1/2023	1/1/2015	1/1/2020	0	22SP
CRGL	AG1-2011-079	75199802	OKGE	EES	98	12/1/2012	12/1/2032	6/1/2015	6/1/2035	12/1/2012	12/1/2032	38	13SP
CRGL	AG1-2011-081	75199815	NPPD	EES	200	12/1/2012	12/1/2032	12/1/2012	12/1/2032	12/1/2012	12/1/2032	134	13SP
FPLP	AG1-2011-107	75104152	CSWS	EES	100	1/1/2012	1/1/2032	3/1/2018	3/1/2038	11/1/2012	11/1/2032	0	12SP
HZN	AG1-2011-051	75181717	WR	AECI	100	10/1/2012	10/1/2017	6/1/2015	6/1/2020	Note 4	Note 4	0	13SP
HZN	AG1-2011-052	75181735	WR	AMRN	100	10/1/2012	10/1/2017	6/1/2015	6/1/2020	Note 4	Note 4	0	13SP
HZN	AG1-2011-053	75181741	WR	EES	100	10/1/2012	10/1/2017	6/1/2015	6/1/2020	Note 4	Note 4	0	13SP
HZN	AG1-2011-055	75181743	WFEC	EES	100	1/1/2012	1/1/2017	6/1/2015	6/1/2020	Note 4	Note 4	0	12SP
KCPS	AG1-2011-011	75181547	NPPD	KCPL	20	1/1/2014	1/1/2024	1/1/2018	1/1/2028	1/1/2014	1/1/2024	0	17SP
KCPS	AG1-2011-012	75181564	NPPD	KCPL	20	1/1/2014	1/1/2024	1/1/2018	1/1/2028	1/1/2014	1/1/2024	0	17SP
KCPS	AG1-2011-013	75181568	NPPD	KCPL	22	1/1/2014	1/1/2024	1/1/2018	1/1/2028	1/1/2014	1/1/2024	0	17SP
KCPS	AG1-2011-057	75199886	SECI	KCPL	50	8/1/2011	9/1/2013	4/1/2012	9/1/2013	4/1/2012	9/1/2013	0	12SP
KCPS	AG1-2011-061	75199893	SECI	KCPL	50	8/1/2011	9/1/2013	4/1/2012	9/1/2013	4/1/2012	9/1/2013	0	12SP
KMEA	AG1-2011-094	75200249	SPA	SECI	1	11/1/2013	12/31/2018	11/1/2013	12/1/2018	11/1/2013	12/1/2018	1	17SP
KMEA	AG1-2011-095	75199561	OPPD	WR	6	2/1/2012	2/1/2017	11/1/2012	11/1/2017	11/1/2012	11/1/2017	0	12SP
KMEA	AG1-2011-096	75200582	SECI	SECI	23	1/1/2012	6/1/2026	1/1/2018	6/1/2032	11/1/2012	4/1/2027	0	12SP
LESM	AG1-2011-006	75134451	NPPD	LES	10	10/1/2012	10/1/2017	1/1/2018	1/1/2023	11/1/2012	11/1/2017	2	13SP
MEAN	AG1-2011-044	75179416	NPPD	MEC	1	7/1/2011	7/1/2016	11/1/2012	11/1/2017	11/1/2012	11/1/2017	1	12SP
MEAN	AG1-2011-045	75179412	NPPD	MEC	2	7/1/2011	7/1/2016	11/1/2012	11/1/2017	11/1/2012	11/1/2017	2	12SP
MIDW	AG1-2011-084	75200166	WR	WR	15	6/1/2012	6/1/2017	6/1/2015	6/1/2020	11/1/2012	11/1/2017	7	12SP
MIDW	AG1-2011-085	75200168	WR	WR	5	6/1/2012	6/1/2017	6/1/2015	6/1/2020	11/1/2012	11/1/2017	2	12SP
MIDW	AG1-2011-086	75200171	WR	WR	5	6/1/2012	6/1/2017	6/1/2015	6/1/2020	11/1/2012	11/1/2017	2	12SP
MIDW	AG1-2011-087	75200180	WR	WR	5	6/1/2013	6/1/2018	6/1/2015	6/1/2020	6/1/2013	6/1/2018	2	13SP
MIDW	AG1-2011-088	75200183	WR	WR	5	6/1/2013	6/1/2018	6/1/2015	6/1/2020	6/1/2013	6/1/2018	2	13SP
NPPM	AG1-2011-066	75200206	NPPD	NPPD	1	12/1/2012	12/1/2017	12/1/2012	12/1/2017	12/1/2012	12/1/2017	0	13SP
NTEC	AG1-2011-109	75200060	CSWS	EES	125	1/1/2015	1/1/2020	1/1/2015	1/1/2020	1/1/2015	1/1/2020	0	22SP
OMPA	AG1-2011-049	75180762	CSWS	CSWS	50	6/1/2014	9/30/2018	6/1/2014	9/30/2018	6/1/2014	9/30/2018	0	17SP
OMPA	AG1-2011-050	75196276	CSWS	OKGE	3	3/1/2012	12/31/2027	11/1/2012	9/1/2028	11/1/2012	9/1/2028	0	12SP
OPPM	AG1-2011-026	75180047	NPPD	OPPD	18	12/1/2012	12/1/2017	1/1/2018	1/1/2023	12/1/2012	12/1/2017	4	13SP
SECI	AG1-2011-108	75173900	SECI	SECI	80	7/1/2012	7/1/2032	6/1/2016	6/1/2036	11/1/2012	11/1/2032	0	13SP
SPSM	AG1-2011-064	75197996	SPS	SPS	42	6/1/2012	6/1/2045	6/1/2015	6/1/2048	9/1/2012	9/1/2045	0	12SP
SPSM	AG1-2011-065	75197998	SPS	SPS	29	6/1/2012	6/1/2032	6/1/2015	6/1/2035	9/1/2012	9/1/2032	0	12SP
TNSK	AG1-2011-029	75108845	KCPL	ERCOTE	44	8/1/2011	6/1/2014	Note 3	Note 3	11/1/2012	6/1/2014	0	12SP
TNSK	AG1-2011-030	75108838	KCPL	ERCOTE	6	8/1/2011	6/1/2014	11/1/2012	6/1/2014	11/1/2012	6/1/2014	0	12SP
WFEC	AG1-2011-097	75179329	CSWS	WFEC	150	1/1/2012	1/1/2037	3/1/2018	3/1/2043	11/1/2012	11/1/2037	0	12SP

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

WRGS	AG1-2011-002	74977737	OKGE	WR	300	1/1/2016	6/1/2027	6/1/2016	11/1/2027	1/1/2016	6/1/2027	0	22SP
WRGS	AG1-2011-003	75021167	WR	WR	201	10/1/2012	1/1/2032	6/1/2016	9/1/2035	11/1/2012	2/1/2032	0	13SP

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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.

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

Customer	Study Number	Reservation	Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	¹ Letter of Credit Amount Required	² Potential Base Plan Engineering and Construction Funding Allowable	Notes	⁴ Additional Engineering and Construction Cost for 3rd Party Upgrades	^{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
AECC	AG1-2011-032	75197033	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
AECC	AG1-2011-036	75197522	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
AECC	AG1-2011-038	75197570	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
AECC	AG1-2011-039	75197442	\$ 287,019	\$ -	\$ 287,019		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
AECC	AG1-2011-040	75197472	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
AECC	AG1-2011-041	75197551	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
AEPM	AG1-2011-092	75191922	\$ 289,099	\$ -	\$ 289,099		\$ 38,274,284	\$ -	\$ -	Schedule 9 & 11 Charges
BPAE	AG1-2011-018	75181762	\$ 4,306,865	\$ 4,306,865	\$ -		\$ 335,907	\$ 7,647,418	\$ 2,634,000	\$ 7,647,418
BPAE	AG1-2011-019	75181747	\$ 12,921,402	\$ 12,921,402	\$ -		\$ 1,007,721	\$ 22,943,670	\$ 7,902,000	\$ 22,943,670
CRGL	AG1-2011-073	75199999	\$ 29,521,858	\$ 29,521,860	\$ -		\$ 31,655	\$ 59,409,870	\$ 38,400,000	\$ 59,409,870
CRGL	AG1-2011-079	75199802	\$ 3,309,307	\$ 3,309,307	\$ -		\$ 781,658	\$ 9,763,655	\$ 30,105,600	\$ 30,105,600
CRGL	AG1-2011-081	75199815	\$ -	\$ -	\$ -		\$ 4,334	\$ -	\$ 61,440,000	\$ 61,440,000
FPLP	AG1-2011-107	75104152	\$ 2,935,752	\$ 2,935,752	\$ -		\$ 811,394	\$ 8,685,671	\$ 30,720,000	\$ 30,720,000
HZN	AG1-2011-051	75181717	\$ 460	\$ 460	\$ -	6,8	\$ 63,740	\$ 760	\$ 5,268,000	\$ 5,268,000
HZN	AG1-2011-052	75181735	\$ 457	\$ 457	\$ -	7,8	\$ 49,322	\$ 755	\$ 5,268,000	\$ 5,268,000
HZN	AG1-2011-053	75181741	\$ 417	\$ 417	\$ -		\$ 6,909	\$ 689	\$ 7,680,000	\$ 7,680,000
HZN	AG1-2011-055	75181743	\$ 2,712,327	\$ 2,712,327	\$ -		\$ 827,030	\$ 6,020,503	\$ 7,680,000	\$ 7,680,000
KCPS	AG1-2011-011	75181547	\$ 695,085	\$ -	\$ 695,085		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KCPS	AG1-2011-012	75181564	\$ 671,766	\$ -	\$ 671,766		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KCPS	AG1-2011-013	75181568	\$ 736,161	\$ -	\$ 736,161		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KCPS	AG1-2011-057	75199886	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 746,300	\$ 746,300
KCPS	AG1-2011-061	75199893	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 746,300	\$ 746,300
KMEA	AG1-2011-094	75200249	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KMEA	AG1-2011-095	75199561	\$ -	\$ -	\$ -	9	\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KMEA	AG1-2011-096	75200582	\$ 51,721	\$ -	\$ 51,721		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
LESM	AG1-2011-006	75134451	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
MEAN	AG1-2011-044	75179416	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 64,800	\$ 64,800
MEAN	AG1-2011-045	75179412	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 129,600	\$ 129,600
MIDW	AG1-2011-084	75200166	\$ 1,709,577	\$ -	\$ 1,709,577		\$ 185	\$ -	\$ -	Schedule 9 & 11 Charges
MIDW	AG1-2011-085	75200168	\$ 569,859	\$ -	\$ 569,859		\$ 62	\$ -	\$ -	Schedule 9 & 11 Charges
MIDW	AG1-2011-086	75200171	\$ 569,859	\$ -	\$ 569,859		\$ 62	\$ -	\$ -	Schedule 9 & 11 Charges
MIDW	AG1-2011-087	75200180	\$ 569,859	\$ -	\$ 569,859		\$ 62	\$ -	\$ -	Schedule 9 & 11 Charges
MIDW	AG1-2011-088	75200183	\$ 569,859	\$ -	\$ 569,859		\$ 62	\$ -	\$ -	Schedule 9 & 11 Charges
NPPM	AG1-2011-066	75200206	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 110,239	\$ 110,239
NTEC	AG1-2011-109	75200060	\$ -	\$ -	\$ -		\$ 3,523	\$ -	\$ 9,600,000	\$ 9,600,000
OMPA	AG1-2011-049	75180762	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
OMPA	AG1-2011-050	75196276	\$ 3,049,257	\$ -	\$ 3,049,257		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
OPPM	AG1-2011-026	75180047	\$ 303,057	\$ -	\$ 303,057		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
SECI	AG1-2011-108	75173900	\$ 1,624,454	\$ 228,780	\$ 1,395,674		\$ -	\$ 552,352	\$ -	\$ 552,352
SPSM	AG1-2011-064	75197996	\$ 11,210	\$ -	\$ 11,210		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
SPSM	AG1-2011-065	75197998	\$ 7,740	\$ -	\$ 7,740		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
TNSK	AG1-2011-029	75108845	\$ 425	\$ 425	\$ -		\$ 20,280	\$ 518	\$ 1,322,928	\$ 1,322,928
TNSK	AG1-2011-030	75108838	\$ 47	\$ 47	\$ -		\$ -	\$ 57	\$ 180,399	\$ 180,399
WFEC	AG1-2011-097	75179329	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges

