



*Aggregate Facility Study  
SPP-2008-AGP1-AFS-5  
For Transmission Service  
Requested by  
Aggregate Transmission Customers*

*SPP Engineering, SPP Tariff Studies*

SPP AGGREGATE FACILITY STUDY (SPP-2008-AGP1-AFS-5)

August 21, 2009

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## **1. Executive Summary**

Pursuant to Attachment Z1 of the Southwest Power Pool Open Access Transmission Tariff (OATT), 3581 MW of long-term transmission service requests have been restudied in this Aggregate Facility Study (AFS). The first phase of the AFS consisted of a revision of the impact study to reflect the withdrawal of requests for which an Aggregate Facility Study Agreement was not executed. The principal objective of the AFS is to identify system problems and potential modifications necessary to facilitate these transfers while maintaining or improving system reliability as well as summarizing the operating limits and determination of the financial characteristics associated with facility upgrades. Facility upgrade costs are allocated on a prorated basis to all requests positively impacting any individual overloaded facility. Further, Attachment Z2 provides for facility upgrade cost recovery by stating that “Transmission Customers paying Directly Assigned Upgrade Costs for Service Upgrades or that are in excess of the Safe Harbor Cost Limit for Network Upgrades associated with new or changed Designated Resources and Project Sponsors paying Directly Assigned Upgrade Costs for Sponsored Upgrades shall receive revenue credits in accordance with Attachment Z2. Generation Interconnection Customers paying for Network Upgrades shall receive credits for new transmission service using the facility as specified in Attachment Z1.”

The total assigned facility upgrade Engineering and Construction (E &C) cost determined by the AFS is \$20 Million. Additionally an indeterminate amount of assigned E & C cost for 3<sup>rd</sup> party facility upgrades are assignable to the customer. The total upgrade levelized revenue requirement for all transmission requests is \$ 50 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 \$22 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 August 21, 2009. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by September 5, 2009, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

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

If customers withdraw from the ATSS after posting of this AFS, the AFS will be re-performed to determine final cost allocation and Available Transmission Capability (ATC) in consideration of the remaining ATSS participants. All allocated revenue requirements for facility upgrades are assigned to the customer in the AFS data tables. Potential base plan funding allowable is contingent upon validation of designated resources meeting Attachment J, Section III B criteria.

## **2. Introduction**

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

Approximately 3581 MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$20 Million in transmission upgrades being proposed. The results of the AFS are detailed in Tables 1 through 7. A highly tangible benefit of studying transmission requests aggregately under the SPP OATT Attachment Z1 is the sharing of costs among customers using the same facility. The detailed results show individual upgrade costs by study as well as potential base plan allowances as determined by Attachments J and Z1. The following URL can be used to access the SPP OATT:

[http://www.spp.org/Publications/SPP\\_Tariff.pdf](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..
3. If the Designated Resource is a wind generation plant, then the sum of (1) the requested capacity and (2) the transmission capacity reserved for the Transmission Customer's existing Designated Resources that are wind generation plants shall not exceed 20% of the Transmission Customer's projected system peak responsibility as determined pursuant to SPP Criteria 2 in the first year the Designated Resource is planned to be used by the Transmission Customer.

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

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

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

Facilities identified as limiting the requested Transmission Service have been reviewed to determine the required in-service date of each Network Upgrade. The year that each Network Upgrade is required to accommodate a request is determined by interpolating between the applicable model years given the respective loading data. Both previously assigned facilities and the facilities assigned to this request for Transmission Service were evaluated.

In some instances due to lead times for engineering and construction, Network Upgrades may not be available when required to accommodate a request for Transmission Service. When this occurs, the ATC with available Network Upgrades will be less than the capacity requested during either a portion of or all of the requested reservation period. As a result, the lowest seasonal allocated ATC within the requested reservation period will be offered to the Transmission Customer on an applicable annual basis as listed in Table 1. The ATC may be limited by transmission owner planned projects, expansion plan projects, or customer assigned upgrades.

Some constraints identified in the AFS were not assigned to the Customer as the Transmission Provider determined that upgrades are not required due to various reasons or the Transmission Owner has construction plans pending for these upgrades. These facilities are listed by reservation in Table 3. This table also includes constrained facilities in the current planning horizon that limit the rollover rights of the Transmission Customer. Table 6 lists possible redispatch pairs to allow start of service prior to completion of assigned network upgrades. Table

7 (if applicable) lists deferment of expansion plan projects with different upgrades with the new required in service date as a result of this AFS.

#### **A. Financial Analysis**

The AFS utilizes the allocated customer E & C cost in a present worth analysis to determine the monthly levelized revenue requirement of each facility upgrade over the term of the reservation. In some cases, network upgrades cannot be completed within the requested reservation period, thus deferred reservation periods will be utilized in the present worth analysis. If the Customer chose Option 2, Redispatch, in the Letter of Intent sent coincident with the initial AFS, the present worth analysis of revenue requirements will be based on the deferred term with redispatch in the subsequent AFS. The upgrade levelized revenue requirement includes interest, depreciation, and carrying costs.

Each request for Transmission Service is evaluated independently as the cost associated with each Network Upgrade is assigned to a request. When facilities are upgraded throughout the reservation period, the Transmission Customer shall 1) pay the total E & C costs and other annual operating costs associated with the new facilities, and 2) receive credits associated with the depreciated book value of removed usable facilities, salvage value of removed non-usable facilities, and the carrying charges, excluding depreciation, associated with all removed usable facilities based on their respective book values.

In the event that the engineering and construction of a previously assigned Network Upgrade may be expedited, with no additional upgrades, to accommodate a new request for Transmission Service, then the levelized present worth of only the incremental expenses though the reservation period of the new request, excluding depreciation, shall be assigned to the new request. These incremental expenses, excluding depreciation, include 1) the levelized difference in present worth of the engineering and construction expenses given the change in date to complete construction to account for additional interest expense and reduced engineering and construction



expense due to inflation, 2) the levelized present worth of all expediting fees, and 3) the levelized present worth of the incremental annual carrying charges, excluding depreciation and interest, during the new reservation period taking into account both a) the reservation in which the project was originally assigned, and b) a reservation, if any, in which the project was previously 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 3<sup>rd</sup> Party Owner detailing the mitigation of the 3<sup>rd</sup> 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 3<sup>rd</sup> party facilities for load that sinks outside the SPP footprint with the applicable Transmission Providers.

### **3. Study Methodology**

#### **A. Description**

The system impact analysis was conducted to determine the steady-state impact of the requested service on the SPP and first tier Non - SPP control area systems. The steady-state analysis was done to ensure current SPP Criteria and NERC Reliability Standards requirements are fulfilled. The Southwest Power Pool conforms to the NERC Reliability Standards, which provide the strictest requirements, related to voltage violations and thermal overloads during normal conditions and during a contingency. It requires that all facilities be within normal operating

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

The contingency set includes all SPP control area branches and ties 69kV and above, first tier Non - SPP control area branches and ties 115 kV and above, any defined contingencies for these control areas, and generation unit outages for the control areas with SPP reserve share program redispatch. The monitor elements include all SPP control area branches, ties, and buses 69 kV and above, and all first tier Non – SPP control area branches and ties 115 kV and above. Voltage monitoring was performed for SPP control area buses 69 kV and above.

A 3 % transfer distribution factor (TDF) cutoff was applied to all SPP control area facilities. For first tier Non – SPP control area facilities, a 3 % TDF cutoff was applied to AECl, AMRN, and ENTR and a 2 % TDF cutoff was applied to MEC, NPPD, and OPPD. For voltage monitoring, a 0.02 per unit change in voltage must occur due to the transfer or modeling upgrades to be considered a valid limit to the transfer.

## **B. Model Development**

SPP used seven seasonal models to study the aggregate transfers of 3581 MW over a variety of requested service periods. The SPP STEP 2009 Build 3 Series Cases 2010 Summer Peak (10SP), 2010/11 Winter Peak (11WP), 2011 Summer Peak (11SP), 2011/12 Winter Peak (11WP), 2014 Summer Peak (14SP), 2014/15 Winter Peak (14WP), and 2019 Summer Peak (19SP) were used to study the impact of the requested service on the transmission system. The

Spring Peak models apply to April and May, the Summer Peak models apply to June through September, the Fall Peak models apply to October and November, and the Winter Peak models apply to December through March.

The chosen base case models were modified to reflect the most current modeling information. Five groups of requests were developed from the aggregate of 3581 MW in order to minimize counter flows among requested service. Each request was included in at least two of the four groups depending on the requested path. All requests were included in group five. From the twelve seasonal models, five system scenarios were developed. Scenario 1 includes SWPP OASIS transmission requests not already included in the SPP 2009 Series Cases flowing in a West to East direction with ERCOTN HVDC Tie South to North, ERCOTE HVDC Tie East to West, SPS exporting, and SPS importing from the Lamar HVDC Tie. Scenario 2 includes transmission requests not already included in the SPP 2009 Series Cases flowing in an East to West direction with ERCOTN HVDC tie North to South, ERCOTE HVDC tie East to West, SPS importing, and SPS exporting to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPP 2009 Series Cases flowing in a South to North direction with ERCOTN HVDC tie South to North, ERCOTE HVDC tie East to West, SPS exporting, and SPS exporting to the Lamar HVDC Tie. Scenario 4 includes transmission requests not already included in the SPP 2009 Series Cases flowing in a North to South direction with ERCOTN HVDC tie North to South, ERCOTE HVDC tie East to West, SPS importing, and SPS importing from the Lamar HVDC tie. Scenario 5 include all transmission not already included in the SPP 2009 Series Cases with ERCOTN North to South, ERCOTE East to West, SPS importing and SPS exporting to the Lamar HVDC tie. The system scenarios were developed to minimize counter flows from previously confirmed, higher priority requests not included in the MDWG Base Case.

### **C. Transmission Request Modeling**

Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to Generation to Generation transfers. The Generation to Load modeling is accomplished by developing a pre-transfer case by redispatching the existing designated network resource(s) down by the new designated network resource request amount and scaling down the applicable network load by the same amount proportionally. The post-transfer case for comparison is developed by scaling the network load back to the forecasted amount and dispatching the new designated network resource being requested. Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to Generation to Generation because the requested Network Integration Transmission Service is a request to serve network load with the new designated network resource and the impacts on transmission system are determined accordingly. If the Network Integration Transmission Service request application clearly documents that the existing designated network resource(s) is being replaced or undesignated by the new designated network resource then MW impact credits will be given to the request as is done for a redirect of existing transmission service. Point-To-Point Transmission Service requests are modeled as Generation to Generation transfers. Generation to Generation transfers are accomplished by developing a post-transfer case for comparison by dispatching the request source and redispatching the request sink.

### **D. Transfer Analysis**

Using the selected cases both with and without the requested transfers modeled, the PSS/E Activity ACCC was run on the cases and compared to determine the facility overloads caused or impacted by the transfer. Transfer distribution factor cutoffs (SPP and 1<sup>st</sup>-Tier) and voltage threshold (0.02 change) were applied to determine the impacted facilities. The PSS/E options chosen to conduct the analysis can be found in Appendix A.

## **E. Curtailment and Redispatch Evaluation**

During any period when SPP determines that a transmission constraint exists on the Transmission System, and such constraint may impair the reliability of the Transmission System, SPP will take whatever actions that are reasonably necessary to maintain the reliability of the Transmission System. To the extent SPP determines that the reliability of the Transmission System can be maintained by redispatching resources, SPP will evaluate interim curtailment of existing confirmed service or interim redispatch of units to provide service prior to completion of any assigned network upgrades. Any redispatch may not unduly discriminate between the Transmission Owners' use of the Transmission System on behalf of their Native Load Customers and any Transmission Customer's use of the Transmission System to serve its designated load. Redispatch was evaluated to provide only interim service during the time frame prior to completion of any assigned network upgrades. Curtailment of existing confirmed service is evaluated to provide only interim service. Curtailment of existing confirmed service is only evaluated at the request of the transmission customer.

SPP determined potential relief pairs to relieve the incremental MW impact on limiting facilities as identified in Table 6. Using the selected cases where the limiting facilities were identified, potential incremental and decremental units were identified by determining the generation amount available for increasing and decreasing from the units generation amount, maximum generation amount, and minimum generation amount. If the incremental or decremental amount was greater than 1 MW, the unit was considered as a potential incremental or decremental unit. Generation shift factors were calculated for the potential incremental and decremental units using Managing and Utilizing System Transmission (MUST). Relief pairs from the generation shift factors for the incremental and decremental units with a greater than 3% TDF on the limiting constraint were determined from the incremental units with the lowest generation shift factors and decremental units with highest generation shift factors. If the aggregate redispatch amount for the potential relief pair was determined to be three times greater than the lower of the

increment or decrement then the pair was determined not to be feasible and is not included. If transmission customer would like to see additional relief pairs beyond the relief pairs determined, the transmission customer can request SPP to provide the additional pairs. The potential relief pairs **were not** evaluated to determine impacts on limiting facilities in the SPP and 1st-Tier systems. The redispatch requirements would be called upon prior to implementing NERC TLR Level 5a.

#### **4. Study Results**

##### **A. Study Analysis Results**

Tables 1 through 6 contain the steady-state analysis results of the AFS. Table 1 identifies the participating long-term transmission service requests included in the AFS. This table lists deferred start and stop dates both with and without redispatch (based on customer selection of redispatch if available), the minimum annual allocated ATC without upgrades and season of first impact. Table 2 identifies total E & C cost allocated to each Transmission Customer, letter of credit requirements, third party E & C cost assignments, potential base plan E & C funding (lower of allocated E & C or Attachment J Section III B criteria) , total revenue requirements for assigned upgrades without consideration of potential base plan funding, point-to-point base rate charge, total revenue requirements for assigned upgrades with consideration of potential base plan funding, and final total cost allocation to the Transmission Customer. In addition, Table 2 identifies SWPA upgrade costs which require prepayment in addition to other allocated costs. Table 3 provides additional details for each request including all assigned facility upgrades required, allocated E & C costs, direct assignment component of upgrades for wind generation requests per Attachment J, allocated revenue requirements for upgrades, upgrades not assigned to customer but required for service to be confirmed, credits to be paid for previously assigned AFS or GI network upgrades, and any third party upgrades required. Table 4 lists all upgrade requirements with associated solutions needed to provide transmission service for the AFS, Minimum ATC per upgrade with season of impact, Earliest Date Upgrade is required (DUN),

Estimated Date the upgrade will be completed and in service (EOC), and Estimated E & C cost. Table 5 lists identified Third-Party constrained facilities. Table 6 identifies potential redispatch pairs available to relieve the aggregate impacts on identified constraints to prevent deferral of start of service. Table 7 (if applicable) identifies deferred expansion plan projects that were replaced with requested upgrades at earlier dates.

