



*Aggregate Facility Study
SPP-2008-AGP1-AFS-6
For Transmission Service
Requested by
Aggregate Transmission Customers*

SPP Engineering, SPP Tariff Studies

SPP AGGREGATE FACILITY STUDY (SPP-2008-AGP1-AFS-6)

November 4, 2009

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1. Executive Summary

Pursuant to Attachment Z1 of the Southwest Power Pool Open Access Transmission Tariff (OATT), 3355 MW of long-term transmission service requests have been restudied in this Aggregate Facility Study (AFS). The first phase of the AFS consisted of a revision of the impact study to reflect the withdrawal of requests for which an Aggregate Facility Study Agreement was not executed. The principal objective of the AFS is to identify system problems and potential modifications necessary to facilitate these transfers while maintaining or improving system reliability as well as summarizing the operating limits and determination of the financial characteristics associated with facility upgrades. Facility upgrade costs are allocated on a prorated basis to all requests positively impacting any individual overloaded facility. Further, Attachment Z2 provides for facility upgrade cost recovery by stating that “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 total assigned facility upgrade Engineering and Construction (E &C) cost determined by the AFS is \$81 Million. Additionally an indeterminate amount of assigned E & C cost for 3rd party facility upgrades are assignable to the customer. The total upgrade levelized revenue requirement for all transmission requests is \$ 226 Million. This is based on full allocation of levelized revenue requirements for upgrades to customers without consideration of base plan funding. AFS data table 3 reflects the allocation of upgrade costs to each request without potential base plan funding based on either the requested reservation period or the deferred

reservation period if applicable. Total upgrade levelized revenue requirements for all transmission requests after consideration of potential base plan funding is \$76 Million.

Third-party facilities must be upgraded when it is determined they are constrained in order to accommodate the requested Transmission Service. These 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 engineering and construction cost estimates for required third-party facility upgrades are indeterminate.

The Transmission Provider will tender a Letter of Intent on November 4th, 2009. 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 (Customer) by November 19th, 2009, 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.

2. Introduction

On January 21, 2005, the Federal Energy Regulatory Commission accepted Southwest Power Pool's proposed aggregate transmission study procedures in Docket ER05-109 to become effective February 1, 2005. On August 8, 2008, Southwest Power Pool filed with the Federal Energy Regulatory Commission in Docket ER08-1379-000 to pair open seasons closing during the period January 1, 2008 through January 31, 2010, with an effective date of August 9, 2008. The 2008-AG1 open season commenced on October 1, 2007 and closed January 31, 2008. The 2008-AG2 open season commenced on February 1, 2007 and closed May 31, 2008. Based on the preceding, all requests for long-term transmission service received prior to February 1, 2008 for 2008 AG-1 and June 1, 2008 for 2008 AG-2 with a signed study agreement have been included in the first paired Aggregate Transmission Service Study (ATSS) of 2008. This report SPP-2008-AGP1-AFS-6 signals the completion of the sixth stage of the AFS.

Approximately 3355 MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$80 Million in transmission upgrades being proposed. The results of the AFS are detailed in Tables 1 through 7. A highly tangible benefit of studying transmission requests aggregately under the SPP OATT Attachment Z1 is the sharing of costs among customers using the same facility. The detailed results show individual upgrade costs by study as well as potential base plan allowances as determined by Attachments J and Z1. The following URL can be used to access the SPP OATT:

http://www.spp.org/Publications/SPP_Tariff.pdf). In order to understand the extent to which base plan upgrades may be applied to both point-to-point 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.” Therefore, not only network service, but also point-to-point 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, Point-to-Point 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 as 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 deferment of expansion plan projects with different upgrades with the new required in service date as a result of this AFS.

A. Financial Analysis

The AFS utilizes the allocated customer 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 expedited, with no additional upgrades, to accommodate a new request for Transmission Service, then the levelized present worth of only the incremental expenses through 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 expedited.

Achievable Base Plan Avoided Revenue Requirements 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.B methodology. A deferred Base Plan upgrade being 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 being defined as the same network upgrade being displaced by a requested upgrade needed at an earlier date. Assumption of a 40 year service life is utilized for Base Plan funded projects unless provided otherwise 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.

B. 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 engineering and construction cost estimates for required third-party facility upgrades are indeterminate. 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 engineering and construction 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 3rd Party Owner detailing the mitigation of the 3rd 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 3rd party facilities for load that sinks outside the SPP footprint with the applicable Transmission Providers.

3. Study Methodology

A. Description

The system impact 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 done to ensure current SPP Criteria and NERC Reliability Standards requirements are fulfilled. The Southwest Power Pool conforms to the NERC Reliability Standards, which provide the strictest requirements, related to voltage violations and thermal overloads during normal conditions and during a contingency. It requires that all facilities 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 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 69kV and above, first tier Non - SPP control area branches and ties 115 kV and above, any defined contingencies for these control areas, and generation unit outages for the 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 AECl, AMRN, and ENTR and a 2 % TDF cutoff was applied to MEC, NPPD, and OPPD. 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.

B. Model Development

SPP used seven seasonal models to study the aggregate transfers of 3355 MW over a variety of requested service periods. The SPP STEP 2009 Build 3 Cases 2010 Summer Peak (10SP), 2010/11 Winter Peak (11WP), 2011 Summer Peak (11SP), 2011/12 Winter Peak (11WP), 2014 Summer Peak (14SP), 2014/15 Winter Peak (14WP), and 2019 Summer Peak (19SP) were used to study the impact of the requested service on the transmission system. The Spring Peak models apply to April and May, the Summer Peak models apply to June through September, the Fall Peak models apply to October and November, and the Winter Peak models apply to December through March.

The chosen base case models were modified to reflect the most current modeling information. Five groups of requests were developed from the aggregate of 3355 MW in order to minimize

counter flows among requested service. Each request was included in at least two of the four groups depending on the requested path. All requests were included in group five. From the twelve seasonal models, five system scenarios were developed. Scenario 1 includes SWPP OASIS transmission requests not already included in the SPP 2009 Series Cases flowing in a West to East direction with ERCOTN HVDC Tie South to North, ERCOTE HVDC Tie East to West, SPS exporting, and SPS importing from the Lamar HVDC Tie. Scenario 2 includes transmission requests not already included in the SPP 2009 Series Cases flowing in an East to West direction with ERCOTN HVDC tie North to South, ERCOTE HVDC tie East to West, SPS importing, and SPS exporting to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPP 2009 Series Cases flowing in a South to North direction with ERCOTN HVDC tie South to North, ERCOTE HVDC tie East to West, SPS exporting, and SPS exporting to the Lamar HVDC Tie. Scenario 4 includes transmission requests not already included in the SPP 2009 Series Cases flowing in a North to South direction with ERCOTN HVDC tie North to South, ERCOTE HVDC tie East to West, SPS importing, and SPS importing from the Lamar HVDC tie. Scenario 5 include all transmission not already included in the SPP 2009 Series Cases with ERCOTN North to South, ERCOTE East to West, SPS importing and SPS exporting to the Lamar HVDC tie. The system scenarios were developed to minimize counter flows from previously confirmed, higher priority requests not included in the MDWG Base Case.

C. Transmission Request Modeling

Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to Generation to Generation transfers. The Generation to Load modeling is accomplished by developing a pre-transfer case by redispatching the existing designated network resource(s) down by the new designated network resource request amount and scaling down the applicable network load by the same amount proportionally. The post-transfer case for comparison is developed by scaling the network load back to the forecasted amount and

dispatching the new designated network resource being requested. 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. If the Network Integration Transmission Service request application clearly documents that the existing designated network resource(s) is being replaced or undesignated by the new designated network resource then MW impact credits will be given to the request as is done for a redirect of existing transmission service. 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.

D. 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.

E. Curtailment and Redispatch Evaluation

During any period when SPP determines that a transmission constraint exists on the Transmission System, and such constraint may impair the reliability of the Transmission System, SPP will take whatever actions that are reasonably necessary to maintain the reliability of the Transmission System. To the extent SPP determines that the reliability of the Transmission System can be maintained by redispatching resources, SPP will evaluate interim curtailment 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. Curtailment of existing confirmed service is evaluated to provide only interim service. Curtailment 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. If transmission customer would like to see additional relief pairs beyond the relief pairs determined, the transmission customer can request SPP to provide the additional pairs. The potential relief pairs **were not** evaluated to determine impacts on limiting facilities in the SPP and 1st-Tier systems. The redispatch requirements would be called upon prior to implementing NERC TLR Level 5a.

4. Study Results

A. Study Analysis Results

Tables 1 through 6 contain the steady-state analysis results of the AFS. 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), 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 customer but required for service to be confirmed, credits to be paid for previously assigned AFS or GI network upgrades, and any third party upgrades required. 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 and 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 upon 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. Additionally, 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 5 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 Engineering and Construction 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 “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 (140-54) or 86 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 “OR” pricing of 128 million revenue requirements to be paid back to the Transmission Owners and the remaining revenue requirements of (140-128) or 12 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 “OR” pricing 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.

B. 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. The Total Engineering and Construction Cost (E & C) is the upgrade solution cost as determined by the transmission owner. The Transmission Customer Allocation Cost is the estimated engineering and construction cost based upon the allocation of costs to all Transmission Customers in the AFS who positively impact facilities by at least 3% subsequently overloaded by the AFS. Minimum ATC is the portion of the requested capacity that can be accommodated with out 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.

5. 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 November 4th, 2009. 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

(Customer) by November 19th, 2009, 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 Engineering and Construction costs assigned to the Customer. This letter of credit is not required for those facilities that are base plan funded or funded by Point to Point base rate. This amount is for all assignable Network Upgrades less pre-payment requirements. The amount of the letter of credit will be adjusted down on an annual basis to reflect amortization of these costs. The Transmission Provider will issue notifications to construct network upgrades to the constructing Transmission Owner after filing of necessary service agreements at FERC.

6. Appendix A

PSS/E CHOICES IN RUNNING LOAD FLOW PROGRAM AND ACCC

BASE CASES:

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 CASES:

Solutions – AC contingency checking (ACCC)

MW mismatch tolerance – 0.5

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 form 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