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

WRGS	AG1-2011-002	74977737	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
WRGS	AG1-2011-003	75021167	\$ 11,606,644	\$ -	\$ 11,606,644	\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
Grand Total			\$ 79,031,543		\$ 23,093,446		\$ 42,218,190	\$ 115,025,918	
<p>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.</p>									
<p>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.</p>									
<p>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.</p>									
<p>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.</p>									
<p>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.</p>									
<p>Note 6: Mutually exclusive with request 75181735. System impacts identified by only modeling mutually exclusive request 75181735.</p>									
<p>Note 7: Mutually exclusive with request 75181717. System impacts identified by only modeling mutually exclusive request 75181735.</p>									
<p>Note 8: ATSS cost allocation includes all customer mutually exclusive requests in SPP-2011-AGP1.</p>									
<p>Note 9: The estimated engineering and construction cost for the Pawnee to Larned 115 kV line has a 2009 year effective date. This estimate will be updated with a 2012 year effective date.</p>									

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

Customer Study Number
 AECC AG1-2011-032

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	75197033	OKGE	OKGE	238	7/1/2015	7/1/2020			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75197033	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

Customer Study Number
 AECC AG1-2011-036

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	75197522	SPA	OKGE	89	7/1/2015	7/1/2020			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75197522	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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
75197522	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2009	6/1/2009		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	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

Customer Study Number
 AECC AG1-2011-038

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	75197570	CSWS	OKGE	710	7/1/2015	7/1/2020			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75197570	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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
75197570	ALBION - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	CANTON - TALOGA 69KV CKT 1	6/1/2011	6/1/2013		
	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	6/1/2015	6/1/2015		
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2013		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2009	6/1/2009		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	FT RANDAL - MADISONCO 230.00 230KV CKT 1	10/1/2013	11/1/2014		
	G03-05T 138.00 - PARADISE 138KV CKT 1	6/1/2010	6/1/2013		
	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2013	6/1/2013		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	KELLY - MADISONCO 230.00 230KV CKT 1	10/1/2013	11/1/2014		
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SE TEXARKANA - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUGAR HILL - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1	10/1/2010	6/1/2013		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	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

Customer Study Number
 AECC AG1-2011-039

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	75197442	CSWS	CSWS	170	6/1/2015	6/1/2020			\$ 287,019	\$ -	\$ 287,019	\$ 521,496
									\$ 287,019	\$ -	\$ 287,019	\$ 521,496

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75197442	5 TRIBES - PECAN CREEK 161KV CKT 1 Accelerate	6/1/2014	6/1/2015			\$ 287,019	\$ 485,403	\$ 521,496
Total						\$ 287,019	\$ 485,403	\$ 521,496

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
75197442	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SE TEXARKANA - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SUGAR HILL - TURK 138KV CKT 1	7/1/2012	7/1/2012		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75197442	Per Entergy Affected Facility Study ICTT-ASA-2011-013	6/1/2017	6/1/2017			\$ -	\$ -
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

Customer Study Number
 AECC AG1-2011-040

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	75197472	CSWS	OKGE	170	7/1/2015	6/1/2020			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75197472	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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
75197472	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2013		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2009	6/1/2009		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2013	6/1/2013		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	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

Customer Study Number
 AECC AG1-2011-041

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	75197551	EES	OKGE	320	7/1/2015	7/1/2020			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75197551	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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
75197551	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	6/1/2015	6/1/2015		
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2013		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2009	6/1/2009		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	FT RANDAL - MADISONCO 230.00 230KV CKT 1	10/1/2013	11/1/2014		
	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2013	6/1/2013		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	KELLY - MADISONCO 230.00 230KV CKT 1	10/1/2013	11/1/2014		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUGAR HILL - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	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

Customer Study Number
 AEPM AG1-2011-092

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
AEPM	75191922	CSWS	CLEC	70	6/1/2014	6/1/2019	6/1/2016	6/1/2021	\$ 289,099	\$ -	\$ 289,099	\$ 854,350
									\$ 289,099	\$ -	\$ 289,099	\$ 854,350

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75191922	BEAVER - EUREKA SPRINGS 161KV CKT 1 AEPW	6/1/2013	6/1/2015		Yes	\$ 289,099	\$ 2,635,666	\$ 854,350
Total						\$ 289,099	\$ 2,635,666	\$ 854,350

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
75191922	ALBION - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	6/1/2015	6/1/2015		
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2013		
	DEARING 138KV Capacitor	6/1/2012	6/1/2012		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2009	6/1/2009		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	FT RANDAL - MADISONCO 230.00 230KV CKT 1	10/1/2013	11/1/2014		
	G03-05T 138.00 - PARADISE 138KV CKT 1	6/1/2010	6/1/2013		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 OKGE	1/1/2012	1/1/2012		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 WFEC	1/1/2012	1/1/2012		
	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2013	6/1/2013		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	KELLY - MADISONCO 230.00 230KV CKT 1	10/1/2013	11/1/2014		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SE TEXARKANA - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUGAR HILL - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1	10/1/2010	6/1/2013		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

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

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75191922	3GRENWD - HUMPHREY 115KV CKT 1 EES	6/1/2018	6/1/2018			\$ 675,000	\$ 675,000
	3GRENWD - TERREBONNE 115KV CKT 1 EES	6/1/2014	6/1/2016		No	\$ 12,700,000	\$ 12,700,000
	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 3,369	\$ 100,000
	BEAVER - EUREKA SPRINGS 161KV CKT 1 SWPA	6/1/2013	6/1/2015		Yes	\$ 453,009	\$ 4,130,000
	GRIMES - MT. ZION 138KV CKT 1	6/1/2014	6/1/2016		No	\$ 14,966,895	\$ 14,966,895
	HUNTSVILLE - LINE 558 TAP 138KV CKT 1	6/1/2014	6/1/2016		No	\$ 4,309,985	\$ 4,309,985
	LINE 558 TAP - MT. ZION 138KV CKT 1	6/1/2014	6/1/2016		No	\$ 5,166,026	\$ 5,166,026
					Total	\$ 38,274,284	\$ 42,047,906

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
BPAE AG1-2011-018

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
BPAE	75181762	WR	AECI	50	11/1/2012	11/1/2017	6/1/2016	6/1/2021	\$ -	\$ 2,634,000	\$ 4,306,865	\$ 7,647,418
									\$ -	\$ 2,634,000	\$ 4,306,865	\$ 7,647,418

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75181762	BEAVER - EUREKA SPRINGS 161KV CKT 1 AEPW	6/1/2013	6/1/2015		Yes	\$ 205,659	\$ 2,635,666	\$ 454,271
	BLUE SPRING SOUTH - BLUE SPRINGS EAST 161KV CKT 1 #1 Accelerate	6/1/2013	6/1/2015		Yes	\$ 384	\$ 3,344	\$ 511
	GOODYEAR JUNCTION - INDIAN HILLS 115KV CKT 1	6/1/2014	6/1/2016		Yes	\$ 948,277	\$ 12,944,465	\$ 1,665,797
	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017			\$ 3,046,296	\$ 49,623,119	\$ 5,378,028
	MIDWAY - ST JOE 161KV CKT 1 Reactor	6/1/2014	6/1/2014			\$ 106,249	\$ 425,000	\$ 148,811
Total						\$ 4,306,865	\$ 65,631,594	\$ 7,647,418

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
75181762	IATAN - NASHUA 345KV CKT 1	11/1/2012	6/1/2015		

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
75181762	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1 #1	6/1/2014	6/1/2015		Yes
	Brookline - Compton Ridge 345 kV EMDE	6/1/2018	6/1/2018		
	Brookline - Compton Ridge 345 kV SPRM	6/1/2018	6/1/2018		
	Compton Ridge 345/161 kV Transformer	6/1/2018	6/1/2018		
	Multi - Shipe - Osage Creek 345 kV	6/1/2013	6/1/2016		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
75181762	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75181762	5ELDON - BARNETT 161KV CKT 1 AECI	10/1/2014	10/1/2014			\$ 3,539	\$ 100,000
	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 3,805	\$ 100,000
	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014				
	BEAVER - EUREKA SPRINGS 161KV CKT 1 SWPA	6/1/2013	6/1/2015		Yes	\$ 322,261	\$ 4,130,000
	CLAY - SPRINGFIELD 161KV CKT 1 SWPA #1	6/1/2013	6/1/2014			\$ 6,302	\$ 50,000
Total						\$ 335,907	\$ 4,380,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
BPAE AG1-2011-019

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
BPAE	75181747	WR	AECI	150	11/1/2012	11/1/2017	6/1/2016	6/1/2021	\$ -	\$ 7,902,000	\$ 12,921,402	\$ 22,943,670
									\$ -	\$ 7,902,000	\$ 12,921,402	\$ 22,943,670

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75181747	BEAVER - EUREKA SPRINGS 161KV CKT 1 AEPW	6/1/2013	6/1/2015		Yes	\$ 616,978	\$ 2,635,666	\$ 1,362,814
	BLUE SPRING SOUTH - BLUE SPRINGS EAST 161KV CKT 1 #1 Accelerate	6/1/2013	6/1/2015		Yes	\$ 1,153	\$ 3,344	\$ 1,535
	GOODYEAR JUNCTION - INDIAN HILLS 115KV CKT 1	6/1/2014	6/1/2016		Yes	\$ 2,845,631	\$ 12,944,465	\$ 4,998,796
	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017			\$ 9,138,889	\$ 49,623,119	\$ 16,134,085
	MIDWAY - ST JOE 161KV CKT 1 Reactor	6/1/2014	6/1/2014			\$ 318,751	\$ 425,000	\$ 446,439
Total						\$ 12,921,402	\$ 65,631,594	\$ 22,943,670