The potential base plan funding allowable is contingent upon meeting each of the conditions for classifying upgrades associated with designated resources as base plan upgrades as defined in Section III.B of Attachment J. If the additional capacity of the new or changed designated resource exceeds the 125% resource to load forecast for the year of start of service, the requested resource is not eligible for base plan funding of required network upgrades and the full cost of the upgrades is assignable to the customer. Additionally, if the request is for wind generation, the total requested capacity of wind generation plus existing transmission capacity reserved for wind generation shall not exceed 20% of the Customer's projected system peak responsibility in the first year the Designated Resource is planned to be used by the Customer. If the 5 year term and 125% resource to load criteria are met, (as well as the 20% wind resource to load criteria for wind generation requests) the requested capacity is multiplied by \$180,000 to determine the potential base plan funding allowable. The Maximum Potential Base Plan Funding Allowable may be less than the potential base plan funding allowable due to the E & C Cost allocated to the customer being lower than the potential amount allowable to the customer. The customer is responsible for any assigned upgrade costs in excess of Potential Base Plan Engineering and Construction Funding Allowable. Network upgrades required for wind generation requests located in a zone other than the customer POD shall be allocated as 67% Base Plan Region wide charge and 33% directly assigned to the customer.

Regarding application of base plan funding for PTP requests, if PTP base rate exceeds upgrade revenue requirements without taking into effect the reduction of revenue requirements by



potential base plan funding, then the base rate revenue pays back the Transmission Owner for upgrades and no base plan funding is applicable as the access charge must be paid as it is the higher of “OR” pricing.

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

Example A:

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

Example B:

E & C allocated for upgrades is 74 million with revenue requirements of 140 million and PTP base rate of 101 million. Potential base plan funding is 10 million with the difference of 64 million E & C assignable to the customer. If the revenue requirements for this assignable portion is 128 million and the PTP base rate is 101 million the customer will pay the higher “OR” pricing of 128 million revenue requirements to be paid back to the Transmission Owners and the remaining revenue requirements of (140-128) or 12 million will be paid by base plan funding.

Example C:

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

The 125% resource to load determination is performed on a per request basis and is not based on a total of designated resource requests per Customer. A footnote will provide the maximum resource designation allowable for base plan funding consideration per Customer basis per year based on the Customer Network Resource forecast.

Base plan funding verification requires that each Transmission Customer with potential for base plan funding provide SPP attestation statements verifying that the firm capacity of the requested designated resource meets OATT Section 29.2 requirements.

## **B. Study Definitions**

The Date Upgrade Needed Date (DUN) is the earliest date the upgrade is required to alleviate a constraint considering all requests. End of Construction (EOC) is the estimated date the upgrade will be completed and in service. The Total Engineering and Construction Cost (E & C) is the upgrade solution cost as determined by the transmission owner. The Transmission Customer Allocation Cost is the estimated engineering and construction cost based upon the allocation of costs to all Transmission Customers in the AFS who positively impact facilities by at least 3% subsequently overloaded by the AFS. Minimum ATC is the portion of the requested capacity that can be accommodated with out upgrading facilities. Annual ATC allocated to the Transmission Customer is determined by the least amount of allocated seasonal ATC within each year of a reservation period.

## 5. Conclusion

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

The Transmission Provider will tender a Letter of Intent on August 21, 2009. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by September 15, 2009, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

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

## 6. Appendix A

### PSS/E CHOICES IN RUNNING LOAD FLOW PROGRAM AND ACCC

#### BASE CASES:

Solutions - Fixed slope decoupled Newton-Raphson solution (FDNS)

Tap adjustment – Stepping

Area interchange control – Tie lines and loads

Var limits – Apply immediately

Solution options -  Phase shift adjustment

Flat start

Lock DC taps

Lock switched shunts

#### ACCC CASES:

Solutions – AC contingency checking (ACCC)

MW mismatch tolerance – 0.5

Contingency case rating – Rate B

Percent of rating – 100

Output code – Summary

Min flow change in overload report – 3mw

Excl'd cases w/ no overloads form report – YES

Exclude interfaces from report – NO

Perform voltage limit check – YES

Elements in available capacity table – 60000

Cutoff threshold for available capacity table – 99999.0

Min. contng. case Vltg chng for report – 0.02

Sorted output – None

Newton Solution:

Tap adjustment – Stepping

Area interchange control – Tie lines and loads

Var limits - Apply automatically

Solution options -  Phase shift adjustment

Flat start

Lock DC taps

Lock switched shunts

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

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date without interim redispatch	Deferred Stop Date without interim redispatch	Start Date with interim redispatch	Stop Date with interim redispatch	Minimum Allocated ATC (MW) with reservation period	Season of Minimum Allocated ATC within reservation period
AEPM	AG2-2008-072	1458765	CSWS	EES	22	1/1/2009	1/1/2014	6/1/2013	6/1/2018	6/1/2013	6/1/2018		09SP
AEPM	AG2-2008-073	1458766	SPS	CSWS	65	6/1/2009	6/1/2029	6/1/2013	6/1/2033	6/1/2013	6/1/2033		09SP
AEPM	AG2-2008-073	1458767	SPS	CSWS	15	6/1/2009	6/1/2029	6/1/2013	6/1/2033	6/1/2013	6/1/2033		09SP
CALP	AG1-2008-010	1393818	CSWS	ERCOTE	50	1/1/2009	1/1/2019	6/1/2013	1/1/2019				09SP
CALP	AG1-2008-010	1393823	CSWS	ERCOTE	50	1/1/2009	1/1/2019	6/1/2013	1/1/2019				09SP
CALP	AG1-2008-010	1393830	CSWS	ERCOTE	50	1/1/2009	1/1/2019	6/1/2013	1/1/2019				09SP
CALP	AG1-2008-010	1393837	CSWS	ERCOTE	50	1/1/2009	1/1/2019	6/1/2013	1/1/2019				09SP
CALP	AG1-2008-010	1393838	CSWS	ERCOTE	50	1/1/2009	1/1/2019	6/1/2013	1/1/2019				09SP
GRDX	AG1-2008-024	1405543	OKGE	GRDA	157	1/1/2009	1/1/2014	6/1/2012	6/1/2017	6/1/2012	6/1/2017		09SP
INDP	AG2-2008-051	1458202	INDN	KCPL	9	1/1/2009	1/1/2011	6/1/2015	6/1/2017				09SP
INDP	AG2-2008-052	1458207	WR	INDN	15	1/1/2009	1/1/2029	6/1/2015	6/1/2035				09SP
INDP	AG2-2008-053	1458487	OPPD	INDN	2	6/1/2009	6/1/2049	6/1/2015	6/1/2055				09SP
KCPS	AG1-2008-029	1405741	WR	KCPL	20	5/1/2011	5/1/2025	6/1/2015	6/1/2029	5/1/2011	5/1/2025		11SP
KCPS	AG2-2008-070	1458727	WPEK	KCPL	50	9/1/2009	9/1/2013	6/1/2015	6/1/2019	12/1/2009	12/1/2013		10SP
KCPS	AG2-2008-070	1458728	WPEK	KCPL	50	9/1/2009	9/1/2013	6/1/2015	6/1/2019	12/1/2009	12/1/2013		10SP
KCPS	AG2-2008-071	1458732	KCPL	KCPL	101	9/1/2009	9/1/2019	6/1/2015	6/1/2025	12/1/2009	12/1/2019		10SP
KEPC	AG1-2008-036	1405798	WR	WR	3	5/1/2011	5/1/2018	6/1/2013	6/1/2020				11SP
KMEA	AG1-2008-013	1394351	GRDA	WR	1	5/1/2010	5/1/2015	10/1/2012	10/1/2017				10SP
KMEA	AG1-2008-039	1405809	GRDA	SECI	2	5/1/2010	5/1/2026	6/1/2013	6/1/2029				10SP
KMEA	AG2-2008-040	1457913	GRDA	SECI	13	5/1/2009	5/1/2027	6/1/2013	6/1/2031				09SP
KMEA	AG2-2008-044	1458109	GRDA	WR	2	5/1/2009	5/1/2027	6/1/2015	6/1/2033				09SP
KPP	AG1-2008-015	1403992	WR	WR	13	6/1/2008	6/1/2017	6/1/2013	6/1/2022	12/1/2009	12/1/2018		09SP
KPP	AG1-2008-015	1403993	WR	WR	3	6/1/2008	6/1/2017	6/1/2013	6/1/2022	12/1/2009	12/1/2018		09SP
KPP	AG1-2008-015	1403996	WR	WR	6	6/1/2008	6/1/2017	6/1/2013	6/1/2022	12/1/2009	12/1/2018		09SP
KPP	AG1-2008-017	1404448	WR	WR	4	6/1/2008	6/1/2018	6/1/2013	6/1/2023	12/1/2009	12/1/2019		09SP
KPP	AG2-2008-037	1457536	GRDA	WR	4	1/1/2009	1/1/2026	6/1/2012	6/1/2029	12/1/2009	12/1/2026		09SP
KPP	AG2-2008-038	1457802	WPEK	WPEK	3	11/1/2008	11/1/2013	6/1/2013	6/1/2018	12/1/2009	12/1/2014		09SP
KPP	AG2-2008-054	1458533	WR	WR	11	10/1/2008	10/1/2018	6/1/2015	6/1/2025	12/1/2009	12/1/2019		09SP
MIDW	AG1-2008-019	1404845	WR	WR	24	1/1/2009	1/1/2029	6/1/2013	6/1/2033	12/1/2009	12/1/2029		09SP
MIDW	AG1-2008-019	1404848	WR	WR	25	1/1/2009	1/1/2029	6/1/2013	6/1/2033	12/1/2009	12/1/2029		09SP
MIDW	AG1-2008-032	1405764	NPPD	WR	25	4/1/2011	4/1/2031	6/1/2015	6/1/2035	6/1/2013	6/1/2033		11SP
MIDW	AG1-2008-032	1405765	NPPD	WR	15	4/1/2011	4/1/2031	6/1/2015	6/1/2035	6/1/2013	6/1/2033		11SP
MIDW	AG1-2008-032	1405766	NPPD	WR	10	4/1/2011	4/1/2031	6/1/2015	6/1/2035	6/1/2013	6/1/2033		11SP
MIDW	AG1-2008-032	1405768	NPPD	WR	5	4/1/2011	4/1/2031	6/1/2015	6/1/2035	6/1/2013	6/1/2033		11SP
OGE	AG1-2008-018	1404463	OKGE	OKGE	120	8/31/2009	8/31/2034	6/1/2013	6/1/2038				10SP
OGE	AG1-2008-027	1405664	OKGE	OKGE	648	6/1/2008	6/1/2028	6/1/2013	6/1/2033				09SP
OGE	AG2-2008-017	1454686	OKGE	WFEC	28	10/1/2008	10/1/2028	6/1/2012	6/1/2032				09SP
OMPA	AG1-2008-021	1404908	OKGE	OKGE	155	10/1/2008	10/1/2028	6/1/2013	6/1/2033	12/1/2009	12/1/2029		09SP
SEPC	AG1-2008-037	1405823	SECI	SECI	1175	6/1/2008	6/1/2028	6/1/2013	6/1/2033	12/1/2009	12/1/2029		09SP
SPSM	AG1-2008-034	1405785	EES	EDDY	50	1/1/2010	1/1/2013	6/1/2013	6/1/2016				10SP
SPSM	AG1-2008-035	1405792	EES	BLKW	50	3/1/2009	3/1/2012	6/1/2013	6/1/2016				09SP
WRGS	AG1-2008-028	1405690	WR	WR	20	5/1/2011	5/1/2018	6/1/2013	6/1/2020	5/1/2011	5/1/2018		11SP
WRGS	AG2-2008-006	1431605	EES	SPA	8	3/1/2010	3/1/2040	6/1/2013	6/1/2043				10SP
WRGS	AG2-2008-034	1457037	WR	WR	174	1/4/2019	1/4/2029	1/4/2019	1/4/2029				19SP
WRGS	AG2-2008-035	1457044	WR	WR	61	1/1/2014	1/1/2024	6/1/2015	6/1/2025				19SP
WRGS	AG2-2008-036	1457049	WR	WR	167	6/1/2010	6/1/2020	6/1/2015	6/1/2025	6/1/2010	6/1/2020		10SP

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**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 2009 Summer Shoulder, and 2009 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 possible.

**Note 3:** Start dates with and without redispatch are based on the assumed completion dates of previous Aggregate Transmission Service Studies currently being conducted. Actual start dates may differ from the potential start dates upon completion of the previous studies.

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

Customer	Study Number	Reservation	Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	<sup>1</sup> Letter of Credit Amount Required	<sup>2</sup> Potential Base Plan Engineering and Construction Funding Allowable	Notes	<sup>4</sup> Additional Engineering and Construction Cost for 3rd Party Upgrades	<sup>3</sup> Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITHOUT Potential Base Plan Funding Allocation	<sup>3,5</sup> Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITH Potential Base Plan Funding Allocation	Point-to-Point Base Rate Over Reservation Period	<sup>4</sup> Total Cost of Reservation Assignable to Customer Contingent Upon Base Plan Funding
AEPM	AG2-2008-072	1458765	\$ 108,405	\$ -	\$ -		Indeterminate	\$ 236,599	\$ 236,599	\$ -	\$ 236,599
AEPM	AG2-2008-073	1458766	\$ 85,012	\$ 28,337	\$ 56,675		Indeterminate	\$ 345,427	\$ 115,142	\$ -	\$ 115,142
AEPM	AG2-2008-073	1458767	\$ 19,618	\$ 6,539	\$ 13,079		Indeterminate	\$ 79,713	\$ 26,571	\$ -	\$ 26,571
CALP	AG1-2008-010	1393818	\$ 547,990	\$ 547,990	\$ -		Indeterminate	\$ 1,222,677	\$ 1,222,677	\$ 9,406,800	\$ 9,406,800
CALP	AG1-2008-010	1393823	\$ 547,990	\$ 547,990	\$ -		Indeterminate	\$ 1,222,677	\$ 1,222,677	\$ 9,406,800	\$ 9,406,800
CALP	AG1-2008-010	1393830	\$ 547,990	\$ 547,990	\$ -		Indeterminate	\$ 1,222,677	\$ 1,222,677	\$ 9,406,800	\$ 9,406,800
CALP	AG1-2008-010	1393837	\$ 547,990	\$ 547,990	\$ -		Indeterminate	\$ 1,222,677	\$ 1,222,677	\$ 9,406,800	\$ 9,406,800
CALP	AG1-2008-010	1393838	\$ 547,990	\$ 547,990	\$ -		Indeterminate	\$ 1,222,677	\$ 1,222,677	\$ 9,406,800	\$ 9,406,800
GRDX	AG1-2008-024	1405543	\$ 1,529,437	\$ 1,529,437	\$ -	8	Indeterminate	\$ 3,333,736	\$ 3,333,736	\$ -	\$ 3,333,736
INDP	AG2-2008-051	1458202	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 190,080	\$ 190,080
INDP	AG2-2008-052	1458207	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 3,168,000	\$ 3,168,000
INDP	AG2-2008-053	1458487	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 844,800	\$ 844,800
KCPS	AG1-2008-029	1405741	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ -	Schedule 9 Charges
KCPS	AG2-2008-070	1458727	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 2,112,000	\$ 2,112,000
KCPS	AG2-2008-070	1458728	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 2,112,000	\$ 2,112,000
KCPS	AG2-2008-071	1458732	\$ 8,212,826	\$ 2,737,609	\$ 5,475,217		Indeterminate	\$ 17,007,267	\$ 5,669,089	\$ -	\$ 5,669,089
KEPC	AG1-2008-036	1405798	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
KMEA	AG1-2008-013	1394351	\$ 673,252	\$ 493,252	\$ 180,000		\$ -	\$ 1,466,530	\$ 1,074,440	\$ 143,940	\$ 1,074,440
KMEA	AG1-2008-039	1405809	\$ -	\$ -	\$ -	7	\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
KMEA	AG2-2008-040	1457913	\$ 1,748	\$ -	\$ 1,748		\$ -	\$ 8,651	\$ -	\$ -	Schedule 9 Charges
KMEA	AG2-2008-044	1458109	\$ 319	\$ 319	\$ -		\$ -	\$ 1,899	\$ 1,899	\$ 1,036,368	\$ 1,036,368
KPP	AG1-2008-015	1403992	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
KPP	AG1-2008-015	1403993	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
KPP	AG1-2008-015	1403996	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
KPP	AG1-2008-017	1404448	\$ 2,814,026	\$ 2,202,026	\$ 612,000		\$ -	\$ 5,827,335	\$ 4,559,995	\$ -	\$ 4,559,995
KPP	AG2-2008-037	1457536	\$ 608	\$ -	\$ 608	7	\$ -	\$ 2,112	\$ -	\$ -	Schedule 9 Charges
KPP	AG2-2008-038	1457802	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
KPP	AG2-2008-054	1458533	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
MIDW	AG1-2008-019	1404845	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
MIDW	AG1-2008-019	1404848	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
MIDW	AG1-2008-032	1405764	\$ -	\$ -	\$ -	9	Indeterminate	\$ -	\$ -	\$ -	Schedule 9 Charges
MIDW	AG1-2008-032	1405765	\$ -	\$ -	\$ -	9	Indeterminate	\$ -	\$ -	\$ -	Schedule 9 Charges
MIDW	AG1-2008-032	1405766	\$ -	\$ -	\$ -	9	Indeterminate	\$ -	\$ -	\$ -	Schedule 9 Charges
MIDW	AG1-2008-032	1405768	\$ -	\$ -	\$ -	9	Indeterminate	\$ -	\$ -	\$ -	Schedule 9 Charges

