



*Aggregate Facility Study
SPP-2007-AG1-AFS-5
For Transmission Service
Requested by
Aggregate Transmission Customers*

SPP Engineering, SPP Tariff Studies

SPP AGGREGATE FACILITY STUDY (SPP-2007-AG1-AFS-5)

November 2, 2007

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1. Executive Summary

Pursuant to Attachment Z of the Southwest Power Pool Open Access Transmission Tariff (OATT), 1840 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 Z provides for facility upgrade cost recovery by stating that “[a]ny charges paid by a customer in excess of the transmission access charges in compensation for the revenue requirements for allocated facility upgrade(s) shall be recovered by such customer from future transmission service revenues until the customer has been fully compensated.”

The total assigned facility upgrade Engineering and Construction (E &C) cost determined by the AFS is \$80 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 \$241 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 \$97 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 2nd, 2007. 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 17th, 2007, 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. In compliance with this Order, the first open season of 2007 commenced on October 1, 2006. All requests for long-term transmission service received prior to February 1, 2007 with a signed study agreement were then included in this first Aggregate Transmission Service Study (ATSS) of 2007.

Approximately 1840 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 Z 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 Z. 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 Z 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 Z Section VII.

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 110% and 90%. The upper bound and lower bound of the emergency voltage range monitored is 110% 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 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 69 kV and above. Voltage monitoring was performed for SPP control area buses 69 kV and above.

A 3 % transfer distribution factor (TDF) cutoff was applied to all SPP control area facilities. For 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 twelve seasonal models to study the aggregate transfers of 1840 MW over a variety of requested service periods. The SPP MDWG 2007 Series Cases Update 2 2007, 2007/08 Winter Peak (07WP), 2008 April (08AP), 2008 Spring Peak (08G), 2008 Summer Peak (08SP), 2008 Summer Shoulder (08SH), 2008 Fall Peak (08FA), 2008/09 Winter Peak (08WP), 2009 Summer Peak (09SP), 2009/10 Winter Peak (09WP), 2012 Summer Peak (12SP), 2012/13 Winter Peak (12WP), and 2017 Summer Peak (17SP) 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 1840 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 2007 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 2007 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 2007 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 2007 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 2007 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. 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 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. The 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. 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 facility 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 (COD), Estimated Date of Upgrade Completion (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. If the 5 year term and 125% resource to load criteria are met, the lesser of the planned maximum net dependable capacity (NDC) or the requested capacity is multiplied by \$180,000 to determine the potential base plan funding allowable. When calculating Base Plan Funding amounts that include a wind farm, the amount used is 10% of the requested amount of service, or the NDC. 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.

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 power supply contracts or agreements verifying that the firm capacity of the requested designated resource is committed for a minimum five year duration.

B. Study Definitions

The Commercial Operation Date (COD) 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 2nd, 2007. 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 17th, 2007, 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. 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 letters of authorization to construct facility upgrades to the constructing Transmission Owner. This date is determined by the engineering and construction lead time provided for each facility upgrade.

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 redispatch	Deferred Stop Date without interim redispatch	Start Date with interim redispatch	Stop Date with interim redispatch	Notes	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period
EDE	AG1-2007-051	1222640	WPEK	EDE	100	11/1/2008	11/1/2028	6/1/2010	6/1/2030	6/1/2010	6/1/2030	²	0	08SP
INDP	AG1-2007-045	1221966	OPPD	INDN	6	6/1/2009	6/1/2034	6/1/2010	6/1/2035	6/1/2010	6/1/2035		0	12SP
KBPU	AG1-2007-043D	1221923	SPA	KACY	39	7/1/2010	7/1/2020						0	12SP
KBPU	AG1-2007-044D	1221925	WR	KACY	25	1/1/2008	1/1/2028	6/1/2010	6/1/2030	6/1/2010	6/1/2030		0	08SP
KCPS	AG1-2007-080	1223159	KCPL	EES	52	6/1/2007	6/1/2012	6/1/2010	6/1/2015	6/1/2007	6/1/2012	²	0	08SP
KCPS	AG1-2007-081	1223161	KCPL	SPA	15	1/1/2008	1/1/2009	6/1/2009	6/1/2010	1/1/2008	1/1/2009	²	0	08SP
KMEA	AG1-2007-007	1218859	GRDA	WR	1	5/1/2010	5/1/2026	6/1/2010	6/1/2026	6/1/2010	6/1/2026		0	12SP
KPP	AG1-2007-052	1222644	WR	WR	333	6/1/2007	6/1/2017	6/1/2010	6/1/2020	6/1/2010	6/1/2020		0	08SP
KPP	AG1-2007-054	1222904	WPEK	WPEK	3	6/1/2007	6/1/2017						0	08SP
KPP	AG1-2007-055	1222932	WR	WR	45	6/1/2007	6/1/2027	6/1/2010	6/1/2030	6/1/2010	6/1/2030	²	0	08SP
KPP	AG1-2007-056	1222937	WR	WPEK	5	6/1/2007	6/1/2027	6/1/2010	6/1/2030	6/1/2010	6/1/2030	²	0	08SP
KPP	AG1-2007-058	1222955	WR	WR	20	6/1/2007	6/1/2017	6/1/2010	6/1/2020	6/1/2010	6/1/2020		0	08SP
KPP	AG1-2007-064	1223078	WPEK	WPEK	15	6/1/2007	6/1/2017						0	08SP
SPRM	AG1-2007-042	1220082	SPA	SPA	275	10/1/2010	10/1/2050						0	12SP
UCU	AG1-2007-025D	1214263	MPS	WR	1	6/1/2007	6/1/2012	6/1/2010	6/1/2015	6/1/2010	6/1/2015	²	0	08SP
UCU	AG1-2007-023D	1214269	MPS	KCPL	2	6/1/2007	6/1/2012	6/1/2010	6/1/2015	6/1/2010	6/1/2015	²	0	08SP
UCU	AG1-2007-060D	1223092	EES	MPS	75	3/1/2009	3/1/2029	6/1/2010	6/1/2030	6/1/2010	6/1/2030	²	0	12SP
UCU	AG1-2007-060D	1223093	EES	MPS	75	3/1/2009	3/1/2029	6/1/2010	6/1/2030	6/1/2010	6/1/2030	²	0	12SP
UCU	AG1-2007-060D	1223094	EES	MPS	75	3/1/2009	3/1/2029	6/1/2010	6/1/2030	6/1/2010	6/1/2030	²	0	12SP
UCU	AG1-2007-060D	1223095	EES	MPS	75	3/1/2009	3/1/2029	6/1/2010	6/1/2030	6/1/2010	6/1/2030	²	0	12SP
UCU	AG1-2007-092	1223102	MPS	MPS	315	5/1/2010	5/1/2030	6/1/2010	6/1/2030	6/1/2010	6/1/2030	²	0	12SP
WFEC	AG1-2007-014	1217632	WFEC	WFEC	150	1/1/2011	1/1/2036						0	12SP
WRGS	AG1-2007-001D	1197077	EDE	WR	32	9/1/2007	9/1/2018	6/1/2010	6/1/2021	6/1/2010	6/1/2021	²	0	08SP
WRGS	AG1-2007-047D	1222005	WR	EES	106	10/1/2007	10/1/2010	6/1/2010	6/1/2013	6/1/2010	6/1/2013	²	0	08SP
					1840									
Note 1: Disregard Redispatch shown in Table 6 for limitations identified earlier than the start date with redispatch with the exception of limitations identified in the 2007 Summer Shoulder, and 2007 Fall Peak Note 2: Start and Stop Dates with interim redispatch are determined based on customers choosing option to pursue redispatch to start service at Requested Start and Stop Dates or earliest date														

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

Customer	Study Number	Reservation	⁵ 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	^{3,9} 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
EDE	AG1-2007-051	1222640	\$ 5,931,858	\$ 733,893	\$ 1,800,000		Indeterminate	\$ 20,322,193	\$ 14,115,546	\$ -	\$ 14,115,546
INDP	AG1-2007-045	1221966	\$ 538,597	\$ 538,597	\$ -		Indeterminate	\$ 1,884,319	\$ 1,871,209	\$ 1,584,000	\$ 1,871,209
KBPU	AG1-2007-043D	1221923	\$ 4,012,344	\$ 4,012,344	\$ -		Indeterminate	\$ 7,880,863	\$ 7,851,697	\$ 4,118,400	\$ 7,851,697
KBPU	AG1-2007-044D	1221925	\$ 3,825,682	\$ 3,825,682	\$ -		\$ -	\$ 13,871,373	\$ 13,844,264	\$ 5,280,000	\$ 13,844,264
KCPS	AG1-2007-080	1223159	\$ -	\$ -	\$ -	12	Indeterminate	\$ -	\$ -	\$ 2,808,000	\$ 2,808,000
KCPS	AG1-2007-081	1223161	\$ -	\$ -	\$ -	12	Indeterminate	\$ -	\$ -	\$ 162,000	\$ 162,000
KMEA	AG1-2007-007	1218859	\$ 1,557	\$ -	\$ 1,557		Indeterminate	\$ 4,228	\$ -	\$ 289,536	\$ 289,536
KPP	AG1-2007-052	1222644	\$ 12,615,672	\$ -	\$ 12,615,672		\$ -	\$ 32,786,458	\$ -	\$ -	Schedule 9 Charges
KPP	AG1-2007-054	1222904	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
KPP	AG1-2007-055	1222932	\$ 9,800,628	\$ 1,700,628	\$ 8,100,000		\$ -	\$ 34,172,491	\$ 5,929,691	\$ -	\$ 5,929,691
KPP	AG1-2007-056	1222937	\$ 462,166	\$ -	\$ 462,166		\$ -	\$ 1,495,343	\$ -	\$ -	Schedule 9 Charges
KPP	AG1-2007-058	1222955	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
KPP	AG1-2007-064	1223078	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
SPRM	AG1-2007-042	1220082	\$ 2,581,392	\$ -	\$ 2,581,392		\$ -	\$ 12,945,890	\$ -	\$ -	Schedule 9 Charges
UCU	AG1-2007-025D	1214263	\$ 52,317	\$ -	\$ 52,317		\$ -	\$ 114,698	\$ -	\$ 90,480	\$ 90,480
UCU	AG1-2007-023D	1214269	\$ 49,025	\$ -	\$ 49,025		\$ -	\$ 111,599	\$ -	\$ 105,600	\$ 105,600
UCU	AG1-2007-060D	1223092	\$ 4,152,046	\$ -	\$ 4,152,046	2	Indeterminate	\$ 13,910,573	\$ -	\$ 28,998,000	\$ 28,998,000
UCU	AG1-2007-060D	1223093	\$ 4,152,046	\$ -	\$ 4,152,046	2	Indeterminate	\$ 13,910,573	\$ -	\$ 28,998,000	\$ 28,998,000
UCU	AG1-2007-060D	1223094	\$ 4,152,046	\$ -	\$ 4,152,046	2	Indeterminate	\$ 13,910,573	\$ -	\$ 28,998,000	\$ 28,998,000
UCU	AG1-2007-060D	1223095	\$ 4,152,046	\$ -	\$ 4,152,046	2	Indeterminate	\$ 13,910,573	\$ -	\$ 28,998,000	\$ 28,998,000
UCU	AG1-2007-092	1223102	\$ 19,437,234	\$ 401,985	\$ -	11	Indeterminate	\$ 49,734,809	\$ 49,174,514	\$ -	\$ 49,174,514
WFEC	AG1-2007-014	1217632	\$ 50,000	\$ -	\$ 50,000		Indeterminate	\$ 155,461	\$ -	\$ -	Schedule 9 Charges
WRGS	AG1-2007-001D	1197077	\$ 2,510,990	\$ -	\$ 2,510,990		\$ -	\$ 6,314,990	\$ -	\$ -	Schedule 9 Charges
WRGS	AG1-2007-047D	1222005	\$ 1,864,607	\$ 1,864,607	\$ -	12	\$ -	\$ 4,131,638	\$ 4,131,638	\$ 3,434,400	\$ 4,131,638
Totals			\$ 80,342,253					\$ 241,568,643	\$ 96,918,558		

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

<p>Note 1: Letter of Credit required for financial security for transmission owner for network upgrades is determined by direct assigned engineering and construction costs less engineering and construction costs for upgrades when network customer is the transmission owner less the E & C of expedited projects. A letter of credit is not required for those upgrades which are base plan funded or paid out of PTP base rate. The LOC amount listed is based on a designated resource meeting OATT Attachments J requirements for base plan funding.</p>
<p>Note 2: If potential base plan funding is applicable, this value is the lesser of the Engineering and Construction costs of assignable upgrades or the value of base plan funding calculated pursuant to Attachment J, Section III B criteria. Allocation of base plan funding is contingent upon verification of customer agreements meeting Attachment J, Section II B criteria. Not applicable if PTP base rate exceeds revenue requirements.</p>
<p>Note 3: Revenue Requirements (RR) are based upon deferred end dates if applicable. Deferred dates are based upon customer's choice to pursue redispatch. Achievable Base Plan Avoided RR in the case of a Base Plan upgrade being displaced or deferred by an earlier in service date for a Requested Upgrade shall be determined per Attachment J, Section VII.C methodology. Assumption of a 40 year service life is utilized for Base Plan funded projects. A present worth analysis of RR on a common year basis between the Base Plan and Requested Upgrades was performed to determine avoided Base Plan RR due to the displacement or deferral of the Base Plan upgrade by the Requested Upgrade. The incremental increase in present worth of a Requested Upgrade on a common year basis as a Base Plan upgrade is assigned to the transmission requests impacting the upgrade based on the displacement or deferral.</p>
<p>Note 4: For PTP 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 required will be determined at the conclusion of the study based on final MW impact allocation. Credits can be paid from base plan funding or PTP base rate if applicable.</p>
<p>Note 5: E & C allocation for determination of allocated revenue requirements DOES include those upgrades estimated at \$100,000 or less. If these upgrades are for a designated resource, they will be base plan funded if not paid by PTP base rate. Also E & C allocation for expedited projects is not included in this total but utilized for RR to expedite the required in- service date. Thus this number sets the cap for base plan funding allowable for remaining assigned upgrades</p>
<p>Note 6: Midwest has 308MW of load with up to 385MW total resource cap for base plan funding in 2007 (not applicable on this study)</p>
<p>Note 7: Midwest has 317MW of load with up to 397MW total resource cap for base plan funding in 2013 (Not applicable on this study)</p>
<p>Note 8: Midwest has 315MW of load with up to 394MW total resource cap for base plan funding in 2012 (Not applicable in this study)</p>
<p>Note 9: RR with base plan funding may increase or decrease even if no base plan funding is applicable to a particular request if another request that shares the upgrade is now full base plan funded resulting in a different amortization period for the upgrade and thus different RR.</p>
<p>Note 10: Resource ratio exceeds 125% load criteria for base plan funding. (Note not applicable in this restudy)</p>
<p>Note 11: 2550 MW resource cap for 2010.</p>
<p>Note 12: Sinks outside SPP thus no base funding.</p>