Var limits - Apply automatically

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 redispach | Deferred Stop Date without interim redispach | Start Date with interim redispach | Stop Date with interim redispach | Minimum Allocated ATC (MW) withing reservation period | Season of Minimum Allocated ATC within reservation period |
|----------|--------------|-------------|------|--------|------------------|----------------------|---------------------|---|--|-----------------------------------|----------------------------------|---|---|
| AEPM | AG2-2008-073 | 1458766 | SPS | CSWS | 65 | 6/1/2009 | 6/1/2029 | 6/1/2013 | 6/1/2033 | 3/1/2010 | 3/1/2030 | 0 | 09SP |
| AEPM | AG2-2008-073 | 1458767 | SPS | CSWS | 15 | 6/1/2009 | 6/1/2029 | 6/1/2013 | 6/1/2033 | 3/1/2010 | 3/1/2030 | 0 | 09SP |
| CALP | AG1-2008-010 | 1393818 | CSWS | ERCOTE | 50 | 1/1/2009 | 1/1/2019 | 6/1/2012 | 1/1/2019 | 3/1/2010 | 1/1/2019 | 0 | 09SP |
| CALP | AG1-2008-010 | 1393823 | CSWS | ERCOTE | 50 | 1/1/2009 | 1/1/2019 | 6/1/2012 | 1/1/2019 | 3/1/2010 | 1/1/2019 | 0 | 09SP |
| CALP | AG1-2008-010 | 1393830 | CSWS | ERCOTE | 50 | 1/1/2009 | 1/1/2019 | 6/1/2012 | 1/1/2019 | 3/1/2010 | 1/1/2019 | 0 | 09SP |
| CALP | AG1-2008-010 | 1393837 | CSWS | ERCOTE | 50 | 1/1/2009 | 1/1/2019 | 6/1/2012 | 1/1/2019 | 3/1/2010 | 1/1/2019 | 0 | 09SP |
| CALP | AG1-2008-010 | 1393838 | CSWS | ERCOTE | 50 | 1/1/2009 | 1/1/2019 | 6/1/2012 | 1/1/2019 | 3/1/2010 | 1/1/2019 | 0 | 09SP |
| GRDX | AG1-2008-024 | 1405543 | OKGE | GRDA | 157 | 1/1/2009 | 1/1/2014 | 6/1/2012 | 6/1/2017 | 3/1/2010 | 3/1/2015 | 0 | 09SP |
| INDP | AG2-2008-051 | 1458202 | INDN | KCPL | 9 | 1/1/2009 | 1/1/2011 | 3/1/2010 | 3/1/2012 | 3/1/2010 | 3/1/2012 | 0 | 09SP |
| INDP | AG2-2008-052 | 1458207 | WR | INDN | 15 | 1/1/2009 | 1/1/2029 | 6/1/2012 | 6/1/2032 | 3/1/2010 | 3/1/2030 | 0 | 09SP |
| INDP | AG2-2008-053 | 1458487 | OPPD | INDN | 2 | 6/1/2009 | 6/1/2049 | 3/1/2010 | 3/1/2050 | 3/1/2010 | 3/1/2050 | 0 | 09SP |
| KCPS | AG1-2008-029 | 1405741 | WR | KCPL | 20 | 5/1/2011 | 5/1/2025 | 5/1/2011 | 5/1/2025 | 5/1/2011 | 5/1/2025 | 0 | 11SP |
| KCPS | AG2-2008-070 | 1458727 | WPEK | KCPL | 50 | 9/1/2009 | 9/1/2013 | 6/1/2013 | 9/1/2013 | 3/1/2010 | 9/1/2013 | 0 | 10SP |
| KCPS | AG2-2008-070 | 1458728 | WPEK | KCPL | 50 | 9/1/2009 | 9/1/2013 | 6/1/2013 | 9/1/2013 | 3/1/2010 | 9/1/2013 | 0 | 10SP |
| KCPS | AG2-2008-071 | 1458732 | KCPL | KCPL | 101 | 9/1/2009 | 9/1/2019 | 6/1/2013 | 6/1/2023 | 3/1/2010 | 3/1/2020 | 0 | 10SP |
| KEPC | AG1-2008-036 | 1405798 | WR | WR | 3 | 5/1/2011 | 5/1/2018 | 5/1/2011 | 5/1/2018 | 5/1/2011 | 5/1/2018 | 0 | 11SP |
| KMEA | AG1-2008-013 | 1394351 | GRDA | WR | 1 | 5/1/2010 | 5/1/2015 | 5/1/2010 | 5/1/2015 | 5/1/2010 | 5/1/2015 | 0 | 10SP |
| KMEA | AG1-2008-039 | 1405809 | GRDA | SECI | 2 | 5/1/2010 | 5/1/2026 | 5/1/2010 | 5/1/2026 | 5/1/2010 | 5/1/2026 | 0 | 10SP |
| KMEA | AG2-2008-040 | 1457913 | GRDA | SECI | 13 | 5/1/2009 | 5/1/2027 | 6/1/2013 | 6/1/2031 | 6/1/2013 | 6/1/2031 | 0 | 09SP |
| KMEA | AG2-2008-044 | 1458109 | GRDA | WR | 2 | 5/1/2009 | 5/1/2027 | 1/1/2012 | 1/1/2030 | 3/1/2010 | 3/1/2028 | 0 | 09SP |
| KPP | AG1-2008-015 | 1403992 | WR | WR | 13 | 6/1/2008 | 6/1/2017 | 6/1/2012 | 6/1/2021 | 3/1/2010 | 3/1/2019 | 0 | 09SP |
| KPP | AG1-2008-015 | 1403993 | WR | WR | 3 | 6/1/2008 | 6/1/2017 | 6/1/2012 | 6/1/2021 | 3/1/2010 | 3/1/2019 | 0 | 09SP |
| KPP | AG1-2008-015 | 1403996 | WR | WR | 6 | 6/1/2008 | 6/1/2017 | 3/1/2010 | 3/1/2019 | 3/1/2010 | 3/1/2019 | 1 | 09SP |
| KPP | AG1-2008-017 | 1404448 | WR | WR | 4 | 6/1/2008 | 6/1/2018 | 6/1/2012 | 6/1/2022 | 3/1/2010 | 3/1/2020 | 0 | 09SP |
| KPP | AG2-2008-037 | 1457536 | GRDA | WR | 4 | 1/1/2009 | 1/1/2026 | 3/1/2010 | 3/1/2027 | 3/1/2010 | 3/1/2027 | 0 | 09SP |
| KPP | AG2-2008-038 | 1457802 | WPEK | WPEK | 3 | 11/1/2008 | 11/1/2013 | 3/1/2010 | 3/1/2015 | 3/1/2010 | 3/1/2015 | 0 | 09SP |
| KPP | AG2-2008-054 | 1458533 | WR | WR | 11 | 10/1/2008 | 10/1/2018 | 3/1/2010 | 3/1/2020 | 3/1/2010 | 3/1/2020 | 0 | 09SP |
| OGE | AG1-2008-018 | 1404463 | OKGE | OKGE | 120 | 8/31/2009 | 8/31/2034 | 6/1/2012 | 6/1/2037 | 6/1/2012 | 6/1/2037 | 0 | 10SP |
| OGE | AG1-2008-027 | 1405664 | OKGE | OKGE | 648 | 6/1/2008 | 6/1/2028 | 6/1/2012 | 6/1/2032 | 6/1/2012 | 6/1/2032 | 0 | 09SP |
| OGE | AG2-2008-017 | 1454686 | OKGE | WFEC | 28 | 10/1/2008 | 10/1/2028 | 6/1/2012 | 6/1/2032 | 3/1/2010 | 3/1/2030 | 0 | 09SP |
| OMPA | AG1-2008-021 | 1404908 | OKGE | OKGE | 155 | 10/1/2008 | 10/1/2028 | 6/1/2012 | 6/1/2032 | 3/1/2010 | 3/1/2030 | 0 | 09SP |
| SEPC | AG1-2008-037 | 1405823 | SECI | SECI | 1175 | 6/1/2008 | 6/1/2028 | 12/1/2010 | 12/1/2030 | 12/1/2010 | 12/1/2030 | 0 | 09SP |
| WRGS | AG1-2008-028 | 1405690 | WR | WR | 20 | 5/1/2011 | 5/1/2018 | 5/1/2011 | 5/1/2018 | 5/1/2011 | 5/1/2018 | 0 | 11SP |
| WRGS | AG2-2008-006 | 1431605 | EES | SPA | 8 | 3/1/2010 | 3/1/2040 | 3/1/2010 | 3/1/2040 | 3/1/2010 | 3/1/2040 | 0 | 10SP |
| WRGS | AG2-2008-034 | 1457037 | WR | WR | 174 | 1/4/2019 | 1/4/2029 | 1/4/2019 | 1/4/2029 | 1/4/2019 | 1/4/2029 | 0 | 19SP |
| WRGS | AG2-2008-035 | 1457044 | WR | WR | 61 | 1/1/2014 | 1/1/2024 | 1/1/2014 | 1/1/2024 | 1/1/2014 | 1/1/2024 | 0 | 19SP |
| WRGS | AG2-2008-036 | 1457049 | WR | WR | 167 | 6/1/2010 | 6/1/2020 | 6/1/2012 | 6/1/2022 | 6/1/2010 | 6/1/2020 | 0 | 10SP |

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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.

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 Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITHOUT Potential Base Plan Funding Allocation | ³⁵ 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 |
|----------|--------------|-------------|--|---|---|-------|--|---|---|--|---|
| AEPM | AG2-2008-073 | 1458766 | \$ 91,405 | \$ 30,468 | \$ 60,937 | | Indeterminate | \$ 193,253 | \$ 75,296 | \$ - | \$ 75,296 |
| AEPM | AG2-2008-073 | 1458767 | \$ 21,095 | \$ 7,032 | \$ 14,063 | | Indeterminate | \$ 44,600 | \$ 17,377 | \$ - | \$ 17,377 |
| CALP | AG1-2008-010 | 1393818 | \$ 920,000 | \$ - | \$ - | | \$ - | \$ 1,371,222 | \$ 1,371,222 | \$ 9,164,820 | \$ 9,164,820 |
| CALP | AG1-2008-010 | 1393823 | \$ 920,000 | \$ - | \$ - | | \$ - | \$ 1,371,222 | \$ 1,371,222 | \$ 9,164,820 | \$ 9,164,820 |
| CALP | AG1-2008-010 | 1393830 | \$ 920,000 | \$ - | \$ - | | \$ - | \$ 1,371,222 | \$ 1,371,222 | \$ 9,164,820 | \$ 9,164,820 |
| CALP | AG1-2008-010 | 1393837 | \$ 920,000 | \$ - | \$ - | | \$ - | \$ 1,371,222 | \$ 1,371,222 | \$ 9,164,820 | \$ 9,164,820 |
| CALP | AG1-2008-010 | 1393838 | \$ 920,000 | \$ - | \$ - | | \$ - | \$ 1,371,222 | \$ 1,371,222 | \$ 9,164,820 | \$ 9,164,820 |
| GRDX | AG1-2008-024 | 1405543 | \$ 1,354,889 | \$ - | \$ 1,354,889 | | \$ 2,002,505 | \$ 3,026,844 | \$ - | \$ - | Schedule 9 Charges |
| INDP | AG2-2008-051 | 1458202 | \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | \$ 190,080 | \$ 190,080 |
| INDP | AG2-2008-052 | 1458207 | \$ 12,360 | \$ - | \$ - | | Indeterminate | \$ 61,679 | \$ 61,679 | \$ 3,636,000 | \$ 3,636,000 |
| INDP | AG2-2008-053 | 1458487 | \$ 1,500 | \$ - | \$ - | | \$ - | \$ 10,475 | \$ 10,475 | \$ 969,600 | \$ 969,600 |
| KCPS | AG1-2008-029 | 1405741 | \$ 13,170 | \$ - | \$ 13,170 | | \$ - | \$ 45,434 | \$ - | \$ - | Schedule 9 Charges |
| KCPS | AG2-2008-070 | 1458727 | \$ 3,690,453 | \$ 3,685,000 | \$ - | | \$ - | \$ 5,229,889 | \$ 5,229,889 | \$ 2,112,000 | \$ 5,229,889 |
| KCPS | AG2-2008-070 | 1458728 | \$ 3,690,453 | \$ 3,685,000 | \$ - | | \$ - | \$ 5,229,889 | \$ 5,229,889 | \$ 2,112,000 | \$ 5,229,889 |
| KCPS | AG2-2008-071 | 1458732 | \$ 148,831 | \$ 27,058 | \$ 121,773 | | \$ - | \$ 393,162 | \$ 65,861 | \$ - | \$ 65,861 |
| KEPC | AG1-2008-036 | 1405798 | \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | \$ - | Schedule 9 Charges |
| KMEA | AG1-2008-013 | 1394351 | \$ 699 | \$ - | \$ - | | \$ - | \$ 1,586 | \$ 1,586 | \$ 143,940 | \$ 143,940 |
| KMEA | AG1-2008-039 | 1405809 | \$ 43,033 | \$ - | \$ 43,033 | 6 | \$ - | \$ 100,366 | \$ - | \$ - | Schedule 9 Charges |
| KMEA | AG2-2008-040 | 1457913 | \$ 842,140 | \$ - | \$ 842,140 | | \$ - | \$ 1,977,700 | \$ - | \$ - | Schedule 9 Charges |
| KMEA | AG2-2008-044 | 1458109 | \$ 5,506,395 | \$ 5,506,395 | \$ - | | \$ - | \$ 17,398,480 | \$ 17,398,480 | \$ 1,036,368 | \$ 17,398,480 |
| KPP | AG1-2008-015 | 1403992 | \$ 1,111,452 | \$ - | \$ 1,111,452 | | \$ - | \$ 2,082,640 | \$ - | \$ - | Schedule 9 Charges |
| KPP | AG1-2008-015 | 1403993 | \$ 57,797 | \$ - | \$ 57,797 | | \$ - | \$ 111,157 | \$ - | \$ - | Schedule 9 Charges |
| KPP | AG1-2008-015 | 1403996 | \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | \$ - | Schedule 9 Charges |
| KPP | AG1-2008-017 | 1404448 | \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | \$ - | Schedule 9 Charges |
| KPP | AG2-2008-037 | 1457536 | \$ 8,705 | \$ - | \$ 8,705 | 6 | \$ - | \$ 22,840 | \$ - | \$ - | Schedule 9 Charges |
| KPP | AG2-2008-038 | 1457802 | \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | \$ - | Schedule 9 Charges |
| KPP | AG2-2008-054 | 1458533 | \$ 4,820 | \$ - | \$ 4,820 | | \$ - | \$ 8,724 | \$ - | \$ - | Schedule 9 Charges |
| OGE | AG1-2008-018 | 1404463 | \$ 327,814 | \$ - | \$ 327,814 | | \$ 1,616 | \$ 1,839,442 | \$ - | \$ - | Schedule 9 Charges |
| OGE | AG1-2008-027 | 1405664 | \$ 23,255,433 | \$ - | \$ 23,255,433 | | \$ 21,071 | \$ 83,782,940 | \$ - | \$ - | Schedule 9 Charges |
| OGE | AG2-2008-017 | 1454686 | \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | \$ - | Schedule 9 Charges |
| OMPA | AG1-2008-021 | 1404908 | \$ 6,255,920 | \$ - | \$ 6,255,920 | | \$ 4,808 | \$ 18,651,235 | \$ - | \$ - | Schedule 9 Charges |
| SEPC | AG1-2008-037 | 1405823 | \$ 3,587,339 | \$ - | \$ 3,587,339 | | \$ - | \$ 9,240,353 | \$ - | \$ - | Schedule 9 Charges |
| WRGS | AG1-2008-028 | 1405690 | \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | \$ - | Schedule 9 Charges |
| WRGS | AG2-2008-006 | 1431605 | \$ - | \$ - | \$ - | | Indeterminate | \$ - | \$ - | \$ 2,736,000 | \$ 2,736,000 |
| WRGS | AG2-2008-034 | 1457037 | \$ 12,076,117 | \$ - | \$ - | 7 | \$ - | \$ 41,539,622 | \$ 41,539,622 | \$ - | \$ 41,539,622 |
| WRGS | AG2-2008-035 | 1457044 | \$ 3,709,291 | \$ - | \$ 3,709,291 | | \$ - | \$ 8,871,050 | \$ - | \$ - | Schedule 9 Charges |
| WRGS | AG2-2008-036 | 1457049 | \$ 10,245,796 | \$ - | \$ 10,245,796 | | \$ - | \$ 18,965,451 | \$ - | \$ - | Schedule 9 Charges |
| | | | \$ 80,656,907 | | | | | \$ 225,684,923 | \$ 76,486,266 | | |

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

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 not required for upgrades fully funded by PTP base rate or base plan funding. The Letter Of Credit Amount listed is based on meeting OATT Attachment J requirements for base plan funding.

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

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

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

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

Note 6: Resource for pool of cities only.