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

Customer	Study Number	Reservation	Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	<sup>1</sup> Letter of Credit Amount Required	<sup>2</sup> Potential Base Plan Engineering and Construction Funding Allowable	Notes	<sup>4</sup> Additional Engineering and Construction Cost for 3rd Party Upgrades	<sup>3</sup> Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITHOUT Potential Base Plan Funding Allocation	<sup>3,5</sup> Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITH Potential Base Plan Funding Allocation	Point-to-Point Base Rate Over Reservation Period	<sup>4</sup> Total Cost of Reservation Assignable to Customer Contingent Upon Base Plan Funding
OGE	AG1-2008-018	1404463	\$ 82,668	\$ -	\$ 82,668		Indeterminate	\$ 510,794	\$ -	\$ -	Schedule 9 Charges
OGE	AG1-2008-027	1405664	\$ 2,012,571	\$ -	\$ 2,012,571		Indeterminate	\$ 10,647,613	\$ -	\$ -	Schedule 9 Charges
OGE	AG2-2008-017	1454686	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
OMPA	AG1-2008-021	1404908	\$ 1,168,855	\$ -	\$ 1,168,855		\$ -	\$ 3,861,474	\$ -	\$ -	Schedule 9 Charges
SEPC	AG1-2008-037	1405823	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
SPSM	AG1-2008-034	1405785	\$ 90,380	\$ 33,332	\$ -		Indeterminate	\$ 187,014	\$ 187,014	\$ 3,160,800	\$ 3,160,800
SPSM	AG1-2008-035	1405792	\$ 96,514	\$ 33,192	\$ -		Indeterminate	\$ 201,025	\$ 201,025	\$ 3,160,800	\$ 3,160,800
WRGS	AG1-2008-028	1405690	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
WRGS	AG2-2008-006	1431605	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 2,736,000	\$ 2,736,000
WRGS	AG2-2008-034	1457037	\$ -	\$ -	\$ -	8	\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
WRGS	AG2-2008-035	1457044	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
WRGS	AG2-2008-036	1457049	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
Grand Total			\$ 19,636,190					\$ 49,830,574	\$ 21,518,895		

**Note 1:** Letter of Credit required for financial security for transmission owner for network upgrades is determined by allocated engineering and construction costs less engineering and construction costs for upgrades when network customer is the transmission owner less the E & C allocation of expedited projects. Letter of Credit is not required for upgrades fully funded by PTP base rate or base plan funding. The Letter Of Credit Amount listed is based on meeting OATT Attachment J requirements for base plan funding.

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

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

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

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

**Note 6.** Mutually exclusive with request 1457049. Base Plan funding not available for both requests.

**Note 7.** Resource for pool of cities only.

**Note 8.** Resource forecast exceeds 125% of load thus no base plan funding

**Note 9.** Base Plan Funding for up to 393MW of resources in 2011

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

Customer Study Number  
 AEPM AG2-2008-072

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1458765	CSWS	EES	22	1/1/2009	1/1/2014	6/1/2013	6/1/2018	\$ -	\$ -	\$ 108,405	\$ 236,599
									\$ -	\$ -	\$ 108,405	\$ 236,599

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1458765	BETHEL - BROKEN BOW 138KV CKT 1	6/1/2011	6/1/2012			\$ -	\$ -	\$ -
	BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1	6/1/2015	6/1/2015			\$ 108,405	\$ 4,600,000	\$ 236,599
Total						\$ 108,405	\$ 4,600,000	\$ 236,599

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458765	BLUEBELL - PRATTVILLE 138KV CKT 1 AEPW	6/1/2015	6/1/2015		
	BLUEBELL - PRATTVILLE 138KV CKT 1 OKGE	6/1/2015	6/1/2015		
	BROADMOOR - FERN STREET 69KV CKT 1	6/1/2011	6/1/2012		
	CARNEGIE - HOBART JUNCTION 138KV CKT 1	6/1/2010	6/1/2013		
	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1	6/1/2010	6/1/2012		
	CLINTON - CLINTON JUNCTION 138KV CKT 1 AEPW	6/1/2015	6/1/2015		
	CLINTON - CLINTON JUNCTION 138KV CKT 1 WFEC	6/1/2015	6/1/2015		
	COLONY - FT SMITH 161KV CKT 1	6/1/2010	6/1/2012		
	ERICK 138KV CAPICITOR	6/1/2015	6/1/2015		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HOSSTON - RODESSA 69KV CKT 1	6/1/2011	6/1/2011		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	RUSSETT - RUSSETT 138KV CKT 1 OKGE	6/1/2010	6/1/2012		No
	RUSSETT - RUSSETT 138KV CKT 1 WFEC	6/1/2010	6/1/2010		
	SAND SPRINGS - SHEFFIELD 138KV CKT 1	6/1/2015	6/1/2015		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458765	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458765	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MENARD REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SE TEXARKANA - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUGAR HILL - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		



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

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1458765	4FISHERTP 138.00 - KEYSTONE DAM 138KV CKT 1	6/1/2011	6/1/2012		No	\$ 36,886	\$ 500,000
	CARROLL - RINGGOLD 138KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011		Yes	\$ -	\$ -
					Total	\$ 36,886	\$ 500,000

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

Customer Study Number  
 AEPM AG2-2008-073

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1458766	SPS	CSWS	65	6/1/2009	6/1/2029	6/1/2013	6/1/2033	\$ 56,675	\$ -	\$ 85,012	\$ 345,427
AEPM	1458767	SPS	CSWS	15	6/1/2009	6/1/2029	6/1/2013	6/1/2033	\$ 13,079	\$ -	\$ 19,618	\$ 79,713
									\$ 69,754	\$ -	\$ 104,630	\$ 425,140

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1458766	MANHATTAN SUB - MANHATTAN TAP 115KV CKT 1	6/1/2014	6/1/2014			\$ -	\$ -	\$ -	\$ -	\$ -
	MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1	6/1/2010	6/1/2011			\$ 56,675	\$ 28,337	\$ 85,012	\$ 225,000	\$ 345,427
	Total					\$ 56,675	\$ 28,337	\$ 85,012	\$ 225,000	\$ 345,427
1458767	MANHATTAN SUB - MANHATTAN TAP 115KV CKT 1	6/1/2014	6/1/2014			\$ -	\$ -	\$ -	\$ -	\$ -
	MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1	6/1/2010	6/1/2011			\$ 13,079	\$ 6,539	\$ 19,618	\$ 225,000	\$ 79,713
	Total					\$ 13,079	\$ 6,539	\$ 19,618	\$ 225,000	\$ 79,713

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458766	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1	6/1/2010	6/1/2012		
	CHERRY SUB 230/115 KV TRANSFORMER CKT 1	6/1/2011	6/1/2012		Yes
	DEAF SMITH - PANDA 115 KV CKT 1	6/1/2010	6/1/2012		Yes
	EAST PLANT CAPACITOR	6/1/2010	6/1/2012		Yes
	EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1	6/1/2010	6/1/2012		Yes
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HASTINGS 115 KV CONVERSION	6/1/2011	6/1/2013		Yes
	KRESS CAPACITOR	6/1/2015	6/1/2015		
	MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1 Reconductor	6/1/2011	6/1/2012		Yes
	NEWHART 230/115 KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	NEWHART INTERCHANGE PROJECT	6/1/2011	6/1/2013		Yes
	NICHOLS - RANDALL - AMARILLO SOUTH 230 KV CKT 1	6/1/2010	6/1/2013		Yes
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	RANDALL 230/115 KV TRANSFORMER CKT 2	6/1/2010	6/1/2013		Yes
	RUSSETT - RUSSETT 138KV CKT 1 OKGE	6/1/2010	6/1/2012		Yes
	RUSSETT - RUSSETT 138KV CKT 1 WFEC	6/1/2010	6/1/2010		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		No
	SOUTH PLAINS REC-YUMA - WOLFFORTH INTERCHANGE 115KV CKT 1	6/1/2010	6/1/2012		Yes
	SWISHER CAPACITOR	6/1/2015	6/1/2015		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	1458767	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1	6/1/2010	6/1/2012	
CHERRY SUB 230/115 KV TRANSFORMER CKT 1		6/1/2011	6/1/2012		Yes
DEAF SMITH - PANDA 115 KV CKT 1		6/1/2010	6/1/2012		
EAST PLANT CAPACITOR		6/1/2010	6/1/2012		Yes
EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1		6/1/2010	6/1/2012		Yes
FRIO-DRAW - POTTER 345 KV		6/1/2013	6/1/2013		
HASTINGS 115 KV CONVERSION		6/1/2011	6/1/2013		Yes
KRESS CAPACITOR		6/1/2015	6/1/2015		
MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1 Reconductor		6/1/2011	6/1/2012		
NEWHART 230/115 KV TRANSFORMER CKT 2		6/1/2015	6/1/2015		
NEWHART INTERCHANGE PROJECT		6/1/2011	6/1/2013		
NICHOLS - RANDALL - AMARILLO SOUTH 230 KV CKT 1		6/1/2010	6/1/2013		Yes
POTTER - ANADARKO 345 KV		6/1/2017	6/1/2017		
RANDALL 230/115 KV TRANSFORMER CKT 2		6/1/2010	6/1/2013		Yes
RUSSETT - RUSSETT 138KV CKT 1 OKGE		6/1/2010	6/1/2012		
RUSSETT - RUSSETT 138KV CKT 1 WFEC		6/1/2010	6/1/2010		
SEWARD - ST JOHN 115KV CKT 1		6/1/2010	6/1/2011		No
SOUTH PLAINS REC-YUMA - WOLFFORTH INTERCHANGE 115KV CKT 1	6/1/2010	6/1/2012			
SWISHER CAPACITOR	6/1/2015	6/1/2015			
TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015			

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458766	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		
1458767	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458766	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		
1458767	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1458766	4KSPRGS - CHAMPAGNE 138KV CKT 1	6/1/2010	6/1/2013		No	\$ 704,208	\$ 15,569,784
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2011	6/1/2013		No	\$ 14,024	\$ 310,060
	ALPINE AECC - AMITY SS 115KV CKT 1	12/1/2010	6/1/2013		No	\$ -	\$ -
	ALPINE AECC - BISMARK 115KV CKT 1	12/1/2010	6/1/2013		No	\$ -	\$ -
	BISMARK - HOT SPRINGS WEST BUS 115KV CKT 1	12/1/2010	6/1/2013		No	\$ -	\$ -
	CEDAR HILL - PLANTATION 138KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	CEDAR HILL - TAMINA 138KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011		No	\$ -	\$ -
	HARTBURG - INLAND-ORANGE 230KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2011	6/1/2011			\$ 629,850	\$ 12,371,002
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,093,711	\$ 41,123,000
	PORTER - TAMINA 138KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013		No	\$ -	\$ -
					Total	\$ 3,441,793	\$ 69,373,846
1458767	4KSPRGS - CHAMPAGNE 138KV CKT 1	6/1/2010	6/1/2013		No	\$ 162,520	\$ 15,569,784
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2011	6/1/2013		No	\$ 3,236	\$ 310,060
	ALPINE AECC - AMITY SS 115KV CKT 1	12/1/2010	6/1/2013		No	\$ -	\$ -
	ALPINE AECC - BISMARK 115KV CKT 1	12/1/2010	6/1/2013		No	\$ -	\$ -
	BISMARK - HOT SPRINGS WEST BUS 115KV CKT 1	12/1/2010	6/1/2013		No	\$ -	\$ -
	CEDAR HILL - PLANTATION 138KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	CEDAR HILL - TAMINA 138KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011		No	\$ -	\$ -
	HARTBURG - INLAND-ORANGE 230KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2011	6/1/2011			\$ 145,350	\$ 12,371,002
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2011	6/1/2011			\$ 483,164	\$ 41,123,000
	PORTER - TAMINA 138KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013		No	\$ -	\$ -
					Total	\$ 794,270	\$ 69,373,846

\*An affected system study will need to be performed

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

Customer Study Number  
 CALP AG1-2008-010

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CALP	1393818	CSWS	ERCOTE	50	1/1/2009	1/1/2019	6/1/2013	6/1/2013	\$ -	\$ 9,406,800	\$ 547,990	\$ 1,222,677
CALP	1393823	CSWS	ERCOTE	50	1/1/2009	1/1/2019	6/1/2013	6/1/2013	\$ -	\$ 9,406,800	\$ 547,990	\$ 1,222,677
CALP	1393830	CSWS	ERCOTE	50	1/1/2009	1/1/2019	6/1/2013	6/1/2013	\$ -	\$ 9,406,800	\$ 547,990	\$ 1,222,677
CALP	1393837	CSWS	ERCOTE	50	1/1/2009	1/1/2019	6/1/2013	6/1/2013	\$ -	\$ 9,406,800	\$ 547,990	\$ 1,222,677
CALP	1393838	CSWS	ERCOTE	50	1/1/2009	1/1/2019	6/1/2013	6/1/2013	\$ -	\$ 9,406,800	\$ 547,990	\$ 1,222,677
									\$ -	\$ 47,034,000	\$ 2,739,950	\$ 6,113,385