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

Customer Study Number
EDE AG1-2007-051

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
EDE	1222640	WPEK	EDE	100	11/1/2008	11/1/2028	6/1/2010	6/1/2030	\$ 1,800,000	\$ -	\$ 5,931,858	\$ 20,322,193
									\$ 1,800,000	\$ -	\$ 5,931,858	\$ 20,322,193

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1222640	5LEAD HL - 161.00 - BULL SHOALS 161KV CKT 1 SWPA	6/1/2017	6/1/2012			\$ -	\$ -	\$ -
	ALLEN 69KV Capacitor	12/1/2007	6/1/2010			\$ 870	\$ 500,000	\$ 3,031
	ATHENS 69KV Capacitor	12/1/2007	6/1/2010			\$ 870	\$ 500,000	\$ 3,031
	BROOKLINE - SUMMIT 345 kv CKT 1 Displacement	6/1/2012	6/1/2012			\$ 290,798	\$ 1,673,339	\$ 838,518
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No	\$ 702,799	\$ 3,000,000	\$ 3,076,636
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 702,799	\$ 3,000,000	\$ 2,619,221
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No	\$ 819,932	\$ 3,500,000	\$ 3,519,250
	JOPLIN 59 - SUB 439 - STATELINE 161KV CKT 1 Displacement	6/1/2009	6/1/2009			\$ 169,001	\$ 779,405	\$ 605,887
	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST. 161/69kv TRANSFORMER CKT 1 Displacement	6/1/2009	6/1/2009			\$ 208,436	\$ 961,276	\$ 747,265
	PLATTE CITY - SMITHVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 14,955	\$ 100,000	\$ 43,870
	SUB 170 - NICHOLS ST. - SUB 80 - MARSHFIELD JCT. 69KV CKT 1	6/1/2012	6/1/2012			\$ 3,000,000	\$ 3,000,000	\$ 8,786,281
	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1 Displacement	12/1/2008	12/1/2008			\$ 20,528	\$ 20,682	\$ 76,173
	TIOGA 69KV Capacitor	12/1/2007	6/1/2010			\$ 870	\$ 500,000	\$ 3,031
Total						\$ 5,931,858	\$ 17,534,702	\$ 20,322,193

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1222640	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	Yes
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	BULL SHOALS - BULL SHOALS 161KV CKT 1	6/1/2009	6/1/2009		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	12/1/2007	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	12/1/2007	6/1/2010		No
	COX 69KV CAPACITOR	6/1/2017	6/1/2017		
	East Centerton - Flint Creek 345 kv	6/1/2014	6/1/2014		
	EAST MANHATTAN 115KV Capacitor	6/1/2017	6/1/2017		
	East Manhattan to McDowell 230 kv	6/1/2014	6/1/2014		
	GOLDEN 69KV CAPACITOR	6/1/2017	6/1/2017		
	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 EMDE	6/1/2012	6/1/2012		
	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST 161/69kv TRANSFORMER CKT 1	6/1/2017	6/1/2017		
	MAIN 161KV CAPACITOR	6/1/2017	6/1/2017		
	MILL 161KV CAPACITOR	6/1/2017	6/1/2017		
	NIXA 161KV CAP BANK	6/1/2017	6/1/2017		
	NORTON 161KV CAPACITOR	6/1/2017	6/1/2017		
	SUB 124 - AURORA H.T. - SUB 152 - MONETT H.T. 69KV CKT 1	6/1/2009	6/1/2009		
	SUB 124 - AURORA H.T. 161KV	6/1/2009	6/1/2009		
	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	6/1/2012	6/1/2012		
	SUB 167 - RIVERTON - SUB 278 - GALENA NORTHEAST 69KV CKT 1	6/1/2009	6/1/2009		
	SUB 382 - LARUSSEL - SUB 383 - MONETT 161KV CKT 1	6/1/2017	6/1/2017		
	SUB 383 - MONETT (MONETT) 161/69/12.5KV TRANSFORMER CKT 1	6/1/2017	6/1/2017		
	SUB 438 - RIVERSIDE 161KV	6/1/2012	6/1/2012		
	SUNSET 69KV CAPACITOR	6/1/2017	6/1/2017		
	SW Manhattan 230/115 kv	6/1/2016	6/1/2016		
	West Gardner 345 kv Tap on Stillwell-Swissvale 345 kv, 50 Additional MVAR	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	COD	EOC	Earliest Service Date	Redispatch Available
1222640	SUB 110 - ORONOJO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		

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

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1222640	5BEE BR - QUITMAN 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	5CLINTN - CLINTON WEST (AECC) 161KV CKT 1	12/1/2012	12/1/2012			\$ -	\$ -
	5FLIPN - BULL SHOALS HES 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	5HILLTOP 161.00 - 5ST_JOE 161.00 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	5LEAD_HL 161.00 - BULL SHOALS 161KV CKT 1 ENTR	6/1/2017	6/1/2017			\$ -	\$ -
	5ST_JOE 161.00 - EVERTON 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	CLINTON - OSCEOLA 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	HARRISON-EAST - SUMMIT 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	HUBEN (HUBEN) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	JAMESVILLE - NIXA #1 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 AECl	6/1/2012	6/1/2012			\$ -	\$ -
	NIXA #1 - SPRINGFIELD 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number
 INDP AG1-2007-045

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
INDP	1221966	OPPD	INDN	6	6/1/2009	6/1/2034	6/1/2010	6/1/2035	\$ -	\$ 1,584,000	\$ 538,597	\$ 1,884,319
									\$ -	\$ 1,584,000	\$ 538,597	\$ 1,884,319

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1221966	COOK - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012			\$ 27,675	\$ 6,466,087	\$ 104,636
	COOK - ST JOE 161KV CKT 1	6/1/2009	10/1/2009			\$ 16,870	\$ 4,400,000	\$ 66,722
	CRAIG - LENEXA NORTH 161KV CKT 1	6/1/2017	6/1/2017			\$ 35,421	\$ 1,593,000	\$ 106,780
	CRAIG - PFLUMM 161KV CKT 1	6/1/2017	6/1/2017			\$ 318,914	\$ 2,862,000	\$ 961,400
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010			\$ 36,255	\$ 3,000,000	\$ 184,761
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 36,255	\$ 3,000,000	\$ 157,292
	EAST - INDUSTRIAL PARK 161KV CKT 1	6/1/2012	6/1/2012			\$ 4,375	\$ 1,000,000	\$ 14,468
	EAST - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 7,137	\$ 2,448,696	\$ 23,603
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010			\$ 42,298	\$ 3,500,000	\$ 211,344
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2010			\$ 5,215	\$ 1,500,000	\$ 26,057
	PLATTE CITY - SMITHVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 1,924	\$ 100,000	\$ 6,559
	ST JOE - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 6,258	\$ 2,276,522	\$ 20,696
Total						\$ 538,597	\$ 32,146,305	\$ 1,884,319

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1221966	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012		
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		
	HAWTHORN 161/69KV TRANSFORMER CKT 11	6/1/2017	6/1/2017		
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		
	REDEL - STILWELL 161KV CKT 1	6/1/2008	6/1/2010		
	West Gardner 345 kV Tap on Stillwell-Swissvale 345 kV, 50 Additional MVAR	6/1/2012	6/1/2012		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1221966	JOHNSTON - PLATTE CITY 69KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	SUBSTATION M 161/69KV TRANSFORMER CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number
KBPU AG1-2007-043D

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
KBPU	1221923	SPA	KACY	39	7/1/2010	7/1/2020			\$ -	\$ 4,118,400	\$ 4,012,344	\$ 7,880,863
									\$ -	\$ 4,118,400	\$ 4,012,344	\$ 7,880,863

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1221923	5LEAD HL - 161.00 - BULL SHOALS 161KV CKT 1 SWPA	6/1/2017	6/1/2012			\$ -	\$ -	\$ -
	COOK - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012			\$ 99,992	\$ 6,466,087	\$ 232,779
	COOK - ST JOE 161KV CKT 1	6/1/2009	10/1/2009			\$ 60,951	\$ 4,400,000	\$ 148,429
	CRAIG - LENEXA NORTH 161KV CKT 1	6/1/2017	6/1/2017			\$ 926,871	\$ 1,593,000	\$ 1,709,359
	CRAIG - PFLUMM 161KV CKT 1	6/1/2017	6/1/2017			\$ 1,230,180	\$ 2,862,000	\$ 2,268,730
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010			\$ 160,908	\$ 3,000,000	\$ 501,654
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 160,908	\$ 3,000,000	\$ 427,071
	EAST - INDUSTRIAL PARK 161KV CKT 1	6/1/2012	6/1/2012			\$ 15,809	\$ 1,000,000	\$ 32,190
	EAST - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 25,792	\$ 2,448,696	\$ 52,520
	HALLMARK - RITCHFIELD 161KV CKT 1	6/1/2017	6/1/2017			\$ 68,183	\$ 100,000	\$ 63,917
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010			\$ 187,726	\$ 3,500,000	\$ 573,823
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2010			\$ 27,361	\$ 1,500,000	\$ 83,635
	MIDLAND JUNCTION - PENTAGON 115KV CKT 1	6/1/2017	6/1/2017			\$ 1,002,537	\$ 2,000,000	\$ 1,694,343
	PLATTE CITY - SMITHVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 8,386	\$ 100,000	\$ 17,602
	SEDALIA - SEDALIA SUB 161.00 161KV CKT 1	6/1/2012	6/1/2012			\$ 14,127	\$ 3,500,000	\$ 28,765
	ST JOE - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 22,613	\$ 2,276,522	\$ 46,047
					Total	\$ 4,012,344	\$ 37,746,305	\$ 7,880,863

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1221923	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012		
	ANTIOCH - OXFORD 161KV CKT 1	6/1/2008	6/1/2010		
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2008	6/1/2010		
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2010		
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	BULL SHOALS - BULL SHOALS 161KV CKT 1	6/1/2009	6/1/2009		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2010		
	REDEL - STILWELL 161KV CKT 1	6/1/2008	6/1/2010		
	RITCHFIELD - SIBLEY 161KV CKT 1	6/1/2017	6/1/2017		
	SUB 124 - AURORA H.T. 161KV	6/1/2009	6/1/2009		
	SUB 438 - RIVERSIDE 161KV	6/1/2012	6/1/2012		
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		
	West Gardner 345 kV Tap on Stilwell-Swissvale 345 kV, 50 Additional MVAR	6/1/2012	6/1/2012		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1221923	5LEAD HL - 161.00 - BULL SHOALS 161KV CKT 1 ENTR	6/1/2017	6/1/2017			\$ -	\$ -
					Total	\$ -	\$ -

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

Customer Study Number
KBPU AG1-2007-044D

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
KBPU	1221925	WR	KACY	25	1/1/2008	1/1/2028	6/1/2010	6/1/2030	\$ -	\$ 5,280,000	\$ 8,070,182	\$ 13,871,373
									\$ -	\$ 5,280,000	\$ 8,070,182	\$ 13,871,373

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1221925	COOK - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012			\$ 66,501	\$ 6,466,087	\$ 216,359
	COOK - ST JOE 161KV CKT 1	6/1/2009	10/1/2009			\$ 40,536	\$ 4,400,000	\$ 137,958
	CRAIG - LENEXA NORTH 161KV CKT 1	6/1/2017	6/1/2017			\$ 630,708	\$ 1,593,000	\$ 1,633,282
	CRAIG - PFLUMM 161KV CKT 1	6/1/2017	6/1/2017			\$ 1,312,907	\$ 2,862,000	\$ 3,399,905
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010			\$ 212,033	\$ 3,000,000	\$ 928,215
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 212,033	\$ 3,000,000	\$ 790,214
	EAST - INDUSTRIAL PARK 161KV CKT 1	6/1/2012	6/1/2012			\$ 10,515	\$ 1,000,000	\$ 29,922
	EAST - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 17,155	\$ 2,448,696	\$ 48,820
	HALLMARK - RITCHFIELD 161KV CKT 1	6/1/2017	6/1/2017			\$ 31,817	\$ 100,000	\$ 41,684
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010			\$ 247,372	\$ 3,500,000	\$ 1,061,751
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2010			\$ 23,396	\$ 1,500,000	\$ 100,419
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1 Expedite	6/1/2009	6/1/2010			\$ 4,244,500	\$ 4,244,500	\$ 3,157,414
	MIDLAND JUNCTION - PENTAGON 115KV CKT 1	6/1/2017	6/1/2017			\$ 997,463	\$ 2,000,000	\$ 2,258,558
	PLATTE CITY - SMITHVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 8,205	\$ 100,000	\$ 24,069
	ST JOE - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 15,041	\$ 2,276,522	\$ 42,804
Total						\$ 8,070,182	\$ 38,490,805	\$ 13,871,373