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
75181747	IATAN - NASHUA 345KV CKT 1	11/1/2012	6/1/2015		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
75181747	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1 #1	6/1/2014	6/1/2015		Yes
	Brookline - Compton Ridge 345 kV EMDE	6/1/2018	6/1/2018		
	Brookline - Compton Ridge 345 kV SPRM	6/1/2018	6/1/2018		
	Compton Ridge 345/161 kV Transformer	6/1/2018	6/1/2018		
	Multi - Shipe - Osage Creek 345 kV	6/1/2013	6/1/2016		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
75181747	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75181747	5ELDON - BARNETT 161KV CKT 1 AECI	10/1/2014	10/1/2014			\$ 10,616	\$ 100,000
	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 11,414	\$ 100,000
	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014				
	BEAVER - EUREKA SPRINGS 161KV CKT 1 SWPA	6/1/2013	6/1/2015		Yes	\$ 966,784	\$ 4,130,000
	CLAY - SPRINGFIELD 161KV CKT 1 SWPA #1	6/1/2013	6/1/2014		Yes	\$ 18,907	\$ 50,000
Total						\$ 1,007,721	\$ 4,380,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
CRGL AG1-2011-073

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
CRGL	75199999	SECI	EES	500	7/1/2014	7/1/2019	1/1/2018	1/1/2023	\$ -	\$ 38,400,000	\$ 29,521,858	\$ 59,409,872
									\$ -	\$ 38,400,000	\$ 29,521,858	\$ 59,409,872

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75199999	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC Accelerate	11/1/2012	6/1/2016		Yes	\$ 673,605	\$ 826,459	\$ 1,522,164
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE Accelerate	11/1/2012	6/1/2016		Yes	\$ 1,584,902	\$ 1,944,548	\$ 3,129,630
	GOODYEAR JUNCTION - INDIAN HILLS 115KV CKT 1	6/1/2014	6/1/2016		Yes	\$ 6,036,673	\$ 12,944,465	\$ 11,963,084
	HARPER - MILAN TAP 138KV CKT 1 #1 Accelerate	11/1/2012	6/1/2014		Yes	\$ 58,590	\$ 71,885	\$ 151,287
	HARPER - MILAN TAP 138KV CKT 1 #2 Accelerate	11/1/2012	6/1/2016		Yes	\$ 1,786,477	\$ 2,191,864	\$ 4,036,953
	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017		Yes	\$ 19,381,611	\$ 49,623,119	\$ 38,606,754
Total						\$ 29,521,858	\$ 67,602,340	\$ 59,409,872

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
75199999	Line - Clark County - Thistle 345 kV dbl Ckt	11/1/2012	1/1/2015		No
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	11/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	11/1/2012	7/1/2014		
	Line - Spearville - Clark County 345 kV dbl Ckt	11/1/2012	1/1/2015		No
	Line - Thistle - Wichita 345 kV dbl Ckt PW	11/1/2012	1/1/2015		No
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	11/1/2012	1/1/2015		No
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	11/1/2012	1/1/2015		No
	Line - Thistle - Woodward 345 kV dbl Ckt PW	11/1/2012	1/1/2015		No
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		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
75199999	Cherry Co - Gentleman 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co - Holt Co 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co 345 kV Terminal Upgrades	10/1/2014	1/1/2018		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
75199999	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75199999	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 31,655	\$ 100,000
	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014				
Total						\$ 31,655	\$ 100,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
CRGL AG1-2011-079

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
CRGL	75199802	OKGE	EES	98	12/1/2012	12/1/2032	6/1/2015	6/1/2035	\$ -	\$ 30,105,600	\$ 3,309,307	\$ 9,763,655
									\$ -	\$ 30,105,600	\$ 3,309,307	\$ 9,763,655

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75199802	BEAVER - EUREKA SPRINGS 161KV CKT 1 AEPW	6/1/2013	6/1/2015		Yes	\$ 486,285	\$ 2,635,666	\$ 1,802,142
	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017			\$ 2,823,022	\$ 49,623,119	\$ 7,961,513
Total						\$ 3,309,307	\$ 52,258,785	\$ 9,763,655

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
75199802	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75199802	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 7,146	\$ 100,000
	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014				
	BEAVER - EUREKA SPRINGS 161KV CKT 1 SWPA	6/1/2013	6/1/2015		Yes	\$ 761,992	\$ 4,130,000
	CLAY - SPRINGFIELD 161KV CKT 1 SWPA #1	6/1/2013	6/1/2014		Yes	\$ 12,520	\$ 50,000
Total						\$ 781,658	\$ 4,280,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
CRGL AG1-2011-081

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
CRGL	75199815	NPPD	EES	200	12/1/2012	12/1/2032			\$ -	\$ 61,440,000	\$ -	\$ -
									\$ -	\$ 61,440,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75199815	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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
75199815	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75199815	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 4,334	\$ 100,000
	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014				
					Total	\$ 4,334	\$ 100,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
FPLP AG1-2011-107

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
FPLP	75104152	CSWS	EES	100	1/1/2012	1/1/2032	3/1/2018	3/1/2038	\$ -	\$ 30,720,000	\$ 2,935,752	\$ 8,685,671
									\$ -	\$ 30,720,000	\$ 2,935,752	\$ 8,685,671

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75104152	BEAVER - EUREKA SPRINGS 161KV CKT 1 AEPW	6/1/2013	6/1/2015		Yes	\$ 513,847	\$ 2,635,666	\$ 1,891,688
	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	11/1/2012	6/1/2014		Yes	\$ 77,579	\$ 96,530	\$ 221,902
	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017			\$ 2,344,326	\$ 49,623,119	\$ 6,572,082
						\$ 2,935,752	\$ 52,355,315	\$ 8,685,671

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
75104152	Line - Clark County - Thistle 345 kV dbl Ckt	11/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	11/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	11/1/2012	7/1/2014		Yes
	Line - Spearville - Clark County 345 kV dbl Ckt	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbl Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbl Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		Yes
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		Yes
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		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
75104152	Cherry Co - Gentleman 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co - Holt Co 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co 345 kV Terminal Upgrades	10/1/2014	1/1/2018		Yes
	Elk City 345/230 kV	10/1/2014	3/1/2018		Yes
	Elk City to Gracemont 345kV AEPW	10/1/2014	3/1/2018		Yes
	Elk City to Gracemont 345kV OKGE	10/1/2014	3/1/2018		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
75104152	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	6/1/2015	6/1/2015		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 OKGE	1/1/2012	1/1/2012		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 WFEC	1/1/2012	1/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	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		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75104152	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 6,213	\$ 100,000
	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014				
	BEAVER - EUREKA SPRINGS 161KV CKT 1 SWPA	6/1/2013	6/1/2015		Yes	\$ 805,181	\$ 4,130,000
					Total	\$ 811,394	\$ 4,230,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
 HZN AG1-2011-051

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
HZN	75181717	WR	AECI	100	10/1/2012	10/1/2017	6/1/2015	6/1/2020	\$ -	\$ 5,268,000	\$ 460	\$ 760
									\$ -	\$ 5,268,000	\$ 460	\$ 760

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75181717	BLUE SPRING SOUTH - BLUE SPRINGS EAST 161KV CKT 1 #1 Accelerate	6/1/2013	6/1/2015			\$ 460	\$ 3,344	\$ 760
Total						\$ 460	\$ 3,344	\$ 760

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
75181717	IATAN - NASHUA 345KV CKT 1	11/1/2012	6/1/2015		

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
75181717	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1 #1	6/1/2014	6/1/2015		

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
75181717	BURLINGTON JUNCTION - COFFEY COUNTY NO. 3 WESTPHALIA 69KV CKT 1	11/1/2012	7/1/2013		
	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1	11/1/2012	6/1/2013		
	COFFEY COUNTY NO. 3 WESTPHALIA - GREEN 69KV CKT 1	11/1/2012	12/1/2013		

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
75181717	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75181717	5ELDON - BARNETT 161KV CKT 1 AECI	10/1/2014	10/1/2014			\$ 43,866	\$ 100,000
	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 7,603	\$ 100,000
	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014				
	CLAY - SPRINGFIELD 161KV CKT 1 SWPA #1	6/1/2013	6/1/2014			\$ 12,271	\$ 50,000
Total						\$ 63,740	\$ 250,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
 HZN AG1-2011-052

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
HZN	75181735	WR	AMRN	100	10/1/2012	10/1/2017	6/1/2015	6/1/2020	\$ -	\$ 5,268,000	\$ 457	\$ 755
									\$ -	\$ 5,268,000	\$ 457	\$ 755

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75181735	BLUE SPRING SOUTH - BLUE SPRINGS EAST 161KV CKT 1 #1 Accelerate	6/1/2013	6/1/2015			\$ 457	\$ 3,344	\$ 755
Total						\$ 457	\$ 3,344	\$ 755

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
75181735	IATAN - NASHUA 345KV CKT 1	11/1/2012	6/1/2015		

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
75181735	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1 #1	6/1/2014	6/1/2015		

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
75181735	BURLINGTON JUNCTION - COFFEY COUNTY NO. 3 WESTPHALIA 69KV CKT 1	11/1/2012	7/1/2013		
	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1	11/1/2012	6/1/2013		
	COFFEY COUNTY NO. 3 WESTPHALIA - GREEN 69KV CKT 1	11/1/2012	12/1/2013		

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
75181735	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75181735	5ELDON - BARNETT 161KV CKT 1 AECI	10/1/2014	10/1/2014			\$ 41,980	\$ 100,000
	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 7,342	\$ 100,000
	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014				
Total						\$ 49,322	\$ 200,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
 HZN AG1-2011-053

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
HZN	75181741	WR	EES	100	10/1/2012	10/1/2017	6/1/2015	6/1/2020	\$ -	\$ 7,680,000	\$ 417	\$ 689
									\$ -	\$ 7,680,000	\$ 417	\$ 689

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75181741	BLUE SPRING SOUTH - BLUE SPRINGS EAST 161KV CKT 1 #1 Accelerate	6/1/2013	6/1/2015			\$ 417	\$ 3,344	\$ 689
Total						\$ 417	\$ 3,344	\$ 689

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
75181741	IATAN - NASHUA 345KV CKT 1	11/1/2012	6/1/2015		

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
75181741	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1 #1	6/1/2014	6/1/2015		

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
75181741	BURLINGTON JUNCTION - COFFEY COUNTY NO. 3 WESTPHALIA 69KV CKT 1	11/1/2012	7/1/2013		
	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1	11/1/2012	6/1/2013		
	COFFEY COUNTY NO. 3 WESTPHALIA - GREEN 69KV CKT 1	11/1/2012	12/1/2013		

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
75181741	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75181741	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 6,909	\$ 100,000
	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014				
Total						\$ 6,909	\$ 100,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
 HZN AG1-2011-055

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
HZN	75181743	WFEC	EES	100	1/1/2012	1/1/2017	6/1/2015	6/1/2020	\$ -	\$ 7,680,000	\$ 2,712,327	\$ 6,020,503
									\$ -	\$ 7,680,000	\$ 2,712,327	\$ 6,020,503

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75181743	5 TRIBES - PECAN CREEK 161KV CKT 1 Accelerate	6/1/2014	6/1/2015			\$ 198,384	\$ 485,403	\$ 360,451
	BEAVER - EUREKA SPRINGS 161KV CKT 1 AEPW	6/1/2013	6/1/2015			\$ 523,798	\$ 2,635,666	\$ 1,422,923
	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017			\$ 1,990,145	\$ 49,623,119	\$ 4,237,128
Total						\$ 2,712,327	\$ 52,744,188	\$ 6,020,503