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
1393818	BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1	6/1/2015	6/1/2015			\$ 547,990	\$ 4,600,000	\$ 1,222,677	
						Total	\$ 547,990	\$ 4,600,000	\$ 1,222,677
1393823	BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1	6/1/2015	6/1/2015			\$ 547,990	\$ 4,600,000	\$ 1,222,677	
						Total	\$ 547,990	\$ 4,600,000	\$ 1,222,677
1393830	BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1	6/1/2015	6/1/2015			\$ 547,990	\$ 4,600,000	\$ 1,222,677	
						Total	\$ 547,990	\$ 4,600,000	\$ 1,222,677
1393837	BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1	6/1/2015	6/1/2015			\$ 547,990	\$ 4,600,000	\$ 1,222,677	
						Total	\$ 547,990	\$ 4,600,000	\$ 1,222,677
1393838	BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1	6/1/2015	6/1/2015			\$ 547,990	\$ 4,600,000	\$ 1,222,677	
						Total	\$ 547,990	\$ 4,600,000	\$ 1,222,677

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1393818	BROOKLINE - SUMMIT 345 kV CKT 1	6/1/2014	6/1/2014		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	RUSSETT - RUSSETT 138KV CKT 1 OKGE	6/1/2010	6/1/2012		
	RUSSETT - RUSSETT 138KV CKT 1 WFEC	6/1/2010	6/1/2010		
1393823	BROOKLINE - SUMMIT 345 kV CKT 1	6/1/2014	6/1/2014		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	RUSSETT - RUSSETT 138KV CKT 1 OKGE	6/1/2010	6/1/2012		
	RUSSETT - RUSSETT 138KV CKT 1 WFEC	6/1/2010	6/1/2010		
1393830	BROOKLINE - SUMMIT 345 kV CKT 1	6/1/2014	6/1/2014		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	RUSSETT - RUSSETT 138KV CKT 1 OKGE	6/1/2010	6/1/2012		
	RUSSETT - RUSSETT 138KV CKT 1 WFEC	6/1/2010	6/1/2010		
1393837	BROOKLINE - SUMMIT 345 kV CKT 1	6/1/2014	6/1/2014		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	RUSSETT - RUSSETT 138KV CKT 1 OKGE	6/1/2010	6/1/2012		
	RUSSETT - RUSSETT 138KV CKT 1 WFEC	6/1/2010	6/1/2010		
1393838	BROOKLINE - SUMMIT 345 kV CKT 1	6/1/2014	6/1/2014		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	RUSSETT - RUSSETT 138KV CKT 1 OKGE	6/1/2010	6/1/2012		
	RUSSETT - RUSSETT 138KV CKT 1 WFEC	6/1/2010	6/1/2010		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1393818	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		
1393823	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		
1393830	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		
1393837	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		
1393838	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1393818	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	1393823	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012	
ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1		7/1/2012	7/1/2012		
BANN - RED SPRINGS REC 138KV CKT 1		7/1/2012	7/1/2012		
HUGO POWER PLANT - VALLIANT 345 KV AEPW		7/1/2012	7/1/2012		
HUGO POWER PLANT - VALLIANT 345 KV WFEC		7/1/2012	7/1/2012		
HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1		7/1/2012	7/1/2012		
LACYGNE - WEST GARDNER 345KV CKT 1		6/1/2006	6/1/2006		
NORTHWEST - WOODWARD 345KV CKT 1		1/1/2010	1/1/2010		
OKAY - TURK 138KV CKT 1		7/1/2012	7/1/2012		
RENO 345/115KV CKT 1		6/1/2009	6/1/2009		
RENO 345/115KV CKT 2		6/1/2010	6/1/2010		
SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1		6/1/2011	6/1/2011		
WICHITA - RENO 345KV		6/1/2009	6/1/2009		
1393830		ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012	
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	1393837	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012	
ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1		7/1/2012	7/1/2012		
BANN - RED SPRINGS REC 138KV CKT 1		7/1/2012	7/1/2012		
HUGO POWER PLANT - VALLIANT 345 KV AEPW		7/1/2012	7/1/2012		
HUGO POWER PLANT - VALLIANT 345 KV WFEC		7/1/2012	7/1/2012		
HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1		7/1/2012	7/1/2012		
LACYGNE - WEST GARDNER 345KV CKT 1		6/1/2006	6/1/2006		
NORTHWEST - WOODWARD 345KV CKT 1		1/1/2010	1/1/2010		
OKAY - TURK 138KV CKT 1		7/1/2012	7/1/2012		
RENO 345/115KV CKT 1		6/1/2009	6/1/2009		
RENO 345/115KV CKT 2		6/1/2010	6/1/2010		
SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1		6/1/2011	6/1/2011		
WICHITA - RENO 345KV		6/1/2009	6/1/2009		

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

1393838	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1393818	4FISHERTP 138.00 - KEYSTONE DAM 138KV CKT 1	6/1/2011	6/1/2012			\$ 92,623	\$ 500,000
	4KSPRGS - CHAMPAGNE 138KV CKT 1	6/1/2010	6/1/2013			\$ 2,586,525	\$ 15,569,784
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2011	6/1/2013			\$ 51,509	\$ 310,060
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,048,726	\$ 12,371,002
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2011	6/1/2011			\$ 6,810,260	\$ 41,123,000
					Total	\$ 11,589,643	\$ 69,873,846
1393823	4FISHERTP 138.00 - KEYSTONE DAM 138KV CKT 1	6/1/2011	6/1/2012			\$ 92,623	\$ 500,000
	4KSPRGS - CHAMPAGNE 138KV CKT 1	6/1/2010	6/1/2013			\$ 2,586,525	\$ 15,569,784
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2011	6/1/2013			\$ 51,509	\$ 310,060
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,048,726	\$ 12,371,002
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2011	6/1/2011			\$ 6,810,260	\$ 41,123,000
					Total	\$ 11,589,643	\$ 69,873,846
1393830	4FISHERTP 138.00 - KEYSTONE DAM 138KV CKT 1	6/1/2011	6/1/2012			\$ 92,623	\$ 500,000
	4KSPRGS - CHAMPAGNE 138KV CKT 1	6/1/2010	6/1/2013			\$ 2,586,525	\$ 15,569,784
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2011	6/1/2013			\$ 51,509	\$ 310,060
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,048,726	\$ 12,371,002
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2011	6/1/2011			\$ 6,810,260	\$ 41,123,000
					Total	\$ 11,589,643	\$ 69,873,846
1393837	4FISHERTP 138.00 - KEYSTONE DAM 138KV CKT 1	6/1/2011	6/1/2012			\$ 92,623	\$ 500,000
	4KSPRGS - CHAMPAGNE 138KV CKT 1	6/1/2010	6/1/2013			\$ 2,586,525	\$ 15,569,784
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2011	6/1/2013			\$ 51,509	\$ 310,060
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,048,726	\$ 12,371,002
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2011	6/1/2011			\$ 6,810,260	\$ 41,123,000
					Total	\$ 11,589,643	\$ 69,873,846
1393838	4FISHERTP 138.00 - KEYSTONE DAM 138KV CKT 1	6/1/2011	6/1/2012			\$ 92,623	\$ 500,000
	4KSPRGS - CHAMPAGNE 138KV CKT 1	6/1/2010	6/1/2013			\$ 2,586,525	\$ 15,569,784
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2011	6/1/2013			\$ 51,509	\$ 310,060
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,048,726	\$ 12,371,002
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2011	6/1/2011			\$ 6,810,260	\$ 41,123,000
					Total	\$ 11,589,643	\$ 69,873,846

\*An affected system study will need to be performed

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

Customer Study Number  
GRDX AG1-2008-024

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements	
GRDX	1405543	OKGE	GRDA	157	1/1/2009	1/1/2014	6/1/2012	6/1/2017	\$ -	\$ -	\$ 1,529,437	\$ 3,333,736	
										\$ -	\$ -	\$ 1,529,437	\$ 3,333,736

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1405543	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2010	6/1/2012		Yes	\$ 346,223	\$ 3,061,189	\$ 955,330
	BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1	6/1/2015	6/1/2015			\$ 1,183,214	\$ 4,600,000	\$ 2,378,406
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2012		Yes	\$ -	\$ -	\$ -
Total						\$ 1,529,437	\$ 7,661,189	\$ 3,333,736

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405543	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2010	6/1/2011		No
	CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2010	6/1/2010		
	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	6/1/2010	6/1/2010		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405543	BRYANT - JONES TAP 138KV CKT 1	6/1/2015	6/1/2015		
	CHILDERS 69KV CAPICITOR	6/1/2010	6/1/2010		
	CPP TRANSF #2 - PRYOR FOUNDRY SOUTH 69KV CKT 1	6/1/2015	6/1/2015		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	MAID - PRYOR FOUNDRY SOUTH 69KV CKT 1	6/1/2015	6/1/2015		
	MAID - REDDEN 69KV CKT 1	6/1/2015	6/1/2015		
	PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2012		
	SAND SPRINGS - SHEFFIELD 138KV CKT 1	6/1/2015	6/1/2015		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1405543	4LUTHER 138.00 138/69KV TRANSFORMER CKT 1	6/1/2011	6/1/2012		No	\$ 2,000,000	\$ 2,000,000
Total						\$ 2,000,000	\$ 2,000,000

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

Customer Study Number  
 INDP AG2-2008-051

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
INDP	1458202	INDN	KCPL	9	1/1/2009	1/1/2011	6/1/2015	6/1/2017	\$ -	\$ 190,080	\$ -	\$ -
									\$ -	\$ 190,080	\$ -	\$ -

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458202	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458202	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		



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

Customer Study Number  
 INDP AG2-2008-052

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
INDP	1458207	WR	INDN	15	1/1/2009	1/1/2029	6/1/2015	6/1/2035	\$ -	\$ 3,168,000	\$ -	\$ -
									\$ -	\$ 3,168,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1458207	None					\$ -	\$ -	\$ -
						Total	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458207	IATAN - NASHUA 345KV CKT 1			6/1/2010	6/1/2015
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line			6/1/2010	10/1/2010

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458207	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1			6/1/2019	6/1/2019
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C			6/1/2010	6/1/2011 10/1/2010
	EAST HALL TAP 115KV			6/1/2010	6/1/2010
	FRIO-DRAW - POTTER 345 KV			6/1/2013	6/1/2013
	HYDRO CAPICITOR 138KV			6/1/2015	6/1/2015
	LONGVIEW - WESTERN ELECTRIC 161KV CKT 1			6/1/2018	6/1/2018
	POTTER - ANADARKO 345 KV			6/1/2017	6/1/2017
	SEWARD - ST JOHN 115KV CKT 1			6/1/2010	6/1/2011
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1			6/1/2015	6/1/2015

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458207	CLIFTON - GREENLEAF 115KV CKT 1			6/1/2010	6/1/2013 10/1/2012
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1			6/1/2010	6/1/2013

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

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

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1458207	ECKLES - SIBLEYPL 161.00 161KV CKT 1			6/1/2010	6/1/2011	\$ -	\$ -
	SUBSTATION M 161/69KV TRANSFORMER CKT 2			6/1/2010	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  
 INDP AG2-2008-053

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
INDP	1458487	OPPD	INDN	2	6/1/2009	6/1/2049	6/1/2015	6/1/2055	\$ -	\$ 844,800	\$ -	\$ -
									\$ -	\$ 844,800	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1458487	None					\$ -	\$ -	\$ -
						Total	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458487	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458487	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1	6/1/2019	6/1/2019		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	LONGVIEW - WESTERN ELECTRIC 161KV CKT 1	6/1/2018	6/1/2018		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1458487	ECKLES - SIBLEYPL 161.00 161KV CKT 1	6/1/2010	6/1/2011			\$ -	\$ -
						Total	\$ -

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

Customer Study Number  
 KCPS AG1-2008-029

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	1405741	WR	KCPL	20	5/1/2011	5/1/2025	6/1/2015	6/1/2029	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1405741	None					\$ -	\$ -	\$ -
						Total	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405741	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405741	BROOKLINE - SUMMIT 345 kV CKT 1	6/1/2014	6/1/2014		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405741	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1	12/1/2011	1/1/2013		

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

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

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1405741	ECKLES - SIBLEYPL 161.00 161KV CKT 1	6/1/2010	6/1/2011		No	\$ -	\$ -
						Total	\$ -

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

Customer Study Number  
 KCPS AG2-2008-070

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	1458727	WPEK	KCPL	50	9/1/2009	9/1/2013	6/1/2015	6/1/2019	\$ -	\$ 2,112,000	\$ -	\$ -
KCPS	1458728	WPEK	KCPL	50	9/1/2009	9/1/2013	6/1/2015	6/1/2019	\$ -	\$ 2,112,000	\$ -	\$ -
									\$ -	\$ 4,224,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1458727	None					\$ -	\$ -	\$ -
						Total	\$ -	\$ -
1458728	None					\$ -	\$ -	\$ -
						Total	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458727	HOLCOMB - PLYMELL 115KV CKT 1	6/1/2010	12/1/2010		Yes
	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		
	PIONEER TAP - PLYMELL 115KV CKT 1	6/1/2010	12/1/2010		Yes
1458728	HOLCOMB - PLYMELL 115KV CKT 1	6/1/2010	12/1/2010		Yes
	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		
	PIONEER TAP - PLYMELL 115KV CKT 1	6/1/2010	12/1/2010		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458727	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	KRESS CAPACITOR	6/1/2015	6/1/2015		
	NEWHART 230/115 KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	NEWHART INTERCHANGE PROJECT	6/1/2011	6/1/2013		No
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SWISHER CAPACITOR	6/1/2015	6/1/2015		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1458728	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	KRESS CAPACITOR	6/1/2015	6/1/2015		
	NEWHART 230/115 KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	NEWHART INTERCHANGE PROJECT	6/1/2011	6/1/2013		No
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SWISHER CAPACITOR	6/1/2015	6/1/2015		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458727	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		No
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2010	6/1/2013	10/1/2012	
	MEDICINE LODGE - PRATT 115KV CKT 1	6/1/2010	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		
1458728	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		No
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2010	6/1/2013	10/1/2012	
	MEDICINE LODGE - PRATT 115KV CKT 1	6/1/2010	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458727	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		
1458728	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