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1221925	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012		
	ANTIOCH - OXFORD 161KV CKT 1	6/1/2008	6/1/2010		
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2010		
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	REDEL - STILWELL 161KV CKT 1	6/1/2008	6/1/2010		
	RITCHFIELD - SIBLEY 161KV CKT 1	6/1/2017	6/1/2017		
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2017	6/1/2017		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2010		
	Summit - NE Saline 115 kv	12/1/2007	6/1/2010		
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		
	West Gardner 345 kv Tap on Stillwell-Swissvale 345 kv, 50 Additional MVAR	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	COD	EOC	Earliest Service Date	Redispatch Available
1221925	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2008	6/1/2009	10/1/2008	
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2008	6/1/2009	10/1/2008	
	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	6/1/2008	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 AG1-2007-080

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	1223159	KCPL	EES	52	6/1/2007	6/1/2012	6/1/2010	6/1/2015	\$ -	\$ 2,808,000	\$ -	\$ -
									\$ -	\$ 2,808,000	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1223159	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	COD	EOC	Earliest Service Date	Redispatch Available
1223159	AVONDALE - GLADSTONE 161KV CKT 1	6/1/2012	6/1/2012		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		Yes
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		Yes
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2010		No
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1223159	HUGO POWER PLANT - VALLIANT 345 KV AEPW	5/1/2010	5/1/2010		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	5/1/2010	5/1/2010		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1223159	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1223159	OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	12/1/2008	12/1/2008			\$ -	\$ -
						Total	\$ -

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

Customer Study Number
 KCPS AG1-2007-081

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	1223161	KCPL	SPA	15	1/1/2008	1/1/2009	6/1/2009	6/1/2010	\$ -	\$ 162,000	\$ -	\$ -
									\$ -	\$ 162,000	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1223161	KENNETT (KEN X2) 161/69/13.8KV TRANSFORMER CKT 1	12/1/2007	12/1/2007			\$ -	\$ -	\$ -
						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	COD	EOC	Earliest Service Date	Redispatch Available
1223161	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		No
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		No
	REDEL - STILWELL 161KV CKT 1	6/1/2008	6/1/2010		No
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1223161	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1223161	JONESBORO - JONESBORO NORTH (AECC) 161KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	JONESBORO NORTH (AECC) - PARAGOULD SOUTH (AECC) 161KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	12/1/2008	12/1/2008			\$ -	\$ -
						Total	\$ -

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

Customer Study Number
KMEA AG1-2007-007

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	1218859	GRDA	WR	1	5/1/2010	5/1/2026	6/1/2010	6/1/2026	\$ 1,557	\$ 289,536	\$ 1,557	\$ 4,228
									\$ 1,557	\$ 289,536	\$ 1,557	\$ 4,228

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1218859	ALLEN 69KV Capacitor	12/1/2007	6/1/2010			\$ 85	\$ 500,000	\$ 264
	ATHENS 69KV Capacitor	12/1/2007	6/1/2010			\$ 85	\$ 500,000	\$ 264
	BROOKLINE - SUMMIT 345 kV CKT 1 Displacement	6/1/2012	6/1/2012			\$ 1,148	\$ 1,673,339	\$ 2,934
	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1 Displacement	12/1/2008	12/1/2008			\$ 154	\$ 20,682	\$ 502
	TIOGA 69KV Capacitor	12/1/2007	6/1/2010			\$ 85	\$ 500,000	\$ 264
Total						\$ 1,557	\$ 3,194,020	\$ 4,228

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1218859	412SUB - KANSAS TAP 161KV CKT 1	6/1/2012	6/1/2012		
	412SUB - KERR 161KV CKT 1	6/1/2012	6/1/2012		
	ANTIUCH - OXFORD 161KV CKT 1	6/1/2008	6/1/2010		
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2008	6/1/2010		
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2010		
	COX 69KV CAPACITOR	6/1/2017	6/1/2017		
	East Centeron - Flint Creek 345 kV	6/1/2014	6/1/2014		
	GOLDEN 69KV CAPACITOR	6/1/2017	6/1/2017		
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2010	6/1/2010		
	KERR - PENSACOLA 115KV CKT 1	12/1/2012	12/1/2012		
	MAIN 161KV CAPACITOR	6/1/2017	6/1/2017		
	NIXA 161KV CAP BANK	6/1/2017	6/1/2017		
	NORTON 161KV CAPACITOR	6/1/2017	6/1/2017		
	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2012	6/1/2012		
	SUB 124 - AURORA H.T. 161KV	6/1/2009	6/1/2009		
	SUB 438 - RIVERSIDE 161KV	6/1/2012	6/1/2012		
	SUNSET 69KV CAPACITOR	6/1/2017	6/1/2017		
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1218859	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1218859	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2008	6/1/2010		
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2008	6/1/2010		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1218859	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1218859	SARATOGA - SOUTHWEST CITY 69KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number
KPP AG1-2007-052

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
KPP	1222644	WR	WR	333	6/1/2007	6/1/2017	6/1/2010	6/1/2020	\$ 12,615,672	-	\$ 12,615,672	\$ 32,786,458
									\$ 12,615,672	\$ -	\$ 12,615,672	\$ 32,786,458

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1222644	ALLEN - LEHIGH TAP 69KV CKT 1	6/1/2008	6/1/2010			\$ 1,627,606	\$ 2,000,000	\$ 4,218,926
	ALLEN 69KV Capacitor	12/1/2007	6/1/2010			\$ 404,593	\$ 500,000	\$ 1,045,688
	ASH GROVE JCT2 - TIOGA 69KV CKT 1	6/1/2010	6/1/2010			\$ 631,319	\$ 767,000	\$ 1,631,671
	ATHENS 69KV Capacitor	12/1/2007	6/1/2010			\$ 404,593	\$ 500,000	\$ 1,045,688
	Athens to Owl Creek 69 kV	6/1/2008	6/1/2010			\$ 888,640	\$ 1,055,000	\$ 2,296,728
	CHANUTE TAP - TIOGA 69KV CKT 1	6/1/2010	6/1/2010			\$ 82,001	\$ 100,000	\$ 211,935
	CITY OF IOLA - UNITED NO. 9 CONGER 69KV CKT 1	6/1/2008	6/1/2010			\$ 1,193,612	\$ 1,440,000	\$ 3,084,941
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010			\$ 98,571	\$ 3,000,000	\$ 305,091
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 98,571	\$ 3,000,000	\$ 259,732
	Green to Vernon 69 kV	6/1/2008	6/1/2010			\$ 2,191,634	\$ 2,589,000	\$ 5,664,371
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010			\$ 114,999	\$ 3,500,000	\$ 348,981
	LEHIGH TAP - OWL CREEK 69KV CKT 1	6/1/2008	6/1/2010			\$ 2,442,706	\$ 2,900,000	\$ 6,331,752
	LEHIGH TAP - UNITED NO. 9 CONGER 69KV CKT 1	6/1/2008	6/1/2010			\$ 256,958	\$ 310,000	\$ 666,062
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2009	6/1/2009			\$ 199,060	\$ 250,000	\$ 555,407
	TIOGA 69KV Capacitor	12/1/2007	6/1/2010			\$ 404,593	\$ 500,000	\$ 1,045,688
	Vernon to Athens 69 kV	6/1/2008	6/1/2010			\$ 1,576,216	\$ 1,862,000	\$ 4,073,797
Total						\$ 12,615,672	\$ 24,273,000	\$ 32,786,458

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1222644	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2008	6/1/2010		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2010		
	Fort Scott - SW Bourbon 161 kV	6/1/2010	6/1/2010		
	OXFORD 138KV Capacitor	6/1/2008	6/1/2010		
	ROSE HILL JUNCTION - WEAVER 69KV CKT 1	6/1/2008	6/1/2010		
	West Gardner 345 kV Tap on Stillwell-Swissvale 345 kV, 50 Additional MVAR	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	COD	EOC	Earliest Service Date	Redispatch Available
1222644	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2008	6/1/2010		
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2008	6/1/2010		

*Reservation 1222644 and 1222955 were studied as one request

**A Transmission Operating Directive will need to be developed to document the minimum allowable generation per season in order maintain system reliability and evaluation of short term transmission service requests.

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

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

Customer Study Number
KPP AG1-2007-054

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	1222904	WPEK	WPEK	3	6/1/2007	6/1/2017			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1222904	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -

*Reservation 1223078 and 1222904 were studied as one request

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

Customer Study Number
KPP AG1-2007-055

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KPP	1222932	WR	WR	45	6/1/2007	6/1/2027	6/1/2010	6/1/2030	\$ 8,100,000	-	\$ 9,800,628	\$ 34,172,491
									\$ 8,100,000	\$ -	\$ 9,800,628	\$ 34,172,491

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1222932	ALLEN - LEHIGH TAP 69KV CKT 1	6/1/2008	6/1/2010		Yes	\$ 372,394	\$ 2,000,000	\$ 1,301,004
	ALLEN 69KV Capacitor	12/1/2007	6/1/2010		No	\$ 92,487	\$ 500,000	\$ 322,172
	ARKANSAS CITY - PARIS 69KV CKT 1 #1 Displacement	6/1/2008	6/1/2010		Yes	\$ 12,940	\$ 12,940	\$ 45,920
	ASH GROVE JCT2 - TIOGA 69KV CKT 1	6/1/2010	6/1/2010			\$ 135,681	\$ 767,000	\$ 472,635
	ATHENS 69KV Capacitor	12/1/2007	6/1/2010		No	\$ 92,487	\$ 500,000	\$ 322,172
	Athens to Owl Creek 69 kV	6/1/2008	6/1/2010		Yes	\$ 156,509	\$ 1,055,000	\$ 545,188
	CHANUTE TAP - TIOGA 69KV CKT 1	6/1/2010	6/1/2010			\$ 17,999	\$ 100,000	\$ 62,698
	CITY OF IOLA - UNITED NO. 9 CONGER 69KV CKT 1	6/1/2008	6/1/2010		Yes	\$ 246,388	\$ 1,440,000	\$ 858,275
	CITY OF WINFIELD - RAINBOW 69KV CKT 1	6/1/2008	6/1/2010		Yes	\$ 1,560,000	\$ 1,560,000	\$ 5,492,327
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No	\$ 262,658	\$ 3,000,000	\$ 1,106,058
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 262,658	\$ 3,000,000	\$ 941,617
	CRESWELL - OAK 69KV CKT 1 #1 Displacement	6/1/2008	6/1/2010		Yes	\$ 43,528	\$ 43,528	\$ 153,250
	CRESWELL - OAK 69KV CKT 1 #2 Displacement	6/1/2008	6/1/2010		Yes	\$ 348,221	\$ 348,221	\$ 1,213,003
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #2	6/1/2012	6/1/2012			\$ 1,592,810	\$ 3,050,000	\$ 4,929,168
	Green to Vernon 69 kV	6/1/2008	6/1/2010		Yes	\$ 381,922	\$ 2,589,000	\$ 1,330,398
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No	\$ 294,768	\$ 3,500,000	\$ 1,265,181
	HOOVER NORTH - LAKERIDGE 138KV CKT 1	6/1/2012	6/1/2012			\$ 104,447	\$ 200,000	\$ 323,225
	LEHIGH TAP - OWL CREEK 69KV CKT 1	6/1/2008	6/1/2010		Yes	\$ 430,214	\$ 2,900,000	\$ 1,503,005
	LEHIGH TAP - UNITED NO. 9 CONGER 69KV CKT 1	6/1/2008	6/1/2010		Yes	\$ 53,042	\$ 310,000	\$ 185,309
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2009	6/1/2009			\$ 50,591	\$ 250,000	\$ 190,250
	OAK - RAINBOW 69KV CKT 1	6/1/2008	6/1/2010		Yes	\$ 1,800,000	\$ 1,800,000	\$ 6,335,655
	RAINBOW 69KV Capacitor	12/1/2007	6/1/2010		No	\$ 325,000	\$ 325,000	\$ 1,132,115
	RICHLAND - ROSE HILL JUNCTION 69KV CKT 1 Displacement	4/1/2008	6/1/2010			\$ 491,720	\$ 491,720	\$ 1,730,760
	ROSE HILL 69KV Capacitor	6/1/2008	6/1/2010		No	\$ 325,000	\$ 325,000	\$ 1,132,115
	TIOGA 69KV Capacitor	12/1/2007	6/1/2010		No	\$ 92,487	\$ 500,000	\$ 322,172
	Vernon to Athens 69 kV	6/1/2008	6/1/2010		Yes	\$ 274,677	\$ 1,862,000	\$ 956,818
					Total	\$ 9,800,628	\$ 32,429,409	\$ 34,172,491

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

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1222932	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	Yes
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2008	6/1/2010		No
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	12/1/2007	6/1/2010		Yes
	CHASE - WHITE JUNCTION 69KV CKT 1	6/1/2008	6/1/2010		Yes
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2012	6/1/2012		
	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	CLAY CENTER - GREENLEAF 115KV CKT 1	12/1/2007	6/1/2010		Yes
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2010		No
	EAST MANHATTAN 115KV Capacitor	6/1/2017	6/1/2017		
	East Manhattan to Mcdowell 230 kV	6/1/2014	6/1/2014		
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1	6/1/2012	6/1/2012		
	FORT JUNCTION SWITCHING STATION - MCDOWELL CREEK SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2010		Yes
	Fort Scott - SW Bourbon 161 kV	6/1/2010	6/1/2010		
	OXFORD 138KV Capacitor	6/1/2008	6/1/2010		No
	ROSE HILL JUNCTION - WEAVER 69KV CKT 1	6/1/2008	6/1/2010		Yes
	Summit - NE Saline 115 kV	12/1/2007	6/1/2010		Yes
	SW Manhattan 230/115 kV	6/1/2016	6/1/2016		
	WEST MCPHERSON - WHEATLAND 115KV CKT 1	6/1/2008	6/1/2010		No
	West Gardner 345 kV Tap on Stillwell-Swissvale 345 kV, 50 Additional MVAR	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	COD	EOC	Earliest Service Date	Redispatch Available
1222932	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	4/1/2008	6/1/2008		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2008	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2008	6/1/2010		Yes
	RENO - SUMMIT 345KV	4/1/2008	6/1/2009		Yes
	WICHITA - RENO 345KV	12/1/2007	6/1/2009		Yes

**A Transmission Operating Directive will need to be developed to document the minimum allowable generation per season in order maintain system reliability and evaluation of short term transmission service requests.
 ***34.5 kV System Impacts and Upgrades have yet to be determined.

