



*Aggregate Facility Study  
SPP-2007-AG3-AFS-5  
For Transmission Service  
Requested by  
Aggregate Transmission Customers*

*SPP Engineering, SPP Tariff Studies*

SPP AGGREGATE FACILITY STUDY (SPP-2007-AG3-AFS-5)

November 12, 2008

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## **1. Executive Summary**

Pursuant to Attachment Z1 of the Southwest Power Pool Open Access Transmission Tariff (OATT), 1597 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 \$39 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 \$100 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 \$43 Million.

Third-party facilities must be upgraded when it is determined they are constrained in order to accommodate the requested Transmission Service. These include both first-tier neighboring facilities outside SPP and Transmission Owner facilities within SPP that are not under the SPP OATT. In this AFS, third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are indeterminate.

The Transmission Provider will tender a Letter of Intent on November 12th, 2008. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by November 27th, 2008, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

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

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

## **2. Introduction**

On January 21, 2005, the Federal Energy Regulatory Commission accepted Southwest Power Pool's proposed aggregate transmission study procedures in Docket ER05-109 to become effective February 1, 2005. . In compliance with this Order, the third open season of 2007 commenced on June 1, 2007. All requests for long-term transmission service received prior to October 1, 2007 with a signed study agreement were then included in this third Aggregate Transmission Service Study (ATSS) of 2007.

Approximately 1597 MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$39 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.

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

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

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

Facilities identified as limiting the requested Transmission Service have been reviewed to determine the required in-service date of each Network Upgrade. The year that each Network Upgrade is required to accommodate a request is determined by interpolating between the

applicable model years given the respective loading data. Both previously assigned facilities and the facilities assigned to this request for Transmission Service were evaluated.

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

Some constraints identified in the AFS were not assigned to the Customer as the Transmission Provider determined that upgrades are not required due to various reasons or the Transmission Owner has construction plans pending for these upgrades. These facilities are listed by reservation in Table 3. This table also includes constrained facilities in the current planning horizon that limit the rollover rights of the Transmission Customer. Table 6 lists possible redispatch pairs to allow start of service prior to completion of assigned network upgrades. Table 7 (if applicable) lists deferment of expansion plan projects with different upgrades with the new required in service date as a result of this AFS.

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

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

redispatch in the subsequent AFS. The upgrade levelized revenue requirement includes interest, depreciation, and carrying costs.

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

In the event that the engineering and construction of a previously assigned Network Upgrade may be expedited, with no additional upgrades, to accommodate a new request for Transmission Service, then the levelized present worth of only the incremental expenses through the reservation period of the new request, excluding depreciation, shall be assigned to the new request. These incremental expenses, excluding depreciation, include 1) the levelized difference in present worth of the engineering and construction expenses given the change in date to complete construction to account for additional interest expense and reduced engineering and construction expense due to inflation, 2) the levelized present worth of all expediting fees, and 3) the levelized present worth of the incremental annual carrying charges, excluding depreciation and interest, during the new reservation period taking into account both a) the reservation in which the project was originally assigned, and b) a reservation, if any, in which the project was previously expedited.

Achievable Base Plan Avoided Revenue Requirements in the case of a Base Plan upgrade being displaced or deferred by an earlier in service date for a Requested Upgrade shall be determined per Attachment J, Section VII.B methodology. A deferred Base Plan upgrade being defined as a different requested network upgrade needed at an earlier date that negates the need for the initial



base plan upgrade within the planning horizon. A displaced Base Plan upgrade being defined as the same network upgrade being displaced by a requested upgrade needed at an earlier date. Assumption of a 40 year service life is utilized for Base Plan funded projects unless provided otherwise by the Transmission Owner. A present worth analysis of revenue requirements on a common year basis between the Base Plan and Requested Upgrades was performed to determine avoided Base Plan revenue requirements due to the displacement or deferral of the Base Plan upgrade by the Requested Upgrade. The difference in present worth between the Base Plan and Requested Upgrades is assigned to the transmission requests impacting this upgrade based on the displacement or deferral.

### **B. Third Party Facilities**

For third-party facilities listed in Table 3 and Table 5, the Transmission Customer is responsible for funding the necessary upgrades of these facilities per Section 21.1 of the Transmission Provider's OATT. In this AFS, third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are indeterminate. The Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in making arrangements for necessary engineering, permitting, and construction of the third-party facilities. Third-party facility upgrade engineering and construction cost estimates are not utilized to determine the present worth value of levelized revenue requirements for SPP system network upgrades.

All modeled facilities within the Transmission Provider system were monitored during the development of this Study as well as certain facilities in first-tier neighboring systems. Third-party facilities must be upgraded when it is determined that they are overloaded while accommodating the requested Transmission Service. An agreement between the Customer and 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 110% and 90%. The upper bound and lower bound of the emergency voltage range monitored is 110% and 90%. Transmission Owner voltage monitoring criteria is used if more restrictive. The SPS Tuco 230 kV bus voltage is monitored at 92.5% due to pre-determined system stability limitations. The WERE Wolf Creek 345 kV bus voltage is monitored at 98.5% due to transmission operating procedure.

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

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

## **B. Model Development**

SPP used twelve seasonal models to study the aggregate transfers of 1597 MW over a variety of requested service periods. The SPP MDWG 2008 Series Quarter 4 Cases 2008/09 Winter Peak (08WP), 2009 April (09AP), 2009 Spring Peak (09G), 2008 Summer Peak (09SP), 2009 Summer Shoulder (09SH), 2009 Fall Peak (09FA), 2009/10 Winter Peak (09WP), 2010 Summer Peak (10SP), 2010/11 Winter Peak (10WP), 2013 Summer Peak (13SP), 2013/14 Winter Peak (13WP), and 2018 Summer Peak (18SP) 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 1597 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 2008 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 2008 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 2008 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 2008 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 2008 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, 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. If the 5 year term and 125% resource to load criteria are met, the lesser of the planned maximum net dependable capacity (NDC) or the requested capacity is multiplied by \$180,000 to determine the potential base plan funding allowable. When calculating Base Plan Funding amounts that include a wind farm, the amount used is 10% of the requested amount of service, or the NDC. The Maximum Potential Base Plan Funding Allowable may be less than the potential base plan funding allowable due to the E & C Cost allocated to the customer being lower than the potential amount allowable to the customer. The customer is responsible for any assigned upgrade costs in excess of Potential Base Plan Engineering and Construction Funding Allowable.

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

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

Example A:

E & C allocated for upgrades is 74 million with revenue requirements of 140 million and PTP base rate of 101 million. Potential base plan funding is 47 million with the difference of 27



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

Example B:

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

Example C:

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

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

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

## **B. Study Definitions**

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

## **5. Conclusion**

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

The Transmission Provider will tender a Letter of Intent on November 12th, 2008. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by November 27th, 2008, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

The Transmission Provider must receive an unconditional and irrevocable letter of credit in the amount of the total allocated Engineering and Construction costs assigned to the Customer. This letter of credit is not required for those facilities that are base plan funded. This amount is for all assignable Network Upgrades less pre-payment requirements. The amount of the letter of credit will be adjusted down on an annual basis to reflect amortization of these costs. The Transmission Provider will issue letters of authorization to construct facility upgrades to the constructing Transmission Owner. This date is determined by the engineering and construction lead time provided for each facility upgrade.

## 6. Appendix A

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

#### BASE CASES:

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

Tap adjustment – Stepping

Area interchange control – Tie lines and loads

Var limits – Apply immediately

Solution options -  Phase shift adjustment

Flat start

Lock DC taps

Lock switched shunts

#### ACCC CASES:

Solutions – AC contingency checking (ACCC)

MW mismatch tolerance – 0.5

Contingency case rating – Rate B

Percent of rating – 100

Output code – Summary

Min flow change in overload report – 3mw

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

Exclude interfaces from report – NO

Perform voltage limit check – YES

Elements in available capacity table – 60000

Cutoff threshold for available capacity table – 99999.0

Min. contng. case Vltg chng for report – 0.02

Sorted output – None

Newton Solution:

Tap adjustment – Stepping

Area interchange control – Tie lines and loads

Var limits - Apply automatically

Solution options -  Phase shift adjustment

Flat start

Lock DC taps

Lock switched shunts

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

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date without interim redispatch	Deferred Stop Date without interim redispatch	Start Date with interim redispatch	Stop Date with interim redispatch	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period
AEPM	AG3-2007-015	1337138	CSWS	EES	22	1/1/2009	1/1/2010	6/1/2011	6/1/2012	1/1/2009	1/1/2010	0	09SP
AEPM	AG3-2007-054	1352732	CSWS	CSWS	100	1/1/2010	1/1/2011	6/1/2012	6/1/2013	1/1/2010	1/1/2011	0	10SP
AEPM	AG3-2007-063	1352923	CSWS	CSWS	50	1/1/2009	1/1/2011	7/1/2012	7/1/2014	1/1/2009	1/1/2011	0	09SP
AEPM	AG3-2007-065	1352934	CSWS	CSWS	54	6/1/2010	6/1/2015	7/1/2012	7/1/2017	6/1/2010	6/1/2015	0	10SP
CMLP	AG3-2007-047	1352193	GRDA	CSWS	197	6/1/2008	6/1/2042	6/1/2012	6/1/2046	1/1/2009	1/1/2043	0	09SP
CRGL	AG3-2007-018	1340342	KCPL	CLEC	103	2/1/2008	2/1/2009	6/1/2011	6/1/2012	1/1/2009	1/1/2010	0	09SP
CRGL	AG3-2007-019	1340343	OPPD	CLEC	103	2/1/2008	2/1/2009	1/1/2009	1/1/2010	1/1/2009	1/1/2010	0	09SP
EDE	AG3-2007-037	1350960	KCPL	EDE	5	11/1/2008	11/1/2018	6/1/2012	6/1/2022	1/1/2009	1/1/2019	0	09SP
EDE	AG3-2007-046	1352109	KCPL	EDE	5	1/1/2010	1/1/2030	6/1/2011	6/1/2031	1/1/2010	1/1/2030	0	10SP
GRDA	AG3-2007-034	1350396	OKGE	GRDA	150	6/1/2008	6/1/2013	6/1/2012	6/1/2017	1/1/2009	1/1/2014	0	09SP
KBPU	AG3-2007-017D	1339117	MPS	KACY	5	2/1/2008	2/1/2009	6/1/2013	6/1/2014	1/1/2009	1/1/2010	0	09SP
KCPS	AG3-2007-074	1353013	KCPL	KCPL	45	11/1/2008	11/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	09SP
KEPC	AG3-2007-064	1352933	WR	KCPL	15	6/1/2008	6/1/2040	6/1/2013	6/1/2045	1/1/2009	1/1/2041	0	09SP
KEPC	AG3-2007-066	1352938	WR	WR	68	6/1/2008	6/1/2040	6/1/2011	6/1/2043	6/1/2011	6/1/2043	0	09SP
KMEA	AG3-2007-104	1355377	OPPD	KCPL	20	1/1/2009	1/1/2013	6/1/2011	6/1/2015	1/1/2009	1/1/2013	0	09SP
KPP	AG3-2007-040	1351224	WR	WR	4	2/1/2008	2/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	09SP
MIDW	AG3-2007-082	1353081	WR	WR	5	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-082	1353082	WR	WR	4	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-082	1353083	WR	WR	3	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-082	1353084	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-082	1353085	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-083	1353086	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-083	1353088	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-084	1353090	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-084	1353091	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-084	1353092	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-086	1353097	WR	WR	3	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-086	1353098	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-086	1353099	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-087	1353102	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-087	1353103	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016	0	09SP
MIDW	AG3-2007-090	1353110	WR	WR	25	3/1/2008	3/1/2027	6/1/2011	6/1/2030	1/1/2009	1/1/2028	0	09SP
MIDW	AG3-2007-091	1353111	WR	WR	25	1/1/2009	1/1/2029	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	09SP
OMPA	AG3-2007-035	1350945	OKGE	OKGE	23	5/1/2008	5/1/2017	6/1/2011	6/1/2020	1/1/2009	1/1/2018	0	09SP
SPSM	AG3-2007-080	1353054	WPEK	KCPL	50	10/1/2008	6/1/2010	6/1/2013	2/1/2015	1/1/2009	9/1/2010	0	09SP
SPSM	AG3-2007-080	1353055	WPEK	KCPL	50	10/1/2008	6/1/2010	6/1/2013	2/1/2015	1/1/2009	9/1/2010	0	09SP
SPSM	AG3-2007-081	1353057	WPEK	KCPL	50	6/1/2010	1/1/2012	6/1/2013	1/1/2015	6/1/2010	1/1/2012	0	10SP
SPSM	AG3-2007-081	1353059	WPEK	KCPL	50	6/1/2010	1/1/2012	6/1/2013	1/1/2015	6/1/2010	1/1/2012	0	10SP
WFEC	AG3-2007-043	1510704	WFEC	WFEC	150	5/1/2009	5/1/2039	6/1/2011	6/1/2041	5/1/2009	5/1/2039	0	09SP
WRGS	AG3-2007-025	1346837	SECI	WR	96	11/1/2008	11/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	09SP
WRGS	AG3-2007-026	1346842	SECI	WR	100	12/31/2008	12/31/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	09SP

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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 2008 Summer Shoulder, and 2008 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.

**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	1Letter of Credit Amount Required	2Potential Base Plan Engineering and Construction Funding Allowable	Notes	4Additional Engineering and Construction Cost for 3rd Party Upgrades	3 Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITHOUT Potential Base Plan Funding Allocation	3 5 Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITH Potential Base Plan Funding Allocation	Point-to-Point Base Rate Over Reservation Period	4Total Cost of Reservation Assignable to Customer Contingent Upon Base Plan Funding
APEM	AG3-2007-015	1337138	\$ 4,632	\$ -	\$ -		Indeterminate	\$ 7,066	\$ 7,066	\$ -	\$ 7,066
APEM	AG3-2007-054	1352732	\$ 344,114	\$ 334,713	\$ -		Indeterminate	\$ 433,837	\$ 433,837	\$ -	\$ 433,837
APEM	AG3-2007-063	1352923	\$ 2,800,000	\$ -	\$ -		Indeterminate	\$ 3,111,630	\$ 3,111,630	\$ -	\$ 3,111,630
APEM	AG3-2007-065	1352934	\$ -	\$ -	\$ -	6	Indeterminate	\$ -	\$ -	\$ -	Schedule 9 Charges
CMLP	AG3-2007-047	1352193	\$ 8,773,686	\$ -	\$ 8,773,686	9	\$ -	\$ 38,060,051	\$ -	\$ -	Schedule 9 Charges
CRGL	AG3-2007-018	1340342	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 1,909,839	\$ 1,909,839
CRGL	AG3-2007-019	1340343	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 1,909,839	\$ 1,909,839
EDE	AG3-2007-037	1350960	\$ 9,534	\$ -	\$ 9,534		Indeterminate	\$ 19,106	\$ -	\$ -	Schedule 9 Charges
EDE	AG3-2007-046	1352109	\$ 9,534	\$ -	\$ 9,534		Indeterminate	\$ 29,282	\$ -	\$ -	Schedule 9 Charges
GRDA	AG3-2007-034	1350396	\$ 4,027,426	\$ -	\$ 4,027,426		\$ 2,000,000	\$ 5,469,207	\$ -	\$ -	Schedule 9 Charges
KBPU	AG3-2007-017D	1339117	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 52,800	\$ 52,800
KCPS	AG3-2007-074	1353013	\$ 751,150	\$ -	\$ 751,150		\$ -	\$ 1,622,575	\$ -	\$ -	Schedule 9 Charges
KEPC	AG3-2007-064	1352933	\$ 520,621	\$ -	\$ 520,621		\$ -	\$ 2,166,616	\$ -	\$ -	Schedule 9 Charges
KEPC	AG3-2007-066	1352938	\$ 738,710	\$ -	\$ 738,710	9	Indeterminate	\$ 3,755,454	\$ -	\$ -	Schedule 9 Charges
KMEA	AG3-2007-104	1355377	\$ 290,035	\$ 290,035	\$ -		\$ -	\$ 493,728	\$ 493,728	\$ -	\$ 493,728
KPP	AG3-2007-040	1351224	\$ 27	\$ -	\$ -	27	\$ -	\$ 52	\$ -	\$ -	Schedule 9 Charges
MIDW	AG3-2007-082	1353081	\$ 149,287	\$ 149,287	\$ -		\$ -	\$ 334,489	\$ 334,489	\$ 472,500	\$ 472,500
MIDW	AG3-2007-082	1353082	\$ 119,430	\$ 119,430	\$ -		\$ -	\$ 267,593	\$ 267,593	\$ 378,000	\$ 378,000
MIDW	AG3-2007-082	1353083	\$ 89,572	\$ 89,572	\$ -		\$ -	\$ 200,692	\$ 200,692	\$ 283,500	\$ 283,500
MIDW	AG3-2007-082	1353084	\$ 59,715	\$ 59,715	\$ -		\$ -	\$ 133,795	\$ 133,795	\$ 189,000	\$ 189,000
MIDW	AG3-2007-082	1353085	\$ 29,857	\$ 29,857	\$ -		\$ -	\$ 66,896	\$ 66,896	\$ 94,500	\$ 94,500
MIDW	AG3-2007-083	1353086	\$ 27,943	\$ 27,943	\$ -		\$ -	\$ 62,624	\$ 62,624	\$ 94,500	\$ 94,500
MIDW	AG3-2007-083	1353088	\$ 55,887	\$ 55,887	\$ -		\$ -	\$ 125,251	\$ 125,251	\$ 189,000	\$ 189,000
MIDW	AG3-2007-084	1353090	\$ 22,872	\$ 22,872	\$ -		\$ -	\$ 51,445	\$ 51,445	\$ 94,500	\$ 94,500
MIDW	AG3-2007-084	1353091	\$ 45,741	\$ 45,741	\$ -		\$ -	\$ 102,883	\$ 102,883	\$ 189,000	\$ 189,000
MIDW	AG3-2007-084	1353092	\$ 45,741	\$ 45,741	\$ -		\$ -	\$ 102,883	\$ 102,883	\$ 189,000	\$ 189,000
MIDW	AG3-2007-086	1353097	\$ 179,399	\$ 179,399	\$ -	7	\$ -	\$ 398,604	\$ 398,604	\$ 283,500	\$ 398,604
MIDW	AG3-2007-086	1353098	\$ 119,600	\$ 119,600	\$ -	7	\$ -	\$ 265,738	\$ 265,738	\$ 189,000	\$ 265,738
MIDW	AG3-2007-086	1353099	\$ 59,799	\$ 59,799	\$ -	7	\$ -	\$ 132,867	\$ 132,867	\$ 94,500	\$ 132,867
MIDW	AG3-2007-087	1353102	\$ 119,600	\$ 119,600	\$ -	7	\$ -	\$ 265,738	\$ 265,738	\$ 189,000	\$ 265,738
MIDW	AG3-2007-087	1353103	\$ 59,799	\$ 59,799	\$ -	7	\$ -	\$ 132,867	\$ 132,867	\$ 94,500	\$ 132,867
MIDW	AG3-2007-090	1353110	\$ 243,711	\$ -	\$ 243,711		\$ 77,187,885	\$ 697,989	\$ -	\$ -	Schedule 9 Charges
MIDW	AG3-2007-091	1353111	\$ 243,711	\$ -	\$ 243,711		\$ 77,187,885	\$ 718,686	\$ -	\$ -	Schedule 9 Charges
OMPA	AG3-2007-035	1350945	\$ 15,526	\$ -	\$ 15,526		\$ -	\$ 31,960	\$ -	\$ -	Schedule 9 Charges
SPSM	AG3-2007-080	1353054	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 880,000	\$ 880,000
SPSM	AG3-2007-080	1353055	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 880,000	\$ 880,000
SPSM	AG3-2007-081	1353057	\$ 1,097,599	\$ 955,860	\$ -		\$ -	\$ 1,870,857	\$ 1,870,857	\$ 836,000	\$ 1,870,857
SPSM	AG3-2007-081	1353059	\$ 1,097,599	\$ 955,860	\$ -		\$ -	\$ 1,870,857	\$ 1,870,857	\$ 836,000	\$ 1,870,857
WFEC	AG3-2007-043	1510704	\$ -	\$ -	\$ -	8	\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
WRGS	AG3-2007-025	1346837	\$ 246,468	\$ -	\$ 246,468		\$ -	\$ 509,761	\$ -	\$ -	Schedule 9 Charges
WRGS	AG3-2007-026	1346842	\$ 17,291,119	\$ 15,206,707	\$ 1,800,000		\$ -	\$ 36,956,811	\$ 33,109,618	\$ -	\$ 33,109,618
Grand Total			\$ 39,689,445					\$ 100,469,889	\$ 43,541,957		