Note 7: Resource forecast exceeds 125% of load thus no base plan funding

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

Customer Study Number
 AEPM AG2-2008-073

| 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 |
|----------|-------------|-----|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| AEPM | 1458766 | SPS | CSWS | 65 | 6/1/2009 | 6/1/2029 | 6/1/2013 | 6/1/2033 | \$ 60,937 | \$ - | \$ 91,405 | \$ 193,253 |
| AEPM | 1458767 | SPS | CSWS | 15 | 6/1/2009 | 6/1/2029 | 6/1/2013 | 6/1/2033 | \$ 14,063 | \$ - | \$ 21,095 | \$ 44,600 |
| | | | | | | | | | \$ 75,000 | \$ - | \$ 112,500 | \$ 237,854 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Base Plan Funding for Wind | Directly Assigned for Wind | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------------|----------------------------|----------------------|------------------|----------------------------|
| 1458766 | NORTHWEST INTERCHANGE - SUNSET SUB 115KV CKT 1 | 6/1/2017 | 6/1/2017 | | | \$ 60,937 | \$ 30,468 | \$ 91,405 | \$ 112,500 | \$ 193,253 |
| | | | | | | Total | \$ 60,937 | \$ 30,468 | \$ 91,405 | \$ 112,500 |
| 1458767 | NORTHWEST INTERCHANGE - SUNSET SUB 115KV CKT 1 | 6/1/2017 | 6/1/2017 | | | \$ 14,063 | \$ 7,032 | \$ 21,095 | \$ 112,500 | \$ 44,600 |
| | | | | | | Total | \$ 14,063 | \$ 7,032 | \$ 21,095 | \$ 112,500 |

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 Service Date | Redispatch Available |
|-------------|------------------------------------|----------|----------|-----------------------|----------------------|
| 1458766 | RUSSETT - RUSSETT 138KV CKT 1 OKGE | 6/1/2010 | 6/1/2010 | | |
| | RUSSETT - RUSSETT 138KV CKT 1 WFEC | 6/1/2010 | 6/1/2010 | | |
| 1458767 | RUSSETT - RUSSETT 138KV CKT 1 OKGE | 6/1/2010 | 6/1/2010 | | |
| | RUSSETT - RUSSETT 138KV CKT 1 WFEC | 6/1/2010 | 6/1/2010 | | |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1458766 | CHERRY SUB 230/115 KV TRANSFORMER CKT 1 | 6/1/2017 | 6/1/2017 | | |
| | DEAF SMITH - PANDA 115 KV CKT 1 | 6/1/2011 | 6/1/2012 | | Yes |
| | EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1 | 6/1/2010 | 6/1/2012 | | Yes |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HASTINGS 115 KV CONVERSION | 6/1/2011 | 6/1/2012 | | Yes |
| | MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1 | 6/1/2010 | 6/1/2012 | | Yes |
| | NEWHART INTERCHANGE PROJECT | 6/1/2011 | 6/1/2012 | | Yes |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |
| | RANDALL 230/115 KV TRANSFORMER CKT 2 | 6/1/2010 | 6/1/2013 | | Yes |
| | SOUTH PLAINS REC-YUMA - WOLFFORTH INTERCHANGE 115KV CKT 1 | 6/1/2010 | 6/1/2012 | | Yes |
| | STILWELL - WEST GARDNER 345KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| 1458767 | CHERRY SUB 230/115 KV TRANSFORMER CKT 1 | 6/1/2017 | 6/1/2017 | | |
| | DEAF SMITH - PANDA 115 KV CKT 1 | 6/1/2011 | 6/1/2012 | | |
| | EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1 | 6/1/2010 | 6/1/2012 | | Yes |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HASTINGS 115 KV CONVERSION | 6/1/2011 | 6/1/2012 | | Yes |
| | MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1 | 6/1/2010 | 6/1/2012 | | |
| | NEWHART INTERCHANGE PROJECT | 6/1/2011 | 6/1/2012 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |
| | RANDALL 230/115 KV TRANSFORMER CKT 2 | 6/1/2010 | 6/1/2013 | | Yes |
| | SOUTH PLAINS REC-YUMA - WOLFFORTH INTERCHANGE 115KV CKT 1 | 6/1/2010 | 6/1/2012 | | |
| | STILWELL - WEST GARDNER 345KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|--|--------|--------|-----------------------|----------------------|
| 1458766 | RENO 345/115KV CKT 2 | 6/1/10 | 6/1/10 | | |
| | BANN - RED SPRINGS REC 138KV CKT 1 | 7/1/12 | 7/1/12 | | |
| | HUGO POWER PLANT - VALLIANT 345 KV AEPW | 7/1/12 | 7/1/12 | | |
| | HUGO POWER PLANT - VALLIANT 345 KV WFEC | 7/1/12 | 7/1/12 | | |
| | HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1 | 7/1/12 | 7/1/12 | | |
| | NORTHWEST - WOODWARD 345KV CKT 1 | 1/1/10 | 1/1/10 | | |
| | RENO 345/115KV CKT 1 | 6/1/09 | 6/1/09 | | |
| | WICHITA - RENO 345KV | 6/1/09 | 6/1/09 | | |
| | WOODWARD 345/138KV TRANSFORMER CKT 1 | 1/1/10 | 1/1/10 | | |
| 1458766 | RENO 345/115KV CKT 2 | 6/1/10 | 6/1/10 | | |
| | BANN - RED SPRINGS REC 138KV CKT 1 | 7/1/12 | 7/1/12 | | |
| | HUGO POWER PLANT - VALLIANT 345 KV AEPW | 7/1/12 | 7/1/12 | | |
| | HUGO POWER PLANT - VALLIANT 345 KV WFEC | 7/1/12 | 7/1/12 | | |
| | HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1 | 7/1/12 | 7/1/12 | | |
| | NORTHWEST - WOODWARD 345KV CKT 1 | 1/1/10 | 1/1/10 | | |
| | RENO 345/115KV CKT 1 | 6/1/09 | 6/1/09 | | |
| | WICHITA - RENO 345KV | 6/1/09 | 6/1/09 | | |
| | WOODWARD 345/138KV TRANSFORMER CKT 1 | 1/1/10 | 1/1/10 | | |

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 Service Start Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | |
| 1458766 | ALPINE AECC - AMITY SS 115KV CKT 1 | 12/1/2010 | 12/1/2010 | | | \$ - | \$ - | |
| | ALPINE AECC - BISMARCK 115KV CKT 1 | 12/1/2010 | 12/1/2010 | | | \$ - | \$ - | |
| | BISMARCK - HOT SPRINGS WEST BUS 115KV CKT 1 | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | |
| | CEDAR HILL - PLANTATION 138KV CKT 1 | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | |
| | CEDAR HILL - TAMINA 138KV CKT 1 | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | |
| | CHINA - SABINE 230KV CKT 1 | 6/1/2012 | 6/1/2012 | | | \$ - | \$ - | |
| | CONROE BULK - PLANTATION 138KV CKT 1 | 6/1/2011 | 6/1/2011 | | | \$ - | \$ - | |
| | CYPRESS 500/138KV TRANSFORMER CKT 1 | 6/1/2015 | 6/1/2015 | | | \$ - | \$ - | |
| | CYPRESS 500/230KV TRANSFORMER CKT 1 | 6/1/2015 | 6/1/2015 | | | \$ - | \$ - | |
| | HARTBURG - INLAND-ORANGE 230KV CKT 1 | 6/1/2012 | 6/1/2012 | | | \$ - | \$ - | |
| | OAK RIDGE - PORTER 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | | \$ - | \$ - | |
| | PORTER - TAMINA 138KV CKT 1 | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | |
| | | | | | | Total | \$ - | \$ - |
| | 1458767 | ALPINE AECC - AMITY SS 115KV CKT 1 | 12/1/2010 | 12/1/2010 | | | \$ - | \$ - |
| ALPINE AECC - BISMARCK 115KV CKT 1 | | 12/1/2010 | 12/1/2010 | | | \$ - | \$ - | |
| BISMARCK - HOT SPRINGS WEST BUS 115KV CKT 1 | | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | |
| CEDAR HILL - PLANTATION 138KV CKT 1 | | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | |
| CEDAR HILL - TAMINA 138KV CKT 1 | | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | |
| CHINA - SABINE 230KV CKT 1 | | 6/1/2012 | 6/1/2012 | | | \$ - | \$ - | |
| CONROE BULK - PLANTATION 138KV CKT 1 | | 6/1/2011 | 6/1/2011 | | | \$ - | \$ - | |
| CYPRESS 500/138KV TRANSFORMER CKT 1 | | 6/1/2015 | 6/1/2015 | | | \$ - | \$ - | |
| CYPRESS 500/230KV TRANSFORMER CKT 1 | | 6/1/2015 | 6/1/2015 | | | \$ - | \$ - | |
| HARTBURG - INLAND-ORANGE 230KV CKT 1 | | 6/1/2012 | 6/1/2012 | | | \$ - | \$ - | |
| OAK RIDGE - PORTER 138KV CKT 1 | | 6/1/2012 | 6/1/2012 | | | \$ - | \$ - | |
| PORTER - TAMINA 138KV CKT 1 | | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | |
| | | | | | | Total | \$ - | \$ - |

*An affected system study will need to be performed

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

Customer Study Number
CALP AG1-2008-010

| Customer | Reservation | POR | POD | Requested Amount | Requested Start Date | Requested Stop Date | Deferred Start Date Without Redispatch | Deferred Stop Date Without Redispatch | Potential Base Plan Funding Allowable | Point-to-Point Base Rate | Allocated E & C Cost | Total Revenue Requirements |
|----------|-------------|------|--------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| CALP | 1393818 | CSWS | ERCOTE | 50 | 1/1/2009 | 1/1/2019 | 6/1/2012 | 1/1/2019 | \$ - | \$ 9,164,820 | \$ 920,000 | \$ 1,371,222 |
| CALP | 1393823 | CSWS | ERCOTE | 50 | 1/1/2009 | 1/1/2019 | 6/1/2012 | 1/1/2019 | \$ - | \$ 9,164,820 | \$ 920,000 | \$ 1,371,222 |
| CALP | 1393830 | CSWS | ERCOTE | 50 | 1/1/2009 | 1/1/2019 | 6/1/2012 | 1/1/2019 | \$ - | \$ 9,164,820 | \$ 920,000 | \$ 1,371,222 |
| CALP | 1393837 | CSWS | ERCOTE | 50 | 1/1/2009 | 1/1/2019 | 6/1/2012 | 1/1/2019 | \$ - | \$ 9,164,820 | \$ 920,000 | \$ 1,371,222 |
| CALP | 1393838 | CSWS | ERCOTE | 50 | 1/1/2009 | 1/1/2019 | 6/1/2012 | 1/1/2019 | \$ - | \$ 9,164,820 | \$ 920,000 | \$ 1,371,222 |
| | | | | | | | | | \$ | \$ 45,824,100 | \$ 4,600,000 | \$ 6,856,112 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1393818 | BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | | \$ 920,000 | \$ 4,600,000 | \$ 1,371,222 |
| 1393823 | BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | | \$ 920,000 | \$ 4,600,000 | \$ 1,371,222 |
| 1393830 | BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | | \$ 920,000 | \$ 4,600,000 | \$ 1,371,222 |
| 1393837 | BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | | \$ 920,000 | \$ 4,600,000 | \$ 1,371,222 |
| 1393838 | BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | | \$ 920,000 | \$ 4,600,000 | \$ 1,371,222 |
| Total | | | | | | \$ 920,000 | \$ 4,600,000 | \$ 1,371,222 |

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 Service Date | Redispatch Available |
|-------------|------------------------------------|----------|----------|-----------------------|----------------------|
| 1393818 | RUSSETT - RUSSETT 138KV CKT 1 OKGE | 6/1/2010 | 6/1/2010 | | |
| | RUSSETT - RUSSETT 138KV CKT 1 WFEC | 6/1/2010 | 6/1/2010 | | |
| 1393823 | RUSSETT - RUSSETT 138KV CKT 1 OKGE | 6/1/2010 | 6/1/2010 | | |
| | RUSSETT - RUSSETT 138KV CKT 1 WFEC | 6/1/2010 | 6/1/2010 | | |
| 1393830 | RUSSETT - RUSSETT 138KV CKT 1 OKGE | 6/1/2010 | 6/1/2010 | | |
| | RUSSETT - RUSSETT 138KV CKT 1 WFEC | 6/1/2010 | 6/1/2010 | | |
| 1393837 | RUSSETT - RUSSETT 138KV CKT 1 OKGE | 6/1/2010 | 6/1/2010 | | |
| | RUSSETT - RUSSETT 138KV CKT 1 WFEC | 6/1/2010 | 6/1/2010 | | |
| 1393838 | RUSSETT - RUSSETT 138KV CKT 1 OKGE | 6/1/2010 | 6/1/2010 | | |
| | RUSSETT - RUSSETT 138KV CKT 1 WFEC | 6/1/2010 | 6/1/2010 | | |