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
75181743	GRACMNT4 138.00 - WASHITA 138KV CKT 2 OKGE	1/1/2012	1/1/2012		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 WFEC	1/1/2012	1/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75181743	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 6,256	\$ 100,000
	7OVERTON 345.00 (I) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014				
	BEAVER - EUREKA SPRINGS 161KV CKT 1 SWPA	6/1/2013	6/1/2015			\$ 820,774	\$ 4,130,000
Total						\$ 827,030	\$ 4,230,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
 KCPS AG1-2011-011

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
KCPS	75181547	NPPD	KCPL	20	1/1/2014	1/1/2024	1/1/2018	1/1/2028	\$ 695,085	\$ -	\$ 695,085	\$ 1,583,082
									\$ 695,085	\$ -	\$ 695,085	\$ 1,583,082

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75181547	GOODYEAR JUNCTION - INDIAN HILLS 115KV CKT 1	6/1/2014	6/1/2016			\$ 75,159	\$ 12,944,465	\$ 170,405
	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017			\$ 619,926	\$ 49,623,119	\$ 1,412,677
Total						\$ 695,085	\$ 62,567,584	\$ 1,583,082

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
75181547	IATAN - NASHUA 345KV CKT 1	11/1/2012	6/1/2015		
	Line - Clark County - Thistle 345 kV dbl Ckt	11/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	11/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	11/1/2012	7/1/2014		
	Line - Spearville - Clark County 345 kV dbl Ckt	11/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt PW	11/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	11/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	11/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt PW	11/1/2012	1/1/2015		
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		

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
75181547	Cherry Co - Gentleman 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co - Holt Co 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co 345 kV Terminal Upgrades	10/1/2014	1/1/2018		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
75181547	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - 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

Customer Study Number
 KCPS AG1-2011-012

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	75181564	NPPD	KCPL	20	1/1/2014	1/1/2024	1/1/2018	1/1/2028	\$ 671,766	\$ -	\$ 671,766	\$ 1,530,026
									\$ 671,766	\$ -	\$ 671,766	\$ 1,530,026

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75181564	GOODYEAR JUNCTION - INDIAN HILLS 115KV CKT 1	6/1/2014	6/1/2016			\$ 67,963	\$ 12,944,465	\$ 154,090
	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017			\$ 603,803	\$ 49,623,119	\$ 1,375,936
Total						\$ 671,766	\$ 62,567,584	\$ 1,530,026

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
75181564	IATAN - NASHUA 345KV CKT 1	11/1/2012	6/1/2015		
	Line - Clark County - Thistle 345 kV dbl Ckt	11/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	11/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	11/1/2012	7/1/2014		
	Line - Spearville - Clark County 345 kV dbl Ckt	11/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt PW	11/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	11/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	11/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt PW	11/1/2012	1/1/2015		
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		

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
75181564	Cherry Co - Gentleman 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co - Holt Co 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co 345 kV Terminal Upgrades	10/1/2014	1/1/2018		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
75181564	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - 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

Customer Study Number
 KCPS AG1-2011-013

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	75181568	NPPD	KCPL	22	1/1/2014	1/1/2024	1/1/2018	1/1/2028	\$ 736,161	\$ -	\$ 736,161	\$ 1,676,699
									\$ 736,161	\$ -	\$ 736,161	\$ 1,676,699

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75181568	GOODYEAR JUNCTION - INDIAN HILLS 115KV CKT 1	6/1/2014	6/1/2016			\$ 73,959	\$ 12,944,465	\$ 167,684
	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017			\$ 662,202	\$ 49,623,119	\$ 1,509,015
Total						\$ 736,161	\$ 62,567,584	\$ 1,676,699

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
75181568	IATAN - NASHUA 345KV CKT 1	11/1/2012	6/1/2015		
	Line - Clark County - Thistle 345 kV dbl Ckt	11/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	11/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	11/1/2012	7/1/2014		
	Line - Spearville - Clark County 345 kV dbl Ckt	11/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt PW	11/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	11/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	11/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt PW	11/1/2012	1/1/2015		
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		

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
75181568	Cherry Co - Gentleman 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co - Holt Co 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co 345 kV Terminal Upgrades	10/1/2014	1/1/2018		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
75181568	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - 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

Customer Study Number
 KCPS AG1-2011-057

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	75199886	SECI	KCPL	50	8/1/2011	8/31/2013	4/1/2012	9/1/2013	\$ -	\$ 1,053,600	\$ -	\$ -
									\$ -	\$ 1,053,600	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75199886	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
75199886	Line - Clark County - Thistle 345 kV dbl Ckt	12/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	12/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	12/1/2012	7/1/2014		
	Line - Spearville - Clark County 345 kV dbl Ckt	12/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt PW	12/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	12/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	12/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt PW	12/1/2012	1/1/2015		
	Line - Tuco - Woodward 345 kV line OKGE	12/1/2012	6/1/2014		
	Line - Tuco - Woodward 345 kV line SPS	12/1/2012	6/1/2014		
	XFR - Thistle 345/138 kV	12/1/2012	1/1/2015		

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
75199886	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV 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

Customer Study Number
 KCPS AG1-2011-061

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	75199893	SECI	KCPL	50	8/1/2011	8/31/2013	4/1/2012	9/1/2013	\$ -	\$ 1,053,600	\$ -	\$ -
									\$ -	\$ 1,053,600	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75199886	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
75199893	Line - Clark County - Thistle 345 kV dbl Ckt	12/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	12/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	12/1/2012	7/1/2014		
	Line - Spearville - Clark County 345 kV dbl Ckt	12/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt PW	12/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	12/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	12/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt PW	12/1/2012	1/1/2015		
	Line - Tuco - Woodward 345 kV line OKGE	12/1/2012	6/1/2014		
	Line - Tuco - Woodward 345 kV line SPS	12/1/2012	6/1/2014		
	XFR - Thistle 345/138 kV	12/1/2012	1/1/2015		

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
75199893	FLATRDG3 - 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV 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

Customer Study Number
KMEA AG1-2011-094

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	75200249	SPA	SECI	1	11/1/2013	12/31/2018			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75200249	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

Customer Study Number
KMEA AG1-2011-095

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	75199561	OPPD	WR	6	2/1/2012	2/1/2017	11/1/2012	11/1/2017	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75199561	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

Direct Assignment Facilities - The requested service is contingent upon completion of the following upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
75199561	PAWNEE - LARNED 115 KV CKT 1	11/1/2012	6/1/2013			\$ 706,833	\$ 706,833
Total						\$ 706,833	\$ 706,833

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
75199561	Line - Clark County - Thistle 345 kV dbl Ckt	11/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	11/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	11/1/2012	7/1/2014		
	Line - Spearville - Clark County 345 kV dbl Ckt	11/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt PW	11/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	11/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	11/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt PW	11/1/2012	1/1/2015		
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		
	ROSE HILL 345/138/13.8KV TRANSFORMER CKT 3	11/1/2012	6/1/2013		
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		

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
75199561	MEDICINE LODGE - PRATT 115KV CKT 1	11/1/2012	1/1/2014		

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
75199561	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NORTHWEST - 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.

*For reservation 75199561, The Maximum Firm Import Capability before the PAWNEE - LARNED 115 KV CKT 1 upgrade is 7MW due to Larned 34.5/12.47kV transformer.

*For reservation 75199561, PAWNEE - LARNED 115 KV CKT 1 upgrade assumes LARNED 115/12.47 KV transformer will be installed by Network Customer or Midwest Energy.

*The estimated engineering and construction cost for the Pawnee to Larned 115 kV line has a 2009 year effective date. This estimate will be updated with a 2012 year effective date.

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

Customer Study Number
KMEA AG1-2011-096

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	75200582	SECI	SECI	23	1/1/2012	6/1/2026	1/1/2018	6/1/2032	\$ -	\$ -	\$ 51,721	\$ 105,570
									\$ -	\$ -	\$ 51,721	\$ 105,570

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75200582	HAYS PLANT - SOUTH HAYS 115KV CKT 1 #2	11/1/2012	6/1/2015			\$ 51,721	\$ 4,734,006	\$ 105,570
	Total					\$ 51,721	\$ 4,734,006	\$ 105,570

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
75200582	Line - Clark County - Thistle 345 kV dbl Ckt	11/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	11/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	11/1/2012	7/1/2014		Yes
	Line - Spearville - Clark County 345 kV dbl Ckt	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbl Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbl Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		Yes
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		Yes
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		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
75200582	Cherry Co - Gentleman 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co - Holt Co 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co 345 kV Terminal Upgrades	10/1/2014	1/1/2018		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
75200582	MEDICINE LODGE - PRATT 115KV CKT 1	11/1/2012	1/1/2014		

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

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
75200582	ALBION - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	CIRCLE - RICE_CO 230KV CKT 1	10/1/2012	11/15/2012		
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2013		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	FT RANDAL - MADISONCO 230.00 230KV CKT 1	10/1/2013	11/1/2014		
	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2013	6/1/2013		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	KELLY - MADISONCO 230.00 230KV CKT 1	10/1/2013	11/1/2014		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	LYONS - RICE_CO 115KV CKT 1	10/1/2012	4/1/2013		
	LYONS - WHEATLAND 115KV CKT 1 #1	10/1/2012	7/15/2013		
	LYONS - WHEATLAND 115KV CKT 1 #2	10/1/2012	7/15/2013		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	RICE_CO 230/115KV TRANSFORMER CKT 1	10/1/2012	11/15/2012		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

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

*34.5 kV and lower underlying System Impacts and Upgrades have yet to be determined.

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

Customer Study Number
LESM AG1-2011-006

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
LESM	75134451	NPPD	LES	10	10/1/2012	10/1/2017	1/1/2018	1/1/2023	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75134451	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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
75134451	Cherry Co - Gentleman 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co - Holt Co 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co 345 kV Terminal Upgrades	10/1/2014	1/1/2018		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
75134451	ALBION - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		

*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

Customer Study Number
 MEAN AG1-2011-044

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
MEAN	75179416	NPPD	MEC	1	7/1/2011	7/1/2016	11/1/2012	11/1/2017	\$ -	\$ 64,800	\$ -	\$ -
									\$ -	\$ 64,800	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75179416	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

Customer Study Number
 MEAN AG1-2011-045

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
MEAN	75179412	NPPD	MEC	2	7/1/2011	7/1/2016	11/1/2012	11/1/2017	\$ -	\$ 129,600	\$ -	\$ -
									\$ -	\$ 129,600	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75179412	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

Customer Study Number
MIDW AG1-2011-084

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	75200166	WR	WR	15	6/1/2012	6/1/2017	6/1/2015	6/1/2020	\$ 1,709,577	\$ -	\$ 1,709,577	\$ 2,560,580
									\$ 1,709,577	\$ -	\$ 1,709,577	\$ 2,560,580

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75200166	HAYS PLANT - SOUTH HAYS 115KV CKT 1 #2	11/1/2012	6/1/2015		Yes	\$ 1,709,577	\$ 4,734,006	\$ 2,560,580
					Total	\$ 1,709,577	\$ 4,734,006	\$ 2,560,580

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
75200166	FORT JUNCTION SWITCHING STATION - WEST JUNCTION CITY JUNCTION (EAST) 115KV CKT 1	6/1/2018	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
75200166	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	CIRCLE - RICE_CO 230KV CKT 1	10/1/2012	11/15/2012		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	LYONS - WHEATLAND 115KV CKT 1 #1	10/1/2012	7/15/2013		
	LYONS - WHEATLAND 115KV CKT 1 #2	10/1/2012	7/15/2013		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	RICE_CO 230/115KV TRANSFORMER CKT 1	10/1/2012	11/15/2012		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75200166	JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 185	\$ 100,000
					Total	\$ 185	\$ 100,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
MIDW AG1-2011-085