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

**Note 1:** Letter of Credit required for financial security for transmission owner for network upgrades is determined by allocated engineering and construction costs less engineering and construction costs for upgrades when network customer is the transmission owner less the E & C allocation of expedited projects. Letter of Credit is not required for base plan funded upgrades. 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:** 2010 Maximum new resources capped at 10,693MW

**Note 7:** Lack of resource and load forecast data provided for Base Plan Funding determination

**Note 8:** Per Transmission Discretion Log on OASIS

**Note 9:** Waiver approved to fully Base Plan Fund upgrades

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

Customer Study Number  
 AEPM AG3-2007-015

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
AEPM	1337138	CSWS	EES	22	1/1/2009	1/1/2010	6/1/2011	6/1/2012	\$ -	\$ -	\$ 4,632	\$ 7,066
									\$ -	\$ -	\$ 4,632	\$ 7,066

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1337138	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 #2	4/1/2009	6/1/2011		Yes	\$ 2,620	\$ 400,000	\$ 3,964
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1 #2	6/1/2009	6/1/2011			\$ 2,012	\$ 300,000	\$ 3,102
					Total	\$ 4,632	\$ 700,000	\$ 7,066

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
1337138	SALLISAW CAP BANK	6/1/2009	6/1/2009		

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
1337138	BETHEL - BROKEN BOW 138KV CKT 1	6/1/2011	6/1/2011		
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #1 SWPA	6/1/2009	6/1/2010		
	SILLOAM CITY - SILLOAM SPRINGS 161KV CKT 1	12/1/2010	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1337138	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	4/1/2009	6/1/2011		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	12/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	12/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	12/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2011		
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #2 SWPA	6/1/2009	6/1/2010		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	6/1/2009	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	6/1/2009	7/1/2012		

Planned 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
1337138	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	6/1/2009	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
1337138	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	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		
	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  
 AEPM AG3-2007-054

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1352732	CSWS	CSWS	100	1/1/2010	1/1/2011	6/1/2012	6/1/2013	\$ -	\$ -	\$ 344,114	\$ 433,837
									\$ -	\$ -	\$ 344,114	\$ 433,837

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1352732	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2009	6/1/2012			\$ 334,713	\$ 4,362,139	\$ 418,392
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 #2	4/1/2009	6/1/2011			\$ 9,401	\$ 400,000	\$ 15,445
Total						\$ 344,114	\$ 4,762,139	\$ 433,837

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
1352732	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2012		Yes
	MOORELAND - MOREWOOD SW 138KV CKT 1	1/1/2010	6/1/2010		Yes
	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	6/1/2012	6/1/2012		
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	12/1/2010	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1352732	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	4/1/2009	6/1/2011		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	12/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	12/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	12/1/2009	6/1/2010		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
1352732	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		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1352732	WELLS 500/230KV TRANSFORMER CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number  
 AEPM AG3-2007-063

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	1352923	CSWS	CSWS	50	1/1/2009	1/1/2011	7/1/2012	7/1/2014	\$ -	\$ -	\$ 2,800,000	\$ 3,111,630
									\$ -	\$ -	\$ 2,800,000	\$ 3,111,630

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1352923	TEXAS EASTMAN - WHITNEY 138KV CKT 1	6/1/2009	6/1/2011		Yes	\$ 2,800,000	\$ 2,800,000	\$ 3,111,630
Total						\$ 2,800,000	\$ 2,800,000	\$ 3,111,630

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
1352923	BROWN - EXPLORER TAP 138KV CKT 1	6/1/2009	6/1/2011		Yes
	SALLISAW CAP BANK	6/1/2009	6/1/2009		

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
1352923	ASHDOWN WEST - CRAIG JUNCTION 138KV CKT 1	6/1/2013	6/1/2013		
	BETHEL - BROKEN BOW 138KV CKT 1	6/1/2011	6/1/2011		
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #1 SWPA	6/1/2009	6/1/2010		Yes
	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2012		Yes
	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	6/1/2012	6/1/2012		
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	12/1/2010	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1352923	CLARKSVILLE - DARDANELLE 161KV CKT 1	6/1/2013	6/1/2013		
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #2 SWPA	6/1/2009	6/1/2010		Yes
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	6/1/2009	7/1/2012		Yes
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	6/1/2009	7/1/2012		Yes

Planned 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
1352923	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	6/1/2009	6/1/2011		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1352923	ARKANSAS NUCLEAR ONE - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	DARDANELLE - DARDANELLE 161KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	HARRISON-EAST - SUMMIT 161KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	HILLTOP - ST JOE 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number  
 AEPM AG3-2007-065

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1352934	CSWS	CSWS	54	6/1/2010	6/1/2015	7/1/2012	7/1/2017	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1352934	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
1352934	ARSENAL HILL - NORTH MARKET 69KV CKT 1	6/1/2010	6/1/2011		Yes
	SALLISAW CAP BANK	6/1/2009	6/1/2009		

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
1352934	3RDST - ARKOMA 161KV CKT 1	6/1/2016	6/1/2016		
	ASHDOWN WEST - CRAIG JUNCTION 138KV CKT 1	6/1/2013	6/1/2013		
	BETHEL - BROKEN BOW 138KV CKT 1	6/1/2011	6/1/2011		
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #1 SWPA	6/1/2009	6/1/2010		
	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2012		Yes
	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	6/1/2012	6/1/2012		
	SILLOAM CITY - SILOAM SPRINGS 161KV CKT 1	12/1/2010	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1352934	CLARKSVILLE - DARDANELLE 161KV CKT 1	6/1/2013	6/1/2013		
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #2 SWPA	6/1/2009	6/1/2010		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	6/1/2009	7/1/2012		Yes
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	6/1/2009	7/1/2012		Yes

Planned 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
1352934	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	6/1/2009	6/1/2011		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1352934	ARKANSAS NUCLEAR ONE - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	COCODRIE 230/138KV TRANSFORMER CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	DARDANELLE - DARDANELLE 161KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	HARRISON-EAST - SUMMIT 161KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	HILLTOP - ST JOE 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	INDEPENDENCE - LS POWER OSCEOLA UNIT 500KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number  
 CMLP AG3-2007-047

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
CMLP	1352193	GRDA	CSWS	197	6/1/2008	6/1/2042	6/1/2012	6/1/2046	\$ 8,773,686	\$ -	\$ 8,773,686	\$ 38,060,050
									\$ 8,773,686	\$ -	\$ 8,773,686	\$ 38,060,050

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1352193	AFTON - FAIRLAND EDE TAP 69KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 #2	4/1/2009	6/1/2011			\$ 297,361	\$ 400,000	\$ 1,288,069
	COFFEYVILLE FARMLAND - SOUTH COFFEYVILLE CITY 138KV CKT 1	6/1/2012	6/1/2012			\$ 2,200,000	\$ 2,200,000	\$ 9,145,884
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1 #2	6/1/2009	6/1/2011			\$ 228,388	\$ 300,000	\$ 1,008,203
	COFFEYVILLE TAP - SOUTH COFFEYVILLE CITY 138KV CKT 1	6/1/2011	6/1/2011			\$ 6,000,000	\$ 6,000,000	\$ 26,397,075
	DEARING 138KV Capacitor Displacement	6/1/2011	6/1/2011			\$ 47,937	\$ 47,937	\$ 220,819
Total						\$ 8,773,686	\$ 8,947,937	\$ 38,060,050