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 Service Date | Redispatch Available |
|-------------|---|-----------|----------|-----------------------|----------------------|
| 1393818 | BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | Yes |
| 1393823 | BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | Yes |
| 1393830 | BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | Yes |
| 1393837 | BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | Yes |
| 1393838 | BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | Yes |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|---|-----------|----------|-----------------------|----------------------|
| 1393818 | 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 | | |
| | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2011 | 6/1/2013 | | |
| | DEARING 138KV Capacitor | 6/1/2012 | 6/1/2012 | | |
| | FLATRDG3 138.00 - MEDICINE LODGE 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 345 KV 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 | | |
| | NORTHWEST - WOODWARD 345KV CKT 1 | 1/1/2010 | 1/1/2010 | | |
| | OKAY - TURK 138KV CKT 1 | 7/1/2012 | 7/1/2012 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUB 110 - ORONOJO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

| | | | | |
|---------|---|-----------|----------|--|
| 1393823 | 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 | |
| | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2011 | 6/1/2013 | |
| | DEARING 138KV Capacitor | 6/1/2012 | 6/1/2012 | |
| | FLATRDG3 - 138.00 - MEDICINE LODGE 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 345 KV 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 | |
| | NORTHWEST - WOODWARD 345KV CKT 1 | 1/1/2010 | 1/1/2010 | |
| | OKAY - TURK 138KV CKT 1 | 7/1/2012 | 7/1/2012 | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | |
| | SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | |
| 1393830 | 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 | |
| | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2011 | 6/1/2013 | |
| | DEARING 138KV Capacitor | 6/1/2012 | 6/1/2012 | |
| | FLATRDG3 - 138.00 - MEDICINE LODGE 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 345 KV 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 | |
| | NORTHWEST - WOODWARD 345KV CKT 1 | 1/1/2010 | 1/1/2010 | |
| | OKAY - TURK 138KV CKT 1 | 7/1/2012 | 7/1/2012 | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | |
| | SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | |
| 1393837 | 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 | |
| | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2011 | 6/1/2013 | |
| | DEARING 138KV Capacitor | 6/1/2012 | 6/1/2012 | |
| | FLATRDG3 - 138.00 - MEDICINE LODGE 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 345 KV 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 | |
| | NORTHWEST - WOODWARD 345KV CKT 1 | 1/1/2010 | 1/1/2010 | |
| | OKAY - TURK 138KV CKT 1 | 7/1/2012 | 7/1/2012 | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | |
| | SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | |
| 1393838 | 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 | |
| | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2011 | 6/1/2013 | |
| | DEARING 138KV Capacitor | 6/1/2012 | 6/1/2012 | |
| | FLATRDG3 - 138.00 - MEDICINE LODGE 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 345 KV 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 | |
| | NORTHWEST - WOODWARD 345KV CKT 1 | 1/1/2010 | 1/1/2010 | |
| | OKAY - TURK 138KV CKT 1 | 7/1/2012 | 7/1/2012 | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | |
| | SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | |

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

Customer Study Number
GRDX AG1-2008-024

| Customer | Reservation | POR | POD | Requested Amount | Requested Start Date | Requested Stop Date | Deferred Start Date Without Redispatch | Deferred Stop Date Without Redispatch | Potential Base Plan Funding Allowable | Point-to-Point Base Rate | Allocated E & C Cost | Total Revenue Requirements | |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|--------------|
| GRDX | 1405543 | OKGE | GRDA | 157 | 1/1/2009 | 1/1/2014 | 6/1/2012 | 6/1/2017 | \$ - | \$ - | \$ 11,987,450 | \$ 3,026,844 | |
| | | | | | | | | | | | \$ - | \$ 11,987,450 | \$ 3,026,844 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements | |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|--------------|
| 1405543 | ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Expedite | 6/1/2010 | 6/1/2012 | | Yes | \$ 1,354,889 | \$ 11,987,450 | \$ 3,026,844 | |
| | | | | | | Total | \$ 1,354,889 | \$ 11,987,450 | \$ 3,026,844 |

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 Service Date | Redispatch Available |
|-------------|--|----------|----------|-----------------------|----------------------|
| 1405543 | CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1 | 6/1/2010 | 6/1/2010 | | |
| | CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2 | 6/1/2010 | 6/1/2010 | | |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1405543 | BRYANT - JONES TAP 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | CPP TRANS #2 - PRYOR FOUNDRY SOUTH 69KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | MAID - PRYOR FOUNDRY SOUTH 69KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | MAID - REDDEN 69KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1 | 6/1/2010 | 6/1/2012 | | |

Third Party Limitations.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Start Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | |
|-------------|--|-----------|----------|-----------------------------|----------------------|----------------------|------------------|--------------|
| 1405543 | 4LUTHER 138.00 138/69KV TRANSFORMER CKT 1 | 6/1/2010 | 6/1/2012 | | Yes | \$ 2,000,000 | \$ 2,000,000 | |
| | ARCADIA - OMPA-EDMOND GARBER(LAKE) 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | | \$ 2,505 | \$ 30,000 | |
| | | | | | | Total | \$ 2,002,505 | \$ 2,030,000 |

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

Customer Study Number
 INDP AG2-2008-051

| 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 |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| INDP | 1458202 | INDN | KCPL | 9 | 1/1/2009 | 1/1/2011 | 3/1/2010 | 3/1/2012 | \$ - | \$ 190,080 | \$ - | \$ - |
| | | | | | | | | | \$ - | \$ 190,080 | \$ - | \$ - |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--------------|-----|-----|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1458202 | None | | | | | \$ - | \$ - | \$ - |
| Total | | | | | | \$ - | \$ - | \$ - |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| | LACYGNE - WEST GARDNER 345KV CKT 1 | 6/1/2006 | 6/1/2006 | | |
| | SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
 INDP AG2-2008-052

| 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 |
|----------|-------------|-----|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| INDP | 1458207 | WR | INDN | 15 | 1/1/2009 | 1/1/2029 | 3/1/2010 | 3/1/2030 | \$ - | \$ 3,636,000 | \$ 12,360 | \$ 61,679 |
| | | | | | | | | | \$ - | \$ 3,636,000 | \$ 12,360 | \$ 61,679 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|-------------------------------|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1458207 | KCI - Platte City 161kV Ckt 1 | 6/1/2010 | 6/1/2011 | | | \$ 12,360 | \$ 150,000 | \$ 61,679 |
| | | | | | | | | |
| | | | | | | \$ 12,360 | \$ 150,000 | \$ 61,679 |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1458207 | South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line | 6/1/2010 | 6/1/2011 | | |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1458207 | BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | LONGVIEW - WESTERN ELECTRIC 161KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |
| | STILWELL - WEST GARDNER 345KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|---------------------------------|----------|----------|-----------------------|----------------------|
| 1458207 | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2010 | 6/1/2013 | 12/1/2012 | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|------------------------------------|----------|----------|-----------------------|----------------------|
| 1458207 | LACYGNE - WEST GARDNER 345KV CKT 1 | 6/1/2006 | 6/1/2006 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
 INDP AG2-2008-053

| 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 |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| INDP | 1458487 | OPPD | INDN | 2 | 6/1/2009 | 6/1/2049 | 3/1/2010 | 3/1/2050 | \$ - | \$ 969,600 | \$ 1,500 | \$ 10,475 |
| | | | | | | | | | \$ - | \$ 969,600 | \$ 1,500 | \$ 10,475 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|-------------------------------|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1458487 | KCI - Platte City 161kV Ckt 1 | 6/1/2010 | 6/1/2011 | | | \$ 1,500 | \$ 150,000 | \$ 10,475 |
| Total | | | | | | \$ 1,500 | \$ 150,000 | \$ 10,475 |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1458487 | BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |
| | STILWELL - WEST GARDNER 345KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

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

Customer **Study Number**
 KCPS AG1-2008-029

| 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 |
|----------|-------------|-----|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KCPS | 1405741 | WR | KCPL | 20 | 5/1/2011 | 5/1/2025 | | | \$ 13,170 | \$ - | \$ 13,170 | \$ 45,434 |
| | | | | | | | | | \$ 13,170 | \$ - | \$ 13,170 | \$ 45,434 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|---|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1405741 | HALSTEAD SOUTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 2,293 | \$ 112,000 | \$ 5,114 |
| | KCI - Platte City 161kV Ckt 1 | 6/1/2010 | 6/1/2011 | | | \$ 10,877 | \$ 150,000 | \$ 40,320 |
| | | | | | | \$ 13,170 | \$ 262,000 | \$ 45,434 |

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 Service Date | Redispatch Available |
|-------------|-------------------------------------|----------|----------|-----------------------|----------------------|
| 1405741 | STILWELL - WEST GARDNER 345KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1405741 | BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1 | 6/1/2011 | 1/1/2013 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|------------------------------------|----------|----------|-----------------------|----------------------|
| 1405741 | LACYGNE - WEST GARDNER 345KV CKT 1 | 6/1/2006 | 6/1/2006 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
 KCPS AG2-2008-070

| 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 | 1458727 | WPEK | KCPL | 50 | 9/1/2009 | 9/1/2013 | 6/1/2013 | 9/1/2013 | \$ - | \$ 2,112,000 | \$ 3,690,453 | \$ 5,229,889 |
| KCPS | 1458728 | WPEK | KCPL | 50 | 9/1/2009 | 9/1/2013 | 6/1/2013 | 9/1/2013 | \$ - | \$ 2,112,000 | \$ 3,690,453 | \$ 5,229,889 |
| | | | | | | | | | \$ - | \$ 4,224,000 | \$ 7,380,906 | \$ 10,459,777 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1458727 | GREENLEAF - KNOB HILL 115KV CKT 1 MKEC | 6/1/2013 | 6/1/2013 | | | \$ 1,760,000 | \$ 3,520,000 | \$ 2,417,772 |
| | GREENLEAF - KNOB HILL 115KV CKT 1 WERE | 6/1/2013 | 6/1/2013 | | | \$ 1,925,000 | \$ 3,850,000 | \$ 2,799,683 |
| | KCI - Platte City 161KV Ckt 1 | 6/1/2010 | 6/1/2011 | | Yes | \$ 5,453 | \$ 150,000 | \$ 12,434 |
| | | | | | Total | \$ 3,690,453 | \$ 7,520,000 | \$ 5,229,889 |
| 1458728 | GREENLEAF - KNOB HILL 115KV CKT 1 MKEC | 6/1/2013 | 6/1/2013 | | | \$ 1,760,000 | \$ 3,520,000 | \$ 2,417,772 |
| | GREENLEAF - KNOB HILL 115KV CKT 1 WERE | 6/1/2013 | 6/1/2013 | | | \$ 1,925,000 | \$ 3,850,000 | \$ 2,799,683 |
| | KCI - Platte City 161KV Ckt 1 | 6/1/2010 | 6/1/2011 | | Yes | \$ 5,453 | \$ 150,000 | \$ 12,434 |
| | | | | | Total | \$ 3,690,453 | \$ 7,520,000 | \$ 5,229,889 |

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 Service Date | Redispatch Available |
|-------------|-----------------------------------|----------|-----------|-----------------------|----------------------|
| 1458727 | HOLCOMB - PLYMELL 115KV CKT 1 | 6/1/2010 | 12/1/2010 | | Yes |
| | PIONEER TAP - PLYMELL 115KV CKT 1 | 6/1/2010 | 12/1/2010 | | Yes |
| 1458728 | HOLCOMB - PLYMELL 115KV CKT 1 | 6/1/2010 | 12/1/2010 | | Yes |
| | PIONEER TAP - PLYMELL 115KV CKT 1 | 6/1/2010 | 12/1/2010 | | 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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1458727 | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | Hitchland Interchange - Moore County Interchange 230 kV | 6/1/2010 | 6/1/2012 | | Yes |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| 1458728 | STILWELL - WEST GARDNER 345KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | Hitchland Interchange - Moore County Interchange 230 kV | 6/1/2010 | 6/1/2012 | | Yes |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | STILWELL - WEST GARDNER 345KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|---|-----------|----------|-----------------------|----------------------|
| 1458727 | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2010 | 6/1/2013 | 12/1/2012 | Yes |
| | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2010 | 6/1/2013 | | Yes |
| 1458728 | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | 6/1/2010 | 6/1/2013 | | Yes |
| | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2010 | 6/1/2013 | 12/1/2012 | Yes |
| | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2010 | 6/1/2013 | | Yes |
| | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | 6/1/2010 | 6/1/2013 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|---|-----------|----------|-----------------------|----------------------|
| 1458727 | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2011 | 6/1/2013 | | |
| | 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 345 KV WIFC | 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 | | |
| | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | NORTHWEST - WOODWARD 345KV CKT 1 | 1/1/2010 | 1/1/2010 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |
| | 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

| | | | | |
|---------|---|-----------|----------|--|
| 1458728 | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2011 | 6/1/2013 | |
| | 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 345 KV 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 | |
| | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2009 | 6/1/2013 | |
| | NORTHWEST - WOODWARD 345KV CKT 1 | 1/1/2010 | 1/1/2010 | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | |
| | SUB 110 - ORONOJO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | |
| | 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

Customer Study Number
 KEPC AG1-2008-036

| 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 |
|----------|-------------|-----|-----|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KEPC | 1405798 | WR | WR | 3 | 5/1/2011 | 5/1/2018 | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | \$ - | \$ - | \$ - | \$ - |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date Available | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|--------------|--------------|-----|-----|---------------------------------|----------------------|----------------------|------------------|----------------------------|
| 1405798 | 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 Service Date | Redispatch Available |
|-------------|---|----------|-----------|-----------------------|----------------------|
| 1405798 | EAST MANHATTAN - NW MANHATTAN 230/115KV | 6/1/2010 | 12/1/2011 | | |
| | East Manhattan to Mcdowell 230 kV | 6/1/2010 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|-------------------------------------|----------|----------|-----------------------|----------------------|
| 1405798 | STILWELL - WEST GARDNER 345KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1405798 | BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1 | 6/1/2011 | 1/1/2013 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|------------------------------------|----------|----------|-----------------------|----------------------|
| 1405798 | LACYGNE - WEST GARDNER 345KV CKT 1 | 6/1/2006 | 6/1/2006 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
KMEA AG1-2008-013

| 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 |
|----------|-------------|------|-----|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KMEA | 1394351 | GRDA | WR | 1 | 5/1/2010 | 5/1/2015 | | | \$ - | \$ 143,940 | \$ 699 | \$ 1,586 |
| | | | | | | | | | \$ - | \$ 143,940 | \$ 699 | \$ 1,586 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1394351 | ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Expedite | 6/1/2010 | 6/1/2012 | | | \$ 699 | \$ 11,987,450 | \$ 1,586 |
| | | | | | | \$ 699 | \$ 11,987,450 | \$ 1,586 |

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 Service Date | Redispatch Available |
|-------------|--|----------|-----------|-----------------------|----------------------|
| 1394351 | ROSE HILL JUNCTION - WEAVER 69KV CKT 1 | 6/1/2010 | 12/1/2010 | | |