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	75200168	WR	WR	5	6/1/2012	6/1/2017	6/1/2015	6/1/2020	\$ 569,859	\$ -	\$ 569,859	\$ 853,527
									\$ 569,859	\$ -	\$ 569,859	\$ 853,527

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75200168	HAYS PLANT - SOUTH HAYS 115KV CKT 1 #2	11/1/2012	6/1/2015		Yes	\$ 569,859	\$ 4,734,006	\$ 853,527
Total						\$ 569,859	\$ 4,734,006	\$ 853,527

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
75200168	FORT JUNCTION SWITCHING STATION - WEST JUNCTION CITY JUNCTION (EAST) 115KV CKT 1	6/1/2018	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
75200168	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	CIRCLE - RICE_CO 230KV CKT 1	10/1/2012	11/15/2012		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	LYONS - WHEATLAND 115KV CKT 1 #1	10/1/2012	7/15/2013		
	LYONS - WHEATLAND 115KV CKT 1 #2	10/1/2012	7/15/2013		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	RICE_CO 230/115KV TRANSFORMER CKT 1	10/1/2012	11/15/2012		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75200168	JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 62	\$ 100,000
Total						\$ 62	\$ 100,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
MIDW AG1-2011-086

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	75200171	WR	WR	5	6/1/2012	6/1/2017	6/1/2015	6/1/2020	\$ 569,859	\$ -	\$ 569,859	\$ 853,527
									\$ 569,859	\$ -	\$ 569,859	\$ 853,527

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75200171	HAYS PLANT - SOUTH HAYS 115KV CKT 1 #2	11/1/2012	6/1/2015		Yes	\$ 569,859	\$ 4,734,006	\$ 853,527
Total						\$ 569,859	\$ 4,734,006	\$ 853,527

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
75200171	FORT JUNCTION SWITCHING STATION - WEST JUNCTION CITY JUNCTION (EAST) 115KV CKT 1	6/1/2018	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
75200171	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	CIRCLE - RICE_CO 230KV CKT 1	10/1/2012	11/15/2012		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	LYONS - WHEATLAND 115KV CKT 1 #1	10/1/2012	7/15/2013		
	LYONS - WHEATLAND 115KV CKT 1 #2	10/1/2012	7/15/2013		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	RICE_CO 230/115KV TRANSFORMER CKT 1	10/1/2012	11/15/2012		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75200171	JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 62	\$ 100,000
Total						\$ 62	\$ 100,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
MIDW AG1-2011-087

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	75200180	WR	WR	5	6/1/2013	6/1/2018	6/1/2015	6/1/2020	\$ 569,859	\$ -	\$ 569,859	\$ 891,659
									\$ 569,859	\$ -	\$ 569,859	\$ 891,659

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75200180	HAYS PLANT - SOUTH HAYS 115KV CKT 1 #2	11/1/2012	6/1/2015		Yes	\$ 569,859	\$ 4,734,006	\$ 891,659
Total						\$ 569,859	\$ 4,734,006	\$ 891,659

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
75200180	FORT JUNCTION SWITCHING STATION - WEST JUNCTION CITY JUNCTION (EAST) 115KV CKT 1	6/1/2018	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
75200180	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	CIRCLE - RICE_CO 230KV CKT 1	10/1/2012	11/15/2012		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	LYONS - WHEATLAND 115KV CKT 1 #1	10/1/2012	7/15/2013		
	LYONS - WHEATLAND 115KV CKT 1 #2	10/1/2012	7/15/2013		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	RICE_CO 230/115KV TRANSFORMER CKT 1	10/1/2012	11/15/2012		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75200180	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 62	\$ 100,000
Total						\$ 62	\$ 100,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
MIDW AG1-2011-088

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	75200183	WR	WR	5	6/1/2013	6/1/2018	6/1/2015	6/1/2020	\$ 569,859	\$ -	\$ 569,859	\$ 891,659
									\$ 569,859	\$ -	\$ 569,859	\$ 891,659

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75200183	HAYS PLANT - SOUTH HAYS 115KV CKT 1 #2	11/1/2012	6/1/2015		Yes	\$ 569,859	\$ 4,734,006	\$ 891,659
Total						\$ 569,859	\$ 4,734,006	\$ 891,659

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
75200183	FORT JUNCTION SWITCHING STATION - WEST JUNCTION CITY JUNCTION (EAST) 115KV CKT 1	6/1/2018	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
75200183	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	CIRCLE - RICE_CO 230KV CKT 1	10/1/2012	11/15/2012		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	LYONS - WHEATLAND 115KV CKT 1 #1	10/1/2012	7/15/2013		
	LYONS - WHEATLAND 115KV CKT 1 #2	10/1/2012	7/15/2013		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	RICE_CO 230/115KV TRANSFORMER CKT 1	10/1/2012	11/15/2012		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75200183	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 62	\$ 100,000
Total						\$ 62	\$ 100,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
 NPPM AG1-2011-066

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	75200206	NPPD	NPPD	1	12/1/2012	12/1/2017			\$ -	\$ 110,239	\$ -	\$ -
									\$ -	\$ 110,239	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75200206	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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
75200206	Cherry Co - Gentleman 345 kV Ckt1	10/1/2014	1/1/2018		
	Cherry Co - Holt Co 345 kV Ckt1	10/1/2014	1/1/2018		
	Cherry Co 345 kV Terminal Upgrades	10/1/2014	1/1/2018		

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
75200206	ALBION - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		

*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

Customer Study Number
NTEC AG1-2011-109

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
NTEC	75200060	CSWS	EES	125	1/1/2015	1/1/2020			\$ -	\$ 9,600,000	\$ -	\$ -
									\$ -	\$ 9,600,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75200060	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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
75200060	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
75200060	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	6/1/2014	6/1/2014			\$ 3,523	\$ 100,000
						\$ 3,523	\$ 100,000

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
 OMPA AG1-2011-049

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	75180762	CSWS	CSWS	50	6/1/2014	9/30/2018	6/1/2014	9/30/2018	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75180762	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
75180762	EL PASO - FARBER 138KV CKT 1	6/1/2014	6/1/2015		

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
75180762	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	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

Customer Study Number
 OMPA AG1-2011-050

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	75196276	CSWS	OKGE	3	3/1/2012	12/31/2027	11/1/2012	9/1/2028	\$ 3,049,257	\$ -	\$ 3,049,257	\$ 6,982,841
									\$ 3,049,257	\$ -	\$ 3,049,257	\$ 6,982,841

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75196276	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2018	6/1/2018			\$ 3,049,257	\$ 3,049,257	\$ 6,982,841
	Total					\$ 3,049,257	\$ 3,049,257	\$ 6,982,841

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
75196276	Multi: WFEC-Dover-Twin Lake Cresnet-Cottonwood conversion 138 kV	11/1/2012	1/1/2014		
	ROSE HILL 345/138/13.8KV TRANSFORMER CKT 3	11/1/2012	6/1/2013		

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
75196276	EL PASO - FARBER 138KV CKT 1	6/1/2014	6/1/2015		
	NORTHWEST 345/138/13.8KV TRANSFORMER CKT 3 Accelerated	11/1/2012	6/1/2015		

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
75196276	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	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

Customer Study Number
 OPPM AG1-2011-026

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
OPPM	75180047	NPPD	OPPD	18	12/1/2012	12/1/2017	1/1/2018	1/1/2023	\$ 303,057	\$ -	\$ 303,057	\$ 538,235
									\$ 303,057	\$ -	\$ 303,057	\$ 538,235

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
75180047	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017			\$ 303,057	\$ -	\$ 303,057	\$ 49,623,119	\$ 538,235
Total						\$ 303,057	\$ -	\$ 303,057	\$ 49,623,119	\$ 538,235

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
75180047	Cherry Co - Gentleman 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co - Holt Co 345 kV Ckt1	10/1/2014	1/1/2018		Yes
	Cherry Co 345 kV Terminal Upgrades	10/1/2014	1/1/2018		Yes
	SUB 906 NORTH - SUB 928 69KV CKT 1	6/1/2021	6/1/2021		
	SUB 921 - SUB 942 69KV CKT 1	6/1/2018	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
75180047	ALBION - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		

*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

Customer Study Number
SECI AG1-2011-108

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
SECI	75173900	SECI	SECI	80	7/1/2012	7/1/2032	6/1/2016	6/1/2036	\$ 1,395,674	\$ -	\$ 1,624,454	\$ 4,604,538
									\$ 1,395,674	\$ -	\$ 1,624,454	\$ 4,604,538

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
75173900	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC Accelerate	11/1/2012	6/1/2016		Yes	\$ 152,854	\$ -	\$ 152,854	\$ 826,459	\$ 514,754
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE Accelerate	11/1/2012	6/1/2016		Yes	\$ 359,646	\$ -	\$ 359,646	\$ 1,944,548	\$ 999,634
	HARPER - MILAN TAP 138KV CKT 1 #1 Accelerate	11/1/2012	6/1/2014		Yes	\$ 13,295	\$ -	\$ 13,295	\$ 71,885	\$ 51,165
	HARPER - MILAN TAP 138KV CKT 1 #2 Accelerate	11/1/2012	6/1/2016		Yes	\$ 405,387	\$ -	\$ 405,387	\$ 2,191,864	\$ 1,365,189
	HAYS PLANT - SOUTH HAYS 115KV CKT 1 #2	11/1/2012	6/1/2015		Yes	\$ 464,492	\$ 228,780	\$ 693,272	\$ 4,734,006	\$ 1,673,795
	Total					\$ 1,395,674	\$ 228,780	\$ 1,624,454	\$ 9,768,762	\$ 4,604,538

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
75173900	Line - Clark County - Thistle 345 kV dbI Ckt	11/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kV dbI Ckt OKGE	11/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kV dbI Ckt SPS	11/1/2012	7/1/2014		Yes
	Line - Spearville - Clark County 345 kV dbI Ckt	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbI Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbI Ckt WERE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbI Ckt OKGE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbI Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		Yes
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		Yes
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		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
75173900	FLATRDG3 138.00 - HARPER 138KV CKT 1	11/1/2012	1/1/2014		Yes
	MEDICINE LODGE - PRATT 115KV CKT 1	11/1/2012	1/1/2014		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
75173900	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	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

Customer Study Number
SPSM AG1-2011-064

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	75197996	SPS	SPS	42	6/1/2012	6/1/2045	6/1/2015	6/1/2048	\$ 11,210	\$ -	\$ 11,210	\$ 45,348
									\$ 11,210	\$ -	\$ 11,210	\$ 45,348

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75197996	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	11/1/2012	6/1/2014		Yes	\$ 11,210	\$ 96,530	\$ 45,348
					Total	\$ 11,210	\$ 96,530	\$ 45,348