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

Customer Study Number  
 KCPS AG2-2008-071

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	1458732	KCPL	KCPL	101	9/1/2009	9/1/2019	6/1/2015	6/1/2025	\$ 5,475,217	-	\$ 8,212,826	\$ 17,007,268
									\$ 5,475,217	\$ -	\$ 8,212,826	\$ 17,007,268

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1458732	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2012	6/1/2013	10/1/2012		\$ 3,696,941	\$ 1,848,471	\$ 5,545,412	\$ 7,900,000	\$ 11,246,682
	GREENLEAF - KNOB HILL 115KV CKT 1 WERE	6/1/2012	6/1/2013	10/1/2012		\$ 1,778,276	\$ 889,138	\$ 2,667,414	\$ 3,800,000	\$ 5,760,586
	<b>Total</b>					\$ 5,475,217	\$ 2,737,609	\$ 8,212,826	\$ 11,700,000	\$ 17,007,268

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458732	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		Yes
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	6/1/2010	10/1/2010		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458732	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	EAST HALL TAP 115KV	6/1/2010	6/1/2010		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1	6/1/2010	6/1/2010		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		Yes
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458732	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		No
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2010	6/1/2013	10/1/2012	Yes
	MEDICINE LODGE - PRATT 115KV CKT 1	6/1/2010	6/1/2013		Yes
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458732	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1458732	ECKLES - SIBLEYPL 161.00 161KV CKT 1	6/1/2010	6/1/2011		No	\$ -	\$ -
	<b>Total</b>					\$ -	\$ -

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

Customer Study Number  
KEPC AG1-2008-036

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KEPC	1405798	WR	WR	3	5/1/2011	5/1/2018	6/1/2013	6/1/2020	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1405798	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405798	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2010	12/1/2011	10/1/2011	
	East Manhattan to McDowell 230 kv	6/1/2010	6/1/2012	10/1/2011	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405798	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405798	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1	12/1/2011	1/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		

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

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

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

Customer Study Number  
KMEA AG1-2008-013

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	1394351	GRDA	WR	1	5/1/2010	5/1/2015	10/1/2012	10/1/2017	\$ 180,000	\$ 143,940	\$ 688,069	\$ 1,466,530
									\$ 180,000	\$ 143,940	\$ 688,069	\$ 1,466,530

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1394351	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2010	6/1/2012			\$ 104	\$ 3,061,189	\$ 296
	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2012	6/1/2013	10/1/2012		\$ 454,519	\$ 7,900,000	\$ 974,527
	GREENLEAF - KNOB HILL 115KV CKT 1 WERE	6/1/2012	6/1/2013	10/1/2012		\$ 218,629	\$ 3,800,000	\$ 491,707
	STEELEC7 115.00 115KV Capacitor	6/1/2012	6/1/2012			\$ 14,817	\$ 607,500	\$ -
<b>Total</b>						\$ 688,069	\$ 15,368,689	\$ 1,466,530

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1394351	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2010	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1394351	AFTON - FAIRLAND EDE TAP 69KV CKT 1	6/1/2010	6/1/2011		
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BROOKLINE - SUMMIT 345 KV CKT 1	6/1/2014	6/1/2014		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	Multi - Stateline - Joplin - Reinmiller conversion	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2012		
	SUB 963 - WEST BROCK 69KV CKT 1	6/1/2010	6/1/2010		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1394351	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2010	6/1/2013	10/1/2012	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1394351	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

\*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  
KMEA AG1-2008-039

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	1405809	GRDA	SECI	2	5/1/2010	5/1/2026	6/1/2013	6/1/2029	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1405809	CUDAHY - JUDSON LARGE 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
						Total	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405809	AFTON - FAIRLAND EDE TAP 69KV CKT 1	6/1/2010	6/1/2011		
	BEATRICE - HARBINE 115KV CKT 1	6/1/2019	6/1/2019		
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	EAST HALL TAP 115KV	6/1/2010	6/1/2010		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1	6/1/2010	6/1/2010		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405809	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		
	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
	MEDICINE LODGE - PRATT 115KV CKT 1	6/1/2010	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405809	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

\*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  
KMEA AG2-2008-040

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	1457913	GRDA	SECI	13	5/1/2009	5/1/2027	6/1/2013	6/1/2031	\$ 162,113	-	\$ 162,113	\$ 8,651
									\$ 162,113	\$ -	\$ 162,113	\$ 8,651

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1457913	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2010	6/1/2012			\$ 1,748	\$ 3,061,189	\$ 8,651
	CUDAHY - JUDSON LARGE 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	FLETCHER - HOLCOMB 115KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -	\$ -
	STEELEC7 115.00 115KV Capacitor	6/1/2012	6/1/2012			\$ 160,365	\$ 607,500	\$ -
Total						\$ 162,113	\$ 3,668,689	\$ 8,651

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457913	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2010	6/1/2011		
	HOLCOMB - PLYMELL 115KV CKT 1	6/1/2010	12/1/2010		
	PIONEER TAP - PLYMELL 115KV CKT 1	6/1/2010	12/1/2010		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457913	AFTON - FAIRLAND EDE TAP 69KV CKT 1	6/1/2010	6/1/2011		
	BEATRICE - HARBINE 115KV CKT 1	6/1/2019	6/1/2019		
	BROOKLINE - SUMMIT 345 KV CKT 1	6/1/2014	6/1/2014		
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	EAST HALL TAP 115KV	6/1/2010	6/1/2010		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1	6/1/2010	6/1/2010		
	Multi - Stateline - Joplin - Reinmiller conversion	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2012		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457913	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		
	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
	MEDICINE LODGE - PRATT 115KV CKT 1	6/1/2010	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		
	ROSE HILL (ROSEHLX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2010	6/1/2011	10/1/2010	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457913	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

\*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  
KMEA AG2-2008-044

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	1458109	GRDA	WR	2	5/1/2009	5/1/2027	6/1/2015	6/1/2033	\$ -	\$ 1,036,368	\$ 319	\$ 1,899
									\$ -	\$ 1,036,368	\$ 319	\$ 1,899

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1458109	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2010	6/1/2012			\$ 319	\$ 3,061,189	\$ 1,899
	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2012			\$ -	\$ -	\$ -
Total						\$ 319	\$ 3,061,189	\$ 1,899

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458109	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2010	6/1/2011		
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2010	12/1/2011	10/1/2011	
	East Manhattan to Mcdowell 230 kv	6/1/2010	6/1/2012	10/1/2011	
	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458109	AFTON - FAIRLAND EDE TAP 69KV CKT 1	6/1/2010	6/1/2011		
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	BROOKLINE - SUMMIT 345 kv CKT 1	6/1/2014	6/1/2014		
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	Multi - Stateline - Joplin - Reinmiller conversion	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2012		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458109	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		
	ROSE HILL (ROSEHLX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2010	6/1/2011	10/1/2010	

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

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

\*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 AG1-2008-015

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KPP	1403992	WR	WR	13	6/1/2008	6/1/2017	6/1/2013	6/1/2022	\$ -	\$ -	\$ -	\$ -
KPP	1403993	WR	WR	3	6/1/2008	6/1/2017	6/1/2013	6/1/2022	\$ -	\$ -	\$ -	\$ -
KPP	1403996	WR	WR	6	6/1/2008	6/1/2017	6/1/2013	6/1/2022	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1403992	None					\$ -	\$ -	\$ -
						Total	\$ -	\$ -
1403993	None					\$ -	\$ -	\$ -
						Total	\$ -	\$ -
1403996	None					\$ -	\$ -	\$ -
						Total	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1403996	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2010	12/1/2011	10/1/2011	No
	East Manhattan to Modowell 230 kv	6/1/2010	6/1/2012	10/1/2011	No

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1403992	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	EAST HALL TAP 115KV	6/1/2010	6/1/2010		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST_JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1	6/1/2010	6/1/2010		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		Yes
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1403993	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	EAST HALL TAP 115KV	6/1/2010	6/1/2010		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST_JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1	6/1/2010	6/1/2010		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		Yes
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1403996	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1403992	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
	MEDICINE LODGE - PRATT 115KV CKT 1	6/1/2010	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		Yes
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2010	6/1/2011	10/1/2010	No
1403993	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
	MEDICINE LODGE - PRATT 115KV CKT 1	6/1/2010	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2010	6/1/2011	10/1/2010	No
1403996	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1403992	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1403993	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1403996	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

\*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 AG1-2008-017

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KPP	1404448	WR	WR	4	6/1/2008	6/1/2018	6/1/2013	6/1/2023	\$ 612,000	-	\$ 2,866,816	\$ 5,827,336
									\$ 612,000	\$ -	\$ 2,866,816	\$ 5,827,336

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1404448	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2012	6/1/2013	10/1/2012		\$ 1,900,069	\$ 7,900,000	\$ 3,853,541
	GREENLEAF - KNOB HILL 115KV CKT 1 WERE	6/1/2012	6/1/2013	10/1/2012		\$ 913,957	\$ 3,800,000	\$ 1,973,795
	STEELEC7 115.00 115KV Capacitor	6/1/2012	6/1/2012			\$ 52,790	\$ 607,500	\$ -
	<b>Total</b>					\$ 2,866,816	\$ 12,307,500	\$ 5,827,336

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404448	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	SUB 963 - WEST BROCK 69KV CKT 1	6/1/2010	6/1/2010		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404448	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2010	6/1/2013	10/1/2012	
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404448	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		

\*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 AG2-2008-037

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KPP	1457536	GRDA	WR	4	1/1/2009	1/1/2026	6/1/2012	6/1/2029	\$ 16,191	\$ -	\$ 16,191	\$ 2,112
									\$ 16,191	\$ -	\$ 16,191	\$ 2,112

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1457536	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2010	6/1/2012			\$ 608	\$ 3,061,189	\$ 2,112
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2012			\$ -	\$ -	\$ -
	STEELEC7 115.00 115KV Capacitor	6/1/2012	6/1/2012			\$ 15,583	\$ 607,500	\$ -
	<b>Total</b>					\$ 16,191	\$ 3,668,689	\$ 2,112

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457536	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2010	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457536	AFTON - FAIRLAND EDE TAP 69KV CKT 1	6/1/2010	6/1/2011		
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BEATRICE - HARBINE 115KV CKT 1	6/1/2019	6/1/2019		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	BROOKLINE - SUMMIT 345 kv CKT 1	6/1/2014	6/1/2014		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	Multi - Stateline - Joplin - Reinmiller conversion	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2012		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457536	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	12/1/2010	6/1/2012		
	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1	12/1/2011	1/1/2013		
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2010	6/1/2011	10/1/2010	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457536	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

\*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 AG2-2008-038

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KPP	1457802	WPEK	WPEK	3	11/1/2008	11/1/2013	6/1/2013	6/1/2018	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1457802	FLETCHER - HOLCOMB 115KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457802	HOLCOMB - PLYMELL 115KV CKT 1	6/1/2010	12/1/2010		
	PIONEER TAP - PLYMELL 115KV CKT 1	6/1/2010	12/1/2010		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457802	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1	6/1/2010	6/1/2010		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457802	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457802	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

\*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 AG2-2008-054

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KPP	1458533	WR	WR	11	10/1/2008	10/1/2018	6/1/2015	6/1/2025	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1458533	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458533	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2010	12/1/2011	10/1/2011	No
	East Manhattan to Mcdowell 230 kv	6/1/2010	6/1/2012	10/1/2011	No
	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		No

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458533	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	Yes
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458533	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2010	6/1/2011	10/1/2010	Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1458533	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

\*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  
 MIDW AG1-2008-019

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1404845	WR	WR	24	1/1/2009	1/1/2029	6/1/2013	6/1/2033	\$ -	\$ -	\$ -	\$ -
MIDW	1404848	WR	WR	25	1/1/2009	1/1/2029	6/1/2013	6/1/2033	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1404845	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -	\$ -	\$ -
1404848	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404845	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	Yes
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	EAST HALL TAP 115KV	6/1/2010	6/1/2010		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		Yes
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1404848	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	Yes
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	EAST HALL TAP 115KV	6/1/2010	6/1/2010		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		Yes
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404845	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2010	6/1/2013	10/1/2012	No
	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2010	6/1/2011	10/1/2010	Yes
1404848	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2010	6/1/2013	10/1/2012	No
	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2010	6/1/2011	10/1/2010	Yes

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404845	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1404848	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer Study Number  
MIDW AG1-2008-032

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1405764	NPPD	WR	25	4/1/2011	4/1/2031	6/1/2015	6/1/2035	\$ -	\$ -	\$ 165,430	\$ -
MIDW	1405765	NPPD	WR	15	4/1/2011	4/1/2031	6/1/2015	6/1/2035	\$ -	\$ -	\$ 99,258	\$ -
MIDW	1405766	NPPD	WR	10	4/1/2011	4/1/2031	6/1/2015	6/1/2035	\$ -	\$ -	\$ 66,172	\$ -
MIDW	1405768	NPPD	WR	5	4/1/2011	4/1/2031	6/1/2015	6/1/2035	\$ -	\$ -	\$ 33,086	\$ -
									\$ -	\$ -	\$ 363,946	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1405764	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2012		Yes	\$ -	\$ -	\$ -
	STEELEC7 115.00 115KV Capacitor	6/1/2012	6/1/2012			\$ 165,430	\$ 607,500	\$ -
					Total	\$ 165,430	\$ 607,500	\$ -
1405765	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2012		Yes	\$ -	\$ -	\$ -
	STEELEC7 115.00 115KV Capacitor	6/1/2012	6/1/2012			\$ 99,258	\$ 607,500	\$ -
					Total	\$ 99,258	\$ 607,500	\$ -
1405766	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2012		Yes	\$ -	\$ -	\$ -
	STEELEC7 115.00 115KV Capacitor	6/1/2012	6/1/2012			\$ 66,172	\$ 607,500	\$ -
					Total	\$ 66,172	\$ 607,500	\$ -
1405768	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2012		Yes	\$ -	\$ -	\$ -
	STEELEC7 115.00 115KV Capacitor	6/1/2012	6/1/2012			\$ 33,086	\$ 607,500	\$ -
					Total	\$ 33,086	\$ 607,500	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405764	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2010	12/1/2011	10/1/2011	Yes
	East Manhattan to Mcdowell 230 kv	6/1/2010	6/1/2012	10/1/2011	Yes
	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		
1405765	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2010	12/1/2011	10/1/2011	
	East Manhattan to Mcdowell 230 kv	6/1/2010	6/1/2012	10/1/2011	
	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		
1405766	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2010	12/1/2011	10/1/2011	
	East Manhattan to Mcdowell 230 kv	6/1/2010	6/1/2012	10/1/2011	
	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		
1405768	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2010	12/1/2011	10/1/2011	
	East Manhattan to Mcdowell 230 kv	6/1/2010	6/1/2012	10/1/2011	
	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405764	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		
	SUB A - SUB D 115KV CKT 1	6/1/2019	6/1/2019		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1405765	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		
	SUB A - SUB D 115KV CKT 1	6/1/2019	6/1/2019		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1405766	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		
	SUB A - SUB D 115KV CKT 1	6/1/2019	6/1/2019		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1405768	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		
	SUB A - SUB D 115KV CKT 1	6/1/2019	6/1/2019		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405764	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
	MEDICINE LODGE - PRATT 115KV CKT 1	6/1/2010	6/1/2013		No
1405765	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		Yes
	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
1405766	MEDICINE LODGE - PRATT 115KV CKT 1	6/1/2010	6/1/2013		No
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		
1405768	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
	MEDICINE LODGE - PRATT 115KV CKT 1	6/1/2010	6/1/2013		No
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405764	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
1405765	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
1405766	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
1405768	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1405764	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011		No	\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013		No	\$ -	\$ -
					Total	\$ -	\$ -
1405765	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011		No	\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013		No	\$ -	\$ -
					Total	\$ -	\$ -
1405766	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011		No	\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013		No	\$ -	\$ -
					Total	\$ -	\$ -
1405768	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011		No	\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013		No	\$ -	\$ -
					Total	\$ -	\$ -