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 Service Date | Redispatch Available |
|-------------|---|-----------|-----------|-----------------------|----------------------|
| 1394351 | AFTON - FAIRLAND EDE TAP 69KV CKT 1 | 12/1/2014 | 12/1/2014 | | |
| | CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1 | 6/1/2010 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|--|-----------|----------|-----------------------|----------------------|
| 1394351 | BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | |
| | BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1 | 6/1/2011 | 1/1/2013 | | |
| | ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement | 6/1/2010 | 6/1/2011 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1394351 | SUB 110 - ORONOJO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
KMEA AG1-2008-039

| 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 |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KMEA | 1405809 | GRDA | SECI | 2 | 5/1/2010 | 5/1/2026 | | | \$ 43,033 | \$ - | \$ 43,033 | \$ 100,366 |
| | | | | | | | | | \$ 43,033 | \$ - | \$ 43,033 | \$ 100,366 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|---|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1405809 | JEWELL - SMITH CENTER 115KV CKT 1 | 6/1/2018 | 6/1/2018 | | | \$ 34,576 | \$ 225,000 | \$ 74,331 |
| | JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1 | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | |
| | SEWARD - ST JOHN 115KV CKT 1 | 6/1/2010 | 6/1/2011 | | | \$ 8,457 | \$ 225,000 | \$ 26,035 |
| | | | | | Total | \$ 43,033 | \$ 450,000 | \$ 100,366 |

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 Service Date | Redispatch Available |
|-------------|--|----------|----------|-----------------------|----------------------|
| 1405809 | HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW | 6/1/2015 | 6/1/2015 | | |
| | HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE | 6/1/2015 | 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 Service Date | Redispatch Available |
|-------------|--|----------|----------|-----------------------|----------------------|
| 1405809 | BEATRICE - HARBINE 115KV CKT 1 | 6/1/2019 | 6/1/2019 | | |
| | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | CLEARWATER - MILAN TAP 138KV CKT 1 MKEC | 6/1/2017 | 6/1/2017 | | |
| | CLEARWATER - MILAN TAP 138KV CKT 1 WERE | 6/1/2017 | 6/1/2017 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HARPER - MILAN TAP 138KV CKT 1 | 6/1/2017 | 6/1/2017 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |
| | TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1 | 6/1/2015 | 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 Service Date | Redispatch Available |
|-------------|---|-----------|----------|-----------------------|----------------------|
| 1405809 | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2010 | 6/1/2013 | | |
| | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | 6/1/2010 | 6/1/2013 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|--|-----------|----------|-----------------------|----------------------|
| 1405809 | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2011 | 6/1/2013 | | |
| | FLATROCK 138.00 - MEDICINE LODGE 138KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
KMEA AG2-2008-040

| 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 |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KMEA | 1457913 | GRDA | SECI | 13 | 5/1/2009 | 5/1/2027 | 6/1/2013 | 6/1/2031 | \$ 842,140 | \$ - | \$ 842,140 | \$ 1,977,700 |
| | | | | | | | | | \$ 842,140 | \$ - | \$ 842,140 | \$ 1,977,700 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1457913 | ARCADIA - REDBUD 345KV CKT 3 | 6/1/2019 | 6/1/2019 | | | \$ 21,507 | \$ 19,000,000 | \$ 53,260 |
| | ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Expedite | 6/1/2010 | 6/1/2012 | | | \$ 6,868 | \$ 11,987,450 | \$ 14,445 |
| | BRYANT - MEMORIAL 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 913 | \$ 250,000 | \$ 2,261 |
| | EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 573,715 | \$ 30,000,000 | \$ 1,393,019 |
| | HALLSTEAD SOUTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 2,408 | \$ 112,000 | \$ 5,847 |
| | JEWELL - SMITH CENTER 115KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 190,424 | \$ 225,000 | \$ 429,488 |
| | JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1 | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | \$ - |
| | SEWARD - ST JOHN 115KV CKT 1 | 6/1/2010 | 6/1/2011 | | | \$ 46,305 | \$ 225,000 | \$ 79,380 |
| Total | | | | | | \$ 842,140 | \$ 61,799,450 | \$ 1,977,700 |

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 Service Date | Redispatch Available |
|-------------|--|----------|----------|-----------------------|----------------------|
| 1457913 | HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW | 6/1/2015 | 6/1/2015 | | |
| | HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE | 6/1/2015 | 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 Service Date | Redispatch Available |
|-------------|---|-----------|-----------|-----------------------|----------------------|
| 1457913 | AFTON - FAIRLAND EDE TAP 69KV CKT 1 | 12/1/2014 | 12/1/2014 | | |
| | BEATRICE - HARBINE 115KV CKT 1 | 6/1/2019 | 6/1/2019 | | |
| | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | CLEARWATER - MILAN TAP 138KV CKT 1 MKEC | 6/1/2017 | 6/1/2017 | | |
| | CLEARWATER - MILAN TAP 138KV CKT 1 WERE | 6/1/2017 | 6/1/2017 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | FRIO DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HARPER - MILAN TAP 138KV CKT 1 | 6/1/2017 | 6/1/2017 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | Multi - Stateline - Joplin - Reinmiller conversion | 6/1/2015 | 6/1/2015 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |
| | PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1 | 6/1/2010 | 6/1/2012 | | |
| | TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1 | 6/1/2015 | 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 Service Date | Redispatch Available |
|-------------|--|-----------|----------|-----------------------|----------------------|
| 1457913 | BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | |
| | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2010 | 6/1/2013 | | |
| | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | 6/1/2010 | 6/1/2013 | | |
| | ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement | 6/1/2010 | 6/1/2011 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|---|-----------|----------|-----------------------|----------------------|
| 1457913 | FLATRDG3 - 138.00 - MEDICINE LODGE 138KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | LACYONE - WEST GARDNER 345KV CKT 1 | 6/1/2006 | 6/1/2006 | | |
| | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
KMEA AG2-2008-044

| 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 |
|----------|-------------|------|-----|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KMEA | 1458109 | GRDA | WR | 2 | 5/1/2009 | 5/1/2027 | 1/1/2012 | 1/1/2030 | \$ - | \$ 680,400 | \$ 6,395 | \$ 17,398,480 |
| | | | | | | | | | \$ - | \$ 680,400 | \$ 6,395 | \$ 17,398,480 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1458109 | ARCADIA - REDBUD 345KV CKT 3 | 6/1/2019 | 6/1/2019 | | | \$ 3,345 | \$ 19,000,000 | \$ 8,284 |
| | ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Expedite | 6/1/2010 | 6/1/2012 | | | \$ 1,208 | \$ 11,987,450 | \$ 2,541 |
| | BRYANT - MEMORIAL 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 149 | \$ 250,000 | \$ 369 |
| | HALSTEAD SOUTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 1,085 | \$ 112,000 | \$ 2,634 |
| | SEWARD - ST JOHN 115KV CKT 1 | 6/1/2010 | 6/1/2011 | | | \$ 608 | \$ 225,000 | \$ 1,042 |
| | UNION RIDGE - HERRINGTON 34.5 KV CKT 1 | 6/1/2010 | 1/1/2012 | | | \$ 5,500,000 | \$ 5,500,000 | \$ 17,383,610 |
| Total | | | | | | \$ 5,506,395 | \$ 37,074,450 | \$ 17,398,480 |

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 Service Date | Redispatch Available |
|-------------|---|-----------|-----------|-----------------------|----------------------|
| 1458109 | AFTON - FAIRLAND EDE TAP 69KV CKT 1 | 12/1/2014 | 12/1/2014 | | |
| | AUBURN ROAD (AUBRN7X) 230/115/13.8KV TRANSFORMER CKT 2 | 6/1/2013 | 6/1/2013 | | |
| | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | FARMLAND 138KV | 6/1/2015 | 6/1/2015 | | |
| | Multi - Steteline - Joplin - Reinmillar conversion | 6/1/2015 | 6/1/2015 | | |
| | PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1 | 6/1/2010 | 6/1/2012 | | |
| | TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1 | 6/1/2015 | 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 Service Date | Redispatch Available |
|-------------|--|-----------|----------|-----------------------|----------------------|
| 1458109 | BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | |
| | ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement | 6/1/2010 | 6/1/2011 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1458109 | DEARING 138KV Capacitor | | 6/1/2012 | 6/1/2012 | |
| | LACYGNE - WEST GARDNER 345KV CKT 1 | 6/1/2006 | 6/1/2006 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUB 110 - ORONOJO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
KPP AG1-2008-015

| Customer | Reservation | POR | POD | Requested Amount | Requested Start Date | Requested Stop Date | Deferred Start Date Without Redispatch | Deferred Stop Date Without Redispatch | Potential Base Plan Funding Allowable | Point-to-Point Base Rate | Allocated E & C Cost | Total Revenue Requirements |
|----------|-------------|-----|-----|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KPP | 1403992 | WR | WR | 13 | 6/1/2008 | 6/1/2017 | 6/1/2012 | 6/1/2021 | \$ 1,111,452 | \$ - | \$ 1,111,452 | \$ 2,082,640 |
| KPP | 1403993 | WR | WR | 3 | 6/1/2008 | 6/1/2017 | 6/1/2012 | 6/1/2021 | \$ 57,797 | \$ - | \$ 57,797 | \$ 111,157 |
| KPP | 1403996 | WR | WR | 6 | 6/1/2008 | 6/1/2017 | 3/1/2010 | 3/1/2019 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | \$ 1,169,249 | \$ - | \$ 1,169,249 | \$ 2,193,797 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|---------------------------------------|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1403992 | LARNED 115/12.47 KV TRANSFORMER CKT 1 | 6/1/2010 | 6/1/2012 | | | \$ 368,125 | \$ 368,125 | \$ 683,939 |
| | PAWNEE - LARNED 115 KV CKT 1 | 6/1/2010 | 6/1/2012 | | | \$ 706,833 | \$ 706,833 | \$ 1,313,224 |
| | SEWARD - ST JOHN 115KV CKT 1 | 6/1/2010 | 6/1/2011 | | | \$ 36,494 | \$ 225,000 | \$ 85,477 |
| | | | | | Total | \$ 1,111,452 | \$ 1,299,958 | \$ 2,082,640 |
| 1403993 | PRESTON CITY 34.5 KV CAPACITOR | 6/1/2010 | 6/1/2012 | | | \$ 50,000 | \$ 50,000 | \$ 92,895 |
| | SEWARD - ST JOHN 115KV CKT 1 | 6/1/2010 | 6/1/2011 | | | \$ 7,797 | \$ 225,000 | \$ 18,262 |
| | | | | | Total | \$ 57,797 | \$ 275,000 | \$ 111,157 |
| 1403996 | 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 Service Date | Redispatch Available |
|-------------|--|----------|----------|-----------------------|----------------------|
| 1403992 | HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW | 6/1/2015 | 6/1/2015 | | |
| | HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE | 6/1/2015 | 6/1/2015 | | |
| 1403993 | HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW | 6/1/2015 | 6/1/2015 | | |
| | HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE | 6/1/2015 | 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 Service Date | Redispatch Available |
|-------------|--|----------|----------|-----------------------|----------------------|
| 1403992 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | CLEARWATER - MILAN TAP 138KV CKT 1 MKEC | 6/1/2017 | 6/1/2017 | | |
| | CLEARWATER - MILAN TAP 138KV CKT 1 WERE | 6/1/2017 | 6/1/2017 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HARPER - MILAN TAP 138KV CKT 1 | 6/1/2017 | 6/1/2017 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |
| 1403993 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | CLEARWATER - MILAN TAP 138KV CKT 1 MKEC | 6/1/2017 | 6/1/2017 | | |
| | CLEARWATER - MILAN TAP 138KV CKT 1 WERE | 6/1/2017 | 6/1/2017 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HARPER - MILAN TAP 138KV CKT 1 | 6/1/2017 | 6/1/2017 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |

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

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 Service Date | Redispatch Available |
|-------------|---|-----------|----------|-----------------------|----------------------|
| 1403992 | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2010 | 6/1/2013 | | |
| | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | 6/1/2010 | 6/1/2013 | | |
| 1403993 | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2010 | 6/1/2013 | | |
| | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | 6/1/2010 | 6/1/2013 | | |
| 1403996 | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | 6/1/2010 | 6/1/2013 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|--|-----------|----------|-----------------------|----------------------|
| 1403992 | FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |
| 1403993 | FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |
| 1403996 | FLATRDG3 138.00 - HARPER 138KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

For reservation 1403992, The interim firm import capability is 7MW.

For reservation 1403993, The interim firm import capability is 1MW. The firm import capability after the upgrade is 1.7MW.