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
1352193	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2009	6/1/2012		
	KERR - PENSACOLA 115KV CKT 1	6/1/2009	6/1/2012		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1352193	LOCUST GROVE - LONE STAR 115KV CKT 1	6/1/2014	6/1/2014		
	PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	12/1/2010	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1352193	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	4/1/2009	6/1/2011		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2011		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		

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

Customer Study Number  
CRGL AG3-2007-018

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
CRGL	1340342	KCPL	CLEC	103	2/1/2008	2/1/2009	6/1/2011	6/1/2012	\$ -	\$ 1,909,839	\$ -	\$ -
									\$ -	\$ 1,909,839	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1340342	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
1340342	KC SOUTH TAP	6/1/2009	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
1340342	REDEL - STILWELL 161KV CKT 1	6/1/2009	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1340342	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1340342	3GRENWD - HUMPHREY 115KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	3GRENWD - TERREBONNE 115KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4JUDICE - MEAUX BULK 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4JUDICE - SCOTT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4NCROWL - SCOTT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4SEMERE - SCOTT 138KV CKT 1	4/1/2009	4/1/2009			\$ -	\$ -
	5ELDON 161.00 - BARNETT 161KV CKT 1	4/1/2009	4/1/2009			\$ -	\$ -
	5ELDON 161.00 161/138KV TRANSFORMER CKT 1	4/1/2009	4/1/2009			\$ -	\$ -
	ACADIANA MALL - DOC BONIN 230KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	ACADIANA MALL - FLANDERS 230KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	ADAMS CREEK - BOGALUSA 230KV CKT 2	4/1/2009	4/1/2009			\$ -	\$ -
	CECELIA - DOC BONIN 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	CECELIA - MORIL 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	COLONIAL ACADEMY - RICHARD 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	DOC BONIN - LABBE 230KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	DOC BONIN - SCOTT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	DOC BONIN 230/138KV TRANSFORMER CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	GIBSON - HUMPHREY 115KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	GIBSON - RAMOS 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	LABBE - PONT DES MOUTON 230KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	PONT DES MOUTON - WELLS 230KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	RICHARD - SCOTT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	SOUTHWEST BAYOU RAPIDES - TWIN BRIDGES 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	WELLS 500/230KV TRANSFORMER CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number  
CRGL AG3-2007-019

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
CRGL	1340343	OPPD	CLEC	103	2/1/2008	2/1/2009	1/1/2009	1/1/2010	\$ -	\$ 1,909,839	\$ -	\$ -
									\$ -	\$ 1,909,839	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1340343	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
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
1340343	KELLY - SOUTH SENECA 115KV CKT 1			4/1/2009	6/1/2010
	Knob Hill - Steele City 115 kv			4/1/2009	6/1/2010

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1340343	3GRENWD - HUMPHREY 115KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	3GRENWD - TERREBONNE 115KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4JUDICE - MEAUX BULK 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4JUDICE - SCOTT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4KSPRGS - LINE 642 TAP 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4NCROWL - SCOTT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4SEMERE - SCOTT 138KV CKT 1	4/1/2009	4/1/2009			\$ -	\$ -
	ACADIANA MALL - DOC BONIN 230KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	ACADIANA MALL - FLANDERS 230KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	ADAMS CREEK - BOGALUSA 230KV CKT 2	4/1/2009	4/1/2009			\$ -	\$ -
	CECELIA - DOC BONIN 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	CECELIA - MORIL 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	COLONIAL ACADEMY - RICHARD 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	DOC BONIN - LABBE 230KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	DOC BONIN - SCOTT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	DOC BONIN 230/138KV TRANSFORMER CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	GIBSON - HUMPHREY 115KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	GIBSON - RAMOS 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	LABBE - PONT DES MOUTON 230KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	PONT DES MOUTON - WELLS 230KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	RICHARD - SCOTT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	SOUTHWEST BAYOU RAPIDES - TWIN BRIDGES 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	WELLS 500/230KV TRANSFORMER CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number  
EDE AG3-2007-037

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
EDE	1350960	KCPL	EDE	5	11/1/2008	11/1/2018	6/1/2012	6/1/2022	\$ 9,534	\$ -	\$ 9,534	\$ 19,106
									\$ 9,534	\$ -	\$ 9,534	\$ 19,106

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1350960	AFTON - FAIRLAND EDE TAP 69KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
	FINNEY SWITCHING STATION - HITCHLAND 7 345.00 345KV CKT 1	12/1/2010	12/1/2010			\$ 689	\$ 337,500	\$ 1,349
	NASHUA - SMITHVILLE 161KV CKT 1	12/1/2010	12/1/2010			\$ 8,845	\$ 180,000	\$ 17,757
Total						\$ 9,534	\$ 517,500	\$ 19,106

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
1350960	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2009	6/1/2012		
	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 EMDE	6/1/2016	6/1/2016		
	KERR - PENSACOLA 115KV CKT 1	6/1/2009	6/1/2012		
	Multi - Stateline - Joplin - Reinmilller conversion	6/1/2017	6/1/2017		
	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	6/1/2017	6/1/2017		
	SUB 383 - MONETT - SUB 376 - MONETT CITY SOUTH 161/69/12.5KV TRANSFORMER CKT 1	6/1/2018	6/1/2018		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1350960	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #1 SWPA	6/1/2009	6/1/2010		
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2010	6/1/2011		
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	6/1/2010		
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	12/1/2010	6/1/2011		
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		
	SUB 124 - AURORA H.T. - SUB 152 - MONETT H.T. 69KV CKT 1	6/1/2009	6/1/2010		
	SUB 152 - MONETT H.T. - SUB 383 - MONETT 69KV CKT 1	6/1/2009	6/1/2010		
	SUB 170 - NICHOLS ST. - SUB 80 - MARSHFIELD JCT. 69KV CKT 1	6/1/2013	6/1/2013		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1350960	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #2 SWPA	6/1/2009	6/1/2010		

Planned 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
1350960	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	6/1/2009	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
1350960	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1350960	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	HARRISON-EAST - SUMMIT 161KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	HILLTOP - ST JOE 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	HUBEN 345/161KV TRANSFORMER CKT 1	6/1/2012	6/1/2012			\$ 3,250,000	\$ 6,500,000
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
Total						\$ 3,250,000	\$ 6,500,000

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

Customer Study Number  
EDE AG3-2007-046

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
EDE	1352109	KCPL	EDE	5	1/1/2010	1/1/2030	6/1/2011	6/1/2031	\$ 9,534	\$ -	\$ 9,534	\$ 29,282
									\$ 9,534	\$ -	\$ 9,534	\$ 29,282

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1352109	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
	FINNEY SWITCHING STATION - HITCHLAND 7 345.00 345KV CKT 1	12/1/2010	12/1/2010			\$ 689	\$ 337,500	\$ 2,021
	NASHUA - SMITHVILLE 161KV CKT 1	12/1/2010	12/1/2010			\$ 8,845	\$ 180,000	\$ 27,261
Total						\$ 9,534	\$ 517,500	\$ 29,282

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
1352109	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 EMDE	6/1/2016	6/1/2016		
	Multi - Stateline - Joplin - Reinmiller conversion	6/1/2017	6/1/2017		
	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	6/1/2017	6/1/2017		
	SUB 383 - MONETT - SUB 376 - MONETT CITY SOUTH 161/69/12.5KV TRANSFORMER CKT 1	6/1/2018	6/1/2018		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1352109	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #1 SWPA	6/1/2009	6/1/2010		
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2010	6/1/2011		
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	6/1/2010		
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	12/1/2010	6/1/2011		
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		
	SUB 124 - AURORA H.T. - SUB 152 - MONETT H.T. 69KV CKT 1	6/1/2009	6/1/2010		
	SUB 152 - MONETT H.T. - SUB 383 - MONETT 69KV CKT 1	6/1/2009	6/1/2010		
	SUB 170 - NICHOLS ST. - SUB 80 - MARSHFIELD JCT. 69KV CKT 1	6/1/2013	6/1/2013		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1352109	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #2 SWPA	6/1/2009	6/1/2010		

Planned 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
1352109	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	6/1/2009	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
1352109	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1352109	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	HARRISON-EAST - SUMMIT 161KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	HILLTOP - ST JOE 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	HUBEN 345/161KV TRANSFORMER CKT 1	6/1/2012	6/1/2012			\$ 3,250,000	\$ 6,500,000
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
Total						\$ 3,250,000	\$ 6,500,000



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

Customer Study Number  
GRDA AG3-2007-034

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
GRDA	1350396	OKGE	GRDA	150	6/1/2008	6/1/2013	6/1/2012	6/1/2017	\$ 4,027,426	\$ -	\$ 4,027,426	\$ 5,469,207
									\$ 4,027,426	\$ -	\$ 4,027,426	\$ 5,469,207

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1350396	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1 Displacement	6/1/2009	6/1/2012		Yes	\$ 4,027,426	\$ 4,362,139	\$ 5,469,207
Total						\$ 4,027,426	\$ 4,362,139	\$ 5,469,207

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
1350396	CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2009	6/1/2009		
	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	6/1/2009	6/1/2009		
	KERR - PENSACOLA 115KV CKT 1	6/1/2009	6/1/2012		Yes
	MAID - PRYOR FOUNDRY SOUTH 69KV CKT 1	6/1/2014	6/1/2014		
	MAID - REDDEN 69KV CKT 1	6/1/2014	6/1/2014		
	MCELROY - STILLWATER 138KV CKT 1	6/1/2009	6/1/2009		
	SALLISAW CAP BANK	6/1/2009	6/1/2009		