\*An affected system study will need to be performed

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

Customer Study Number  
 OGE AG1-2008-018

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OGE	1404463	OKGE	OKGE	120	8/31/2009	8/31/2034	6/1/2013	6/1/2038	\$ 82,668	-	\$ 82,668	\$ 510,794
									\$ 82,668	\$ -	\$ 82,668	\$ 510,794

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1404463	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2010	6/1/2012			\$ 82,668	\$ -	\$ 82,668	\$ 3,061,189	\$ 510,794
Total						\$ 82,668	\$ -	\$ 82,668	\$ 3,061,189	\$ 510,794

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404463	BLUEBELL - PRATTVILLE 138KV CKT 1 AEPW	6/1/2015	6/1/2015		
	BLUEBELL - PRATTVILLE 138KV CKT 1 OKGE	6/1/2015	6/1/2015		
	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1	6/1/2010	6/1/2012		
	COLONY - FT SMITH 161KV CKT 1	6/1/2010	6/1/2012		
	ERICK 138KV CAPICITOR	6/1/2015	6/1/2015		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404463	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1404463	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013			\$ -	\$ -
Total						\$ -	\$ -

\*An affected system study will need to be performed

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

Customer Study Number  
 OGE AG1-2008-027

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OGE	1405664	OKGE	OKGE	648	6/1/2008	6/1/2028	6/1/2013	6/1/2033	\$ 2,012,571	-	\$ 2,012,571	\$ 10,647,613
									\$ 2,012,571	\$ -	\$ 2,012,571	\$ 10,647,613

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1405664	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2010	6/1/2012			\$ 2,012,571	\$ 3,061,189	\$ 10,647,613
Total						\$ 2,012,571	\$ 3,061,189	\$ 10,647,613

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405664	BLUEBELL - PRATTVILLE 138KV CKT 1 AEPW	6/1/2015	6/1/2015		
	BLUEBELL - PRATTVILLE 138KV CKT 1 OKGE	6/1/2015	6/1/2015		
	BRYANT - JONES TAP 138KV CKT 1	6/1/2015	6/1/2015		
	COLONY - FT SMITH 161KV CKT 1	6/1/2010	6/1/2012		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405664	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1405664	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013			\$ -	\$ -
Total						\$ -	\$ -

\*An affected system study will need to be performed



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

Customer Study Number  
 OGE AG2-2008-017

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1454686	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1454686	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1			6/1/2010	6/1/2012
	ERICK 138KV CAPICITOR			6/1/2015	6/1/2015
	FPL SWITCH - WOODWARD 138KV CKT 1			6/1/2015	6/1/2015
	FRIO-DRAW - POTTER 345 KV			6/1/2013	6/1/2013
	HYDRO CAPICITOR 138KV			6/1/2015	6/1/2015
	POTTER - ANADARKO 345 KV			6/1/2017	6/1/2017
	RUSSETT - RUSSETT 138KV CKT 1 OKGE			6/1/2010	6/1/2012
	RUSSETT - RUSSETT 138KV CKT 1 WFEC			6/1/2010	6/1/2010
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1			6/1/2015	6/1/2015

Planned Projects

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1454686	Multi - Johnson County Project			6/1/2010	6/1/2011

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1454686	HUGO POWER PLANT - VALLIANT 345 KV AEPW			7/1/2012	7/1/2012
	HUGO POWER PLANT - VALLIANT 345 KV WFEC			7/1/2012	7/1/2012
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1			7/1/2012	7/1/2012
	NORTHWEST - WOODWARD 345KV CKT 1			1/1/2010	1/1/2010
	WOODWARD - IODINE 138KV CKT 1			1/1/2010	1/1/2010
	WOODWARD - WOODWARD EHV 138KV CKT 1			1/1/2010	1/1/2010
	WOODWARD - WOODWARD EHV 138KV CKT 2			1/1/2010	1/1/2010
	WOODWARD 345/138KV TRANSFORMER CKT 1			1/1/2010	1/1/2010

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

Customer Study Number  
 OMPA AG1-2008-021

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OMPA	1404908	OKGE	OKGE	155	10/1/2008	10/1/2028	6/1/2013	6/1/2033	\$ 1,168,855	\$ -	\$ 1,168,855	\$ 3,861,474
									\$ 1,168,855	\$ -	\$ 1,168,855	\$ 3,861,474

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1404908	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2010	6/1/2012		Yes	\$ 600,423	\$ 3,061,189	\$ 2,305,754
	BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1	6/1/2015	6/1/2015			\$ 568,432	\$ 4,600,000	\$ 1,555,720
	CACHE4 138.00 - PARADISE 138KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2012		Yes	\$ -	\$ -	\$ -
Total						\$ 1,168,855	\$ 7,661,189	\$ 3,861,474

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404908	ANADARKO - PARADISE 138KV CKT 1	6/1/2015	6/1/2015		
	BRYANT - JONES TAP 138KV CKT 1	6/1/2015	6/1/2015		
	CARNEGIE - HOBART JUNCTION 138KV CKT 1	6/1/2010	6/1/2013		No
	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1	6/1/2010	6/1/2012		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404908	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2010	6/1/2011	10/1/2010	Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1404908	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

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

Customer Study Number  
SEPC AG1-2008-037

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SEPC	1405823	SECI	SECI	1175	6/1/2008	6/1/2028	6/1/2013	6/1/2033	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1405823	CIMARRON RIVER PLANT - HAYNE 3 115.00 115KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -	\$ -
	FLETCHER - HOLCOMB 115KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405823	HOLCOMB - PLYMELL 115KV CKT 1	6/1/2010	12/1/2010		Yes
	PIONEER TAP - PLYMELL 115KV CKT 1	6/1/2010	12/1/2010		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405823	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	6/1/2015	6/1/2015		
	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	6/1/2015	6/1/2015		
	EAST HALL TAP 115KV	6/1/2010	6/1/2010		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2015	6/1/2015		
	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1	6/1/2010	6/1/2010		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405823	HARPER - MILAN TAP 138KV CKT 1	6/1/2015	6/1/2015		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405823	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		

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

Customer Study Number  
SPSM AG1-2008-034

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	1405785	EES	EDDY	50	1/1/2010	1/1/2013	6/1/2013	6/1/2016	\$ -	\$ 3,160,800	\$ 90,380	\$ 187,014
									\$ -	\$ 3,160,800	\$ 90,380	\$ 187,014

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1405785	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2010	6/1/2012			\$ 8,283	\$ 3,061,189	\$ 22,972
	BETHEL - BROKEN BOW 138KV CKT 1	6/1/2011	6/1/2012			\$ -	\$ -	\$ -
	CACHE4 138.00 - PARADISE 138KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1 AEPW	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1 OKGE	6/1/2015	6/1/2015			\$ 25,049	\$ 50,000	\$ 34,359
	MANHATTAN SUB - MANHATTAN TAP 115KV CKT 1	6/1/2014	6/1/2014			\$ -	\$ -	\$ -
	MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1	6/1/2010	6/1/2011			\$ 57,048	\$ 225,000	\$ 129,683
Total						\$ 90,380	\$ 3,336,189	\$ 187,014

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405785	ANADARKO - PARADISE 138KV CKT 1	6/1/2015	6/1/2015		
	BRYANT - JONES TAP 138KV CKT 1	6/1/2015	6/1/2015		
	CAPROCK REC UPGRADES	6/1/2015	6/1/2015		
	CARNEGIE - HOBART JUNCTION 138KV CKT 1	6/1/2010	6/1/2013		
	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1	6/1/2010	6/1/2012		
	CHEERY SUB 230/115 KV TRANSFORMER CKT 1	6/1/2011	6/1/2012		
	CLINTON - CLINTON JUNCTION 138KV CKT 1 AEPW	6/1/2015	6/1/2015		
	CLINTON - CLINTON JUNCTION 138KV CKT 1 WFEC	6/1/2015	6/1/2015		
	COLONY - FT SMITH 161KV CKT 1	6/1/2010	6/1/2012		
	DEAF SMITH - PANDA 115 KV CKT 1	6/1/2010	6/1/2012		
	DEAF SMITH COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 3	6/1/2010	6/1/2013		
	EAST PLANT CAPACITOR	6/1/2010	6/1/2012		
	EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1	6/1/2010	6/1/2012		
	ERICK 138KV CAPICITOR	6/1/2015	6/1/2015		
	FPL SWITCH - WOODWARD 138KV CKT 1	6/1/2015	6/1/2015	6/1/2012	
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HASTINGS 115 KV CONVERSION	6/1/2011	6/1/2013		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	JENSEN ROAD - JENSEN TAP 138KV CKT 1	6/1/2015	6/1/2015	6/1/2012	
	JONES STATION - JONES STATION BUS #2 230KV CKT 2	6/1/2015	6/1/2015		
	KRESS CAPACITOR	6/1/2015	6/1/2015		
	MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1 Reconductor	6/1/2011	6/1/2012		
	NEWHART 230/115 KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	NEWHART INTERCHANGE PROJECT	6/1/2011	6/1/2013		
	NICHOLS - RANDALL - AMARILLO SOUTH 230 KV CKT 1	6/1/2010	6/1/2013		
	RANDALL 230/115 KV TRANSFORMER CKT 2	6/1/2010	6/1/2013		
	ROOSEVELT 230/115 KV TRANSFORMER CKT 2	6/1/2010	6/1/2013		
	SWISHER CAPACITOR	6/1/2015	6/1/2015		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 230/115KV TRANSFORMER CKT 3	6/1/2015	6/1/2015		

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available
1405785	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	KNOBHILL (KNOBHILL) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2006		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUGAR HILL - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1405785	4KSPRGS - CHAMPAGNE 138KV CKT 1	6/1/2010	6/1/2013			\$ 884,798	\$ 15,569,784
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2011	6/1/2013			\$ 17,620	\$ 310,060
	BULL SHOALS - BULL SHOALS HES 161KV CKT 1 EES	6/1/2015	6/1/2019			\$ -	\$ -
	BULL SHOALS - BULL SHOALS HES 161KV CKT 1 SWPA	6/1/2015	6/1/2015	1/1/2010		\$ -	\$ -
	CALICO ROCK - NORFORK 161KV CKT 1 EES	12/1/2010	12/1/2010			\$ -	\$ -
	CALICO ROCK - NORFORK 161KV CKT 1 SWPA	12/1/2010	6/1/2011			\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011			\$ -	\$ -
	FAIRVIEW - MADISONVILLE 230KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2011	6/1/2011			\$ 676,294	\$ 12,371,002
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,248,099	\$ 41,123,000
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013			\$ -	\$ -
					Total	\$ 3,826,811	\$ 69,373,846

\*An affected system study will need to be performed

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

Customer Study Number  
SPSM AG1-2008-035

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	1405792	EES	BLKW	50	3/1/2009	3/1/2012	6/1/2013	6/1/2016	\$ -	\$ 3,160,800	\$ 96,514	\$ 201,025
									\$ -	\$ 3,160,800	\$ 96,514	\$ 201,025

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1405792	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2010	6/1/2012			\$ 8,241	\$ 3,061,189	\$ 22,855
	BETHEL - BROKEN BOW 138KV CKT 1	6/1/2011	6/1/2012			\$ -	\$ -	\$ -
	CACHE4 138.00 - PARADISE 138KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1 AEPW	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1 OKGE	6/1/2015	6/1/2015			\$ 24,951	\$ 50,000	\$ 34,225
	MANHATTAN SUB - MANHATTAN TAP 115KV CKT 1	6/1/2014	6/1/2014			\$ -	\$ -	\$ -
	MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1	6/1/2010	6/1/2011			\$ 63,322	\$ 225,000	\$ 143,945
Total						\$ 96,514	\$ 3,336,189	\$ 201,025

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405792	ANADARKO - PARADISE 138KV CKT 1	6/1/2015	6/1/2015		
	BRYANT - JONES TAP 138KV CKT 1	6/1/2015	6/1/2015		
	CAPROCK REC UPGRADES	6/1/2015	6/1/2015		
	CARNEGIE - HOBART JUNCTION 138KV CKT 1	6/1/2010	6/1/2013		
	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1	6/1/2010	6/1/2012		
	CHEERY SUB 230/115 KV TRANSFORMER CKT 1	6/1/2011	6/1/2012		
	CLINTON - CLINTON JUNCTION 138KV CKT 1 AEPW	6/1/2015	6/1/2015		
	CLINTON - CLINTON JUNCTION 138KV CKT 1 WFEC	6/1/2015	6/1/2015		
	COLONY - FT SMITH 161KV CKT 1	6/1/2010	6/1/2012		
	DEAF SMITH - PANDA 115 KV CKT 1	6/1/2010	6/1/2012		
	DEAF SMITH COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 3	6/1/2010	6/1/2013		
	EAST PLANT CAPACITOR	6/1/2010	6/1/2012		
	EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1	6/1/2010	6/1/2012		
	ERICK 138KV CAPICITOR	6/1/2015	6/1/2015		
	FPL SWITCH - WOODWARD 138KV CKT 1	6/1/2015	6/1/2015	6/1/2012	
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	HASTINGS 115 KV CONVERSION	6/1/2011	6/1/2013		
	HYDRO CAPICITOR 138KV	6/1/2015	6/1/2015		
	JENSEN ROAD - JENSEN TAP 138KV CKT 1	6/1/2015	6/1/2015	6/1/2012	
	JONES STATION - JONES STATION BUS #2 230KV CKT 2	6/1/2015	6/1/2015		
	KRESS CAPACITOR	6/1/2015	6/1/2015		
	MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1 Reconductor	6/1/2011	6/1/2012		
	NEWHART 230/115 KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	NEWHART INTERCHANGE PROJECT	6/1/2011	6/1/2013		
	NICHOLS - RANDALL - AMARILLO SOUTH 230 KV CKT 1	6/1/2010	6/1/2013		
	RANDALL 230/115 KV TRANSFORMER CKT 2	6/1/2010	6/1/2013		
	ROOSEVELT 230/115 KV TRANSFORMER CKT 2	6/1/2010	6/1/2013		
	SWISHER CAPACITOR	6/1/2015	6/1/2015		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 230/115KV TRANSFORMER CKT 3	6/1/2015	6/1/2015		