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
75197996	BAILEY COUNTY INTERCHANGE - CURRY COUNTY INTERCHANGE 115KV CKT 1	11/1/2012	6/1/2015		Yes
	CHAVES COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 2	6/1/2020	6/1/2020		
	Line - Clark County - Thistle 345 kV dbI Ckt	11/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kV dbI Ckt OKGE	11/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kV dbI Ckt SPS	11/1/2012	7/1/2014		Yes
	Line - Spearville - Clark County 345 kV dbI Ckt	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbI Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbI Ckt WERE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbI Ckt OKGE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbI Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		Yes
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		Yes
	NEWHART INTERCHANGE PROJECT	11/1/2012	6/1/2015		Yes
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		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
75197996	ARTESIA INTERCHANGE (GE C254477) 115/69/13.2KV TRANSFORMER CKT 1	6/1/2018	6/1/2018		
	ARTESIA INTERCHANGE (MNLY 2118072) 115/69/13.2KV TRANSFORMER CKT 2	6/1/2018	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
75197996	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	6/1/2015	6/1/2015		

*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

Customer Study Number
SPSM AG1-2011-065

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	75197998	SPS	SPS	29	6/1/2012	6/1/2032	6/1/2015	6/1/2035	\$ 7,740	\$ -	\$ 7,740	\$ 22,139
									\$ 7,740	\$ -	\$ 7,740	\$ 22,139

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
75197998	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	11/1/2012	6/1/2014		Yes	\$ 7,740	\$ 96,530	\$ 22,139	
						Total	\$ 7,740	\$ 96,530	\$ 22,139

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
75197998	BAILEY COUNTY INTERCHANGE - CURRY COUNTY INTERCHANGE 115KV CKT 1	11/1/2012	6/1/2015		Yes
	CHAVES COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 2	6/1/2020	6/1/2020		
	Line - Clark County - Thistle 345 kV dbI Ckt	11/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kV dbI Ckt OKGE	11/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kV dbI Ckt SPS	11/1/2012	7/1/2014		Yes
	Line - Spearville - Clark County 345 kV dbI Ckt	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbI Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbI Ckt WERE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbI Ckt OKGE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbI Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		Yes
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		Yes
	NEWHART INTERCHANGE PROJECT	11/1/2012	6/1/2015		Yes
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		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
75197998	ARTESIA INTERCHANGE (GE C254477) 115/69/13.2KV TRANSFORMER CKT 1	6/1/2018	6/1/2018		
	ARTESIA INTERCHANGE (MNLY 2118072) 115/69/13.2KV TRANSFORMER CKT 2	6/1/2018	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
75197998	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	6/1/2015	6/1/2015		

*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

Customer Study Number
TNSK AG1-2011-029

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
TNSK	75108845	KCPL	ERCOTE	44	8/1/2011	6/1/2014	6/1/2014	6/1/2014	\$ -	\$ 1,322,928	\$ 425	\$ 518
									\$ -	\$ 1,322,928	\$ 425	\$ 518

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
75108845	BLUE SPRING SOUTH - BLUE SPRINGS EAST 161KV CKT 1 #1 Accelerate	6/1/2013	6/1/2015		Yes	\$ 425	\$ 3,344	\$ 518	
						Total	\$ 425	\$ 3,344	\$ 518

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
75108845	IATAN - NASHUA 345KV CKT 1	12/1/2012	6/1/2015		Yes
	Line - Clark County - Thistle 345 kV dbl Ckt	12/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	12/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	12/1/2012	7/1/2014		
	Line - Spearville - Clark County 345 kV dbl Ckt	12/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt PW	12/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	12/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	12/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt PW	12/1/2012	1/1/2015		
	Line - Tuco - Woodward 345 kV line OKGE	12/1/2012	6/1/2014		
	Line - Tuco - Woodward 345 kV line SPS	12/1/2012	6/1/2014		
	XFR - Thistle 345/138 kV	12/1/2012	1/1/2015		

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
75108845	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	DEARING 138KV Capacitor	6/1/2012	6/1/2012		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	FT RANDAL - MADISONCO 230.00 230KV CKT 1	10/1/2013	11/1/2014		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	KELLY - MADISONCO 230.00 230KV CKT 1	10/1/2013	11/1/2014		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SUB 110 - OROLOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost	
75108845	Per Entergy Affected System Impact Study ICTT-ASA-2011-011	N/A	N/A			\$ 20,280	\$ 20,280	
						Total	\$ 20,280	\$ 20,280

*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

*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

Customer Study Number
TNSK AG1-2011-030

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
TNSK	75108838	KCPL	ERCOTE	6	8/1/2011	6/1/2014	11/1/2012	6/1/2014	\$ -	\$ 180,399	\$ 47	\$ 57
									\$ -	\$ 180,399	\$ 47	\$ 57

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75108838	BLUE SPRING SOUTH - BLUE SPRINGS EAST 161KV CKT 1 #1 Accelerate	6/1/2013	6/1/2015			\$ 47	\$ 3,344	\$ 57
Total						\$ 47	\$ 3,344	\$ 57

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
75108838	IATAN - NASHUA 345KV CKT 1	12/1/2012	6/1/2015		
	Line - Clark County - Thistle 345 kV dbl Ckt	12/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	12/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	12/1/2012	7/1/2014		
	Line - Spearville - Clark County 345 kV dbl Ckt	12/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt PW	12/1/2012	1/1/2015		
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	12/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	12/1/2012	1/1/2015		
	Line - Thistle - Woodward 345 kV dbl Ckt PW	12/1/2012	1/1/2015		
	Line - Tuco - Woodward 345 kV line OKGE	12/1/2012	6/1/2014		
	Line - Tuco - Woodward 345 kV line SPS	12/1/2012	6/1/2014		
	XFR - Thistle 345/138 kV	12/1/2012	1/1/2015		

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
75108838	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - 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

Customer Study Number
WFEC AG1-2011-097

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
WFEC	75179329	CSWS	WFEC	150	1/1/2012	1/1/2037	3/1/2018	3/1/2043	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
75179329	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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
75179329	HAMMETT2 - MEEKER 138KV CKT 1	11/1/2012	12/1/2012		
	Line - Clark County - Thistle 345 kv dbl Ckt	11/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kv dbl Ckt OKGE	11/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kv dbl Ckt SPS	11/1/2012	7/1/2014		Yes
	Line - Spearville - Clark County 345 kv dbl Ckt	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kv dbl Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kv dbl Ckt WERE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kv dbl Ckt OKGE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kv dbl Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Tuco - Woodward 345 kv line OKGE	11/1/2012	6/1/2014		Yes
	Line - Tuco - Woodward 345 kv line SPS	11/1/2012	6/1/2014		Yes
	XFR - Thistle 345/138 kv	11/1/2012	1/1/2015		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
75179329	Elk City 345/230 kv	10/1/2014	3/1/2018		Yes
	Elk City to Gracemont 345kv AEPW	10/1/2014	3/1/2018		Yes
	Elk City to Gracemont 345kv OKGE	10/1/2014	3/1/2018		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
75179329	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	6/1/2015	6/1/2015		
	G03-05T 138.00 - PARADISE 138KV CKT 1	6/1/2010	6/1/2013		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 OKGE	1/1/2012	1/1/2012		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 WFEC	1/1/2012	1/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	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

Customer Study Number
WRGS AG1-2011-002

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
WRGS	74977737	OKGE	WR	300	1/1/2016	6/1/2027	6/1/2016	11/1/2027	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74977737	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
74977737	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2018	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
74977737	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Potential reservation deferral and redispatch requirement on the following upgrades due to positive MW impact on limitations that require upgrade. No cost assignment due to negative MW impact on defined upgrade.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74977737	GOODYEAR JUNCTION - INDIAN HILLS 115KV CKT 1	6/1/2014	6/1/2016	6/1/2016	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

Customer Study Number
WRGS AG1-2011-003

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
WRGS	75021167	WR	WR	201	10/1/2012	1/1/2032	6/1/2016	9/1/2035	\$ 11,606,644	\$ -	\$ 11,606,644	\$ 32,070,902
									\$ 11,606,644	\$ -	\$ 11,606,644	\$ 32,070,902

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
75021167	GOODYEAR JUNCTION - INDIAN HILLS 115KV CKT 1	6/1/2014	6/1/2016		Yes	\$ 2,896,803	\$ -	\$ 2,896,803	\$ 12,944,465	\$ 7,974,409
	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	6/1/2014	6/1/2017			\$ 8,709,841	\$ -	\$ 8,709,841	\$ 49,623,119	\$ 24,096,493
					Total	\$ 11,606,644	\$ -	\$ 11,606,644	\$ 62,567,584	\$ 32,070,902

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
75021167	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2018	6/1/2018		
	Line - Clark County - Thistle 345 kV dbl Ckt	11/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	11/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	11/1/2012	7/1/2014		Yes
	Line - Spearville - Clark County 345 kV dbl Ckt	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbl Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Thistle - Wichita 345 kV dbl Ckt WERE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	11/1/2012	1/1/2015		Yes
	Line - Thistle - Woodward 345 kV dbl Ckt PW	11/1/2012	1/1/2015		Yes
	Line - Tuco - Woodward 345 kV line OKGE	11/1/2012	6/1/2014		Yes
	Line - Tuco - Woodward 345 kV line SPS	11/1/2012	6/1/2014		Yes
	XFR - Thistle 345/138 kV	11/1/2012	1/1/2015		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
75021167	CIRCLE - RICE_CO 230KV CKT 1	11/1/2012	11/15/2012		Yes
	LYONS - RICE_CO 115KV CKT 1	11/1/2012	4/1/2013		Yes
	LYONS - WHEATLAND 115KV CKT 1 #1	11/1/2012	7/15/2013		Yes
	LYONS - WHEATLAND 115KV CKT 1 #2	11/1/2012	7/15/2013		Yes
	RICE_CO 230/115KV TRANSFORMER CKT 1	11/1/2012	11/15/2012		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
75021167	ALEXANDER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	ALEXANDER - SAWYER 3 115.00 115KV CKT 1	12/1/2009	6/1/2013		
	CIRCLE - RICE_CO 230KV CKT 1	10/1/2012	11/15/2012		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	LYONS - RICE_CO 115KV CKT 1	10/1/2012	4/1/2013		
	LYONS - WHEATLAND 115KV CKT 1 #1	10/1/2012	7/15/2013		
	LYONS - WHEATLAND 115KV CKT 1 #2	10/1/2012	7/15/2013		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	12/1/2009	6/1/2013		
	RICE_CO 230/115KV TRANSFORMER CKT 1	10/1/2012	11/15/2012		