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
1350396	3RDST - ARKOMA 161KV CKT 1	6/1/2016	6/1/2016		
	CPP TRANSF #2 - PRYOR FOUNDRY SOUTH 69KV CKT 1	6/1/2016	6/1/2016		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1350396	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		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1350396	4LUTHER 138.00 138/69KV TRANSFORMER CKT 1	6/1/2009	6/1/2009			\$ 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  
KBPU AG3-2007-017D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KBPU	1339117	MPS	KACY	5	2/1/2008	2/1/2009	6/1/2013	6/1/2014	\$ -	\$ 52,800	\$ -	\$ -
									\$ -	\$ 52,800	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1339117	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
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
1339117	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2009	6/1/2013		Yes
	KC SOUTH TAP	6/1/2009	6/1/2011		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
1339117	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2010	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		
	Knob Hill - Steele City 115 kV	4/1/2009	6/1/2010		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2009	6/1/2013		
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	6/1/2010		
	STRANGER CREEK - NW LEAVENWORTH 115KV	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
1339117	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

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

Customer Study Number  
 KCPS AG3-2007-074

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	1353013	KCPL	KCPL	45	11/1/2008	11/1/2018	6/1/2011	6/1/2021	\$ 751,150	\$ -	\$ 751,150	\$ 1,622,575
									\$ 751,150	\$ -	\$ 751,150	\$ 1,622,575

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1353013	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
	NASHUA - SMITHVILLE 161KV CKT 1	12/1/2010	12/1/2010			\$ 123,417	\$ 180,000	\$ 247,773
	ST JOE - WOODBINE 161KV CKT 1	6/1/2010	6/1/2011			\$ 627,733	\$ 2,300,000	\$ 1,374,802
Total						\$ 751,150	\$ 2,480,000	\$ 1,622,575

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
1353013	KC SOUTH TAP	6/1/2009	6/1/2011		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
1353013	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2010	6/1/2011		Yes
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	6/1/2010		
	REDEL - STILWELL 161KV CKT 1	6/1/2009	6/1/2011		Yes
	STRANGER CREEK - NW LEAVENWORTH 115KV	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
1353013	COOK - ST JOE 161KV CKT 1	6/1/2010	6/1/2010		
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1353013	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

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

Customer Study Number  
KEPC AG3-2007-064

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KEPC	1352933	WR	KCPL	15	6/1/2008	6/1/2040	6/1/2013	6/1/2045	\$ 520,621	\$ -	\$ 520,621	\$ 2,166,616
									\$ 520,621	\$ -	\$ 520,621	\$ 2,166,616

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1352933	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
	NASHUA - SMITHVILLE 161KV CKT 1	12/1/2010	12/1/2010			\$ 38,893	\$ 180,000	\$ 154,303
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 481,728	\$ 1,125,000	\$ 2,012,313
Total						\$ 520,621	\$ 1,305,000	\$ 2,166,616

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
1352933	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2009	6/1/2013		Yes
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
	KC SOUTH TAP	6/1/2009	6/1/2011		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		

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
1352933	ABILENE ENERGY CENTER 115KV - TC-HOPE	6/1/2011	6/1/2011		
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2009	6/1/2011		
	HOPE 230/115 KV	6/1/2011	6/1/2011		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2009	6/1/2013		Yes
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	6/1/2010		
	REDEL - STILWELL 161KV CKT 1	6/1/2009	6/1/2011		Yes
	SHAWNEE HEIGHTS - TECUMSEH HILL 115KV CKT 1	6/1/2018	6/1/2018		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1352933	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		

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
1352933	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		
	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  
KEPC AG3-2007-066

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KEPC	1352938	WR	WR	68	6/1/2008	6/1/2040	6/1/2011	6/1/2043	\$ 738,710	\$ -	\$ 738,711	\$ 3,755,454
									\$ 738,710	\$ -	\$ 738,711	\$ 3,755,454

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1352938	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 100,989	\$ 434,756	\$ 494,322
	MACARTHUR - OATVILLE 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 6,742	\$ 7,905	\$ 32,597
	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 97,755	\$ 6,497,822	\$ 526,894
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010			\$ 92,241	\$ 3,825,000	\$ 530,136
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 29,893	\$ 486,000	\$ 125,775
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 411,091	\$ 1,125,000	\$ 2,045,730
Total						\$ 738,711	\$ 12,376,483	\$ 3,755,454

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
1352938	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		

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
1352938	ABILENE ENERGY CENTER 115KV - TC-HOPE	6/1/2011	6/1/2011		
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2009	6/1/2011		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	HOPE 230/115 KV	6/1/2011	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		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
1352938	East Manhattan to Mcdowell 230 kv Displacement	6/1/2009	6/1/2011		No
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
	ROSE HILL (ROSEHLX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	4/1/2009	6/1/2011		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1352938	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
1352938	S963 8 69,000 - W BROCK8 69,000 69KV CKT 1	6/1/2013	6/1/2013			\$ -	\$ -
	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	6/1/2017	6/1/2017			\$ 85,624,230	\$ 240,000,000
Total						\$ 85,624,230	\$ 240,000,000

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

Customer Study Number  
KMEA AG3-2007-104

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	1355377	OPPD	KCPL	20	1/1/2009	1/1/2013	6/1/2011	6/1/2015	\$ -	\$ -	\$ 290,035	\$ 493,728
									\$ -	\$ -	\$ 290,035	\$ 493,728

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1355377	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
	ST JOE - WOODBINE 161KV CKT 1	6/1/2010	6/1/2011			\$ 290,035	\$ 2,300,000	\$ 493,728
						\$ 290,035	\$ 2,300,000	\$ 493,728
						\$ 290,035	\$ 2,300,000	\$ 493,728

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
1355377	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2010	6/1/2011		Yes
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		
	Knob Hill - Steele City 115 kV	4/1/2009	6/1/2010		
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	6/1/2010		
	STRANGER CREEK - NW LEAVENWORTH 115KV	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
1355377	COOK - ST JOE 161KV CKT 1	6/1/2010	6/1/2010		

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
1355377	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1355377	7PALMYRA 345.00 345/161KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
						\$ -	\$ -
						\$ -	\$ -

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

Customer Study Number  
KPP AG3-2007-040

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
KPP	1351224	WR	WR	4	2/1/2008	2/1/2018	6/1/2011	6/1/2021	\$ 27	\$ -	\$ 27	\$ 52
									\$ 27	\$ -	\$ 27	\$ 52

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1351224	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 27	\$ 583	\$ 52
Total						\$ 27	\$ 583	\$ 52

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
1351224	Summit - NE Saline 115 kV	6/1/2009	12/1/2009		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
1351224	ABILENE ENERGY CENTER 115KV - TC-HOPE	6/1/2011	6/1/2011		
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2009	6/1/2011		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	6/1/2009	6/1/2011		Yes
	CHISHOLM - RIPLEY 69KV CKT 1	6/1/2010	6/1/2011		
	CHISHOLM (CHISLM1X) 138/69/13.2KV TRANSFORMER CKT 2	6/1/2010	6/1/2011		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		
	FORT JUNCTION SWITCHING STATION - WEST JUNCTION CITY JUNCTION 115KV CKT 1	6/1/2010	6/1/2011		
	HOPE 230/115 KV	6/1/2011	6/1/2011		
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2010	6/1/2011		Yes
	SEVENTEENTH () 138/69/11.295KV TRANSFORMER CKT 2	6/1/2010	6/1/2011		
	STRANGER CREEK - NW LEAVENWORTH 115KV	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
1351224	East Manhattan to McDowell 230 kV Displacement	6/1/2009	6/1/2011		
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	4/1/2009	6/1/2011		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1351224	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 AG3-2007-082

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	1353081	WR	WR	5	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 472,500	\$ 149,288	\$ 334,490
MIDW	1353082	WR	WR	4	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 378,000	\$ 119,430	\$ 267,593
MIDW	1353083	WR	WR	3	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 283,500	\$ 89,572	\$ 200,691
MIDW	1353084	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 189,000	\$ 59,715	\$ 133,794
MIDW	1353085	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 94,500	\$ 29,857	\$ 66,897
									\$ -	\$ 1,417,500	\$ 447,862	\$ 1,003,465

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1353081	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 5,512	\$ 434,756	\$ 12,485
	MACARTHUR - OATVILLE 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 388	\$ 7,905	\$ 868
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 13,160	\$ 3,825,000	\$ 30,689
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 94,192	\$ 486,000	\$ 207,462
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 36,036	\$ 1,125,000	\$ 82,986
	Total				\$ 149,288	\$ 5,878,661	\$ 334,490	
1353082	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 4,409	\$ 434,756	\$ 9,988
	MACARTHUR - OATVILLE 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 310	\$ 7,905	\$ 694
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 10,528	\$ 3,825,000	\$ 24,551
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 75,354	\$ 486,000	\$ 165,971
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 28,829	\$ 1,125,000	\$ 66,389
	Total				\$ 119,430	\$ 5,878,661	\$ 267,593	
1353083	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 3,307	\$ 434,756	\$ 7,491
	MACARTHUR - OATVILLE 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 233	\$ 7,905	\$ 520
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 7,896	\$ 3,825,000	\$ 18,413
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 56,515	\$ 486,000	\$ 124,477
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 21,621	\$ 1,125,000	\$ 49,790
	Total				\$ 89,572	\$ 5,878,661	\$ 200,691	
1353084	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 2,205	\$ 434,756	\$ 4,994
	MACARTHUR - OATVILLE 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 155	\$ 7,905	\$ 347
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 5,264	\$ 3,825,000	\$ 12,275
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 37,677	\$ 486,000	\$ 82,985
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 14,414	\$ 1,125,000	\$ 33,193
	Total				\$ 59,715	\$ 5,878,661	\$ 133,794	
1353085	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 1,102	\$ 434,756	\$ 2,497
	MACARTHUR - OATVILLE 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 78	\$ 7,905	\$ 173
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 2,632	\$ 3,825,000	\$ 6,138
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 18,838	\$ 486,000	\$ 41,492
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 7,207	\$ 1,125,000	\$ 16,597
	Total				\$ 29,857	\$ 5,878,661	\$ 66,897	