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

Customer Study Number
KPP AG1-2007-056

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	1222937	WR	WPEK	5	6/1/2007	6/1/2027	6/1/2010	6/1/2030	\$ 462,166	-	\$ 462,166	\$ 1,495,343
									\$ 462,166	\$ -	\$ 462,166	\$ 1,495,343

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1222937	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No	\$ 19,656	\$ 3,000,000	\$ 86,048
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 19,656	\$ 3,000,000	\$ 73,255
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #2	6/1/2012	6/1/2012			\$ 375,311	\$ 3,050,000	\$ 1,161,451
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No	\$ 22,932	\$ 3,500,000	\$ 98,427
	HOOVER NORTH - LAKERIDGE 138KV CKT 1	6/1/2012	6/1/2012			\$ 24,611	\$ 200,000	\$ 76,162
Total						\$ 462,166	\$ 12,750,000	\$ 1,495,343

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1222937	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	12/1/2007	6/1/2010		No
	CHASE - WHITE JUNCTION 69KV CKT 1	6/1/2008	6/1/2010		No
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2012	6/1/2012		
	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	CIRCLE - SANDHILL ARK VALLEY CO-OP D.P. JUNCTION 115 KV CKT 1	6/1/2012	6/1/2012		
	CLAY CENTER - GREENLEAF 115KV CKT 1	12/1/2007	6/1/2010		No
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1	6/1/2012	6/1/2012		
	HARPER 138KV Capacitor	6/1/2008	6/1/2010		No
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2017	6/1/2017		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2017	6/1/2017		
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2012	6/1/2012		
	Summit - NE Saline 115 kV	12/1/2007	6/1/2010		Yes
	West Gardner 345 kV Tap on Stillwell-Swissvale 345 kV, 50 Additional MVAR	6/1/2012	6/1/2012		
	WEST MCPHERSON - WHEATLAND 115KV CKT 1	6/1/2008	6/1/2010		No

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1222937	RENO - SUMMIT 345KV	4/1/2008	6/1/2009		Yes
	WICHITA - RENO 345KV	12/1/2007	6/1/2009		Yes

**A Transmission Operating Directive will need to be developed to document the minimum allowable generation per season in order maintain system reliability and evaluation of short term transmission service requests.

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

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

Customer Study Number
KPP AG1-2007-058

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	1222955	WR	WR	20	6/1/2007	6/1/2017			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1222955	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -

*Reservation 1222644 and 1222955 were studied as one request

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

Customer Study Number
KPP AG1-2007-064

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KPP	1223078	WPEK	WPEK	15	6/1/2007	6/1/2017			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1223078	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	COD	EOC	Earliest Service Date	Redispatch Available
1223078	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	12/1/2007	6/1/2010		
	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	CLAY CENTER - GREENLEAF 115KV CKT 1	12/1/2007	6/1/2010		

*Reservation 1223078 and 1222904 were studied as one request

**A Transmission Operating Directive will need to be developed to document the minimum allowable generation per season in order maintain system reliability and evaluation of short term transmission service requests.

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

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

Customer Study Number
 SPRM AG1-2007-042

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
SPRM	1220082	SPA	SPA	275	10/1/2010	10/1/2050			\$ 2,581,392	\$ -	\$ 2,581,392	\$ 12,945,890
									\$ 2,581,392	\$ -	\$ 2,581,392	\$ 12,945,890

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1220082	BROOKLINE - JUNCTION 161KV CKT 1	6/1/2011	6/1/2011			\$ 1,000,000	\$ 1,000,000	\$ 5,132,724
	BROOKLINE - SUMMIT 345 kv CKT 1 Displacement	6/1/2012	6/1/2012			\$ 1,381,392	\$ 1,673,339	\$ 6,753,997
	CLAY - SPRINGFIELD 161KV CKT 1 SPRM	12/1/2012	12/1/2012			\$ 200,000	\$ 200,000	\$ 1,059,168
	CLAY - SPRINGFIELD 161KV CKT 1 SWPA	12/1/2012	12/1/2012			\$ -	\$ -	\$ -
	Total					\$ 2,581,392	\$ 2,873,339	\$ 12,945,890

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1220082	GRAND - MAIN 69KV CKT 1	6/1/2017	6/1/2017		
	JAMES RIVER - SEMINOLE 69KV CKT 1	6/1/2017	6/1/2017		
	JAMES RIVER - TWIN OAKS 69KV CKT 1	6/1/2017	6/1/2017		
	KICKAPOO - SUNSET 69KV CKT 1	6/1/2017	6/1/2017		
	MAIN 161KV CAPACITOR	6/1/2017	6/1/2017		
	NEERGARD - NORTON 69KV CKT 1	6/1/2012	6/1/2012		
	NIXA - NIXA DT2 69,000 69KV CKT 1	6/1/2012	6/1/2012		
	NIXA (NXA X1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2012	6/1/2012		
	SUB 438 - RIVERSIDE 161KV	6/1/2012	6/1/2012		
	SUNSET 69KV CAPACITOR	6/1/2017	6/1/2017		

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

Customer Study Number
UCU AG1-2007-023D

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
UCU	1214269	MPS	KCPL	2	6/1/2007	6/1/2012	6/1/2010	6/1/2015	\$ 49,025	\$ 105,600	\$ 49,025	\$ 111,599
									\$ 49,025	\$ 105,600	\$ 49,025	\$ 111,599

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
1214269	ALLEN 69KV Capacitor	12/1/2007	6/1/2010		No	\$ 836	\$ 500,000	\$ 1,832	
	ATHENS 69KV Capacitor	12/1/2007	6/1/2010		No	\$ 836	\$ 500,000	\$ 1,832	
	Athens to Owl Creek 69 kV	6/1/2008	6/1/2010			\$ 4,232	\$ 1,055,000	\$ 9,272	
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010			\$ 6,054	\$ 3,000,000	\$ 15,396	
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 6,054	\$ 3,000,000	\$ 13,107	
	Green to Vernon 69 kV	6/1/2008	6/1/2010			\$ 6,678	\$ 2,589,000	\$ 14,632	
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010			\$ 7,063	\$ 3,500,000	\$ 17,611	
	LEHIGH TAP - OWL CREEK 69KV CKT 1	6/1/2008	6/1/2010			\$ 11,634	\$ 2,900,000	\$ 25,565	
	TIOGA 69KV Capacitor	12/1/2007	6/1/2010		No	\$ 836	\$ 500,000	\$ 1,832	
	Vernon to Athens 69 kV	6/1/2008	6/1/2010			\$ 4,802	\$ 1,862,000	\$ 10,521	
						Total	\$ 49,025	\$ 19,406,000	\$ 111,599

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1214269	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2010		Yes
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	East Centerton - Flint Creek 345 kV	6/1/2014	6/1/2014		
	Fort Scott - SW Bourbon 161 kV	6/1/2010	6/1/2010		
	Freeman to Harrisonville West 69 kV	6/1/2008	6/1/2008		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		Yes
	MIDWAY - ST JOE 161KV CKT 1	12/1/2012	6/1/2012		
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		Yes
	West Gardner 345 kV Tap on Stillwell-Swissvale 345 kV, 50 Additional MVAR	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
UCU AG1-2007-025D

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
UCU	1214263	MPS	WR	1	6/1/2007	6/1/2012	6/1/2010	6/1/2015	\$ 52,317	\$ 90,480	\$ 52,317	\$ 114,698
									\$ 52,317	\$ 90,480	\$ 52,317	\$ 114,698

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1214263	ALLEN 69KV Capacitor	12/1/2007	6/1/2010		No	\$ 1,130	\$ 500,000	\$ 2,476
	ATHENS 69KV Capacitor	12/1/2007	6/1/2010		No	\$ 1,130	\$ 500,000	\$ 2,476
	Athens to Owl Creek 69 kv	6/1/2008	6/1/2010			\$ 5,619	\$ 1,055,000	\$ 12,311
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010			\$ 1,117	\$ 3,000,000	\$ 2,841
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 1,117	\$ 3,000,000	\$ 2,418
	Green to Vernon 69 kv	6/1/2008	6/1/2010			\$ 8,767	\$ 2,589,000	\$ 19,209
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010			\$ 1,303	\$ 3,500,000	\$ 3,249
	JOPLIN 59 - SUB 439 - STATELINE 161KV CKT 1 Displacement	6/1/2009	6/1/2009			\$ 3,987	\$ 779,405	\$ 8,356
	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST. 161/69kv TRANSFORMER CKT 1 Displacement	6/1/2009	6/1/2009			\$ 4,917	\$ 961,276	\$ 10,305
	LEHIGH TAP - OWL CREEK 69KV CKT 1	6/1/2008	6/1/2010			\$ 15,446	\$ 2,900,000	\$ 33,941
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2009	6/1/2009			\$ 349	\$ 250,000	\$ 825
	TIOGA 69KV Capacitor	12/1/2007	6/1/2010		No	\$ 1,130	\$ 500,000	\$ 2,476
	Vernon to Athens 69 kv	6/1/2008	6/1/2010			\$ 6,305	\$ 1,862,000	\$ 13,814
Total						\$ 52,317	\$ 21,396,681	\$ 114,698

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1214263	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2008	6/1/2010		Yes
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2010		Yes
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2010		No
	East Centerton - Flint Creek 345 kv	6/1/2014	6/1/2014		
	Fort Scott - SW Bourbon 161 kv	6/1/2010	6/1/2010		
	Freeman to Harrisonville West 69 kv	6/1/2008	6/1/2008		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		Yes
	MIDWAY - ST JOE 161KV CKT 1	12/1/2012	6/1/2012		
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		Yes
	SUB 124 - AURORA H.T. 161KV	6/1/2009	6/1/2009		
	SUB 438 - RIVERSIDE 161KV	6/1/2012	6/1/2012		
	West Gardner 345 kv Tap on Stillwell-Swissvale 345 kv, 50 Additional MVAR	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	COD	EOC	Earliest Service Date	Redispatch Available
1214263	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1214263	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2008	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2008	6/1/2010		Yes

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

Customer Study Number
UCU AG1-2007-060D

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
UCU	1223092	EES	MPS	75	3/1/2009	3/1/2029	6/1/2010	6/1/2030	\$ 4,152,046	\$ 28,998,000	\$ 4,611,693	\$ 13,910,573
UCU	1223093	EES	MPS	75	3/1/2009	3/1/2029	6/1/2010	6/1/2030	\$ 4,152,046	\$ 28,998,000	\$ 4,611,693	\$ 13,910,573
UCU	1223094	EES	MPS	75	3/1/2009	3/1/2029	6/1/2010	6/1/2030	\$ 4,152,046	\$ 28,998,000	\$ 4,611,693	\$ 13,910,573
UCU	1223095	EES	MPS	75	3/1/2009	3/1/2029	6/1/2010	6/1/2030	\$ 4,152,046	\$ 28,998,000	\$ 4,611,693	\$ 13,910,573
									\$ 16,608,184	\$ 115,992,000	\$ 18,446,772	\$ 55,642,292

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1223092	3RDST - ARKOMA 161KV CKT 1	6/1/2017	6/1/2017			\$ 325,000	\$ 1,300,000	\$ 783,571
	CLARKSVILLE - DARDANELLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 459,647	\$ 3,000,000	\$ -
	COOK - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012			\$ 1,224,359	\$ 6,466,087	\$ 3,983,416
	COOK - ST JOE 161KV CKT 1	6/1/2009	10/1/2009		Yes	\$ 746,320	\$ 4,400,000	\$ 2,539,988
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No	\$ 233,814	\$ 3,000,000	\$ 1,023,565
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 233,814	\$ 3,000,000	\$ 871,388
	EAST - INDUSTRIAL PARK 161KV CKT 1	6/1/2012	6/1/2012			\$ 193,538	\$ 1,000,000	\$ 550,740
	EAST - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 315,761	\$ 2,448,696	\$ 898,602
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No	\$ 272,783	\$ 3,500,000	\$ 1,170,819
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2010		Yes	\$ 249,324	\$ 1,500,000	\$ 1,070,130
	MARYVILLE - MARYVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -	\$ -
	PLATTE CITY - SMITHVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 16,633	\$ 100,000	\$ 48,792
	SEDALIA - SEDALIA SUB 161.00 161KV CKT 1	6/1/2012	6/1/2012			\$ 63,858	\$ 3,500,000	\$ 181,717
	ST JOE - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 276,842	\$ 2,276,522	\$ 787,845
				Total		\$ 4,611,693	\$ 35,491,305	\$ 13,910,573
1223093	3RDST - ARKOMA 161KV CKT 1	6/1/2017	6/1/2017			\$ 325,000	\$ 1,300,000	\$ 783,571
	CLARKSVILLE - DARDANELLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 459,647	\$ 3,000,000	\$ -
	COOK - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012			\$ 1,224,359	\$ 6,466,087	\$ 3,983,416
	COOK - ST JOE 161KV CKT 1	6/1/2009	10/1/2009		Yes	\$ 746,320	\$ 4,400,000	\$ 2,539,988
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No	\$ 233,814	\$ 3,000,000	\$ 1,023,565
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 233,814	\$ 3,000,000	\$ 871,388
	EAST - INDUSTRIAL PARK 161KV CKT 1	6/1/2012	6/1/2012			\$ 193,538	\$ 1,000,000	\$ 550,740
	EAST - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 315,761	\$ 2,448,696	\$ 898,602
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No	\$ 272,783	\$ 3,500,000	\$ 1,170,819
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2010		Yes	\$ 249,324	\$ 1,500,000	\$ 1,070,130
	MARYVILLE - MARYVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -	\$ -
	PLATTE CITY - SMITHVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 16,633	\$ 100,000	\$ 48,792
	SEDALIA - SEDALIA SUB 161.00 161KV CKT 1	6/1/2012	6/1/2012			\$ 63,858	\$ 3,500,000	\$ 181,717
	ST JOE - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 276,842	\$ 2,276,522	\$ 787,845
				Total		\$ 4,611,693	\$ 35,491,305	\$ 13,910,573
1223094	3RDST - ARKOMA 161KV CKT 1	6/1/2017	6/1/2017			\$ 325,000	\$ 1,300,000	\$ 783,571
	CLARKSVILLE - DARDANELLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 459,647	\$ 3,000,000	\$ -
	COOK - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012			\$ 1,224,359	\$ 6,466,087	\$ 3,983,416
	COOK - ST JOE 161KV CKT 1	6/1/2009	10/1/2009		Yes	\$ 746,320	\$ 4,400,000	\$ 2,539,988
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No	\$ 233,814	\$ 3,000,000	\$ 1,023,565
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 233,814	\$ 3,000,000	\$ 871,388
	EAST - INDUSTRIAL PARK 161KV CKT 1	6/1/2012	6/1/2012			\$ 193,538	\$ 1,000,000	\$ 550,740
	EAST - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 315,761	\$ 2,448,696	\$ 898,602
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No	\$ 272,783	\$ 3,500,000	\$ 1,170,819
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2010		Yes	\$ 249,324	\$ 1,500,000	\$ 1,070,130
	MARYVILLE - MARYVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -	\$ -
	PLATTE CITY - SMITHVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 16,633	\$ 100,000	\$ 48,792
	SEDALIA - SEDALIA SUB 161.00 161KV CKT 1	6/1/2012	6/1/2012			\$ 63,858	\$ 3,500,000	\$ 181,717
	ST JOE - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 276,842	\$ 2,276,522	\$ 787,845
				Total		\$ 4,611,693	\$ 35,491,305	\$ 13,910,573