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

Customer Study Number
KPP AG1-2008-017

| Customer | Reservation | POR | POD | Requested Amount | Requested Start Date | Requested Stop Date | Deferred Start Date Without Redispatch | Deferred Stop Date Without Redispatch | Potential Base Plan Funding Allowable | Point-to-Point Base Rate | Allocated E & C Cost | Total Revenue Requirements |
|----------|-------------|-----|-----|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KPP | 1404448 | WR | WR | 4 | 6/1/2008 | 6/1/2018 | 6/1/2012 | 6/1/2022 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | \$ - | \$ - | \$ - | \$ - |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date Available | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--------------|-----|-----|---------------------------------|----------------------|----------------------|------------------|----------------------------|
| 1404448 | 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 Service Date Available | Redispatch Available |
|-------------|--|----------|-----------|---------------------------------|----------------------|
| 1404448 | ROSE HILL JUNCTION - WEAVER 69KV CKT 1 | 6/1/2010 | 12/1/2010 | | 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 Service Date Available | Redispatch Available |
|-------------|--|----------|----------|---------------------------------|----------------------|
| 1404448 | CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

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 Service Date Available | Redispatch Available |
|-------------|--|-----------|----------|---------------------------------|----------------------|
| 1404448 | ALLEN - LEHIGH TAP 69KV CKT 1 | 12/1/2011 | 6/1/2012 | | Yes |
| | ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement | 6/1/2010 | 6/1/2011 | | Yes |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date Available | Redispatch Available |
|-------------|------------------------------------|----------|----------|---------------------------------|----------------------|
| 1404448 | LACYGNE - WEST GARDNER 345KV CKT 1 | 6/1/2006 | 6/1/2006 | | |

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

Customer Study Number
KPP AG2-2008-037

| 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 |
|----------|-------------|------|-----|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KPP | 1457536 | GRDA | WR | 4 | 1/1/2009 | 1/1/2026 | 3/1/2010 | 3/1/2027 | \$ 8,705 | \$ - | \$ 8,705 | \$ 22,840 |
| | | | | | | | | | \$ 8,705 | \$ - | \$ 8,705 | \$ 22,840 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1457536 | ARCADIA - REDBUD 345KV CKT 3 | 6/1/2019 | 6/1/2019 | | | \$ 5,644 | \$ 19,000,000 | \$ 12,373 |
| | ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Expedite | 6/1/2010 | 6/1/2012 | | | \$ 2,798 | \$ 11,987,450 | \$ 9,890 |
| | BRYANT - MEMORIAL 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 263 | \$ 250,000 | \$ 577 |
| Total | | | | | | \$ 8,705 | \$ 31,237,450 | \$ 22,840 |

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 Service Date | Redispatch Available |
|-------------|--|----------|-----------|-----------------------|----------------------|
| 1457536 | ROSE HILL JUNCTION - WEAVER 69KV CKT 1 | 6/1/2010 | 12/1/2010 | | |

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 Service Date | Redispatch Available |
|-------------|---|-----------|-----------|-----------------------|----------------------|
| 1457536 | AFTON - FAIRLAND EDE TAP 69KV CKT 1 | 12/1/2014 | 12/1/2014 | | |
| | CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | Multi - Stateline - Joplin - Reinmiller conversion | 6/1/2015 | 6/1/2015 | | |
| | PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1 | 6/1/2010 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|--|-----------|----------|-----------------------|----------------------|
| 1457536 | BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | |
| | BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1 | 6/1/2011 | 1/1/2013 | | |
| | ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement | 6/1/2010 | 6/1/2011 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1457536 | SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
KPP AG2-2008-038

| 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 |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KPP | 1457802 | WPEK | WPEK | 3 | 11/1/2008 | 11/1/2013 | 3/1/2010 | 3/1/2015 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | \$ - | \$ - | \$ - | \$ - |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date Available | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|---|----------|----------|---------------------------------|----------------------|----------------------|------------------|----------------------------|
| 1457802 | JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1 | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - | \$ - |
| | | | | | | 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 Service Date Available | Redispatch Available |
|-------------|-----------------------------------|----------|-----------|---------------------------------|----------------------|
| 1457802 | HOLCOMB - PLYMELL 115KV CKT 1 | 6/1/2010 | 12/1/2010 | | |
| | PIONEER TAP - PLYMELL 115KV CKT 1 | 6/1/2010 | 12/1/2010 | | |

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 Service Date Available | Redispatch Available |
|-------------|--|----------|----------|---------------------------------|----------------------|
| 1457802 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |

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 Service Date Available | Redispatch Available |
|-------------|---|----------|----------|---------------------------------|----------------------|
| 1457802 | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | 6/1/2010 | 6/1/2013 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date Available | Redispatch Available |
|-------------|---------------------------------------|-----------|----------|---------------------------------|----------------------|
| 1457802 | FLAT RDG3 138.00 - HARPER 138KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
KPP AG2-2008-054

| 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 |
|----------|-------------|-----|-----|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| KPP | 1458533 | WR | WR | 11 | 10/1/2008 | 10/1/2018 | 3/1/2010 | 3/1/2020 | \$ 4,820 | \$ - | \$ 4,820 | \$ 8,724 |
| | | | | | | | | | \$ 4,820 | \$ - | \$ 4,820 | \$ 8,724 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|---|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1458533 | HALSTEAD SOUTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 4,820 | \$ 112,000 | \$ 8,724 |
| Total | | | | | | \$ 4,820 | \$ 112,000 | \$ 8,724 |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1458533 | AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2 | 6/1/2013 | 6/1/2013 | | |
| | BEATRICE - HARBINE 115KV CKT 1 | 6/1/2019 | 6/1/2019 | | |
| | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | FARMLAND 138KV | 6/1/2015 | 6/1/2015 | | |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | Hitchland Interchange - Moore County Interchange 230 kV | 6/1/2010 | 6/1/2012 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |

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 Service Date | Redispatch Available |
|-------------|--|----------|----------|-----------------------|----------------------|
| 1458533 | CLIFTON - GREENLEAF 115KV CKT 1 | 6/1/2010 | 6/1/2013 | 12/1/2012 | |
| | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | 6/1/2010 | 6/1/2013 | | |
| | ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement | 6/1/2010 | 6/1/2011 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|--------------------------------------|-----------|----------|-----------------------|----------------------|
| 1458533 | DEARING 138KV Capacitor | 6/1/2012 | 6/1/2012 | | |
| | 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 - WOODWARD 345KV CKT 1 | 1/1/2010 | 1/1/2010 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer Study Number
 OGE AG1-2008-018

| 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 |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| OGE | 1404463 | OKGE | OKGE | 120 | 8/31/2009 | 8/31/2034 | 6/1/2012 | 6/1/2037 | \$ 327,814 | \$ - | \$ 327,814 | \$ 1,839,442 |
| | | | | | | | | | \$ 328,891 | \$ - | \$ 327,814 | \$ 1,839,442 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Base Plan Funding for Wind | Directly Assigned for Wind | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------------|----------------------------|----------------------|------------------|----------------------------|
| 1404463 | ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Expedite | 6/1/2010 | 6/1/2012 | | | \$ 327,814 | \$ - | \$ 327,814 | \$ 11,987,450 | \$ 1,839,442 |
| Total | | | | | | \$ 327,814 | \$ - | \$ 327,814 | \$ 11,987,450 | \$ 1,839,442 |

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 Service Date | Redispatch Available |
|-------------|-------------------------------|----------|----------|-----------------------|----------------------|
| 1404463 | COLONY - FT SMITH 161KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|--|----------|----------|-----------------------|----------------------|
| 1404463 | BLUEBELL - PRATTVILLE 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | FRIED-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |
| | TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | TURKEY CREEK & OKARCHE CAP BANK | 6/1/2015 | 6/1/2015 | | |

Third Party Limitations.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost |
|-------------|--|-----------|----------|-----------------------|----------------------|----------------------|------------------|
| 1404463 | ARCADIA - OMPA-EDMOND GARBER(LAKE) 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | | \$ 1,616 | \$ 30,000 |
| Total | | | | | | \$ 1,616 | \$ 30,000 |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| | KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1 | 6/1/2006 | 6/1/2008 | | |
| | NORTHWEST - 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

Customer Study Number
 OGE AG1-2008-027

| Customer | Reservation | POR | POD | Requested Amount | Requested Start Date | Requested Stop Date | Deferred Start Date Without Redispatch | Deferred Stop Date Without Redispatch | Potential Base Plan Funding Allowable | Point-to-Point Base Rate | Allocated E & C Cost | Total Revenue Requirements |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| OGE | 1405664 | OKGE | OKGE | 648 | 6/1/2008 | 6/1/2028 | 6/1/2012 | 6/1/2032 | \$ 23,255,433 | \$ - | \$ 23,255,433 | \$ 83,782,940 |
| | | | | | | | | | \$ 23,255,433 | \$ - | \$ 23,255,433 | \$ 83,782,940 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1405664 | ARCADIA - REDBUD 345KV CKT 3 | 6/1/2019 | 6/1/2019 | | | \$ 15,142,325 | \$ 19,000,000 | \$ 45,118,750 |
| | ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Expedite | 6/1/2010 | 6/1/2012 | | | \$ 7,944,811 | \$ 11,987,450 | \$ 38,162,725 |
| | BRYANT - MEMORIAL 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 168,297 | \$ 250,000 | \$ 501,465 |
| | | | | | Total | \$ 23,255,433 | \$ 31,237,450 | \$ 83,782,940 |

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 Service Date | Redispatch Available |
|-------------|-------------------------------|----------|----------|-----------------------|----------------------|
| 1405664 | COLONY - FT SMITH 161KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|-----------------------------------|----------|----------|-----------------------|----------------------|
| 1405664 | BLUEBELL - PRATTVILLE 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | BRYANT - JONES TAP 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | |

Third Party Limitations.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost |
|-------------|--|-----------|----------|-----------------------|----------------------|----------------------|------------------|
| 1405664 | ARCADIA - OMPA-EDMOND GARBER(LAKE) 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | | \$ 21,071 | \$ 30,000 |
| | | | | | Total | \$ 21,071 | \$ 30,000 |

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

Customer Study Number
 OGE AG2-2008-017

| Customer | Reservation | POR | POD | Requested Amount | Requested Start Date | Requested Stop Date | Deferred Start Date Without Redispatch | Deferred Stop Date Without Redispatch | Potential Base Plan Funding Allowable | Point-to-Point Base Rate | Allocated E & C Cost | Total Revenue Requirements |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| OGE | 1454686 | OKGE | WFEC | 28 | 10/1/2008 | 10/1/2028 | 6/1/2012 | 6/1/2032 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | \$ - | \$ - | \$ - | \$ - |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date Available | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--------------|-----|-----|---------------------------------|----------------------|----------------------|------------------|----------------------------|
| 1454686 | 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 Service Date | Redispatch Available |
|-------------|------------------------------------|----------|----------|-----------------------|----------------------|
| 1454686 | RUSSETT - RUSSETT 138KV CKT 1 OKGE | 6/1/2010 | 6/1/2010 | | |
| | RUSSETT - RUSSETT 138KV CKT 1 WFEC | 6/1/2010 | 6/1/2010 | | |

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 Service Date | Redispatch Available |
|-------------|--|----------|----------|-----------------------|----------------------|
| 1454686 | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |
| | TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | TURKEY CREEK & OKARCHE CAP BANK | 6/1/2015 | 6/1/2015 | | |

Planned Projects

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|--------------------------------|----------|----------|-----------------------|----------------------|
| 1454686 | Multi - Johnson County Project | 6/1/2010 | 6/1/2012 | | Yes |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1454686 | HUGO POWER PLANT - VALLIANT 345 KV AEPW | 7/1/2012 | 7/1/2012 | | |
| | HUGO POWER PLANT - VALLIANT 345 KV WFEC | 7/1/2012 | 7/1/2012 | | |
| | HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1 | 7/1/2012 | 7/1/2012 | | |
| | KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1 | 6/1/2006 | 6/1/2008 | | |
| | NORTHWEST - 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

Customer Study Number
 OMPA AG1-2008-021

| Customer | Reservation | POR | POD | Requested Amount | Requested Start Date | Requested Stop Date | Deferred Start Date Without Redispatch | Deferred Stop Date Without Redispatch | Potential Base Plan Funding Allowable | Point-to-Point Base Rate | Allocated E & C Cost | Total Revenue Requirements |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| OMPA | 1404908 | OKGE | OKGE | 155 | 10/1/2008 | 10/1/2028 | 6/1/2012 | 6/1/2032 | \$ 6,255,920 | \$ - | \$ 6,255,920 | \$ 18,651,235 |
| | | | | | | | | | \$ 6,255,920 | \$ - | \$ 6,255,920 | \$ 18,651,235 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1404908 | ARCADIA - REDBUD 345KV CKT 3 | 6/1/2019 | 6/1/2019 | | | \$ 3,827,179 | \$ 19,000,000 | \$ 9,277,900 |
| | ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Expedite | 6/1/2010 | 6/1/2012 | | Yes | \$ 2,348,364 | \$ 11,987,450 | \$ 9,178,485 |
| | BRYANT - MEMORIAL 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 80,377 | \$ 250,000 | \$ 194,851 |
| Total | | | | | | \$ 6,255,920 | \$ 31,237,450 | \$ 18,651,235 |

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 Service Date | Redispatch Available |
|-------------|--|----------|-----------|-----------------------|----------------------|
| 1404908 | ROSE HILL JUNCTION - WEAVER 69KV CKT 1 | 6/1/2010 | 12/1/2010 | | |

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 Service Date | Redispatch Available |
|-------------|---------------------------------|----------|----------|-----------------------|----------------------|
| 1404908 | ANADARKO - PARADISE 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | BRYANT - JONES TAP 138KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |

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 Service Date | Redispatch Available |
|-------------|--|----------|----------|-----------------------|----------------------|
| 1404908 | ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement | 6/1/2010 | 6/1/2011 | | Yes |

Third Party Limitations.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost |
|-------------|--|-----------|----------|-----------------------|----------------------|----------------------|------------------|
| 1404908 | ARCADIA - OMPA-EDMOND GARBER(LAKE) 138KV CKT 1 | 12/1/2010 | 6/1/2012 | | Yes | \$ 4,808 | \$ 30,000 |
| Total | | | | | | \$ 4,808 | \$ 30,000 |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|--------------------------------------|----------|----------|-----------------------|----------------------|
| 1404908 | NORTHWEST - WOODWARD 345KV CKT 1 | 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

Customer Study Number
SEPC AG1-2008-037

| 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 |
|----------|-------------|------|------|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| SEPC | 1405823 | SECI | SECI | 1175 | 6/1/2008 | 6/1/2028 | 12/1/2010 | 12/1/2030 | \$ 3,587,339 | \$ - | \$ 3,587,339 | \$ 9,240,353 |
| | | | | | | | | | \$ 3,587,339 | \$ - | \$ 3,587,339 | \$ 9,240,353 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date Available | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--|----------|----------|---------------------------------|----------------------|----------------------|------------------|----------------------------|
| 1405823 | EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 3,587,339 | \$ 30,000,000 | \$ 9,240,353 |
| Total | | | | | | \$ 3,587,339 | \$ 30,000,000 | \$ 9,240,353 |