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
1353081	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
1353082	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
1353083	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
1353084	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
1353085	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		

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
1353081	ABILENE ENERGY CENTER 115KV - TC-HOPE	6/1/2011	6/1/2011		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	HOPE 230/115 KV	6/1/2011	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
1353082	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2009	6/1/2011		Yes
	ABILENE ENERGY CENTER 115KV - TC-HOPE	6/1/2011	6/1/2011		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
1353083	HOPE 230/115 KV	6/1/2011	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2009	6/1/2011		Yes



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

1353083	ABILENE ENERGY CENTER 115KV - TC-HOPE	6/1/2011	6/1/2011		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	HOPE 230/115 KV	6/1/2011	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kV	4/1/2009	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2009	6/1/2011		Yes
1353084	ABILENE ENERGY CENTER 115KV - TC-HOPE	6/1/2011	6/1/2011		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	HOPE 230/115 KV	6/1/2011	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kV	4/1/2009	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2009	6/1/2011		Yes
1353085	ABILENE ENERGY CENTER 115KV - TC-HOPE	6/1/2011	6/1/2011		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	HOPE 230/115 KV	6/1/2011	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kV	4/1/2009	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2009	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
1353081	East Manhattan to Mcdowell 230 kV Displacement	6/1/2009	6/1/2011		No
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
1353082	East Manhattan to Mcdowell 230 kV Displacement	6/1/2009	6/1/2011		No
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
1353083	East Manhattan to Mcdowell 230 kV Displacement	6/1/2009	6/1/2011		No
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
1353084	East Manhattan to Mcdowell 230 kV Displacement	6/1/2009	6/1/2011		No
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
1353085	East Manhattan to Mcdowell 230 kV Displacement	6/1/2009	6/1/2011		No
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		

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
1353081	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		
1353082	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		
1353083	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		
1353084	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		
1353085	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 AG3-2007-083

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	1353086	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 94,500	\$ 27,943	\$ 62,624
MIDW	1353088	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 189,000	\$ 55,887	\$ 125,251
									\$ -	\$ 283,500	\$ 83,830	\$ 187,875

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1353086	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 14,435	\$ 6,497,822	\$ 31,550
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 4,577	\$ 3,825,000	\$ 10,673
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 1,654	\$ 486,000	\$ 3,643
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 7,277	\$ 1,125,000	\$ 16,758
					Total	\$ 27,943	\$ 11,933,822	\$ 62,624
1353088	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 28,870	\$ 6,497,822	\$ 63,100
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 9,155	\$ 3,825,000	\$ 21,349
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 3,309	\$ 486,000	\$ 7,288
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 14,553	\$ 1,125,000	\$ 33,514
					Total	\$ 55,887	\$ 11,933,822	\$ 125,251

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
1353086	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
1353088	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		

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
1353086	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kV	4/1/2009	6/1/2010		Yes
1353088	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kV	4/1/2009	6/1/2010		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
1353086	East Manhattan to Mcdowell 230 kV Displacement	6/1/2009	6/1/2011		No
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
1353088	East Manhattan to Mcdowell 230 kV Displacement	6/1/2009	6/1/2011		No
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		

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
1353086	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		
1353088	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 AG3-2007-084

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1353090	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 94,500	\$ 22,872	\$ 51,445
MIDW	1353091	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 189,000	\$ 45,741	\$ 102,883
MIDW	1353092	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 189,000	\$ 45,741	\$ 102,883
									\$ -	\$ 472,500	\$ 114,354	\$ 257,211

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1353090	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 9,729	\$ 6,497,822	\$ 21,264
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 3,889	\$ 3,825,000	\$ 9,069
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 1,987	\$ 486,000	\$ 4,377
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 7,267	\$ 1,125,000	\$ 16,735
	Total					\$ 22,872	\$ 11,933,822	\$ 51,445
1353091	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 19,456	\$ 6,497,822	\$ 42,524
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 7,777	\$ 3,825,000	\$ 18,136
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 3,974	\$ 486,000	\$ 8,753
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 14,534	\$ 1,125,000	\$ 33,470
	Total					\$ 45,741	\$ 11,933,822	\$ 102,883
1353092	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 19,456	\$ 6,497,822	\$ 42,524
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 7,777	\$ 3,825,000	\$ 18,136
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 3,974	\$ 486,000	\$ 8,753
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 14,534	\$ 1,125,000	\$ 33,470
	Total					\$ 45,741	\$ 11,933,822	\$ 102,883

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
1353090	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
1353091	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
1353092	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		

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
1353090	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		Yes
1353091	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		Yes
1353092	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		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
1353090	East Manhattan to Mcdowell 230 kv Displacement	6/1/2009	6/1/2011		No
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
1353091	East Manhattan to Mcdowell 230 kv Displacement	6/1/2009	6/1/2011		No
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
1353092	East Manhattan to Mcdowell 230 kv Displacement	6/1/2009	6/1/2011		No
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		

**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
1353090	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		
1353091	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		
1353092	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 AG3-2007-086

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1353097	WR	WR	3	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 283,500	\$ 179,399	\$ 398,605
MIDW	1353098	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 189,000	\$ 119,600	\$ 265,738
MIDW	1353099	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 94,500	\$ 59,799	\$ 132,866
									\$ -	\$ 567,000	\$ 358,798	\$ 797,209

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1353097	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 128,917	\$ 6,497,822	\$ 281,769
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 26,595	\$ 3,825,000	\$ 62,019
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 1,918	\$ 486,000	\$ 4,225
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 21,969	\$ 1,125,000	\$ 50,592
Total						\$ 179,399	\$ 11,933,822	\$ 398,605
1353098	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 85,945	\$ 6,497,822	\$ 187,847
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 17,730	\$ 3,825,000	\$ 41,346
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 1,279	\$ 486,000	\$ 2,817
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 14,646	\$ 1,125,000	\$ 33,728
Total						\$ 119,600	\$ 11,933,822	\$ 265,738
1353099	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 42,972	\$ 6,497,822	\$ 93,922
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 8,865	\$ 3,825,000	\$ 20,673
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 639	\$ 486,000	\$ 1,407
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 7,323	\$ 1,125,000	\$ 16,864
Total						\$ 59,799	\$ 11,933,822	\$ 132,866

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
1353097	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
1353098	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
1353099	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		

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
1353097	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		Yes
1353098	ST JOHN CAPACITOR	6/1/2011	6/1/2011		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
1353099	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		Yes
	ST JOHN CAPACITOR	6/1/2011	6/1/2011		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		Yes
	ST JOHN CAPACITOR	6/1/2011	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1353097	East Manhattan to Mcdowell 230 kv Displacement	6/1/2009	6/1/2011		No
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	4/1/2009	6/1/2011		Yes
1353098	East Manhattan to Mcdowell 230 kv Displacement	6/1/2009	6/1/2011		No
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	4/1/2009	6/1/2011		Yes
1353099	East Manhattan to Mcdowell 230 kv Displacement	6/1/2009	6/1/2011		No
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	4/1/2009	6/1/2011		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
1353097	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		
1353098	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		
1353099	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		

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

Customer Study Number  
MIDW AG3-2007-087

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1353102	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 189,000	\$ 119,600	\$ 265,738
MIDW	1353103	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 94,500	\$ 59,799	\$ 132,866
									\$ -	\$ 283,500	\$ 179,399	\$ 398,604

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1353102	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 85,945	\$ 6,497,822	\$ 187,847
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 17,730	\$ 3,825,000	\$ 41,346
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 1,279	\$ 486,000	\$ 2,817
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 14,646	\$ 1,125,000	\$ 33,728
					Total	\$ 119,600	\$ 11,933,822	\$ 265,738
1353103	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 42,972	\$ 6,497,822	\$ 93,922
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010		Yes	\$ 8,865	\$ 3,825,000	\$ 20,673
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 639	\$ 486,000	\$ 1,407
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2012	6/1/2012			\$ 7,323	\$ 1,125,000	\$ 16,864
					Total	\$ 59,799	\$ 11,933,822	\$ 132,866

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
1353102	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		
1353103	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2009	6/1/2009		

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
1353102	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		Yes
1353103	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		No
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		No
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		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
1353102	East Manhattan to Mcdowell 230 kv Displacement	6/1/2009	6/1/2011		No
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
	ROSE HILL (ROSEHLIX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	4/1/2009	6/1/2011		Yes
1353103	East Manhattan to Mcdowell 230 kv Displacement	6/1/2009	6/1/2011		No
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2009		
	ROSE HILL (ROSEHLIX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	4/1/2009	6/1/2011		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1353102	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		
1353103	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 AG3-2007-090

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	1353110	WR	WR	25	3/1/2008	3/1/2027	6/1/2011	6/1/2030	\$ 243,711	\$ -	\$ 243,711	\$ 697,989
									\$ 243,711	\$ -	\$ 243,711	\$ 697,989