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available
1405792	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	KNOBHILL (KNOBHILL) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2006		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUGAR HILL - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1405792	4KSPRGS - CHAMPAGNE 138KV CKT 1	6/1/2010	6/1/2013			\$ 885,631	\$ 15,569,784
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2011	6/1/2013			\$ 17,637	\$ 310,060
	BULL SHOALS - BULL SHOALS HES 161KV CKT 1 EES	6/1/2015	6/1/2019			\$ -	\$ -
	BULL SHOALS - BULL SHOALS HES 161KV CKT 1 SWPA	6/1/2015	6/1/2015	1/1/2010		\$ -	\$ -
	CALICO ROCK - NORFORK 161KV CKT 1 EES	12/1/2010	12/1/2010			\$ -	\$ -
	CALICO ROCK - NORFORK 161KV CKT 1 SWPA	12/1/2010	6/1/2011			\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011			\$ -	\$ -
	FAIRVIEW - MADISONVILLE 230KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2011	6/1/2011			\$ 675,880	\$ 12,371,002
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,246,724	\$ 41,123,000
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013			\$ -	\$ -
					Total	\$ 3,825,872	\$ 69,373,846

\*An affected system study will need to be performed

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

Customer Study Number  
 WRGS AG1-2008-028

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1405690	WR	WR	20	5/1/2011	5/1/2018	6/1/2013	6/1/2020	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1405690	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405690	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2010	12/1/2011	10/1/2011	
	East Manhattan to McDowell 230 kv	6/1/2010	6/1/2012	10/1/2011	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405690	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2011	6/1/2011		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		
	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1405690	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1	12/1/2011	1/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2010	6/1/2013		No

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

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



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

Customer Study Number  
 WRGS AG2-2008-006

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1431605	EES	SPA	8	3/1/2010	3/1/2040	6/1/2013	6/1/2043	\$ -	\$ 2,736,000	\$ -	\$ -
									\$ -	\$ 2,736,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1431605	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1431605	BROOKLINE - SUMMIT 345 kV CKT 1	6/1/2014	6/1/2014		
	COLONY - FT SMITH 161KV CKT 1	6/1/2010	6/1/2012		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1431605	5NEWMAD 161.00 - NEW MADRID 161KV CKT 1 AECL	6/1/2010	6/1/2011			\$ 600,000	\$ 600,000
	5NEWMAD 161.00 - NEW MADRID 161KV CKT 1 SWPA	6/1/2010	6/1/2011			\$ -	\$ -
	ASHERVILLE - IDALIA 161KV CKT 1	6/1/2010	6/1/2012			\$ -	\$ -
	CALICO ROCK - NORFORK 161KV CKT 1 EES	12/1/2010	12/1/2010			\$ -	\$ -
	CALICO ROCK - NORFORK 161KV CKT 1 SWPA	12/1/2010	6/1/2011			\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2011			\$ -	\$ -
	HERGETT - JONESBORO 161KV CKT 1 EES	6/1/2010	6/1/2010			\$ -	\$ -
	HERGETT - JONESBORO 161KV CKT 1 SWPA	6/1/2010	6/1/2010			\$ 5,000	\$ 5,000
	HERGETT - TRUMANN WEST AECC 161KV CKT 1 EES	6/1/2010	6/1/2010			\$ -	\$ -
	JONESBORO - JONESBORO 161KV CKT 1 EES	6/1/2010	6/1/2010			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2010	6/1/2013			\$ -	\$ -
Total						\$ 605,000	\$ 605,000

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

Customer Study Number  
WRGS AG2-2008-034

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1457037	WR	WR	174	1/4/2019	1/4/2029			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1457037	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						Total	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457037	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	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	DUN	EOC	Earliest Service Date	Redispatch Available
1457037	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer Study Number  
WRGS AG2-2008-035

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1457044	WR	WR	61	1/1/2014	1/1/2024	6/1/2015	6/1/2025	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1457044	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457044	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457044	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	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	DUN	EOC	Earliest Service Date	Redispatch Available
1457044	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer Study Number  
 WRGS AG2-2008-036

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1457049	WR	WR	167	6/1/2010	6/1/2020	6/1/2015	6/1/2025	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1457049	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457049	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2010	12/1/2011	10/1/2011	Yes
	East Manhattan to Mcdowell 230 kv	6/1/2010	6/1/2012	10/1/2011	Yes
	IATAN - NASHUA 345KV CKT 1	6/1/2010	6/1/2015		No

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457049	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV C	6/1/2010	6/1/2011	10/1/2010	Yes
	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	6/1/2012	6/1/2012		
	FRIO-DRAW - POTTER 345 KV	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2015	6/1/2015		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2015	6/1/2015		
	POTTER - ANADARKO 345 KV	6/1/2017	6/1/2017		
	SEWARD - ST JOHN 115KV CKT 1	6/1/2010	6/1/2011		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457049	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2010	6/1/2011	10/1/2010	Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1457049	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AEPW	BETHEL - BROKEN BOW 138KV CKT 1	Interim redispach	6/1/2011	6/1/2012	\$ -
AEPW	BROKEN ARROW NORTH - SOUTH TAP - ONETA 138KV CKT 1	Rebuild 4.33 of 795 ACSR with 1590 ACSR. Replace Oneta wavetrp & Jumpers	6/1/2015	6/1/2015	\$ 4,600,000
AEPW	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1 AEPW	Indeterminate	6/1/2015	6/1/2015	\$ -
MKEC	CIMARRON RIVER PLANT - HAYNE 3 115.00 115KV CKT 1	Indeterminate	6/1/2010	6/1/2010	\$ -
MKEC	CUDAHAY - JUDSON LARGE 115KV CKT 1	Indeterminate	6/1/2015	6/1/2015	\$ -
MKEC	FLETCHER - HOLCOMB 115KV CKT 1	Indeterminate	6/1/2011	6/1/2011	\$ -
MKEC	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	Rebuild 67.3% Ownership of 20.9 miles	6/1/2012	6/1/2013	\$ 7,900,000
NPPD	STEELEC7 115.00 115KV Capacitor	STEELEC7 115.00 115KV 15 MVAR Capacitor Addition	6/1/2012	6/1/2012	\$ 607,500
OKGE	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	Add 3rd 345/138KV Auto and convert the 345kv and 138KV to a breaker and a half configuration.	6/1/2010	6/1/2012	\$ 3,061,189
OKGE	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1 OKGE	Increase CT ratio at Jenson Rd to 1200 amp AEP conductor now limit	6/1/2015	6/1/2015	\$ 50,000
OKGE	MILLER - WHITE EAGLE 138KV CKT 1	Indeterminate	6/1/2011	6/1/2012	\$ -
SPS	MANHATTAN SUB - MANHATTAN TAP 115KV CKT 1	Indeterminate	6/1/2014	6/1/2014	\$ -
SPS	MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1	Replace Terminal Equipment	6/1/2010	6/1/2011	\$ 225,000
WERE	GOODYEAR JUNCTION - NORTHLAND 115KV CKT 1	Indeterminate	6/1/2015	6/1/2015	\$ -
WERE	GREENLEAF - KNOB HILL 115KV CKT 1 WERE	Rebuild 32.7% Ownership of 20.9 miles	6/1/2012	6/1/2013	\$ 3,800,000
WFEC	CACHE4 138.00 - PARADISE 138KV CKT 1	Indeterminate	6/1/2015	6/1/2015	\$ -

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	Rebuild 8.37 miles of 795 ACSR with 1590 ACSR & reset relays @ BSE	12/1/2010	6/1/2012
MKEC	CLIFTON - GREENLEAF 115KV CKT 1	Rebuild 14.4 miles	6/1/2010	6/1/2013
MKEC	HARPER - MILAN TAP 138KV CKT 1	Replace Terminal Equipment	6/1/2015	6/1/2015
MKEC	MEDICINE LODGE - PRATT 115KV CKT 1	Rebuild 26 mile line	6/1/2010	6/1/2013
MKEC	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	Upgrade to 100/147/170MVA transformer	6/1/2010	6/1/2013
WERE	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1	Replace Terminal Equipment	12/1/2011	1/1/2013
WERE	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	Add third 345-138 kV transformer at Rose Hill	6/1/2010	6/1/2011

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
OKGE	Multi - Johnson County Project	Build a new 345 EHV substation in the Sunnyside to Pittsburg line. Install a 400 MVA transformer with 3-345kv breakers in a ring bus and 4-138kv breakers in a ring bus at new Johnson County sub.	6/1/2010	6/1/2011

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
GRDA	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	Add a second 50 MVA Transformer at Afton Substation.	6/1/2010	6/1/2011
GRDA	CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	Upgrade both existing transformers	6/1/2010	6/1/2010
GRDA	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	Upgrade both existing transformers	6/1/2010	6/1/2010
KACP	IATAN - NASHUA 345KV CKT 1	tap Nashua 345KV bus in Hawthorn-St. Joseph 345kv line, add Iatan-Nashua 345kv line and Nashua 345/161kv transformer	6/1/2010	6/1/2015
MIPU	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	To tap Stilwell-Archie JCT 161 kV line into South Harper 161 kV sub and make it two new 161 kV sections: Stilwell-South Harper and Archie JCT- South Harper .	6/1/2010	10/1/2010
SUNC	HOLCOMB - PLYMELL 115KV CKT 1	Rebuild Holcomb to Plymell	6/1/2010	12/1/2010
SUNC	PIONEER TAP - PLYMELL 115KV CKT 1	Rebuild Plymell to Pioneer Tap	6/1/2010	12/1/2010
WERE	EAST MANHATTAN - NW MANHATTAN 230/115KV	Tap the Concordia - East Manhattan 230KV line and add a new substation "NW Manhattan"; Add a 230KV/115KV transformer and tap the KSU - Wildcat 115KV line into NW Manhattan	6/1/2010	12/1/2011
WERE	East Manhattan to McDowell 230 kV	The East Manhattan-McDowell 115 kV is built as a 230 kV line, but is operated at 115 kV. Substation work will have to be performed in order to convert this line.	6/1/2010	6/1/2012

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

Reliability Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.				
Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	BLUEBELL - PRATTVILLE 138KV CKT 1 AEPW	reconductor	6/1/2015	6/1/2015
AEPW	BROADMOOR - FERN STREET 69KV CKT 1	Rebuild 2 miles of 266 ACSR with 795 ACSR and replace Fern Street Switches.	6/1/2011	6/1/2012
AEPW	CARNEGIE - HOBART JUNCTION 138KV CKT 1	Rebuild 26.15 of 397 ACSR with 795 ACSR and replace switches, wavetrap & reset CT @ Hobart Jct.	6/1/2010	6/1/2013
AEPW	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1	Rebuild 14.37 miles of 397 ACSR with 795 ACSR and replace sub conductor at Fort Cobb Natural Gas	6/1/2010	6/1/2012
AEPW	CLINTON - CLINTON JUNCTION 138KV CKT 1 AEPW	Replace switch	6/1/2015	6/1/2015
AEPW	HOSSTON - RODESSA 69KV CKT 1	Reset CT settings at Hosston	6/1/2011	6/1/2011
AEPW	PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1	Replace transformer	6/1/2011	6/1/2012
AEPW	SAND SPRINGS - SHEFFIELD 138KV CKT 1	Replace switch at Sand Springs	6/1/2015	6/1/2015
EMDE	Multi - Stateline - Joplin - Reinmiller conversion	Tear down the Riverton to Joplin 59 69 kv line, rebuilding the line to 161 kv from Stateline to outside Joplin 59 sub. Tear down and rebuild Joplin 59 to Gateway to Pillsbury to Reinmiller, converting those 69 kv lines to 161 kv. Tap the 161 kv line betwe	6/1/2015	6/1/2015
GRDA	AFTON - FAIRLAND EDE TAP 69KV CKT 1	Replace terminal equipment	6/1/2010	6/1/2011
GRDA	CHILDERS 69KV CAPICITOR	Install 14.4 Mvar capacitor at Chelsea.	6/1/2010	6/1/2010
GRDA	CPP TRANSF #2 - PRYOR FOUNDRY SOUTH 69KV CKT 1	Replace 600A switch with 1200A switch	6/1/2015	6/1/2015
GRDA	MAID - PRYOR FOUNDRY SOUTH 69KV CKT 1	Upgrade conductor size 795 ACSR	6/1/2015	6/1/2015
GRDA	MAID - REDDEN 69KV CKT 1	Upgrade conductor size 795 ACSR	6/1/2015	6/1/2015
GRIS	SUB A - SUB D 115KV CKT 1	Indeterminate	6/1/2019	6/1/2019
MIDW	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	Tear down and rebuild 73.4% Ownership 28.79 mile HEC-Huntsville 115 kv line and replace CT, wavetrap and relays.	6/1/2015	6/1/2015
MIDW	HUNTSVILLE - ST_JOHN 115KV CKT 1	Rebuild 26.5 miles Huntsville - St. John 115 kv line and replace CT, wavetrap, breakers, and relays.	6/1/2015	6/1/2015
MIPU	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1	Reconductor BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1 to 466/558MVA	6/1/2019	6/1/2019
MIPU	LONGVIEW - WESTERN ELECTRIC 161KV CKT 1	Replace wavetraps at Longview and Western Electric	6/1/2018	6/1/2018
MKEC	CLEARWATER - MILAN TAP 138KV CKT 1 MKEC	Rebuild MKEC portion of the Clearwater-Milan tap 115 kv with bundled 1192.5 kcmil ACSR contuctor (Bunting)	6/1/2015	6/1/2015
MKEC	EAST HALL TAP 115KV	Indeterminate	6/1/2010	6/1/2010
MKEC	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1	Indeterminate	6/1/2010	6/1/2010
MKEC	SEWARD - ST JOHN 115KV CKT 1	Replace Terminal Equipment	6/1/2010	6/1/2011
NPPD	BEATRICE - HARBINE 115KV CKT 1	Reconductor and upgrade terminal equipment to effect higher rating by 2019. 240 MVA Normal Continuous Rating.	6/1/2019	6/1/2019
OKGE	BLUEBELL - PRATTVILLE 138KV CKT 1 OKGE	Indeterminate	6/1/2015	6/1/2015
OKGE	BRYANT - JONES TAP 138KV CKT 1	Replace switch at Jones Tap	6/1/2015	6/1/2015
OKGE	COLONY - FT SMITH 161KV CKT 1	Reconductor 2.2 miles to Drake ACCC/TW and change terminal equipment at Ft. Smith & Colony to 2000A	6/1/2010	6/1/2012
OKGE	FPL SWITCH - WOODWARD 138KV CKT 1	Reconductor/rebuild 12.07 miles of line to 795AS33.	6/1/2015	6/1/2015
OKGE	JENSEN ROAD - JENSEN TAP 138KV CKT 1	Increase 800 amp wavetrap to 1200 amp	6/1/2015	6/1/2015
OKGE	RUSSETT - RUSSETT 138KV CKT 1 OKGE	Replace trap and increase CTR. Pending verification of relays.	6/1/2010	6/1/2012
OPPD	SUB 963 - WEST BROCK 69KV CKT 1	Indeterminate	6/1/2010	6/1/2010
SPRM	BROOKLINE - SUMMIT 345 kv CKT 1	Build a 345 kv line from Brookline to Summit substation and install a 345/161 kv autotransformer at Summit	6/1/2014	6/1/2014
SPS	CAPROCK REC UPGRADES	Build new Midland - Borden County 345 kv line, operate at 230 kv. Add second 230/138 kv transformers at Midland and Borden County. Add 50 MVAR cap bank at Midland 138 kv and 14.4 MVAR cap bank at Caprock REC-Midkiff 138 kv	6/1/2015	6/1/2015
SPS	CHERRY SUB 230/115 KV TRANSFORMER CKT 1	Tap Harrington - Potter 230 kv and step down to 115 at Cherry Sub.	6/1/2011	6/1/2012
SPS	DEAF SMITH - PANDA 115 kv CKT 1	Reconductor 115 kv circuit 1.0 miles with 4/0 AS kcmil conductor	6/1/2010	6/1/2012
SPS	DEAF SMITH COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 3	Add third 230/115 kv auto (150/175.2 MVA)	6/1/2010	6/1/2013
SPS	EAST PLANT CAPACITOR	add 50 MVAR cap bank at East Plant 115 KV	6/1/2010	6/1/2012
SPS	EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1	Reconductor with 795 ACSR	6/1/2010	6/1/2012
SPS	FRIO-DRAW - POTTER 345 KV	Build new 345 kv line from Potter to new Frio-Draw substation at Roosevelt. Build 345/230 kv and 230/115 kv transformers at Frio-Draw substation. Build new line Roosevelt N - Frio-Draw - Oasis 230 kv.	6/1/2013	6/1/2013
SPS	HASTINGS 115 KV CONVERSION	Convert Hastings Sub to 115 kv. Build Bush - Hastings - East Plant 397 ACSR. Tap Harrington - Potter 230 kv and step down to 115 at Cherry Sub.	6/1/2011	6/1/2013
SPS	JONES STATION - JONES STATION BUS #2 230KV CKT 2	add new bus tie between Jones Station Bus #1 and #2	6/1/2015	6/1/2015
SPS	KRESS CAPACITOR	add 28 MVAR cap bank at Kress 115 KV	6/1/2015	6/1/2015
SPS	MANHATTAN TAP - OSAGE SWITCHING STATION 115KV CKT 1	Reconductor	6/1/2011	6/1/2012
SPS	NEWHART 230/115 KV TRANSFORMER CKT 2	add second Newhart transformer	6/1/2015	6/1/2015
SPS	NEWHART INTERCHANGE PROJECT	Add Newhart 230 kv bus tapping Plant X - Potter 230 kv. Build Newhart - Swisher County Interchange 230 kv. Add Newhart 115 kv bus and build new 115 kv line from Castro - Newhart - Kress. Add Newhart 230/115 kv Transformer (copy of Pecos 150 MVA). Buil	6/1/2011	6/1/2013
SPS	NICHOLS - RANDALL - AMARILLO SOUTH 230 KV CKT 1	Rebuil Nichols - Randall 230 line, tie into Randall sub	6/1/2010	6/1/2013
SPS	POTTER - ANADARKO 345 KV	Build new 345 kv line from Potter to Midpoint Bus (Stateline) to Anadarko.	6/1/2017	6/1/2017
SPS	RANDALL 230/115 KV TRANSFORMER CKT 2	add new 230/115 kv transformer at Randall	6/1/2010	6/1/2013
SPS	ROOSEVELT 230/115 KV TRANSFORMER CKT 2	add second 230/115 KV transformer at Roosevelt	6/1/2010	6/1/2013
SPS	SOUTH PLAINS REC-YUMA - WOLFFORTH INTERCHANGE 115KV CKT 1	replace terminal equipment and reconductor 600 feet of 397.5 ACSR at Wolfforth to match l-line from Yuma	6/1/2010	6/1/2012
SPS	SWISHER CAPACITOR	add 28 MVAR cap bank at Swisher 115 KV	6/1/2015	6/1/2015
SPS	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	Indeterminate	6/1/2015	6/1/2015
SPS	TUCO INTERCHANGE 230/115KV TRANSFORMER CKT 3	add 3rd transformer at Tucu	6/1/2015	6/1/2015