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AEPW	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	Rebuild 1 mile of 138 kv with 2-795 ACSR. Replace 36th & Lewis wavetrap & reset CTs.	6/1/2018	6/1/2018	\$3,049,257.33
AEPW	BEAVER - EUREKA SPRINGS 161KV CKT 1 AEPW	Rebuild 1.25 miles of 795 ACSR with 1590 ACSR. Replace wavetrap & jumpers @ Eureka Springs	6/1/2013	6/1/2015	\$2,635,665.74
MIDW	HAYS PLANT - SOUTH HAYS 115KV CKT 1 #2	Tear down and rebuild of existing South Hays - Hays Plant 115 kv line. Tentative plans include rebuilding on existing right-of-way with the possibility of re-routing a portion of the line to new right-of-way as necessary.	11/1/2012	6/1/2015	\$4,734,005.62
MIPU	BLUE SPRING SOUTH - BLUE SPRINGS EAST 161KV CKT 1 #1 Accelerate	Upgrade Prairie Lee wave trap to 2000 Amps.	6/1/2013	6/1/2015	\$3,344.00
MIPU	MIDWAY - ST JOE 161KV CKT 1 Reactor	Install three series reactors in the Midway-St Joseph line at St Joseph Substation. The reactors will be rated 5% impedance and 1200 Amps.	6/1/2014	6/1/2014	\$425,000.00
MKEC	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC Accelerate	Rebuild MKEC portion of the 5.6 mile Clearwater-Milan Tap 115 kv with bundled 1192.5 kcmil ACSR conductor (Bunting)	11/1/2012	6/1/2016	\$826,459.00
MKEC	HARPER - MILAN TAP 138KV CKT 1 #1 Accelerate	Replace Wave Trap at Harper Substation	11/1/2012	6/1/2014	\$71,885.00
MKEC	HARPER - MILAN TAP 138KV CKT 1 #2 Accelerate	Reconductor 22.1 mile Harper to Milan Tap 138 kv line.	11/1/2012	6/1/2016	\$2,191,864.00
OKGE	5 TRIBES - PECAN CREEK 161KV CKT 1 Accelerate	Reconductor 4.07 miles of transmission line to 1590A552 Make 5 Tribes substation equipment 2000 amp	6/1/2014	6/1/2015	\$485,403.00
SPS	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	Upgrade 800A wave trap at both Bushland Interchange and Deaf Smith Interchange	11/1/2012	6/1/2014	\$96,530.00
WERE	CLEARWATER - MILAN TAP 138KV CKT 1 WERE Accelerate	Rebuild Westar portion of the Clearwater-Milan tap 115 kv with bundled 1192.5 kcmil ACSR conductor (Bunting)	11/1/2012	6/1/2016	\$1,944,548.00
WERE	GOODYEAR JUNCTION - INDIAN HILLS 115KV CKT 1	Rebuild 11.25 miles 115 kv line with bundled 1192.5 ACSR and wood H-frame tangent structures and Steel 3-pole running angle and deadends. Substation work at Goodyear (Station 1) substation will include 115kv buswork, one 115kv breaker, associated equipme	6/1/2014	6/1/2016	\$12,944,465.00
WERE	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	Rebuild the JEC - Hoyt 345kv line as a single circuit with new conductor, poles, and shield wire. Substation work at JEC (Station 1) substation will include removal of 345kv carrier equipment and installation of new fiber optic relay panels. Substation	6/1/2014	6/1/2017	\$49,623,119.00

Direct Assignment Facilities - The requested service is contingent upon completion of the following upgrades.

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
MIDW	PAWNEE - LARNED 115 KV CKT 1	Build 1.5 mile 115 kv line from Pawnee to the City of Larned.	11/1/2012	6/1/2013	\$ 706,833

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)
MIDW	CIRCLE - RICE_CO 230KV CKT 1	Convert from 115kv to 230kv operation	11/1/2012	11/15/2012
MIDW	LYONS - RICE_CO 115KV CKT 1	Rebuild 11.7 mile line	11/1/2012	4/1/2013
MIDW	RICE_CO 230/115KV TRANSFORMER CKT 1	Add 230/115kv Transformer	11/1/2012	11/15/2012
MKEC	FLATRDG3 138.00 - HARPER 138KV CKT 1	Rebuild 24.15 mile line	11/1/2012	1/1/2014
MKEC	MEDICINE LODGE - PRATT 115KV CKT 1	Rebuild 26 mile line	11/1/2012	1/1/2014
OKGE	NORTHWEST 345/138/13.8KV TRANSFORMER CKT 3 Accelerated	Install third 345/138 kv Bus Tie in Northwest Sub	11/1/2012	6/1/2015
WERE	BURLINGTON JUNCTION - COFFEY COUNTY NO. 3 WESTPHALIA 69KV CKT 1	Rebuild 7.2 miles with 954 kcmil ACSR (138kv/69kv Operation)	11/1/2012	7/1/2013
WERE	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1	Rebuild 4.05 miles with 954 kcmil ACSR (138kv/69kv Operation)	11/1/2012	6/1/2013
WERE	COFFEY COUNTY NO. 3 WESTPHALIA - GREEN 69KV CKT 1	Rebuild 9.22 miles with 954 kcmil ACSR (138kv/69kv Operation)	11/1/2012	12/1/2013
WERE	EL PASO - FARBER 138KV CKT 1	Tear down / Rebuild 3.1 miles with dual 477 ACSR	6/1/2014	6/1/2015
WERE	LYONS - WHEATLAND 115KV CKT 1 #1	Replace CTs	11/1/2012	7/15/2013
WERE	LYONS - WHEATLAND 115KV CKT 1 #2	Rerate circuit to 1000 amps	11/1/2012	7/15/2013

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

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)
ITCGP	Line - Clark County - Thistle 345 kV dbl Ckt	Build a new 86 mile double circuit 345 kV line with at least 3000 A capacity from the Thistle 345 kV substation to the new Clark County substation. Build a new 345 kV substation at Thistle with a ring bus and necessary terminal equipment.	11/1/2012	1/1/2015
ITCGP	Line - Spearville - Clark County 345 kV dbl Ckt	Build a new 36 mile double circuit 345 kV line with at least 3000 A capacity from the Spearville substation to the new Clark County substation. Build the Clark County 345 kV substation with a ring bus and necessary terminal equipment.	11/1/2012	1/1/2015
ITCGP	XFR - Thistle 345/138 kV	Install a 400 MVA 345/138 kV transformer at the new 345 kV Thistle substation.	11/1/2012	1/1/2015
KACP	IATAN - NASHUA 345KV CKT 1	Tap Nashua 345kV bus in Hawthorn - St. Joseph 345 kV line. Build new 345 kV line from Iatan to Nashua, Add Nashua 345/161 kV	11/1/2012	6/1/2015
OKGE	Line - Hitchland - Woodward 345 kV dbl Ckt OKGE	Build a new 92 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the SPS interception from the Hitchland substation. Upgrade the Woodward District EHV substation with the necessary breakers and term	11/1/2012	7/1/2014
OKGE	Line - Thistle - Woodward 345 kV dbl Ckt OKGE	Build a new 79 mile double circuit 345 kV line with at least 3000 A capacity from the Woodward District EHV substation to the Kansas/Oklahoma state border towards the Thistle substation. Upgrade the Woodward Distric EHV substation with the necessary brea	11/1/2012	1/1/2015
OKGE	Line - Tuco - Woodward 345 kV line OKGE	Build new 345 kV line from Woodward EHV to Border - Project costs now include Border reactor substation	11/1/2012	6/1/2014
PW	Line - Thistle - Wichita 345 kV dbl Ckt PW	Build a new 78 mile double circuit 345 kV line with at least 3000 A capacity from the Wichita substation to the new Thistle 345 kV substation.	11/1/2012	1/1/2015
PW	Line - Thistle - Woodward 345 kV dbl Ckt PW	Build a new 30 mile double circuit 345 kV line with at least 3000 A capacity from the Thistle substation to the Kansas/Oklahoma state border towards the Woodward District EHV substation.	11/1/2012	1/1/2015
SPS	BAILEY COUNTY INTERCHANGE - CURRY COUNTY INTERCHANGE 115KV CKT 1	40 miles 115 kV between Bailey and Curry.	11/1/2012	6/1/2015
SPS	CHAVES COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 2	Upgrade Chaves 230/115 kV to 225/258 MVA.	6/1/2020	6/1/2020
SPS	Line - Hitchland - Woodward 345 kV dbl Ckt SPS	Build 30 mile double circuit 345 kV line with at least 3000 A capacity from the Hitchland substation to the OGE interception point from the Woodward District EHV substation. Upgrade the Hitchland substation with the necessary breakers and terminal equipme	11/1/2012	7/1/2014
SPS	Line - Tuco - Woodward 345 kV line SPS	Build new 345 kV line from Tuco to OGE's Border station near TX/OK Stateline. Install line reactor outside Border station and line reactors at Tuco.	11/1/2012	6/1/2014
SPS	NEWHART INTERCHANGE PROJECT	Tap the Potter Interchange - Plant X Station 230 kV line for new Newhart Substation and install 230/115 kV, 150/173 MVA transformer. New 15 mile Lampton Interchange - Hart Industrial Substation 115 kV line. New 19 mile Swisher County Interchange - Newhart	11/1/2012	6/1/2015
WERE	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 1	Replace 308MVA transformer with 400MVA transformer	6/1/2018	6/1/2018
WERE	FORT JUNCTION SWITCHING STATION - WEST JUNCTION CITY JUNCTION (EAST) 115KV CKT 1	Rebuild 1.7 mile Fort Junction - West Junction City 115 kV line with 1192.5 ACSR. Remove old double circuit and West Junction City Junction (East) - West Junction City 115 kV line.	6/1/2018	6/1/2018
WERE	Line - Thistle - Wichita 345 kV dbl Ckt WERE	Upgrade the Wichita substation with the necessary breakers and terminal equipment to accommodate two new 345 kV circuits from the new Thistle 345 kV substation	11/1/2012	1/1/2015
WERE	ROSE HILL 345/138/13.8KV TRANSFORMER CKT 3	Install 3rd Rose Hill 345/138 kV TRANSFORMER.	11/1/2012	6/1/2013
WFEC	HAMMETT2 - MEEKER 138KV CKT 1	Build new 10 mile Meeker - Hammett 138 kV and install terminal equipment.	11/1/2012	12/1/2012
WFEC	Multi: WFEC-Dover-Twin Lake_Crescent-Cottonwood conversion 138 kV	Convert 11 mile Dover Southwest - Dover from 69 kV to 138 kV and install terminal equipment at Dover Southwest, convert 12.6 mile Dover - Twin Lakes from 69 kV to 138 kV, convert 7.5 mile Twin Lakes - Cashion from 69 kV to 138 kV, and build new 7 mile WFE	11/1/2012	1/1/2014

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	Elk City 345/230 kV	Expand Elk City substation (or build new station). Install a 345/230 kV 675 MVA transformer at Elk City.	10/1/2014	3/1/2018
AEPW	Elk City to Gracemont 345kV AEPW	Build new 46.5 mile 345 kV line from Elk City to Gracemont (AEP portion).	10/1/2014	3/1/2018
AEPW	Multi - Shipe - Osage Creek 345 kV	Install 9 miles of 345 kV line from Shipe Road to East Rogers, Install 32 miles of 345 kV line from East Rogers to Osage Creek, and Install new 345/161 kV transformer at Osage Creek	6/1/2013	6/1/2016
EMDE	Brookline - Compton Ridge 345 kV EMDE	Build approx. 50% of 30 mile 345 kV line	6/1/2018	6/1/2018
EMDE	Compton Ridge 345/161 kV Transformer	Install 500 MVA, 345/161 kV transformer and Cut EDE Reeds Spring-Branson line at 50% and route in & out of Compton Ridge	6/1/2018	6/1/2018
MIPU	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1 #1	Upgrade Prairie Lee wave trap to 2000 Amps.	6/1/2014	6/1/2015
NPPD	Cherry Co - Gentleman 345 kV Ckt1	Build new 345 kV Transmission Line from GGS 345 kV Substation to a new Cherry County 345 kV Substation (76 miles).	10/1/2014	1/1/2018
NPPD	Cherry Co - Holt Co 345 kV Ckt1	Build new 345 kV Transmission Line from new Cherry County 345 kV Substation to new 345 kV Holt County Substation. (Estimated 146 miles).	10/1/2014	1/1/2018
NPPD	Cherry Co 345 kV Terminal Upgrades	Build new Cherry County 345 kV Substation.	10/1/2014	1/1/2018
OKGE	Elk City to Gracemont 345kV OKGE	Build new 46.5 mile 345 kV line from Elk City to Gracemont (OGE portion).	10/1/2014	3/1/2018
OPPD	SUB 906 NORTH - SUB 928 69KV CKT 1	Rebuild 2.00 miles of line, change CT tap settings, and replace line jumpers. Rating after rebuild and other modifications will be 110 MVA.	6/1/2021	6/1/2021
OPPD	SUB 921 - SUB 942 69KV CKT 1	Increase line clearances to allow the use of a higher conductor rating and change CT tap settings.	6/1/2018	6/1/2018
SPRM	Brookline - Compton Ridge 345 kV SPRM	Build approx. 50% of 30 mile 345 kV line	6/1/2018	6/1/2018
SPS	ARTESIA INTERCHANGE (GE C254477) 115/69/13.2KV TRANSFORMER CKT 1	Replace Transformer	6/1/2018	6/1/2018
SPS	ARTESIA INTERCHANGE (MNLY 2118072) 115/69/13.2KV TRANSFORMER CKT 2	Replace Transformer	6/1/2018	6/1/2018