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1353110	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 #2	4/1/2009	6/1/2011			\$ 7,748	\$ 400,000	\$ 22,260
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1 #2	6/1/2009	6/1/2011			\$ 5,951	\$ 300,000	\$ 17,424
	FINNEY SWITCHING STATION - HITCHLAND 7 345.00 345KV CKT 1	12/1/2010	12/1/2010			\$ 5,962	\$ 337,500	\$ 15,653
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	10/1/2009	6/1/2011		Yes	\$ 32,576	\$ 2,011,826	\$ 91,900
	FLATRDG3 138.00 - HARPER 138KV CKT 1	10/1/2009	6/1/2011		Yes	\$ 65,203	\$ 6,035,477	\$ 183,944
	HARPER - MILAN TAP 138KV CKT 1	12/1/2009	6/1/2010			\$ 3,064	\$ 337,500	\$ 9,257
	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$ 56	\$ 583	\$ 142
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2009	6/1/2010			\$ 46,712	\$ 3,825,000	\$ 147,591
	RULETON 115KV Capacitor	6/1/2014	6/1/2014			\$ 76,439	\$ 486,000	\$ 209,818
Total						\$ 243,711	\$ 13,733,886	\$ 697,989

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
1353110	Summit - NE Saline 115 kv	6/1/2009	12/1/2009		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
1353110	ABILENE ENERGY CENTER 115KV - TC-HOPE	6/1/2011	6/1/2011		
	AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2018	6/1/2018		
	AQUARIUS - LITCHFIELD 69KV CKT 1	6/1/2018	6/1/2018		
	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2009	6/1/2011		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	6/1/2009	6/1/2011		Yes
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	6/1/2009	6/1/2011		
	EAST MANHATTAN - NW MANHATTAN 230/115KV	6/1/2009	6/1/2011		
	FORT JUNCTION SWITCHING STATION - WEST JUNCTION CITY JUNCTION 115KV CKT 1	6/1/2010	6/1/2011		
	HOPE 230/115 KV	6/1/2011	6/1/2011		
	HUDSON JUNCTION - PITTSBURG 69KV CKT 1	6/1/2018	6/1/2018		
	KELLY - SOUTH SENECA 115KV CKT 1	4/1/2009	6/1/2010		Yes
	Knob Hill - Steele City 115 kv	4/1/2009	6/1/2010		Yes
	LYONS - WHEATLAND 115KV CKT 1 MIDW	6/1/2017	6/1/2017		
	LYONS - WHEATLAND 115KV CKT 1 WERE	6/1/2017	6/1/2017		
	ST JOHN CAPACITOR	6/1/2011	6/1/2011		
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		



**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
1353110	ALLEN - LEHIGH TAP 69KV CKT 1		6/1/2011	6/1/2011	
	Athens to Owl Creek 69 kV		6/1/2011	6/1/2011	
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1		4/1/2009	6/1/2011	
	BURLINGTON JUNCTION - COFFEY COUNTY NO. 3 WESTPHALIA 69KV CKT 1		6/1/2011	6/1/2011	
	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1		6/1/2011	6/1/2011	
	COFFEY COUNTY NO. 3 WESTPHALIA - GREEN 69KV CKT 1		6/1/2011	6/1/2011	
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1		6/1/2009	6/1/2011	
	East Manhattan to Mcdowell 230 kV Displacement		6/1/2009	6/1/2011	
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1 Displacement		6/1/2010	6/1/2010	
	Green to Vernon 69 kV		6/1/2011	6/1/2011	
	LEHIGH TAP - OWL CREEK 69KV CKT 1		6/1/2011	6/1/2011	
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1		6/1/2010	6/1/2009	
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement		4/1/2009	6/1/2011	Yes
	Vernon to Athens 69 kV		6/1/2011	6/1/2011	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1353110	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
1353110	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1		6/1/2017	6/1/2017		\$ 77,187,885	\$ 240,000,000
Total						\$ 77,187,885	\$ 240,000,000



**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
1353111	ALLEN - LEHIGH TAP 69KV CKT 1		6/1/2011	6/1/2011	
	Athens to Owl Creek 69 kV		6/1/2011	6/1/2011	
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1		4/1/2009	6/1/2011	
	BURLINGTON JUNCTION - COFFEY COUNTY NO. 3 WESTPHALIA 69KV CKT 1		6/1/2011	6/1/2011	
	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1		6/1/2011	6/1/2011	
	COFFEY COUNTY NO. 3 WESTPHALIA - GREEN 69KV CKT 1		6/1/2011	6/1/2011	
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1		6/1/2009	6/1/2011	
	East Manhattan to Mcdowell 230 kV Displacement		6/1/2009	6/1/2011	
	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1 Displacement		6/1/2010	6/1/2010	
	Green to Vernon 69 kV		6/1/2011	6/1/2011	
	LEHIGH TAP - OWL CREEK 69KV CKT 1		6/1/2011	6/1/2011	
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1		6/1/2010	6/1/2009	
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement		4/1/2009	6/1/2011	Yes
	Vernon to Athens 69 kV		6/1/2011	6/1/2011	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1353111	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
1353111	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1		6/1/2017	6/1/2017		\$ 77,187,885	\$ 240,000,000
Total						\$ 77,187,885	\$ 240,000,000

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

Customer Study Number  
 OMPA AG3-2007-035

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
OMPA	1350945	OKGE	OKGE	23	5/1/2008	5/1/2017	6/1/2011	6/1/2020	\$ 15,526	\$ -	\$ 15,526	\$ 31,960
									\$ 15,526	\$ -	\$ 15,526	\$ 31,960

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1350945	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 #2	4/1/2009	6/1/2011			\$ 8,116	\$ 400,000	\$ 16,680
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1 #2	6/1/2009	6/1/2011			\$ 6,233	\$ 300,000	\$ 13,054
	FINNEY SWITCHING STATION - HITCHLAND 7 345.00 345KV CKT 1	12/1/2010	12/1/2010			\$ 1,177	\$ 337,500	\$ 2,226
					Total	\$ 15,526	\$ 1,037,500	\$ 31,960

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
1350945	MCELROY - STILLWATER 138KV CKT 1	6/1/2009	6/1/2009		

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
1350945	RICHLAND - UDALL 69KV CKT 1	12/1/2013	12/1/2013	6/1/2011	
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	12/1/2010	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1350945	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	4/1/2009	6/1/2011		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2011		
	RICHLAND - ROSE HILL JUNCTION 69KV CKT 1 Displacement	12/1/2010	6/1/2011		
	ROSE HILL (ROSEHLX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	4/1/2009	6/1/2011		Yes

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

Customer Study Number  
SPSM AG3-2007-080

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	1353054	WPEK	KCPL	50	10/1/2008	6/1/2010	6/1/2013	2/1/2015	\$ -	\$ 880,000	\$ -	\$ -
SPSM	1353055	WPEK	KCPL	50	10/1/2008	6/1/2010	6/1/2013	2/1/2015	\$ -	\$ 880,000	\$ -	\$ -
									\$ -	\$ 1,760,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1353054	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -
1353055	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
					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
1353054	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2009	6/1/2013		Yes
1353055	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2009	6/1/2013		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
1353054	REDEL - STILWELL 161KV CKT 1	6/1/2009	6/1/2011		Yes
1353055	REDEL - STILWELL 161KV CKT 1	6/1/2009	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
1353054	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes
1353055	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1353054	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
1353055	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

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

Customer Study Number  
SPSM AG3-2007-081

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	1353057	WPEK	KCPL	50	6/1/2010	1/1/2012	6/1/2013	1/1/2015	\$ -	\$ 836,000	\$ 1,097,599	\$ 1,870,857
SPSM	1353059	WPEK	KCPL	50	6/1/2010	1/1/2012	6/1/2013	1/1/2015	\$ -	\$ 836,000	\$ 1,097,599	\$ 1,870,857
									\$ -	\$ 1,672,000	\$ 2,195,198	\$ 3,741,714

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1353057	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
	FINNEY SWITCHING STATION - HITCHLAND 7 345.00 345KV CKT 1	12/1/2010	12/1/2010			\$ 141,739	\$ 337,500	\$ 227,349
	FLATRDG3 138.00 - HARPER 138KV CKT 1	10/1/2009	6/1/2011			\$ 203,924	\$ 6,035,477	\$ 334,556
	HARPER - MILAN TAP 138KV CKT 1	12/1/2009	6/1/2010			\$ 11,384	\$ 337,500	\$ 20,003
	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 49,436	\$ 6,497,822	\$ 85,148
	ST JOE - WOODBINE 161KV CKT 1	6/1/2010	6/1/2011			\$ 691,116	\$ 2,300,000	\$ 1,203,801
					Total	\$ 1,097,599	\$ 15,508,299	\$ 1,870,857
1353059	ALABAMA - LAKE ROAD 161KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -	\$ -
	FINNEY SWITCHING STATION - HITCHLAND 7 345.00 345KV CKT 1	12/1/2010	12/1/2010			\$ 141,739	\$ 337,500	\$ 227,349
	FLATRDG3 138.00 - HARPER 138KV CKT 1	10/1/2009	6/1/2011			\$ 203,924	\$ 6,035,477	\$ 334,556
	HARPER - MILAN TAP 138KV CKT 1	12/1/2009	6/1/2010			\$ 11,384	\$ 337,500	\$ 20,003
	MEDICINE LODGE - PRATT 115KV CKT 1	4/1/2009	6/1/2011		Yes	\$ 49,436	\$ 6,497,822	\$ 85,148
	ST JOE - WOODBINE 161KV CKT 1	6/1/2010	6/1/2011			\$ 691,116	\$ 2,300,000	\$ 1,203,801
					Total	\$ 1,097,599	\$ 15,508,299	\$ 1,870,857