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

1223095	3RDST - ARKOMA 161KV CKT 1	6/1/2017	6/1/2017			\$ 325,000	\$ 1,300,000	\$ 783,571
	CLARKSVILLE - DARDANELLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 459,647	\$ 3,000,000	\$ -
	COOK - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012			\$ 1,224,359	\$ 6,466,087	\$ 3,983,416
	COOK - ST JOE 161KV CKT 1	6/1/2009	10/1/2009	Yes		\$ 746,320	\$ 4,400,000	\$ 2,539,988
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010	No		\$ 233,814	\$ 3,000,000	\$ 1,023,565
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 233,814	\$ 3,000,000	\$ 871,388
	EAST - INDUSTRIAL PARK 161KV CKT 1	6/1/2012	6/1/2012			\$ 193,538	\$ 1,000,000	\$ 550,740
	EAST - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 315,761	\$ 2,448,696	\$ 898,602
	Hawthorn/W Gardner Cap Banks	6/1/2009	6/1/2010	No		\$ 272,783	\$ 3,500,000	\$ 1,170,819
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2010	Yes		\$ 249,324	\$ 1,500,000	\$ 1,070,130
	MARYVILLE - MARYVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -	\$ -
	PLATTE CITY - SMITHVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 16,633	\$ 100,000	\$ 48,792
	SEDALIA - SEDALIA SUB 161.00 161KV CKT 1	6/1/2012	6/1/2012			\$ 63,858	\$ 3,500,000	\$ 181,717
	ST JOE - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 276,842	\$ 2,276,522	\$ 787,845
					Total	\$ 4,611,693	\$ 35,491,305	\$ 13,910,573

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1223092	5CALCR - NORFORK 161KV CKT 1 SWPA	6/1/2009	6/1/2009		
	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012		
	ARKOMA - FT SMITHW 161KV CKT 1	6/1/2017	6/1/2017		
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2008	6/1/2010		Yes
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2010		Yes
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	6/1/2009	6/1/2010		Yes
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 OKGE	6/1/2009	6/1/2010		Yes
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2009	6/1/2009		
	EAST 20MVAR CAPACITOR	6/1/2009	6/1/2009		
	East Centerton - Flint Creek 345 kv	6/1/2014	6/1/2014		
	EDMOND SUB	6/1/2009	6/1/2010	10/1/2009	Yes
	Freeman to Harrisonville West 69 kv	6/1/2008	6/1/2008		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		Yes
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 AEPW	6/1/2009	6/1/2010		Yes
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 OKGE	6/1/2009	6/1/2010		Yes
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2008	6/1/2010		Yes
	West Gardner 345 kv Tap on Stillwell-Swissvale 345 kv, 50 Additional MVAR	6/1/2012	6/1/2012		
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		Yes
1223093	5CALCR - NORFORK 161KV CKT 1 SWPA	6/1/2009	6/1/2009		
	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012		
	ARKOMA - FT SMITHW 161KV CKT 1	6/1/2017	6/1/2017		
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2008	6/1/2010		Yes
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2010		Yes
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	6/1/2009	6/1/2010		Yes
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 OKGE	6/1/2009	6/1/2010		Yes
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2009	6/1/2009		
	EAST 20MVAR CAPACITOR	6/1/2009	6/1/2009		
	East Centerton - Flint Creek 345 kv	6/1/2014	6/1/2014		
	EDMOND SUB	6/1/2009	6/1/2010	10/1/2009	Yes
	Freeman to Harrisonville West 69 kv	6/1/2008	6/1/2008		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		Yes
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 AEPW	6/1/2009	6/1/2010		Yes
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 OKGE	6/1/2009	6/1/2010		Yes
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2008	6/1/2010		Yes
	West Gardner 345 kv Tap on Stillwell-Swissvale 345 kv, 50 Additional MVAR	6/1/2012	6/1/2012		
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		Yes

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

1223094	5CALCR - NORFORK 161KV CKT 1 SWPA	6/1/2009	6/1/2009		
	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012		
	ARKOMA - FT SMITHW 161KV CKT 1	6/1/2017	6/1/2017		
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2008	6/1/2010		Yes
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2010		Yes
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	6/1/2009	6/1/2010		Yes
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 OKGE	6/1/2009	6/1/2010		Yes
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2009	6/1/2009		
	EAST 20MVAR CAPACITOR	6/1/2009	6/1/2009		
	East Centerton - Flint Creek 345 kv	6/1/2014	6/1/2014		
	EDMOND SUB	6/1/2009	6/1/2010	10/1/2009	Yes
	Freeman to Harrisonville West 69 kv	6/1/2008	6/1/2008		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		Yes
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 AEPW	6/1/2009	6/1/2010		Yes
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 OKGE	6/1/2009	6/1/2010		Yes
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2008	6/1/2010		Yes
	West Gardner 345 kv Tap on Stillwell-Swissvale 345 kv, 50 Additional MVAR	6/1/2012	6/1/2012		
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		Yes
1223095	5CALCR - NORFORK 161KV CKT 1 SWPA	6/1/2009	6/1/2009		
	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012		
	ARKOMA - FT SMITHW 161KV CKT 1	6/1/2017	6/1/2017		
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2008	6/1/2010		Yes
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2010		Yes
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	6/1/2009	6/1/2010		Yes
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 OKGE	6/1/2009	6/1/2010		Yes
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2009	6/1/2009		
	EAST 20MVAR CAPACITOR	6/1/2009	6/1/2009		
	East Centerton - Flint Creek 345 kv	6/1/2014	6/1/2014		
	EDMOND SUB	6/1/2009	6/1/2010	10/1/2009	Yes
	Freeman to Harrisonville West 69 kv	6/1/2008	6/1/2008		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		Yes
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 AEPW	6/1/2009	6/1/2010		Yes
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 OKGE	6/1/2009	6/1/2010		Yes
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2008	6/1/2010		Yes
	West Gardner 345 kv Tap on Stillwell-Swissvale 345 kv, 50 Additional MVAR	6/1/2012	6/1/2012		
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1223092	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2008	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2008	6/1/2010		Yes
	MUSKOGEE - PECAN CREEK 345KV CKT 1	6/1/2009	6/1/2009		
1223093	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2008	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2008	6/1/2010		Yes
	MUSKOGEE - PECAN CREEK 345KV CKT 1	6/1/2009	6/1/2009		
1223094	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2008	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2008	6/1/2010		Yes
	MUSKOGEE - PECAN CREEK 345KV CKT 1	6/1/2009	6/1/2009		
1223095	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2008	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2008	6/1/2010		Yes
	MUSKOGEE - PECAN CREEK 345KV CKT 1	6/1/2009	6/1/2009		

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

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1223092	5BEE BR - QUITMAN 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	5CALCR - NORFORK 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	5CLINTN - CLINTON WEST (AECC) 161KV CKT 1	12/1/2012	12/1/2012			\$ -	\$ -
	5HILLTOP 161.00 - 5ST_JOE 161.00 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	5ST_JOE 161.00 - EVERTON 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	6/1/2009	6/1/2010		Yes	\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 ENTR	6/1/2009	6/1/2010		Yes	\$ -	\$ -
	MARYVILLE - MARYVILLE 161KV CKT 1 AECI	6/1/2012	6/1/2012			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	STILWELL 345/161KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	THOMAS HILL (THOMAS H) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
						Total	\$ -
1223093	5BEE BR - QUITMAN 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	5CALCR - NORFORK 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	5CLINTN - CLINTON WEST (AECC) 161KV CKT 1	12/1/2012	12/1/2012			\$ -	\$ -
	5HILLTOP 161.00 - 5ST_JOE 161.00 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	5ST_JOE 161.00 - EVERTON 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	6/1/2009	6/1/2010		Yes	\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 ENTR	6/1/2009	6/1/2010		Yes	\$ -	\$ -
	MARYVILLE - MARYVILLE 161KV CKT 1 AECI	6/1/2012	6/1/2012			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	STILWELL 345/161KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	THOMAS HILL (THOMAS H) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
						Total	\$ -
1223094	5BEE BR - QUITMAN 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	5CALCR - NORFORK 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	5CLINTN - CLINTON WEST (AECC) 161KV CKT 1	12/1/2012	12/1/2012			\$ -	\$ -
	5HILLTOP 161.00 - 5ST_JOE 161.00 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	5ST_JOE 161.00 - EVERTON 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	6/1/2009	6/1/2010		Yes	\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 ENTR	6/1/2009	6/1/2010		Yes	\$ -	\$ -
	MARYVILLE - MARYVILLE 161KV CKT 1 AECI	6/1/2012	6/1/2012			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	STILWELL 345/161KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	THOMAS HILL (THOMAS H) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
						Total	\$ -
1223095	5BEE BR - QUITMAN 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	5CALCR - NORFORK 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	5CLINTN - CLINTON WEST (AECC) 161KV CKT 1	12/1/2012	12/1/2012			\$ -	\$ -
	5HILLTOP 161.00 - 5ST_JOE 161.00 161KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	5ST_JOE 161.00 - EVERTON 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	6/1/2009	6/1/2010		Yes	\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	10/1/2008	10/1/2008			\$ -	\$ -
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 ENTR	6/1/2009	6/1/2010		Yes	\$ -	\$ -
	MARYVILLE - MARYVILLE 161KV CKT 1 AECI	6/1/2012	6/1/2012			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	STILWELL 345/161KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
	THOMAS HILL (THOMAS H) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ -	\$ -
						Total	\$ -

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

Customer Study Number
UCU AG1-2007-092

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
UCU	1223102	MPS	MPS	315	5/1/2010	5/1/2030	6/1/2010	6/1/2030	\$ -	\$ -	\$ 21,859,734	\$ 49,734,809
									\$ -	\$ -	\$ 21,859,734	\$ 49,734,809

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1223102	COOK - LAKE ROAD 161KV CKT 1	6/1/2012	6/1/2012			\$ 1,374,483	\$ 6,466,087	\$ 4,471,840
	COOK - ST JOE 161KV CKT 1	6/1/2009	10/1/2009			\$ 1,296,362	\$ 4,400,000	\$ 4,411,974
	EAST - INDUSTRIAL PARK 161KV CKT 1	6/1/2012	6/1/2012			\$ 195,151	\$ 1,000,000	\$ 555,330
	EAST - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 1,135,568	\$ 2,448,696	\$ 3,231,633
	GEORGETOWN - SEDALIA 161KV CKT 1	5/1/2010	5/1/2010			\$ -	\$ -	\$ -
	GEORGETOWN - SEDALIA SUB 161.00 161KV CKT 1 MIPU	5/1/2010	5/1/2010			\$ 2,400,000	\$ 2,400,000	\$ 9,463,349
	KC SOUTH - LONGVIEW 161KV CKT 1	6/1/2017	6/1/2017			\$ 100,000	\$ 100,000	\$ 131,002
	KNOB NOSTER - SEDALIA WEST NORTH BUS 69KV CKT 1	6/1/2017	6/1/2017			\$ 6,000,000	\$ 6,000,000	\$ 7,860,121
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2010			\$ 401,985	\$ 1,500,000	\$ 1,725,370
	MARYVILLE - MARYVILLE 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -	\$ -
	SEDALIA - SEDALIA SUB 161.00 161KV CKT 1	6/1/2012	6/1/2012			\$ 3,230,442	\$ 3,500,000	\$ 9,192,690
	ST JOE - WOODBINE 161KV CKT 1	6/1/2012	6/1/2012			\$ 1,125,243	\$ 2,276,522	\$ 3,202,250
	WARRENSBURG EAST - WARRENSBURG PLANT 69KV CKT 1 Expedite	6/1/2012	6/1/2012			\$ 2,422,500	\$ 2,422,500	\$ 2,635,843
	WARRENSBURG EAST 161/69KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ 2,178,000	\$ 2,178,000	\$ 2,853,409
Total						\$ 21,859,734	\$ 34,691,805	\$ 49,734,809