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 Service Date Available | Redispatch Available |
|-------------|-----------------------------------|----------|-----------|---------------------------------|----------------------|
| 1405823 | HOLCOMB - PLYMELL 115KV CKT 1 | 6/1/2010 | 12/1/2010 | | |
| | PIONEER TAP - PLYMELL 115KV CKT 1 | 6/1/2010 | 12/1/2010 | | |

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 Service Date Available | Redispatch Available |
|-------------|--|----------|----------|---------------------------------|----------------------|
| 1405823 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | CLEARWATER - MILAN TAP 138KV CKT 1 MKEC | 6/1/2017 | 6/1/2017 | | |
| | CLEARWATER - MILAN TAP 138KV CKT 1 WERE | 6/1/2017 | 6/1/2017 | | |
| | ERICK 138KV CAPICITOR | 6/1/2012 | 6/1/2012 | | |
| | FLETCHER - HOLCOMB 115KV CKT 1 | 6/1/2015 | 6/1/2015 | | |
| | FRIO-DRAW - POTTER 345 KV | 6/1/2017 | 6/1/2017 | | |
| | HARPER - MILAN TAP 138KV CKT 1 | 6/1/2017 | 6/1/2017 | | |
| | HYDRO CAPICITOR 138KV | 6/1/2012 | 6/1/2012 | | |
| | POTTER - ANADARKO 345 KV | 6/1/2017 | 6/1/2017 | | |

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 Service Date Available | Redispatch Available |
|-------------|---|----------|----------|---------------------------------|----------------------|
| 1405823 | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | 6/1/2010 | 6/1/2013 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date Available | Redispatch Available |
|-------------|---|-----------|----------|---------------------------------|----------------------|
| 1405823 | 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 | | |
| | HUGO POWER PLANT - VALLIANT 345 KV AEPW | 7/1/2012 | 7/1/2012 | | |
| | HUGO POWER PLANT - VALLIANT 345 KV WFEC | 7/1/2012 | 7/1/2012 | | |
| | HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1 | 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 | | |
| | MEDICINE LODGE - PRATT 115KV CKT 1 | 12/1/2009 | 6/1/2013 | | |
| | NORTHWEST - WOODWARD 345KV CKT 1 | 1/1/2010 | 1/1/2010 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |
| | 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

Customer Study Number
WRGS AG1-2008-028

| Customer | Reservation | POR | POD | Requested Amount | Requested Start Date | Requested Stop Date | Deferred Start Date Without Redispatch | Deferred Stop Date Without Redispatch | Potential Base Plan Funding Allowable | Point-to-Point Base Rate | Allocated E & C Cost | Total Revenue Requirements |
|----------|-------------|-----|-----|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| WRGS | 1405690 | WR | WR | 20 | 5/1/2011 | 5/1/2018 | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | \$ - | \$ - | \$ - | \$ - |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date Available | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|--------------|--------------|-----|-----|---------------------------------|----------------------|----------------------|------------------|----------------------------|
| 1405690 | 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 Service Date | Redispatch Available |
|-------------|---|----------|-----------|-----------------------|----------------------|
| 1405690 | EAST MANHATTAN - NW MANHATTAN 230/115KV | 6/1/2010 | 12/1/2011 | | |
| | East Manhattan to Mcdowell 230 kV | 6/1/2010 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1405690 | AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2 | 6/1/2013 | 6/1/2013 | | |
| | GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1 | 6/1/2011 | 6/1/2011 | | |
| | STILWELL - WEST GARDNER 345KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1405690 | BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1 | 6/1/2011 | 1/1/2013 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|------------------------------------|----------|----------|-----------------------|----------------------|
| 1405690 | LACYGNE - WEST GARDNER 345KV CKT 1 | 6/1/2006 | 6/1/2006 | | |
| | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer **Study Number**
 WRGS AG2-2008-006

| 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 |
|----------|-------------|-----|-----|------------------|----------------------|---------------------|--|---------------------------------------|---------------------------------------|--------------------------|----------------------|----------------------------|
| WRGS | 1431605 | EES | SPA | 8 | 3/1/2010 | 3/1/2040 | | | \$ - | \$ 2,592,000 | \$ - | \$ - |
| | | | | | | | | | \$ - | \$ 2,592,000 | \$ - | \$ - |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|--------------|-----|-----|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1431605 | 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 Service Date | Redispatch Available |
|-------------|-------------------------------|----------|----------|-----------------------|----------------------|
| 1431605 | COLONY - FT SMITH 161KV CKT 1 | 6/1/2012 | 6/1/2012 | | |

Third Party Limitations.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Start Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost |
|-------------|--|-----------|-----------|-----------------------------|----------------------|----------------------|------------------|
| 1431605 | CALICO ROCK - NORFORK 161KV CKT 1 SWPA | 12/1/2010 | 12/1/2010 | | | \$ - | \$ - |
| | DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA | 6/1/2010 | 6/1/2011 | | | \$ - | \$ - |
| | HERGETT - JONESBORO 161KV CKT 1 SWPA | 6/1/2010 | 6/1/2010 | | | \$ - | \$ - |
| Total | | | | | | \$ - | \$ - |

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

Customer **Study Number**
 WRGS AG2-2008-034

| 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 | 1457037 | WR | WR | 174 | 1/4/2019 | 1/4/2029 | | | \$ - | \$ - | \$ 12,076,117 | \$ 41,539,622 |
| | | | | | | | | | \$ - | \$ - | \$ 12,076,117 | \$ 41,539,622 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|---|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1457037 | EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 12,036,759 | \$ 30,000,000 | \$ 41,404,237 |
| | HALSTEAD SOUTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 39,358 | \$ 112,000 | \$ 135,384 |
| | Total | | | | | \$ 12,076,117 | \$ 30,112,000 | \$ 41,539,622 |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1457037 | AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2 | 6/1/2013 | 6/1/2013 | | |
| | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1 | 6/1/2011 | 6/1/2011 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|----------------------|----------|----------|-----------------------|----------------------|
| 1457037 | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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

Customer **Study Number**
 WRGS AG2-2008-035

| 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 | 1457044 | WR | WR | 61 | 1/1/2014 | 1/1/2024 | | | \$ 3,709,291 | \$ - | \$ 3,709,291 | \$ 8,871,050 |
| | | | | | | | | | \$ 3,709,291 | \$ - | \$ 3,709,291 | \$ 8,871,050 |

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available | Allocated E & C Cost | Total E & C Cost | Total Revenue Requirements |
|-------------|---|----------|----------|-----------------------|----------------------|----------------------|------------------|----------------------------|
| 1457044 | EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 3,692,694 | \$ 30,000,000 | \$ 8,831,357 |
| | HALSTEAD SOUTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1 | 6/1/2019 | 6/1/2019 | | | \$ 16,597 | \$ 112,000 | \$ 39,693 |
| | Total | | | | | \$ 3,709,291 | \$ 30,112,000 | \$ 8,871,050 |

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 Service Date | Redispatch Available |
|-------------|---|----------|----------|-----------------------|----------------------|
| 1457044 | AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2 | 6/1/2013 | 6/1/2013 | | |
| | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 6/1/2012 | 6/1/2012 | | |
| | GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1 | 6/1/2011 | 6/1/2011 | | |

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

| Reservation | Upgrade Name | DUN | EOC | Earliest Service Date | Redispatch Available |
|-------------|----------------------|----------|----------|-----------------------|----------------------|
| 1457044 | RENO 345/115KV CKT 1 | 6/1/2009 | 6/1/2009 | | |
| | RENO 345/115KV CKT 2 | 6/1/2010 | 6/1/2010 | | |
| | SUMMIT - RENO 345KV | 6/1/2010 | 6/1/2010 | | |
| | WICHITA - RENO 345KV | 6/1/2009 | 6/1/2009 | | |

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 | BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1 | Rebuild 4.33 of 795 ACSR with 1590 ACSR. Replace Oneta wavetraps & Jumpers | 6/1/2015 | 6/1/2015 | \$ 4,600,000 |
| KACP | KCI - Platte City 161KV Ckt 1 | Replace 800 amp wavetraps at KCI | 6/1/2010 | 6/1/2011 | \$ 150,000 |
| MIDW | LARNED 115/12.47 KV TRANSFORMER CKT 1 | Install 12 MVA 115/12.47 kv transformer at Larned. | 6/1/2010 | 6/1/2012 | \$ 368,125 |
| MIDW | PAWNEE - LARNED 115 KV CKT 1 | Build 1.5 mile 115 kv line from Pawnee to the City of Larned. | 6/1/2010 | 6/1/2012 | \$ 706,833 |
| MIDW | PRESTON CITY 34.5 KV CAPACITOR | Install 1 MVAR capacitor at Preston City 34.5 kv to provide support for city of Stafford | 6/1/2010 | 6/1/2012 | \$ 50,000 |
| MKEC | GREENLEAF - KNOB HILL 115KV CKT 1 MKEC | Rebuild 67.3% Ownership of 20.9 miles | 6/1/2013 | 6/1/2013 | \$ 3,520,000 |
| MKEC | JEWELL - SMITH CENTER 115KV CKT 1 | Replace Terminal Equipment | 6/1/2018 | 6/1/2018 | \$ 225,000 |
| MKEC | SEWARD - ST JOHN 115KV CKT 1 | Replace Terminal Equipment | 6/1/2010 | 6/1/2011 | \$ 225,000 |
| OKGE | ARCADIA - REDBUD 345KV CKT 3 | Add eight mile 3rd 345 kv line from Redbud to Arcadia | 6/1/2019 | 6/1/2019 | \$ 19,000,000 |
| OKGE | ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Expedite | Add 3rd 345/138KV Auto and convert the 345kv and 138kv to a breaker and a half configuration. | 6/1/2010 | 6/1/2012 | \$ 11,987,450 |
| OKGE | BRYANT - MEMORIAL 138KV CKT 1 | Change out wavetraps to 2000A | 6/1/2019 | 6/1/2019 | \$ 250,000 |
| SPS | NORTHWEST INTERCHANGE - SUNSET SUB 115KV CKT 1 | Replace Terminal Equipment | 6/1/2017 | 6/1/2017 | \$ 112,500 |
| SUNC | JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1 | Interim Redispatch | 6/1/2010 | 6/1/2010 | \$ - |
| WERE | EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 | Rebuild existing line to 345 kv operated as 230 kv | 6/1/2019 | 6/1/2019 | \$ 30,000,000 |
| WERE | GREENLEAF - KNOB HILL 115KV CKT 1 WERE | Rebuild 32.7% Ownership of 20.9 miles | 6/1/2013 | 6/1/2013 | \$ 3,850,000 |
| WERE | HALSTEAD SOUTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1 | Replace disconnect switches. | 6/1/2019 | 6/1/2019 | \$ 112,000 |
| WERE | UNION RIDGE - HERRINGTON 34.5 KV CKT 1 | Install 115-34.5 kv transformer at Union Ridge and build approximately 6 miles of new 34.5 Kv to Herrington. | 6/1/2010 | 1/1/2012 | \$ 5,500,000 |

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) |
|--------------------|--|--|--------------------------------------|--|
| AEPW | BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 | Rebuild 8.37 miles of 795 ACSR with 1590 ACSR & reset relays @ BSE | 12/1/2010 | 6/1/2012 |
| MKEC | CLIFTON - GREENLEAF 115KV CKT 1 | Rebuild 14.4 miles | 6/1/2010 | 6/1/2013 |
| MKEC | MEDICINE LODGE - PRATT 115KV CKT 1 | Rebuild 26 mile line | 12/1/2010 | 6/1/2013 |
| MKEC | MEDICINE LODGE 138/115KV TRANSFORMER CKT 1 Displacement | Upgrade transformer | 6/1/2010 | 6/1/2013 |
| WERE | ALLEN - LEHIGH TAP 69KV CKT 1 | Tear down / Rebuild 5.69-mile line; 954 kcmil ACSR | 12/1/2011 | 6/1/2012 |
| WERE | BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1 | Rebuild 4.1 miles with 954 kcmil ACSR (138kv/69kv Operation) | 6/1/2011 | 1/1/2013 |
| WERE | ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement | Add third 345-138 kv transformer at Rose Hill | 6/1/2010 | 6/1/2011 |

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

| Transmission Owner | Upgrade | Solution | Earliest Date Upgrade Required (DUN) | Estimated Date of Upgrade Completion (EOC) |
|--------------------|--------------------------------|--|--------------------------------------|--|
| OKGE | Multi - Johnson County Project | Build a new 345 EHV substation in the Sunnyside to Pittsburg line. Install a 400 MVA transformer with 3-345kv breakers in a ring bus and 4-138kv breakers in a ring bus at new Johnson County sub. | 6/1/2010 | 6/1/2012 |