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	ALUMAX TAP - BANN 138KV CKT 1	Replace six (6) 138 kv switches, five at Bann & one at Alumax Tap. Rebuild 0.67 miles of 1024 ACAR with 2156 ACSR. Replace wavetraps & jumpers @ Bann. Replace breaker 3300 @ Bann.	6/1/2008	6/1/2008
AEPW	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	Reconductor and convert line to 138 kv and replace switches at Ashdown REC	7/1/2012	7/1/2012
AEPW	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	Reconductor Line & Convert Line to 138 kv and convert Patterson station to breaker-and-a-half configuration	7/1/2012	7/1/2012
AEPW	BANN - RED SPRINGS REC 138KV CKT 1	Replace 138 kv breakers 3300 & 3310	7/1/2012	7/1/2012
AEPW	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	Reconductor 1.82 miles with ACCC. Replace wave trap jumpers at Riverside.	6/1/2009	6/1/2009
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Valliant 345 KV line terminal	7/1/2012	7/1/2012
AEPW	MCNAB REC - TURK 115KV CKT 1	Build a new two mile, 138 kv, 1590 ACSR line section (operated at 115 kv) from Turk Substation to the existing Okay- Hope 115 kv line to form a Turk - Hope 115 kv line.	7/1/2012	7/1/2012
AEPW	OKAY - TURK 138KV CKT 1	Build two mile, 138 kv, 1590ACSR line section from Turk Sub to existing Okay-Hope 115 kv line and rebuild twelve miles of 115 kv line to Okay Sub to 138 kv, 1590 ACSR, to form a Turk-Okay 138 kv line	7/1/2012	7/1/2012
AEPW	SE TEXARKANA - TURK 138KV CKT 1	Build new Turk-SE Texarkana 138 kv line and add SE Texarkana 138 kv terminal.	7/1/2012	7/1/2012
AEPW	SUGAR HILL - TURK 138KV CKT 1	Build new Turk-Sugar Hill 138 kv line and add Sugar Hill 138 kv terminal.	7/1/2012	7/1/2012
EMDE	SUB 110 - ORONOJO JCT. - SUB 167 - RIVERTON 161KV CKT 1	Reconductor Oronogo 59467 to Riverton 59469 with Bundled 556 ACSR	6/1/2011	6/1/2011
KACP	LACYGNE - WEST GARDNER 345KV CKT 1	KCP Sponsored Project to Reconductor Line to be In-Service by 6/1/2006	6/1/2006	6/1/2006
MIDW	CIRCLE - RICE_CO 230KV CKT 1	Convert from 115kv to 230kv operation	10/1/2012	11/15/2012
MIDW	LYONS - RICE_CO 115KV CKT 1	Rebuild 11.7 mile line	10/1/2012	4/1/2013
MIDW	RICE_CO 230/115KV TRANSFORMER CKT 1	Add 230/115kv Transformer	10/1/2012	11/15/2012
MKEC	ALEXANDER - PRATT 115KV CKT 1	Rebuild line	12/1/2009	6/1/2013
MKEC	ALEXANDER - SAWYER 3 115.00 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 138.00 - MEDICINE LODGE 138KV CKT 1	Rebuild 8.05 mile line	12/1/2009	6/1/2013
MKEC	FLATRDG3 138.00 - HARPER 138KV CKT 1	Rebuild 24.15 mile line	12/1/2009	6/1/2013
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 - SAWYER 115KV CKT 1	Rebuild line	12/1/2009	6/1/2013
MKEC	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement	Upgrade transformer	12/1/2009	6/1/2013
NPPD	ALBION - PETERSBURG 115KV CKT 1	Replace Breaker Switch 1106-D and jumpers at Albion. Replace main bus at Petersburg. Upgrade and replace transmission structures on 115 kv line to facilitate 100 degrees Centigrade line operation.	1/1/2013	1/1/2013
NPPD	FT RANDAL - MADISONCO 230.00 230KV CKT 1	Raise structures and line clearances as necessary to re-rate the transmission line to 320MVA	10/1/2013	11/1/2014
NPPD	KELLY - MADISONCO 230.00 230KV CKT 1	Raise structures and line clearances as necessary to re-rate the transmission line to 320MVA	10/1/2013	11/1/2014
NPPD	NELIGH - PETERSBURG 115KV CKT 1	Replace Breaker 1106, jumpers, and 115 kv Switch 1106-D2 at Neligh. Replace main bus at Petersburg. Upgrade and replace transmission structures on 115 kv line to facilitate 100 degrees Centigrade line operation.	1/1/2013	1/1/2013
OKGE	BEE LINE - EXPLORER GLENPOOL 138KV CKT 1	Reconductor .92miles of line with Drake ACCC/TW.	6/1/2009	6/1/2009
OKGE	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	Reconductor 1.82 miles line with Drake ACCC/TW.	6/1/2009	6/1/2009
OKGE	GRACMNT4 138.00 - WASHITA 138KV CKT 2 OKGE	Build 138kv Terminal.	1/1/2012	1/1/2012
OKGE	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	Replace bus tie with 100MVA transformer	6/1/2006	6/1/2008
OKGE	NORTHWEST - TATONGA 345KV CKT 1	Build 345 kv line	1/1/2010	1/1/2010
OKGE	TATONGA - WOODWARD 345KV CKT 1	Build 345 kv line	1/1/2010	1/1/2010
OKGE	WOODWARD - IODINE 138KV CKT 1	Tap Iodine to Woodward 138 kv line	1/1/2010	1/1/2010
OKGE	WOODWARD - WOODWARD EHV 138KV CKT 1	Build .5 miles of 138 kv and install terminal equipment	1/1/2010	1/1/2010
OKGE	WOODWARD - WOODWARD EHV 138KV CKT 2	Build .5 miles of 138 kv and install terminal equipment	1/1/2010	1/1/2010
OKGE	WOODWARD 345/138KV TRANSFORMER CKT 1	Install 345/138 kv XF	1/1/2010	1/1/2010
SPS	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	Replace wavetraps at Harrington East	6/1/2015	6/1/2015
WERE	DEARING 138KV Capacitor	Dearing 138 kv 20 MVAR Capacitor Addition	6/1/2012	6/1/2012
WERE	LYONS - WHEATLAND 115KV CKT 1 #1	Replace CTs	10/1/2012	7/15/2013
WERE	LYONS - WHEATLAND 115KV CKT 1 #2	Rerate circuit to 1000 amps	10/1/2012	7/15/2013
WFEC	CANTON - TALOGA 69KV CKT 1	UPGRADE CANTON TO TALOGA TO 336.4	6/1/2011	6/1/2013
WFEC	G03-05T 138.00 - PARADISE 138KV CKT 1	Upgrade Paradise to G03-05T to 1113	6/1/2010	6/1/2013
WFEC	GRACMNT4 138.00 - WASHITA 138KV CKT 2 WFEC	Build approximately 6 miles of 138kv.	1/1/2012	1/1/2012
WFEC	HUGO POWER PLANT - VALLIANT 345KV CKT 1 WFEC	New 19 miles 345 kv	7/1/2012	7/1/2012
WFEC	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	New 345/138 kv Auto	7/1/2012	7/1/2012
WFEC	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1	Auto XFMR 56 to 112MVA	10/1/2010	6/1/2013

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
AECI	5ELDON - BARNETT 161KV CKT 1 AECI	Replace 600A Switches at Barnett - Limiting Element in Line. Line Ampacity is 731.5 A.	10/1/2014	10/1/2014	\$100,000.00
AECI	7JASPER 345.00 - BLACKBERRY 345KV CKT 1 #1	Replace structures to rerate to 100C	6/1/2014	6/1/2014	\$100,000.00
AMMO	7OVERTON 345.00 (J) 345/161/13.8KV TRANSFORMER CKT 1	Replace existing 345-161kV transformer with 560MVA unit, install 345kV high side breaker, 138kV XFMR low side breaker and bus to obtain 2000A min	6/1/2014	6/1/2014	Note 1
EES	3GRENWD - HUMPHREY 115KV CKT 1 EES	Upgrade Transmission Line 0.54 miles	6/1/2018	6/1/2018	\$675,000.00
EES	3GRENWD - TERREBONNE 115KV CKT 1 EES	Upgrade Transmission Line 10.16 miles	6/1/2014	6/1/2016	\$12,700,000.00
EES	GRIMES - MT. ZION 138KV CKT 1	Upgrade Transmission Line 19.19 miles	6/1/2014	6/1/2016	\$14,966,895.00
EES	HUNTSVILLE - LINE 558 TAP 138KV CKT 1	Upgrade Transmission Line 2.3 miles	6/1/2014	6/1/2016	\$4,309,985.00
EES	LINE 558 TAP - MT. ZION 138KV CKT 1	Upgrade Transmission Line 5.3 miles	6/1/2014	6/1/2016	\$5,166,026.00
EES	Per Entergy Affected System Impact Study ICTT-ASA-2011-011	Third Party Network Upgrades identified in Entergy Affected System Impact Study ICTT-ASA-2011-011	N/A	N/A	\$ 20,280
EES	Per Entergy Affected Facility Study ICTT-ASA-2011-013	No Direct Assigned Third Party Network Upgrades identified in Entergy Affected Facility Study ICTT-ASA-2011-013	6/1/2017	6/1/2017	\$ -
SWPA	BEAVER - EUREKA SPRINGS 161KV CKT 1 SWPA	Rebuild line using 1590MCM ACSR conductor on tubular steel H-frame structures. Replace breakers and switches at Beaver. Remove wave traps.	6/1/2013	6/1/2015	\$4,130,000.00
SWPA	CLAY - SPRINGFIELD 161KV CKT 1 SWPA #1	Replace 600 amp disconnect switches at Springfield.	6/1/2013	6/1/2014	\$50,000.00

Note 1: Overton 345/161/13.8 kV Transformer is included in the Ameren Expansion plan with an in-service date of 6/1/2014. Cost will not be allocated to the transmission customer.