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1223102	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	EAST 20MVAR CAPACITOR	6/1/2009	6/1/2009		
	EDMOND SUB	6/1/2009	6/1/2010	10/1/2009	No
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		No
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2008	6/1/2010		Yes
	RITCHFIELD - SIBLEY 161KV CKT 1	6/1/2017	6/1/2017		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1223102	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1223102	GEORGETOWN - GEORGETOWN TAP 2 69KV CKT 1	5/1/2010	5/1/2010			\$ 160,000	\$ 160,000
	GEORGETOWN - SEDALIA SUB 161.00 161KV CKT 1 AECI	5/1/2010	5/1/2010			\$ 500,000	\$ 500,000
	GEORGETOWN (GEORGETO) 161/69/13.2KV TRANSFORMER CKT 1	6/1/2012	6/1/2012			\$ 1,000,000	\$ 1,000,000
	GEORGETOWN TAP 2 - SEDALIA 69KV CKT 1	6/1/2012	6/1/2012			\$ 1,200,000	\$ 1,200,000
	MARYVILLE - MARYVILLE 161KV CKT 1 AECI	6/1/2012	6/1/2012			\$ -	\$ -
	THOMAS HILL (THOMAS H) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ 2,033,102	\$ 2,800,000
Total						\$ 4,893,102	\$ 5,660,000

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

Customer Study Number
WFEC AG1-2007-014

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WFEC	1217632	WFEC	WFEC	150	1/1/2011	1/1/2036			\$ 50,000	-	\$ 1,211,412	\$ 155,461
									\$ 50,000	-	\$ 1,211,412	\$ 155,461

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1217632	CLARKSVILLE - DARDANELLE 161KV CKT 1	6/1/2012	6/1/2012			\$ 1,161,412	\$ 3,000,000	-
	ROCKY POINT - SUNNYSIDE 138KV CKT 1	6/1/2017	6/1/2017			\$ 50,000	\$ 50,000	\$ 155,461
					Total	\$ 1,211,412	\$ 3,050,000	\$ 155,461

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1217632	ACME - WEST NORMAN 69KV CKT 1	6/1/2010	6/1/2010		
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2010	6/1/2010		
	COLBERT - TEXOMA 138 KV CKT 1	6/1/2012	6/1/2012		
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2009	6/1/2009		
	East Centerton - Flint Creek 345 kv	6/1/2014	6/1/2014		
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 OKGE	6/1/2010	6/1/2010		
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 WFEC	6/1/2010	6/1/2010		
	FRANKLIN SW 138/69KV TRANSFORMER CKT 1	6/1/2010	6/1/2010		
	HAMMETT - MEEKER 138KV CKT 1	6/1/2012	6/1/2012		
	Norman Area Voltage Conversion	6/1/2010	6/1/2010		
	PAOLI 138/69KV TRANSFORMER CKT 1	12/1/2012	12/1/2012		
	RED OAK - RED OAK 138 KV CKT 1	6/1/2017	6/1/2017		
	RUSSETT - RUSSETT 138KV CKT 1 OKGE	6/1/2017	6/1/2017		
	RUSSETT - RUSSETT 138KV CKT 1 WFEC	6/1/2017	6/1/2017		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1217632	HUGO POWER PLANT - VALLIANT 345 KV AEPW	5/1/2010	5/1/2010		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	5/1/2010	5/1/2010		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1217632	MUSKOGEE - PECAN CREEK 345KV CKT 1	6/1/2009	6/1/2009		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1217632	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
					Total	\$ -	\$ -

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

Customer Study Number
WRGS AG1-2007-001D

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	1197077	EDE	WR	32	9/1/2007	9/1/2018	6/1/2010	6/1/2021	\$ 2,510,990	-	\$ 2,510,990	\$ 6,314,990
									\$ 2,510,990	\$ -	\$ 2,510,990	\$ 6,314,990

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1197077	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #2	6/1/2012	6/1/2012			\$ 1,081,878	\$ 3,050,000	\$ 2,564,106
	HOOVER NORTH - LAKERIDGE 138KV CKT 1	6/1/2012	6/1/2012			\$ 70,943	\$ 200,000	\$ 168,139
	JOPLIN 59 - SUB 439 - STATELINE 161KV CKT 1 Displacement	6/1/2009	6/1/2009			\$ 606,417	\$ 779,405	\$ 1,600,947
	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST. 161/69KV TRANSFORMER CKT 1 Displacement	6/1/2009	6/1/2009			\$ 747,922	\$ 961,276	\$ 1,974,521
	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 3,830	\$ 3,830	\$ 7,278
	Total					\$ 2,510,990	\$ 4,994,511	\$ 6,314,990

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1197077	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	12/1/2007	6/1/2010		No
	CIRCLE - SANDHILL ARK VALLEY CO-OP D.P. JUNCTION 115 KV CKT 1	6/1/2012	6/1/2012		
	CLAY CENTER - GREENLEAF 115KV CKT 1	12/1/2007	6/1/2010		No
	East Centerton - Flint Creek 345 kv	6/1/2014	6/1/2014		
	EAST MANHATTAN 115KV Capacitor	6/1/2017	6/1/2017		
	East Manhattan to Mcdowell 230 kv	6/1/2014	6/1/2014		
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1	6/1/2012	6/1/2012		
	Fort Scott - SW Bourbon 161 kv	6/1/2010	6/1/2010		
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2013	6/1/2013		
	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST 161/69KV TRANSFORMER CKT 1	6/1/2017	6/1/2017		
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2012	6/1/2012		
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2017	6/1/2017		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2010		No
	SUB 124 - AURORA H.T. - SUB 152 - MONETT H.T. 69KV CKT 1	6/1/2009	6/1/2009		
	SUB 124 - AURORA H.T. - SUB 383 - MONETT 161KV CKT 1	6/1/2017	6/1/2017		
	SUB 124 - AURORA H.T. 161KV	6/1/2009	6/1/2009		
	SUB 145 - JOPLIN WEST 7TH - SUB 341 - JOPLIN NORTHWEST 69KV CKT 1	6/1/2009	6/1/2009		
	SUB 382 - LARUSSEL - SUB 383 - MONETT 161KV CKT 1	6/1/2017	6/1/2017		
	SUB 383 - MONETT (MONETT) 161/69/12.5KV TRANSFORMER CKT 1	6/1/2017	6/1/2017		
	SUB 389 - JOPLIN SOUTHWEST - SUB 422 - JOPLIN 24TH & CONNECTICUT 161KV CKT 1	6/1/2008	6/1/2008		
	Summit - NE Saline 115 kv	12/1/2007	6/1/2010		Yes
	SW Manhattan 230/115 kv	6/1/2016	6/1/2016		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1197077	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1197077	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2008	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2008	6/1/2010		Yes
	WICHITA - RENO 345KV	12/1/2007	6/1/2009		Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1197077	ALLEN 69KV Capacitor	12/1/2007	6/1/2010		No
	ATHENS 69KV Capacitor	12/1/2007	6/1/2010		No
	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No
	TIOGA 69KV Capacitor	12/1/2007	6/1/2010		No

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

Customer Study Number
 WRGS AG1-2007-047D

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	1222005	WR	EES	106	10/1/2007	10/1/2010	6/1/2010	6/1/2013	\$ -	\$ 3,434,400	\$ 1,864,607	\$ 4,131,638
									\$ -	\$ 3,434,400	\$ 1,864,607	\$ 4,131,638

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1222005	Craig (542978) Cap Bank Phase 1	6/1/2009	6/1/2010		No	\$ 574,693	\$ 3,000,000	\$ 1,345,141
	Craig (542978) Cap Bank Phase 2	6/1/2012	6/1/2012			\$ 574,693	\$ 3,000,000	\$ 1,145,154
	Hawthorn/W.Gardner Cap Banks	6/1/2009	6/1/2010		No	\$ 670,475	\$ 3,500,000	\$ 1,538,657
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2010		Yes	\$ 44,746	\$ 1,500,000	\$ 102,687
Total						\$ 1,864,607	\$ 11,000,000	\$ 4,131,638

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1222005	BLUE SPRINGS EAST CAP BANK	6/1/2012	6/1/2012		
	Centerville Cap Bank	6/1/2012	6/1/2012		
	CHASE - WHITE JUNCTION 69KV CKT 1	6/1/2008	6/1/2010		No
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2012	6/1/2012		
	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009		Yes
	OXFORD 138KV Capacitor	6/1/2008	6/1/2010		No
	RAYTOWN - SUB N 161KV CKT 1	6/1/2008	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2008	6/1/2010		Yes
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2010		Yes
	Summit - NE Saline 115 kV	12/1/2007	6/1/2010		No
	West Gardner 345 kV Tap on Stillwell-Swissvale 345 kV, 50 Additional MVAR	6/1/2012	6/1/2012		
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2008	6/1/2009		Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1222005	HUGO POWER PLANT - VALLIANT 345 KV AEPW	5/1/2010	5/1/2010		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	5/1/2010	5/1/2010		