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) |
|--------------------|---|---|--------------------------------------|--|
| GRDA | CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1 | Upgrade both existing transformers | 6/1/2010 | 6/1/2010 |
| GRDA | CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2 | Upgrade both existing transformers | 6/1/2010 | 6/1/2010 |
| MIDW | HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW | Tear down and rebuild 73.4% Ownership 28.79 mile HEC-Huntsville 115 kv line and replace CT, wavetraps and relays. | 6/1/2015 | 6/1/2015 |
| MIPU | South Harper 161 kv cut-in to Stilwell-Archie JCT 161 kv line | To tap Stilwell-Archie JCT 161 kv line into South Harper 161 kv sub and make it two new 161 kv sections: Stilwell-South Harper and Archie JCT- South Harper . | 6/1/2010 | 6/1/2011 |
| OKGE | COLONY - FT SMITH 161KV CKT 1 | Reconductor 2.2 miles to Drake ACCC/TW and change terminal equipment at Ft. Smith & Colony to 2000A | 6/1/2012 | 6/1/2012 |
| OKGE | RUSSETT - RUSSETT 138KV CKT 1 OKGE | Replace trap and increase CTR. Pending verification of relays. | 6/1/2010 | 6/1/2010 |
| SUNC | HOLCOMB - PLYMELL 115KV CKT 1 | Rebuild Holcomb to Plymell | 6/1/2010 | 12/1/2010 |
| SUNC | PIONEER TAP - PLYMELL 115KV CKT 1 | Rebuild Plymell to Pioneer Tap | 6/1/2010 | 12/1/2010 |
| WERE | EAST MANHATTAN - NW MANHATTAN 230/115KV | Tap the Concordia - East Manhattan 230kv line and add a new substation "NW Manhattan"; Add a 230kv/115kv transformer and tap the KSU - Wildcat 115kv line into NW Manhattan | 6/1/2010 | 12/1/2011 |
| WERE | East Manhattan to McDowell 230 kv | The East Manhattan-McDowell 115 kv is built as a 230 kv line, but is operated at 115 kv. Substation work will have to be performed in order to convert this line. | 6/1/2010 | 6/1/2012 |
| WERE | HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE | Tear down and rebuild 26.6% Ownership 28.79 mile HEC-Huntsville 115 kv line and replace CT, wavetraps and relays. | 6/1/2015 | 6/1/2015 |
| WERE | ROSE HILL JUNCTION - WEAVER 69KV CKT 1 | Rebuild Weaver-Rose Hill 69 kv | 6/1/2010 | 12/1/2010 |
| WFEC | RUSSETT - RUSSETT 138KV CKT 1 WFEC | Replace trap and increase CTR. Pending verification of relays. | 6/1/2010 | 6/1/2010 |

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

| Reliability Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer. | | | | |
|--|---|---|--------------------------------------|--|
| Transmission Owner | Upgrade | Solution | Earliest Date Upgrade Required (DUN) | Estimated Date of Upgrade Completion (EOC) |
| AEPW | BLUEBELL - PRATTVILLE 138KV CKT 1 | Rebuild 9 miles of 795 ACSR with 1590 ACRS | 6/1/2015 | 6/1/2015 |
| AEPW | PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1 | Replace (3) 600 A switches with 1200 A switches replace | 6/1/2010 | 6/1/2012 |
| EMDE | Multi - Stateline - Joplin - Reinmiller conversion | Tear down the Riverton to Joplin 59 69 kV line, rebuilding the line to 161 kV from Stateline to outside Joplin 59 sub. Tear down and rebuild Joplin 59 to Gateway to Pillsbury to Reinmiller, converting those 69 kV lines to 161 kV. Tap the 161 kV line betwe | 6/1/2015 | 6/1/2015 |
| GRDA | AFTON - FAIRLAND EDE TAP 69KV CKT 1 | Replace terminal equipment | 12/1/2014 | 12/1/2014 |
| GRDA | CPP TRANSF #2 - PRYOR FOUNDRY SOUTH 69KV CKT 1 | Replace 600A switch with 1200A switch | 6/1/2015 | 6/1/2015 |
| GRDA | FARMLAND 138KV | Install 7.2MVAR Cap Bank at Farmland | 6/1/2015 | 6/1/2015 |
| GRDA | MAID - PRYOR FOUNDRY SOUTH 69KV CKT 1 | Upgrade conductor size 795 ACSR | 6/1/2015 | 6/1/2015 |
| GRDA | MAID - REDDEN 69KV CKT 1 | Upgrade conductor size 795 ACSR | 6/1/2015 | 6/1/2015 |
| KACP | STILWELL - WEST GARDNER 345KV CKT 1 | Must upgrade Stilwell terminal equipment to 2000 amps | 6/1/2012 | 6/1/2012 |
| MIPU | BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1 | Replace the 800 amp wavetrap at Prairie Lee | 6/1/2015 | 6/1/2015 |
| MIPU | LONGVIEW - WESTERN ELECTRIC 161KV CKT 1 | Replace wavetraps at Longview and Western Electric | 6/1/2015 | 6/1/2015 |
| MKEC | CLEARWATER - MILAN TAP 138KV CKT 1 MKEC | Rebuild Clearwater-Milan tap 115 kV with bundled 1192.5 kcmil ACSR contuctor (Bunting) | 6/1/2017 | 6/1/2017 |
| MKEC | HARPER - MILAN TAP 138KV CKT 1 | Replace Wave Trap at Harper Substation | 6/1/2017 | 6/1/2017 |
| NPPD | BEATRICE - HARBINE 115KV CKT 1 | Reconductor and upgrade terminal equipment to effect higher rating by 2019. 240 MVA Normal Continuous Rating. | 6/1/2019 | 6/1/2019 |
| OKGE | BRYANT - JONES TAP 138KV CKT 1 | Replace switch at Jones Tap | 6/1/2015 | 6/1/2015 |
| OKGE | TURKEY CREEK & OKARCHE CAP BANK | Install capacitors at Turkey Creek & Okarche | 6/1/2015 | 6/1/2015 |
| SPS | CHERRY SUB 230/115 KV TRANSFORMER CKT 1 | Tap Harrington - Potter 230 kV and step down to 115 at Cherry Sub. | 6/1/2017 | 6/1/2017 |
| SPS | DEAF SMITH - PANDA 115 KV CKT 1 | Add new 115 kV circuit 1.0 miles with 4/0 AS kcmil conductor | 6/1/2011 | 6/1/2012 |
| SPS | EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1 | Reconductor with 795 ACSR | 6/1/2010 | 6/1/2012 |
| SPS | FRIO-DRAW - POTTER 345 KV | Build new 345 kV line from Potter to new Frio-Draw substation at Roosevelt. Build 345/230 kV and 230/115 kV transformers at Frio-Draw substation. Build new line Roosevelt N - Frio-Draw - Oasis 230 kV. | 6/1/2017 | 6/1/2017 |
| SPS | HASTINGS 115 KV CONVERSION | Convert Hastings Sub to 115 kV. Build Bush - Hastings - East Plant 397 ACSR. Tap Harrington - Potter 230 kV and step down to 115 at Cherry Sub. | 6/1/2011 | 6/1/2012 |
| SPS | Hitchland Interchange - Moore County Interchange 230 kV | Install 50 miles of 230 kv from Hitchland to Moore County Interchange | 6/1/2010 | 6/1/2012 |
| SPS | MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1 | Reconductor line | 6/1/2010 | 6/1/2012 |
| SPS | NEWHART INTERCHANGE PROJECT | Add Newhart 230 kV bus tapping Plant X - Potter 230 kV. Build Newhart - Swisher County Interchange 230 kV. Add Newhart 115 kV bus and build new 115 kV line from Castro Newhart - Kress. Add Newhart 230/115 kV Transformer (copy of Pecos 150 MVA). Buil | 6/1/2011 | 6/1/2012 |
| SPS | POTTER - ANADARKO 345 KV | Build new 345 kV line from Potter to Midpoint Bus (Stateline) to Anadarko. | 6/1/2017 | 6/1/2017 |
| SPS | RANDALL 230/115 KV TRANSFORMER CKT 2 | add new 230/115 kV transformer at Randall | 6/1/2010 | 6/1/2013 |
| SPS | SOUTH PLAINS REC-YUMA - WOLFFORTH INTERCHANGE 115KV CKT 1 | replace terminal equipment and reconductor 600 feet of 397.5 ACSR at Wolfforth to match t-line from Yuma | 6/1/2010 | 6/1/2012 |
| SPS | TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1 | Install 345/115 kV Transformer at Tucu | 6/1/2015 | 6/1/2015 |
| SUNC | FLETCHER - HOLCOMB 115KV CKT 1 | Rebuild Line | 6/1/2015 | 6/1/2015 |
| WERE | AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2 | Add second Auburn 230-115 kV transformer. | 6/1/2013 | 6/1/2013 |
| WERE | CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1 | Reset terminal equipment | 6/1/2011 | 6/1/2011 |
| WERE | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | Tear down and rebuild 7.88 mile Gill-Clearwater | 6/1/2012 | 6/1/2012 |
| WERE | CLEARWATER - MILAN TAP 138KV CKT 1 WERE | Rebuild Clearwater-Milan tap 115 kV with bundled 1192.5 kcmil ACSR contuctor (Bunting) | 6/1/2017 | 6/1/2017 |
| WERE | GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1 | Replace wave trap | 6/1/2011 | 6/1/2011 |
| WFEC | ANADARKO - PARADISE 138KV CKT 1 | Upgrade Anadarko to Snyder SW, 477 to 1113; upgrade terminal equipment at Snyder; new rating will be 212/264 | 6/1/2015 | 6/1/2015 |
| WFEC | ERICK 138KV CAPICITOR | Install 18 Mvar capacitor at Erick 138 kV bus. | 6/1/2012 | 6/1/2012 |
| WFEC | HYDRO CAPICITOR 138KV | Add 12 Mvar Capacitor at Hydro | 6/1/2012 | 6/1/2012 |

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

| Previously Assigned Aggregate Study Upgrades requiring credits to Previous Aggregate Study Customers. | | | | |
|---|---|---|--------------------------------------|--|
| Transmission Owner | Upgrade | Solution | Earliest Date Upgrade Required (DUN) | Estimated Date of Upgrade Completion (EOC) |
| 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 | 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 |
| 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 | KCPL Sponsored Project to Reconductor Line to be In-Service by 6/1/2006 | 6/1/2006 | 6/1/2006 |
| 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 | MEDICINE LODGE - PRATT 115KV CKT 1 | Rebuild 26 mile line | 12/1/2009 | 6/1/2013 |
| OKGE | KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1 | Replace bus tie with 100MVA transformer | 6/1/2006 | 6/1/2008 |
| OKGE | NORTHWEST - WOODWARD 345KV CKT 1 | Build 120 miles of 345 kV | 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 |
| WERE | DEARING 138KV Capacitor | Dearing 138 kV 20 MVAR Capacitor Addition | 6/1/2012 | 6/1/2012 |
| WERE | RENO 345/115KV CKT 1 | New stepdown transformer at a new substation in Reno County east northeast of Hutchinson | 6/1/2009 | 6/1/2009 |
| WERE | RENO 345/115KV CKT 2 | Install 2nd stepdown transformer at Reno County substation east northeast of Hutchinson | 6/1/2010 | 6/1/2010 |
| WERE | SUMMIT - RENO 345KV | Install new 50.55-mile 345 kV line from Reno county to Summit; 31 miles of 115 kV line between Circle and S Philips would be rebuilt as double circuit with the 345 kV line to minimize ROW impacts; Substation work required at Summit for new 345 kV terminal | 6/1/2010 | 6/1/2010 |
| WERE | WICHITA - RENO 345KV | 40 mile 345 kV transmission line from existing Wichita 345 kV substation to a new 345-115 kV substation in Reno County east northeast of Hutchinson (Wichita to Reno) | 6/1/2009 | 6/1/2009 |
| WFEC | HUGO POWER PLANT - VALLIANT 345 KV 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 |

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 |
|--------------------|--|---|--------------------------------------|--|---|
| AECJ | 4LUTHER 138.00 138/69KV TRANSFORMER CKT 1 | Upgrade to 84 MVA transformer | 6/1/2010 | 6/1/2012 | \$2,000,000.00 |
| EES | ALPINE AECC - AMITY SS 115KV CKT 1 | Rebuild Transmission Line 2.88 miles | 12/1/2010 | 12/1/2010 | Indeterminate |
| EES | ALPINE AECC - BISMARK 115KV CKT 1 | Rebuild Transmission Line 14.88 miles | 12/1/2010 | 12/1/2010 | Indeterminate |
| EES | BISMARK - HOT SPRINGS WEST BUS 115KV CKT 1 | Rebuild Transmission Line 19.61 miles | 6/1/2010 | 6/1/2010 | Indeterminate |
| EES | CEDAR HILL - PLANTATION 138KV CKT 1 | Indeterminate | 6/1/2010 | 6/1/2010 | Indeterminate |
| EES | CEDAR HILL - TAMINA 138KV CKT 1 | Indeterminate | 6/1/2010 | 6/1/2010 | Indeterminate |
| EES | CHINA - SABINE 230KV CKT 1 | Indeterminate | 6/1/2012 | 6/1/2012 | Indeterminate |
| EES | CONROE BULK - PLANTATION 138KV CKT 1 | Indeterminate | 6/1/2011 | 6/1/2011 | Indeterminate |
| EES | CYPRESS 500/138KV TRANSFORMER CKT 1 | Indeterminate | 6/1/2015 | 6/1/2015 | Indeterminate |
| EES | CYPRESS 500/230KV TRANSFORMER CKT 1 | Indeterminate | 6/1/2015 | 6/1/2015 | Indeterminate |
| EES | HARTBURG - INLAND-ORANGE 230KV CKT 1 | Indeterminate | 6/1/2012 | 6/1/2012 | Indeterminate |
| EES | OAK RIDGE - PORTER 138KV CKT 1 | Indeterminate | 6/1/2012 | 6/1/2012 | Indeterminate |
| EES | PORTER - TAMINA 138KV CKT 1 | Indeterminate | 6/1/2010 | 6/1/2010 | Indeterminate |
| OMPA | ARCADIA - OMPA-EDMOND GARBER(LAKE) 138KV CKT 1 | Replace Line Switches | 12/1/2010 | 6/1/2012 | \$ 30,000 |
| SWPA | CALICO ROCK - NORFORK 161KV CKT 1 SWPA | Replace bus, CTs, & Wave Trap @ Norfolk | 12/1/2010 | 12/1/2010 | Indeterminate |
| SWPA | DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA | Replace wave trap, disconnect switches, current transformers, and breaker. Bus will limit rating to 1340 amps. | 6/1/2010 | 6/1/2011 | Indeterminate |
| SWPA | HERGETT - JONESBORO 161KV CKT 1 SWPA | Increase the CT ratio to 1200/5. This would involve changing taps on the CT, adjusting the scaling on a panel meter, and changing relay settings. | 6/1/2010 | 6/1/2010 | Indeterminate |