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

WERE	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	Add second Auburn 230-115 kV transformer.	6/1/2015	6/1/2015
WERE	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV CKT 1	Rebuild Line	6/1/2010	6/1/2011
WERE	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	Reset terminal equipment	6/1/2011	6/1/2011
WERE	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	Tear down and rebuild 7.88 mile Gill-Clearwater 69 kV.	6/1/2012	6/1/2012
WERE	CLEARWATER - MILAN TAP 138KV CKT 1 WERE	Rebuild Westar portion of the Clearwater-Milan tap 115 kV with bundled 1192.5 kcmil ACSR conductor (Bunting)	6/1/2015	6/1/2015
WERE	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	Replace wave trap	6/1/2011	6/1/2011
WERE	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	Tear down and rebuild 26.6% Ownership 28.79 mile HEC-Huntsville 115 kV line and replace CT, wavetrap and relays.	6/1/2015	6/1/2015
WFEC	ANADARKO - PARADISE 138KV CKT 1	Indeterminate	6/1/2015	6/1/2015
WFEC	CLINTON - CLINTON JUNCTION 138KV CKT 1 WFEC	Indeterminate	6/1/2015	6/1/2015
WFEC	ERICK 138KV CAPICITOR	Install 18 Mvar capacitor at Erick 138 kV bus.	6/1/2015	6/1/2015
WFEC	HYDRO CAPICITOR 138KV	Add 12 Mvar Capacitor at Hydro	6/1/2015	6/1/2015
WFEC	RUSSETT - RUSSETT 138KV CKT 1 WFEC	Replace trap and increase CTR. Pending verification of relays.	6/1/2010	6/1/2010

**Previously Assigned Aggregate Study Upgrades requiring credits to Previous Aggregate Study Customers.**

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	ALUMAX TAP - BANN 138KV CKT 1	Replace six (6) 138 kV switches, five at Bann & one at Alumax Tap. Rebuild 0.67 miles of 1024 ACAR with 2156 ACSR. Replace wavetrap & jumpers @ Bann. Replace breaker 3300 @ Bann.	6/1/2008	6/1/2008
AEPW	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	Reconductor and convert line to 138 kV and replace switches at Ashdown REC	7/1/2012	7/1/2012
AEPW	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	Reconductor Line & Convert Line to 138 kV and convert Patterson station to breaker-and-a-half configuration	7/1/2012	7/1/2012
AEPW	BANN - RED SPRINGS REC 138KV CKT 1	Replace 138 kV breakers 3300 & 3310	7/1/2012	7/1/2012
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Valliant 345 KV line terminal	7/1/2012	7/1/2012
AEPW	MCNAB REC - TURK 115KV CKT 1	Build a new two mile, 138 kV, 1590 ACSR line section (operated at 115 kV) from Turk Substation to the existing Okay- Hope 115 kV line to form a Turk - Hope 115 kV line.	7/1/2012	7/1/2012
AEPW	OKAY - TURK 138KV CKT 1	Build two mile, 138 kV, 1590ACSR line section from Turk Sub to existing Okay-Hope 115 kV line and rebuild twelve miles of 115 kV line to Okay Sub to 138 kV, 1590 ACSR, to form a Turk-Okay 138 kV line	7/1/2012	7/1/2012
AEPW	SE TEXARKANA - TURK 138KV CKT 1	Build new Turk-SE Texarkana 138 kV line and add SE Texarkana 138 kV terminal.	7/1/2012	7/1/2012
AEPW	SUGAR HILL - TURK 138KV CKT 1	Build new Turk-Sugar Hill 138 kV line and add Sugar Hill 138 kV terminal.	7/1/2012	7/1/2012
EMDE	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	Reconductor Oronogo 59467 to Riverton 59469 with Bundled 556 ACSR	6/1/2011	6/1/2011
KACP	LACYGNE - WEST GARDNER 345KV CKT 1	KCPL Sponsored Project to Reconductor Line to be In-Service by 6/1/2006	6/1/2006	6/1/2006
OKGE	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	Replace bus tie with 100MVA transformer	6/1/2006	6/1/2008
OKGE	NORTHWEST - WOODWARD 345KV CKT 1	Build 120 miles of 345 kV	1/1/2010	1/1/2010
OKGE	WOODWARD - IODINE 138KV CKT 1	Tap Iodine to Woodward 138 kV line	1/1/2010	1/1/2010
OKGE	WOODWARD - WOODWARD EHV 138KV CKT 1	Build .5 miles of 138 kV and install terminal equipment	1/1/2010	1/1/2010
OKGE	WOODWARD - WOODWARD EHV 138KV CKT 2	Build .5 miles of 138 kV and install terminal equipment	1/1/2010	1/1/2010
OKGE	WOODWARD 345/138KV TRANSFORMER CKT 1	Install 345/138 kV XF	1/1/2010	1/1/2010
WERE	RENO 345/115KV CKT 1	New stepdown transformer at a new substation in Reno County east northeast of Hutchinson	6/1/2009	6/1/2009
WERE	RENO 345/115KV CKT 2	Install 2nd stepdown transformer at Reno County substation east northeast of Hutchinson	6/1/2010	6/1/2010
WERE	SUMMIT - RENO 345KV	Install new 50.55-mile 345 kV line from Reno county to Summit; 31 miles of 115 kV line between Circle and S Philips would be rebuilt as double circuit with the 345 kV line to minimize ROW impacts; Substation work required at Summit for new 345 kV terminal	6/1/2010	6/1/2010
WERE	WICHITA - RENO 345KV	40 mile 345 kV transmission line from existing Wichita 345 kV substation to a new 345-115 kV substation in Reno County east northeast of Hutchinson (Wichita to Reno)	6/1/2009	6/1/2009
WFEC	HUGO POWER PLANT - VALLIANT 345 KV WFEC	New 19 miles 345 KV	7/1/2012	7/1/2012
WFEC	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	New 345/138 kv Auto	7/1/2012	7/1/2012

Table 5 - Third Party Facility Constraints

Transmission Owner	UpgradeName	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AECI	4FISHERTP 138.00 - KEYSTONE DAM 138KV CKT 1	4.26 mile line designed for 75-C. If this can be uprated to 100 C	6/1/2011	6/1/2012	\$ 500,000
AECI	4LUTHER 138.00 138/69KV TRANSFORMER CKT 1	Upgrade to 84 MVA transformer	6/1/2011	6/1/2012	\$ 2,000,000
AECI	5NEWMAD 161.00 - NEW MADRID 161KV CKT 1 AECI	5.4 mile line designed for 75-C. If this can be uprated to 100 C	6/1/2010	6/1/2011	\$ 600,000
CELE	CARROLL - RINGGOLD 138KV CKT 1	Indeterminate	6/1/2015	6/1/2015	Indeterminate
EES	4KSPRGS - CHAMPAGNE 138KV CKT 1	Rebuild Transmission Line 13.5 mile:	6/1/2010	6/1/2013	\$ 15,569,784
EES	4KSPRGS - LINE 642 TAP 138KV CKT 1	Rebuild Transmission Line 0.1 mile:	6/1/2011	6/1/2013	\$ 310,060
EES	ALPINE AECC - AMITY SS 115KV CKT 1	Rebuild Transmission Line 2.88 mile:	12/1/2010	6/1/2013	Indeterminate
EES	ALPINE AECC - BISMARCK 115KV CKT 1	Rebuild Transmission Line 14.88 mile:	12/1/2010	6/1/2013	Indeterminate
EES	BISMARCK - HOT SPRINGS WEST BUS 115KV CKT 1	Rebuild Transmission Line 19.61 mile:	12/1/2010	6/1/2013	Indeterminate
EES	BULL SHOALS - BULL SHOALS HES 161KV CKT 1 EES	Indeterminate	6/1/2015	6/1/2019	Indeterminate
EES	CALICO ROCK - NORFORK 161KV CKT 1 EES	Indeterminate	12/1/2010	12/1/2010	Indeterminate
EES	CEDAR HILL - PLANTATION 138KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
EES	CEDAR HILL - TAMINA 138KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
EES	FAIRVIEW - MADISONVILLE 230KV CKT 1	Indeterminate	6/1/2010	6/1/2010	Indeterminate
EES	HARTBURG - INLAND-ORANGE 230KV CKT 1	Indeterminate	6/1/2010	6/1/2010	Indeterminate
EES	HERGETT - JONESBORO 161KV CKT 1 EES	Indeterminate	6/1/2010	6/1/2010	Indeterminate
EES	HERGETT - TRUMANN WEST AECC 161KV CKT 1 EES	Indeterminate	6/1/2010	6/1/2010	Indeterminate
EES	JONESBORO - JONESBORO 161KV CKT 1 EES	Indeterminate	6/1/2010	6/1/2010	Indeterminate
EES	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	Replace switches @Livonia & 12.94 miles transmission line	6/1/2011	6/1/2011	\$ 12,371,002
EES	LIVONIA BULK - WILBERT 138KV CKT 1	Replace switches, breakers, & CTs @ Wilbert & Livonia. 19.29 miles transmission line	6/1/2011	6/1/2011	\$ 41,123,000
EES	PORTER - TAMINA 138KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
EES	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	Rebuild Transmission Line 4.10 mile:	6/1/2010	6/1/2013	Indeterminate
INDN	ECKLES - SIBLEYPL 161.00 161KV CKT 1	Reconductor	6/1/2010	6/1/2011	Indeterminate
INDN	SUBSTATION M 161/69KV TRANSFORMER CKT 2	Add second 100 MVA xfr at Substation M	6/1/2010	6/1/2012	Indeterminate
SWPA	5NEWMAD 161.00 - NEW MADRID 161KV CKT 1 SWPA	Indeterminate	6/1/2010	6/1/2011	Indeterminate
SWPA	ASHERVILLE - IDALIA 161KV CKT 1	Reconductor line	6/1/2010	6/1/2012	Indeterminate
SWPA	BULL SHOALS - BULL SHOALS HES 161KV CKT 1 SWPA	Replace buswork in Bull Shoals switchyard	6/1/2015	6/1/2015	Indeterminate
SWPA	CALICO ROCK - NORFORK 161KV CKT 1 SWPA	Replace bus, CTs, & Wave Trap @ Norfolk	12/1/2010	6/1/2011	Indeterminate
SWPA	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	Replace wave trap, disconnect switches, current transformers, and breaker. Bus will limit rating to 1340 amps	6/1/2010	6/1/2011	Indeterminate
SWPA	HERGETT - JONESBORO 161KV CKT 1 SWPA	Increase the CT ratio to 1200/5. This would involve changing taps on the CT, adjusting the scaling on a panel meter, and changing relay settings.	6/1/2010	6/1/2010	\$ 5,000