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
EMDE	JOPLIN 59 - SUB 439 - STATELINE 161KV CKT 1 Displacement	Install new line from Sub #439 to new Sub Joplin 59.	6/1/2009	6/1/2009	779,405
EMDE	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST. 161/69KV TRANSFORMER CKT 1 Displacement	Install 3-wind transformer from 161 kV Joplin 59 bus to Sub #59 Joplin 26th St.	6/1/2009	6/1/2009	961,276
EMDE	SUB 170 - NICHOLS ST. - SUB 80 - MARSHFIELD JCT. 69KV CKT 1	Reconductor line from Sub #80 to Sub #170 from 1/0 CU to 556 ACSR and replace Jumpers in Sub #80	6/1/2012	6/1/2012	\$ 3,000,000
EMDE	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1 Displacement	Change CT Settings for Rate B 61 MVA	12/1/2008	12/1/2008	\$ 20,682
KACP	CRAIG - LENEXA NORTH 161KV CKT 1	Reconductor 2.95 miles	6/1/2017	6/1/2017	\$ 1,593,000
KACP	CRAIG - PFLUMM 161KV CKT 1	Reconductor 5.3 miles	6/1/2017	6/1/2017	\$ 2,862,000
KACP	Craig (542978) Cap Bank Phase 1	add 150 Mvar cap bank Craig 542978 during the 09SP and above	6/1/2009	6/1/2010	\$ 3,000,000
KACP	Craig (542978) Cap Bank Phase 2	add 150 Mvar cap bank Craig 542978 during the 12SP and above	6/1/2012	6/1/2012	\$ 3,000,000
KACP	Hawthorn/W.Gardner Cap Banks	New Hawthorn 100 MVAR cap bank. New West Gardner 100 MVAR cap bank.	6/1/2009	6/1/2010	\$ 3,500,000
KACP	MARTIN CITY - REDEL 161KV CKT 1	reconductor 1192 acss upgrade terminal equip 2000 amp	6/1/2009	6/1/2010	\$ 1,500,000
MIPU	COOK - LAKE ROAD 161KV CKT 1	Reconductor 6.76 miles	6/1/2012	6/1/2012	\$ 6,466,087
MIPU	COOK - ST JOE 161KV CKT 1	Conductor, Switch, Relay	6/1/2009	10/1/2009	\$ 4,400,000
MIPU	EAST - INDUSTRIAL PARK 161KV CKT 1	increase clearance limit and replace switches	6/1/2012	6/1/2012	\$ 1,000,000
MIPU	EAST - WOODBINE 161KV CKT 1	Reconductor 2.56 miles	6/1/2012	6/1/2012	\$ 2,448,696
MIPU	GEORGETOWN - SEDALIA 161KV CKT 1	Line rerated to 100C rating of 227MVA	5/1/2010	5/1/2010	\$ -
MIPU	GEORGETOWN - SEDALIA SUB 161.00 161KV CKT 1 MIPU	New 161KV line from new plant site George Town, built for a bundled 795 26/7 ACSR	5/1/2010	5/1/2010	\$ 2,400,000
MIPU	HALLMARK - RITCHFIELD 161KV CKT 1	replace wavetraps	6/1/2017	6/1/2017	\$ 100,000
MIPU	KC SOUTH - LONGVIEW 161KV CKT 1	replace wavetraps	6/1/2017	6/1/2017	\$ 100,000
MIPU	KNOB NOSTER - SEDALIA WEST NORTH BUS 69KV CKT 1	Rebuild Sedalia North - Knobnoster 69KV line to at least a 477 26/7 ACSR conductor	6/1/2017	6/1/2017	\$ 6,000,000
MIPU	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1 Expedite	Upgrade to bundled 795 26/7 ACSR conductor	6/1/2009	6/1/2010	\$ 4,244,500
MIPU	PLATTE CITY - SMITHVILLE 161KV CKT 1	Replace wavetraps	6/1/2012	6/1/2012	\$ 100,000
MIPU	SEDALIA - SEDALIA SUB 161.00 161KV CKT 1	Line rebuild to bundled 795 26/7 ACSR conductor	6/1/2012	6/1/2012	\$ 3,500,000
MIPU	ST JOE - WOODBINE 161KV CKT 1	Reconductor 2.38 miles	6/1/2012	6/1/2012	\$ 2,278,522
MIPU	WARRENSBURG EAST - WARRENSBURG PLANT 69KV CKT 1 Expedite	Upgrade line to 795 26/7 ACSR conductor	6/1/2012	6/1/2012	\$ 2,422,500
MIPU	WARRENSBURG EAST 161/69KV TRANSFORMER CKT 1	update transformer	6/1/2017	6/1/2017	\$ 2,178,000
OKGE	3RDST - ARKOMA 161KV CKT 1	Replace 8-1200A switches & 2-wave traps.	6/1/2017	6/1/2017	\$ 1,300,000
OKGE	ROCKY POINT - SUNNYSIDE 138KV CKT 1	Reset CT at Rocky Point	6/1/2017	6/1/2017	\$ 50,000
SPRM	BROOKLINE - JUNCTION 161KV CKT 1	Reconductor 1192 AAC with 1158.4 ACSS/TW	6/1/2011	6/1/2011	\$ 1,000,000
SPRM	BROOKLINE - SUMMIT 345 KV CKT 1 Displacement	Build a 345 kV line from Brookline to Summit substation and install a 345/161 kV autotransformer at Summit	6/1/2012	6/1/2012	\$ 1,673,339
SPRM	CLAY - SPRINGFIELD 161KV CKT 1 SPRM	Replace disconnect switches at Springfield.	12/1/2012	12/1/2012	\$ 200,000
SWPA	SLEAD HL - 161.00 - BULL SHOALS 161KV CKT 1 SWPA	Indeterminate	6/1/2017	6/1/2012	\$ -
SWPA	CLARKSVILLE - DARDANELLE 161KV CKT 1	Reconductor Clarksville-Dardanelle line.	6/1/2012	6/1/2012	\$ 3,000,000
SWPA	CLAY - SPRINGFIELD 161KV CKT 1 SWPA	Indeterminate	12/1/2012	12/1/2012	\$ -
SWPA	KENNETT (KEN X2) 161/69/13.8KV TRANSFORMER CKT 1	Indeterminate	12/1/2007	12/1/2007	\$ -
WERE	ALLEN - LEHIGH TAP 69KV CKT 1	Tear down / Rebuild 5.69-mile line; 954 kcmil ACSR	6/1/2008	6/1/2010	\$ 2,000,000
WERE	ALLEN 69KV Capacitor	Allen 69 kV 15 MVAR Capacitor Addition	12/1/2007	6/1/2010	\$ 500,000
WERE	ARKANSAS CITY - PARIS 69KV CKT 1 #1 Displacement	Replace Disconnect Switches and Bus Jumpers at Paris and Ark City 69 kV substations	6/1/2008	6/1/2010	\$ 12,940
WERE	ASH GROVE JCT2 - TIOGA 69KV CKT 1	Rebuild 2.13 miles	6/1/2010	6/1/2010	\$ 767,000
WERE	ATHENS 69KV Capacitor	Athens 69 kV 15 MVAR Capacitor Addition	12/1/2007	6/1/2010	\$ 500,000
WERE	Athens to Owl Creek 69 kV	Rebuild 2.93 miles Athens to Owl Creek 69 kV (138kV/69kV Operation)	6/1/2008	6/1/2010	\$ 1,055,000
WERE	CHANUTE TAP - TIOGA 69KV CKT 1	Replace Jumpers	6/1/2010	6/1/2010	\$ 100,000
WERE	CITY OF IOLA - UNITED NO. 9 CONGER 69KV CKT 1	Tear down / Rebuild 4-mile 69 kV line; 954 kcmil ACSR	6/1/2008	6/1/2010	\$ 1,440,000
WERE	CITY OF WINFIELD - RAINBOW 69KV CKT 1	Rebuild 3.99-mile Rainbow-Winfield 69 kV line, 954 ACSR	6/1/2008	6/1/2010	\$ 1,560,000
WERE	CRESWELL - OAK 69KV CKT 1 #1 Displacement	Replace jumpers and bus, and reset CTs and relaying. Rebuild substations.	6/1/2008	6/1/2010	\$ 43,528
WERE	CRESWELL - OAK 69KV CKT 1 #2 Displacement	Rebuild 5.82 miles	6/1/2008	6/1/2010	\$ 348,221
WERE	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #2	Reconductor 8.02 miles with Bundled 1192.5 ACSR	6/1/2012	6/1/2012	\$ 3,050,000
WERE	Green to Vernon 69 kV	Rebuild 7.19 miles Green to Vernon 69 kV (138kV/69kV Operation)	6/1/2008	6/1/2010	\$ 2,589,000
WERE	HOOVER NORTH - LAKERIDGE 138KV CKT 1	Replace Disconnect Switches, Wavetraps, Breaker, Jumpers	6/1/2012	6/1/2012	\$ 200,000
WERE	LEHIGH TAP - OWL CREEK 69KV CKT 1	Tear down / Rebuild 8.47-mile 69 kV line; 954 kcmil ACSR	6/1/2008	6/1/2010	\$ 2,900,000
WERE	LEHIGH TAP - UNITED NO. 9 CONGER 69KV CKT 1	Tear down / Rebuild 0.91-mile 69 kV line; 954 kcmil ACSR	6/1/2008	6/1/2010	\$ 310,000
WERE	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacement	Replace 69 kv disconnect switches at Aquarius.	6/1/2013	6/1/2013	\$ 3,830
WERE	MIDLAND JUNCTION - PENTAGON 115KV CKT 1	Replace sturture for 100C operation	6/1/2017	6/1/2017	\$ 2,000,000
WERE	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	Replace bus and Jumpers at NE Parsons 138 kV substation	6/1/2008	6/1/2008	\$ 250,000
WERE	OAK - RAINBOW 69KV CKT 1	Tear down / Rebuild 5.10-mile Oak-Rainbow 69 kV using 954 kcmil ACSR	6/1/2008	6/1/2010	\$ 1,800,000
WERE	RAINBOW 69KV Capacitor	RAINBOW 69KV 9.6 MVAR Capacitor Addition	12/1/2007	6/1/2010	\$ 325,000
WERE	RICHLAND - ROSE HILL JUNCTION 69KV CKT 1 Displacement	Rebuild 5.43 mile Rose Hill Junction-Richland as a 138 kV line but operate at 69 kV.	4/1/2008	6/1/2010	\$ 491,720
WERE	ROSE HILL 69KV Capacitor	ROSE HILL 69 kV 9.6 MVAR Capacitor Addition	6/1/2008	6/1/2010	\$ 325,000
WERE	TIOGA 69KV Capacitor	Tioiga 69 kV 15 MVAR Capacitor Addition	12/1/2007	6/1/2010	\$ 500,000
WERE	Vernon to Athens 69 kV	Rebuild 5.17 miles Green to Vernon 69 kV (138kV/69kV Operation)	6/1/2008	6/1/2010	\$ 1,862,000

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	Tie Line, Reconductor 1.09 miles of 795 ACSR with 1590 ACSR.	6/1/2008	6/1/2010
OKGE	MUSKOGEE - PECAN CREEK 345KV CKT 1	Increase CT ratiom at Pecan Creek from 800-5 to 2000-5 to allow a 1500 amp rating line section.	6/1/2009	6/1/2009
WERE	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	Tear down and rebuild 3.66 mile 166-Jaggard 115 kV line.	6/1/2008	6/1/2009
WERE	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	Tear down and rebuild 7.22 mile Jarbalo-166 115 kV line.	6/1/2008	6/1/2009
WERE	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	Rebuild 16.66-mile line, 1192.5 kcmil ACSR	4/1/2008	6/1/2008
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	Tie Line, Rebuild 3.93 miles of 795 ACSR with 1590 ACSR.	6/1/2008	6/1/2010
WERE	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	Tear down and rebuild Jaggard - Pentagon 115 kV line.	6/1/2008	6/1/2008
WERE	RENO - SUMMIT 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.	4/1/2008	6/1/2009
WERE	WICHITA - RENO 345KV	Build 345kV from Wichita to Reno Co	12/1/2007	6/1/2009

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

Expansion Plan Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission custome				
Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	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	6/1/2008	6/1/2010
AEPW	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	Rebuild 13.11 miles of 795 ACSR with 1590 ACSR	6/1/2009	6/1/2010
AEPW	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	Rebuild 17.96 miles of 250 Copperweld with 1272 ACSR.	6/1/2009	6/1/2010
AEPW	East Centerton - Flint Creek 345 kV	East Centerton - Flint Creek 345 kV - STEP Project	6/1/2014	6/1/2014
AEPW	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 AEPW	Rebuild 7.43 miles of 250 CWC with 795 ACSR	6/1/2009	6/1/2010
AEPW/WFEC	RED OAK - RED OAK 138 KV CKT 1	Build new 138kv line from AEPW's Red Oak Sub to WFEC's Red Oak Sub	8/1/2017	6/1/2017
EMDE	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 EMDE	Replace Jumpers to breaker #6950 at Blackhawk Jct.	6/1/2012	6/1/2012
EMDE	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST 161/69KV TRANSFORMER CKT 1	Install 3-wind transformer from 161 kV Joplin 59 bus to Sub #59 Joplin 26th St.	6/1/2017	6/1/2017
EMDE	SUB 124 - AURORA H.T. - SUB 152 - MONETT H.T. 69KV CKT 1	Change CT Ratio on breaker #6936 at Aurora #124.	6/1/2009	6/1/2009
EMDE	SUB 124 - AURORA H.T. - SUB 383 - MONETT 161KV CKT 1	Change CT Ratio at Sub #383 on Breaker #16186 for 268 MVA Rate B	6/1/2017	6/1/2017
EMDE	SUB 124 - AURORA H.T. 161KV	Install 3 - stages of 22 MVAR each for total of 66 MVAR capacitor bank at Aurora Sub #124 bus# 547537	6/1/2009	6/1/2009
EMDE	SUB 145 - JOPLIN WEST 7TH - SUB 341 - JOPLIN NORTHWEST 69KV CKT 1	Reconductor 2.25 miles of the line from 59539 to 59574 with 556 conductor.	6/1/2009	6/1/2009
EMDE	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	Replace Disconnect Switches and Leads on Breaker #6965 at Sub #64 and #6932 at Sub #145	6/1/2012	6/1/2012
EMDE	SUB 167 - RIVERTON - SUB 278 - GALENA NORTHEAST 69KV CKT 1	Replace switch on transfer bus at Sub# 167 for Rate B = 91	6/1/2009	6/1/2009
EMDE	SUB 382 - LARUSSEL - SUB 383 - MONETT 161KV CKT 1	Change CT Ratio at Sub #383 on Breaker #16186 for 268 MVA Rate B	6/1/2017	6/1/2017
EMDE	SUB 383 - MONETT (MONETT) 161/69/12.5KV TRANSFORMER CKT 1	Install new line from Sub #383 to new Sub MONETT 5. Install 3-wind transformer from 161 kV new bus to Monett city south 69KV	6/1/2017	6/1/2017
EMDE	SUB 389 - JOPLIN SOUTHWEST - SUB 422 - JOPLIN 24TH & CONNECTICUT 161KV CKT 1	Change CT Ratio at Sub #389 on Breaker #16170 for 268 MVA Rate B	6/1/2008	6/1/2008
EMDE	SUB 438 - RIVERSIDE 161KV	Install 3 - stages of 22 MVAR each for a total of 66 MVAR capacitor bank at Riverside Sub #438 547497	6/1/2012	6/1/2012
GRDA	412SUB - KANSAS TAP 161KV CKT 1	Reconductor 9.7 miles with 1590MCM ACSR.	8/1/2012	6/1/2012
GRDA	412SUB - KERR 161KV CKT 1	Reconductor 12.5 miles with 1590MCM ACSR	6/1/2012	6/1/2012
GRDA	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	Rebuild line to 1590 ACSR	6/1/2010	6/1/2010
GRDA	KERR - PENSACOLA 115KV CKT 1	Rebuild 22 miles of line from 4/0 Cu to 795 ACSR for 161kV	12/1/2012	12/1/2012
GRDA	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	Rebuild line to 1590 ACSR	6/1/2012	6/1/2012
KACP	ANTIOCH - OXFORD 161KV CKT 1	Reconductor 5 miles with 1192.5 ACSS, 558 normal/emergency rating	6/1/2008	6/1/2010
KACP	AVONDALE - GLADSTONE 161KV CKT 1	Upgrade Wavetrap at Gladstone from 800 amps to 1200 amps	6/1/2012	6/1/2012
KACP	Centerville Cap Bank	20 Mvar at Centerville	6/1/2012	6/1/2012
KACP	HAWTHORN 161/69KV TRANSFORMER CKT 11	Upgrade Xmr	8/1/2017	6/1/2017
KACP	REDEL - STILWELL 161KV CKT 1	Reconductor line with 1192 ACSS and upgrade terminal equipment for 2000 amps	6/1/2008	6/1/2010
KACP	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	Replace 400/440 Mva Tx with 600/660 Mva Tx	6/1/2008	6/1/2009
KACP	West Gardner 345 kV Tap on Stillwell-Swissvale 345 kV, 50 Additional MVAR	New West Gardner 50 MVAR cap bank. West Gardner 345 kV Tap on Stillwell-Swissvale line	6/1/2012	6/1/2012
MIDW	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	Tear down and rebuild 28.79 mile HEC-Huntsville 115 kV line and replace CT, wavetrap and relays.	6/1/2017	6/1/2017
MIPU	ALABAMA - LAKE ROAD 161KV CKT 1	reset the overcurrent relay	6/1/2012	6/1/2012
MIPU	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	Reconductor to Bundled Drake	6/1/2008	6/1/2010
MIPU	BLUE SPRINGS EAST CAP BANK	Add 50 MVAR cap bank at Blue Springs East	6/1/2012	6/1/2012
MIPU	EAST 20MVAR CAPACITOR	Add 20MVAR capacitor at East 161kV	6/1/2009	6/1/2009
MIPU	EDMOND SUB	Add a new 161/34.5 kV Sub at Edmond	6/1/2009	6/1/2010
MIPU	Freeman to Harrisonville West 69 kV	set overcurrent relay to trip the line	6/1/2008	6/1/2008
MIPU	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	Wave Trap	6/1/2008	6/1/2009
MIPU	MIDWAY - ST JOE 161KV CKT 1	Upgrade to 795 26/7 ACSR Conductor	12/1/2012	6/1/2012
MIPU	RAYTOWN - SUB N 161KV CKT 1	Build a new 161 kV tie from MPS Raytown Sub with Bus #541219 to INDN Sub N with Bus # 548820	6/1/2008	6/1/2009
MIPU	RAYTOWN - SUB N 161KV CKT 1	Build a new 161 kV tie from MPS Raytown Sub with Bus #541219 to INDN Sub N with Bus # 548820	6/1/2008	6/1/2010
MIPU	RITCHFIELD - SIBLEY 161KV CKT 1	replace wavetraps	6/1/2017	6/1/2017
OKGE	ARKOMA - FT SMITHW 161KV CKT 1	Replace 1200A terminal equipment at Arkoma to 2000A and rebuild 4.47 miles of line to 1590AS52.	6/1/2017	6/1/2017
OKGE	CANADIAN - CEDAR LANE 138KV CKT 1	Replace a trap at Cedar Lane to 1200A.	6/1/2010	6/1/2010
OKGE	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 OKGE	Rebuild 17.96 miles of 250 Copperweld with 1272 ACSR.	6/1/2009	6/1/2010
OKGE	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 OKGE	Reconductor 1.27 miles of line to 1590AS52. WFEC will have to provide upgrade solution also for their Franklin (WFEC).	6/1/2010	6/1/2010
OKGE	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 OKGE	Rebuild 7.43 miles of 250 CWC with 795 ACSR	6/1/2009	6/1/2010
OKGE	RUSSETT - RUSSETT 138KV CKT 1 OKGE	Replace trap and increase CTR. Pending verification of relays.	6/1/2017	6/1/2017
SPRM	COX 69KV CAPACITOR	Install 30 Mvar capacitor at Cox 69 kV bus	6/1/2017	6/1/2017
SPRM	GOLDEN 69KV CAPACITOR	30 Mvar Capacitor Bank at Golden	6/1/2017	6/1/2017
SPRM	GRAND - MAIN 69KV CKT 1	Reconductor 636 ACSR with 762.8 ACSS/TW & replace 1750 MCM AL UG with 2000 MCM CU UG cable.	6/1/2017	6/1/2017
SPRM	JAMES RIVER - SEMINOLE 69KV CKT 1	Reconductor 636 ACSR with 762.8 ACSS/TW	6/1/2017	6/1/2017
SPRM	JAMES RIVER - TWIN OAKS 69KV CKT 1	Reconductor 636 ACSR with 762.8 ACSS/TW	6/1/2017	6/1/2017
SPRM	KICKAPOO - SUNSET 69KV CKT 1	Reconductor 636 ACSR with 762.8 ACSS/TW	6/1/2017	6/1/2017
SPRM	MAIN 161KV CAPACITOR	Install 30 Mvar capacitor at Main 161 kV bus	6/1/2017	6/1/2017
SPRM	MILL 161KV CAPACITOR	Install 30 Mvar capacitor at Mill 161 kV bus	6/1/2017	6/1/2017
SPRM	NEERGARD - NORTON 69KV CKT 1	Reconductor 636 ACSR with 477 ACSS/TW	6/1/2012	6/1/2012
SPRM	NORTON 161KV CAPACITOR	Install 30 Mvar capacitor at Norton 161 kV bus	6/1/2017	6/1/2017
SPRM	SUNSET 69KV CAPACITOR	30 Mvar Capacitor Bank at Sunset	6/1/2017	6/1/2017
SWPA	SCALCR - NORFORK 161KV CKT 1 SWPA	Replace buswork within bay and change metering CT ratio, replace wavetraps. Entry must also reconductor their line to increase the rating.	6/1/2009	6/1/2009
SWPA	BULL SHOALS - BULL SHOALS 161KV CKT 1	Replace buswork in Bull Shoals switchyard.	6/1/2009	6/1/2009
SWPA	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	Replace wave trap, disconnect switches, current transformers, and breaker. Bus will limit rating to 1340 amps.	6/1/2009	6/1/2009
SWPA	NIXA - NIXA DT2 69.000 69KV CKT 1	Reconductor 69kV line	6/1/2012	6/1/2012
SWPA	NIXA (NIXA X1) 161/69/13.8KV TRANSFORMER CKT 1	Replace with 70MVA transformer.	6/1/2012	6/1/2012
SWPA	NIXA 161KV CAP BANK	25Mvar Cap at Nixa	6/1/2017	6/1/2017
WEPL	CLAY CENTER - GREENLEAF 115KV CKT 1	Building a new 115 kV tie with Westar from Greenleaf to Clay Center	12/1/2007	6/1/2010
WEPL	HARPER 138KV Capacitor	Install 1 - 20 Mvar capacitor bank	6/1/2008	6/1/2010

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

WERE	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	Tear down / Rebuild 3.53-mile section of line, 556.5 kcmil ACSR	6/1/2008	6/1/2010
WERE	AUBURN ROAD (AUBRN7X) 230/115/13.8KV TRANSFORMER CKT 2	Add second Auburn 230-115 kV transformer.	6/1/2016	6/1/2016
WERE	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	Reset terminal equipment	12/1/2007	6/1/2010
WERE	CHASE - WHITE JUNCTION 69KV CKT 1	Tear down / Rebuild 7.3-mile Chase - White Junction 69 kV line. Replace existing 2/0 copper conductor with 795 kcmil ACSR conductor.	6/1/2008	6/1/2010
WERE	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	Rebuild Circle - HEC CT 115 kV line.	6/1/2012	6/1/2012
WERE	CIRCLE - RENO COUNTY 115KV CKT 2	Rebuild 6.25-miles	6/1/2009	6/1/2009
WERE	CIRCLE - SANDHILL ARK VALLEY CO-OP D.P. JUNCTION 115 KV CKT 1	Rebuild 4.8 miles	6/1/2012	6/1/2012
WERE	EAST MANHATTAN 115KV Capacitor	Install 1 - 30 MVar capacitor bank	6/1/2017	6/1/2017
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.	6/1/2014	6/1/2014
WERE	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1	Replace Disconnect Switches, Wavetrap, Breaker, Jumpers	6/1/2012	6/1/2012
WERE	FORT JUNCTION SWITCHING STATION - MCDOWELL CREEK SWITCHING STATION 115KV CKT 1	Rebuild 11-mile McDowell-Ft Junction 115 kV 1&2 with 1192.5 kcmil ACSR	6/1/2009	6/1/2010
WERE	Fort Scott - SW Bourbon 161 kV	Tap Litchfield-Marmaton 161 kV with new SW Bourbon Sub to Ft Scott, and new 161/69 kV transformer at Ft Scott.	6/1/2010	6/1/2010
WERE	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	Replace wave trap	6/1/2013	6/1/2013
WERE	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	Tear down and rebuild 28.79 mile HEC-Huntsville 115 kV line and replace CT, wavetrap and relays.	6/1/2017	6/1/2017
WERE	OXFORD 138KV Capacitor	Install 30 MVAR Capacitor Bank at Oxford 138 kV	6/1/2008	6/1/2010
WERE	ROSE HILL JUNCTION - WEAVER 69KV CKT 1	Rebuild 5.73 mile Weaver-Rose Hill Junction as a 138 kV line but operate at 69 kV.	6/1/2008	6/1/2010
WERE	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	Rebuild 4.1 miles and operate line closed	6/1/2012	6/1/2012
WERE	STRANGER CREEK - NW LEAVENWORTH 115KV	Rebuild 11.62-mile Jarbalo-NW Leavenworth 115 kV line and tap in & out of Stranger 115 kV	6/1/2017	6/1/2017
WERE	STRANGER CREEK TRANSFORMER CKT 2	Install second Stranger Creek 345-115 transformer	6/1/2009	6/1/2010
WERE	Summit - NE Saline 115 kV	Tear down 6.0-miles of Summit-Northview 115 kV, Build 6.0-mile double circuit Summit-Northview 115 kV and Build new 0.5-mile single circuit to Northview-South Gate double circuit and disconnect tower to Northview.	12/1/2007	6/1/2010
WERE	SW Manhattan 230/115 kV	Build SW Manhattan 230-115 kV substation; Convert SW Manhattan-McDowell Cree line to 230 kV operation; Build new SW Manhattan-E Manhattan 115 kV line	6/1/2016	6/1/2016
WERE	WEST MCPHERSON - WHEATLAND 115KV CKT 1	Tear down and rebuild 7.88 mile West McPherson-Wheatland 115 kV line.	6/1/2008	6/1/2010
WFEC	ACME - WEST NORMAN 69KV CKT 1	Reconductor 4 miles from 4/0 to 795 ACSR	6/1/2010	6/1/2010
WFEC	COLBERT - TEXOMA 138 KV CKT 1	Build new 138kV line from Colbert to Texoma	6/1/2012	6/1/2012
WFEC	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 WFEC	Replace switches and wavetrap at Franklin Switch to 2000A	6/1/2010	6/1/2010
WFEC	FRANKLIN SW 138/69KV TRANSFORMER CKT 1	Replace 70 MVA Auto with 112 MVA autotransformer (100 MVA base Rating). Upgrade 138 and 69 KV buswork and switches.	6/1/2010	6/1/2010
WFEC	HAMMETT - MEEKER 138KV CKT 1	Install 10 miles of 138 kV from MEEKER sub to Hammett Sub and install terminal equipment	6/1/2012	6/1/2012
WFEC	Norman Area Voltage Conversion	Convert Canadian - OU - Cole - Criner to 138 KV and Canadian-Goldsby-OU-W	6/1/2010	6/1/2010
WFEC	PAOLI 138/69KV TRANSFORMER CKT 1	Upgrade to 70 MVA	12/1/2012	12/1/2012
WFEC	RUSSETT - RUSSETT 138KV CKT 1 WFEC	Upgrade Terminal Equip CTs at Russett	6/1/2017	6/1/2017

Previously Assigned Aggregate Study Upgrades requiring credits to Previous Aggregate Study Custome

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Valliant 345 KV line terminal	5/1/2010	5/1/2010
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
WFEC	HUGO POWER PLANT - VALLIANT 345 KV WFEC	New 345/138 kv Auto, and 19 miles 345 KV	5/1/2010	5/1/2010

Table 5 - Third Party Facility Constraints

Transmission Owner	UpgradeName	Solution	Earliest Data Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
ENTR	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	Rebuild 17.96 miles of 250 Copperweld with 1272 ACSR.	6/1/2009	6/1/2010	Indeterminate
ENTR	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 ENTR	Rebuild 7.43 miles of 250 CWC with 795 ACSR	6/1/2009	6/1/2010	Indeterminate
AECI	CLINTON - OSCOLA 161KV CKT 1	Upgrade line to 100C	6/1/2017	6/1/2017	Indeterminate
AECI	GEORGETOWN - GEORGETOWN TAP 2 69KV CKT 1	Rebuild Georgetown tap to Georgetown 69 kV	5/1/2010	5/1/2010	\$ 160,000
AECI	GEORGETOWN - SEDALIA SUB 161.00 161KV CKT 1 AECI	New 161kV line from new plant site George Town, built for a bundled 795 26/7 ACSR	5/1/2010	5/1/2010	\$ 500,000
AECI	GEORGETOWN (GEORGETO) 161/69/13.2KV TRANSFORMER CKT 1	Replace transformer at Georgetown	6/1/2012	6/1/2012	\$ 1,000,000
AECI	GEORGETOWN TAP 2 - SEDALIA 69KV CKT 1	Rebuild Georgetown tap to Sedalia 69 kV	6/1/2012	6/1/2012	\$ 1,200,000
AECI	HUBEN (HUBEN) 345/161/13.8KV TRANSFORMER CKT 1	Indeterminate	6/1/2017	6/1/2017	Indeterminate
AECI	JAMESVILLE - NIXA #1 161KV CKT 1	Indeterminate	6/1/2017	6/1/2017	Indeterminate
AECI	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 AECI	Indeterminate	6/1/2012	6/1/2012	Indeterminate
AECI	JOHNSTON - PLATTE CITY 69KV CKT 1	Indeterminate	6/1/2012	6/1/2012	Indeterminate
AECI	MARYVILLE - MARYVILLE 161KV CKT 1 AECI	Indeterminate	6/1/2012	6/1/2012	Indeterminate
AECI	NIXA #1 - SPRINGFIELD 161KV CKT 1	Replace conductor with high ampacity 795 MCM ACSS conductor. No structure changes included.	6/1/2017	6/1/2017	Indeterminate
AECI	SARATOGA - SOUTHWEST CITY 69KV CKT 1	Indeterminate	6/1/2017	6/1/2017	Indeterminate
AECI	STILWELL 345/161KV TRANSFORMER CKT 1	Indeterminate	6/1/2017	6/1/2017	Indeterminate
AECI	THOMAS HILL (THOMAS H) 345/161/13.8KV TRANSFORMER CKT 1	Install 2nd 345/161 kV transformer	6/1/2017	6/1/2017	Indeterminate
AMRN	OVERTON - 345.00 (I) 345/161/13.8KV TRANSFORMER CKT 1	Indeterminate	12/1/2008	12/1/2008	Indeterminate
ENTR	SBEE BR - QUITMAN 161KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	SCALCR - NORFORK 161KV CKT 1 ENTR	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	SCLINTN - CLINTON WEST (AECC) 161KV CKT 1	Indeterminate	12/1/2012	12/1/2012	Indeterminate
ENTR	5FLIPN - BULL SHOALS HES 161KV CKT 1	Indeterminate	6/1/2017	6/1/2017	Indeterminate
ENTR	5HILLTOP 161.00 - 5ST JOE 161.00 161KV CKT 1	Indeterminate	6/1/2017	6/1/2017	Indeterminate
ENTR	SLEAD HL 161.00 - BULL SHOALS 161KV CKT 1 ENTR	Indeterminate	6/1/2017	6/1/2017	Indeterminate
ENTR	SST JOE 161.00 - EVERTON 161KV CKT 1	Indeterminate	10/1/2008	10/1/2008	Indeterminate
ENTR	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	EVERTON - HARRISON-EAST 161KV CKT 1	Indeterminate	10/1/2008	10/1/2008	Indeterminate
ENTR	HARRISON-EAST - SUMMIT 161KV CKT 1	Indeterminate	6/1/2012	6/1/2012	Indeterminate
ENTR	JONESBORO - JONESBORO NORTH (AECC) 161KV CKT 1	Indeterminate	6/1/2008	6/1/2008	Indeterminate
ENTR	JONESBORO NORTH (AECC) - PARAGOULD SOUTH (AECC) 161KV CKT 1	Indeterminate	6/1/2008	6/1/2008	Indeterminate
ENTR	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
INDN	SUBSTATION M 161/69KV TRANSFORMER CKT 1	Upgrade Transformer	6/1/2012	6/1/2012	Indeterminate