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
1353057	KC SOUTH TAP	6/1/2009	6/1/2011		Yes
1353059	KC SOUTH TAP	6/1/2009	6/1/2011		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
1353057	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2010	6/1/2011		Yes
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2009	6/1/2013		Yes
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2009	6/1/2011		Yes
1353059	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2010	6/1/2011		Yes
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2009	6/1/2013		Yes
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	6/1/2010		Yes
	REDEL - STILWELL 161KV CKT 1	6/1/2009	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
1353057	COOK - ST JOE 161KV CKT 1	6/1/2010	6/1/2010		Yes
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes
1353059	COOK - ST JOE 161KV CKT 1	6/1/2010	6/1/2010		Yes
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1353057	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
1353059	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		

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

Customer Study Number  
WFEC AG3-2007-043

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WFEC	1510704	WFEC	WFEC	150	5/1/2009	5/1/2039	6/1/2011	6/1/2041	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1510704	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
1510704	CARNEGIE - FORT COBB 138KV CKT 1	6/1/2018	6/1/2018		
	CARNEGIE - HOBART JUNCTION 138KV CKT 1	6/1/2018	6/1/2018		
	ELECTRA SW 69KV CAP BANK	6/1/2014	6/1/2014		
	ESQUANDALE JCT - WALTERS 69KV CKT 1 AEPW	6/1/2011	6/1/2011		
	ESQUANDALE JCT - WALTERS 69KV CKT 1 WFEC	6/1/2010	6/1/2011		
	FORT COBB - SOUTHWESTERN STATION 138KV CKT 1	6/1/2018	6/1/2018		







**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	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1 #2	Replace 138 kV breaker, wave trap, and wave trap jumpers at Bartlesville SE. Reset CT at Bartlesville SE. Replace line switch at N. Bartlesville Tap.	4/1/2009	6/1/2011	\$400,000.00
AEPW	COFFEYVILLE FARMLAND - SOUTH COFFEYVILLE CITY 138KV CKT 1	Rebuild 2.20 miles of 795 ACSR with 1590 ACSR.	6/1/2012	6/1/2012	\$2,200,000.00
AEPW	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1 #2	Replace line switches 5062 & 5072	6/1/2009	6/1/2011	\$300,000.00
AEPW	COFFEYVILLE TAP - SOUTH COFFEYVILLE CITY 138KV CKT 1	Rebuild 6 miles of 566 ACSR with 1590 ACSR. Replace 138 kV line switch at S. Coffeyville Tap.	6/1/2011	6/1/2011	\$6,000,000.00
AEPW	TEXAS EASTMAN - WHITNEY 138KV CKT 1	Rebuild 2.49 miles with 1590 ACSR. Replace wavetrap & jumpers @ Whitney. Replace metering CT @ Texas Eastman	6/1/2009	6/1/2011	\$2,800,000.00
GRDA	AFTON - FAIRLAND EDE TAP 69KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
MIPU	NASHUA - SMITHVILLE 161KV CKT 1	Increase the normal/emergency ratings to 233/265 MVA by replacing wave traps	12/1/2010	12/1/2010	\$180,000.00
MKEC	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	Rebuild 8.05 mile line	10/1/2009	6/1/2011	\$2,011,825.73
MKEC	FLATRDG3 138.00 - HARPER 138KV CKT 1	Rebuild 24.15 mile line	10/1/2009	6/1/2011	\$6,035,477.20
MKEC	HARPER - MILAN TAP 138KV CKT 1	Replace Terminal Equipment	12/1/2009	6/1/2010	\$337,500.00
MKEC	MEDICINE LODGE - PRATT 115KV CKT 1	Rebuild 26 mile line	4/1/2009	6/1/2011	\$6,497,822.00
MKEC	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	Upgrade to 100/147/170MVA transformer	6/1/2009	6/1/2010	\$3,825,000.00
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.	6/1/2009	6/1/2012	\$4,362,139.00
SJLP	ALABAMA - LAKE ROAD 161KV CKT 1	Re-set the overcurrent relay at Alabama 161 kV Sub to open LakeRoad-Alabama 161 kV line	6/1/2009	6/1/2009	\$0.00
SJLP	ST JOE - WOODBINE 161KV CKT 1	reconductor	6/1/2010	6/1/2011	\$2,300,000.00
SPS	FINNEY SWITCHING STATION - HITCHLAND 7 345.00 345KV CKT 1 Displacement	Replace Terminal Equipment	12/1/2010	12/1/2010	\$337,500.00
SUNC	RULETON 115KV Capacitor	Install Second 12 Mvar cap bank at Ruleton 115kV	6/1/2014	6/1/2014	\$486,000.00
WERE	DEARING 138KV Capacitor Displacement	Dearing 138 kV 20 MVAR Capacitor Addition	6/1/2011	6/1/2011	\$47,937.00
WERE	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 Displacement	Rebuild 5.56-mile line, 954 ACSR	6/1/2013	6/1/2013	\$434,756.00
WERE	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacement	Replace 69 kV disconnect switches at Aquarius.	6/1/2013	6/1/2013	\$583.00
WERE	MACARTHUR - OATVILLE 69KV CKT 1 Displacement	Replace the 69 kV bus and jumpers on the Oatville-Mac Arthur 69 kV line.	6/1/2013	6/1/2013	\$7,905.00
WERE	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	Uprate TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1 to 100-degree C operation and uprate terminal equipment (236/250)	6/1/2012	6/1/2012	\$1,125,000.00

**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	4/1/2009	6/1/2011
AEPW	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	Tie Line, Reconductor 1.09 miles of 795 ACSR with 1590 ACSR.	12/1/2009	6/1/2010
AEPW	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	Rebuild 13.11 miles of 795 ACSR with 1590 ACSR.	6/1/2009	6/1/2011
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Valliant 345 KV line terminal	6/1/2009	7/1/2012
KACP	MARTIN CITY - REDEL 161KV CKT 1	reconductor 1192 acss upgrade terminal equip 2000 amp	6/1/2009	6/1/2011
SJLP	COOK - ST JOE 161KV CKT 1	Conductor, Switch, Relay	6/1/2010	6/1/2010
SWPA	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #2 SWPA	Replace bus.	6/1/2009	6/1/2010
SWPA	CLARKSVILLE - DARDANELLE 161KV CKT 1	Reconductor Clarksville-Dardanelle line	6/1/2013	6/1/2013
WERE	ALLEN - LEHIGH TAP 69KV CKT 1	Tear down / Rebuild 5.69-mile line; 954 kcmil ACSR	6/1/2011	6/1/2011
WERE	Athens to Owl Creek 69 kV	Rebuild Athens to Owl Creek (138kV/69kV Operation)	6/1/2011	6/1/2011
WERE	BURLINGTON JUNCTION - COFFEY COUNTY NO. 3 WESTPHALIA 69KV CKT 1	Rebuild 7.2 miles (138kV/69kV Operation)	6/1/2011	6/1/2011
WERE	BURLINGTON JUNCTION - WOLF CREEK 69KV CKT 1	Rebuild 4.1 miles (138kV/69kV Operation)	6/1/2011	6/1/2011
WERE	COFFEY COUNTY NO. 3 WESTPHALIA - GREEN 69KV CKT 1	Rebuild 9.22 miles (138kV/69kV Operation)	6/1/2011	6/1/2011
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	Tie Line, Rebuild 3.93 miles of 795 ACSR with 1590 ACSR.	12/1/2009	6/1/2010
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	Replace Disconnect Switches, Wavetrap, Breaker, Jumpers	12/1/2009	6/1/2010
WERE	East Manhattan to McDowell 230 kV Displacement	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.	6/1/2009	6/1/2011
WERE	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 #1 Displacement	Replace Disconnect Switches, Wavetrap, Breaker, Jumpers	6/1/2010	6/1/2010
WERE	Green to Vernon 69 kV	Rebuild 7.19 miles Green to Vernon 69 kV (138kV/69kV Operation)	6/1/2011	6/1/2011
WERE	LEHIGH TAP - OWL CREEK 69KV CKT 1	Tear down / Rebuild 8.47-mile 69 kV line; 954 kcmil ACSR	6/1/2011	6/1/2011
WERE	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	Replace bus and Jumpers at NE Parsons 138 kV substation	6/1/2010	6/1/2010
WERE	RICHLAND - ROSE HILL JUNCTION 69KV CKT 1 Displacement	Rebuild 5.43 mile Rose Hill Junction-Richland as a 138 kV line but operate at 69 kV.	12/1/2010	6/1/2011
WERE	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	Add third 345-138 kV transformer at Rose Hill	4/1/2009	6/1/2011
WERE	Vernon to Athens 69 kV	Rebuild 5.17 miles Green to Vernon 69 kV (138kV/69kV Operation)	6/1/2011	6/1/2011
WFEC	HUGO POWER PLANT - VALLIANT 345 KV WFEC	New 345/138 kv Auto, and 19 miles 345 KV	6/1/2009	7/1/2012

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

**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)
SWPA	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	Replace bus at Bull Shoals. That should increase rating to 223 MVA.	6/1/2009	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)
AEPW	ARSENAL HILL - NORTH MARKET 69KV CKT 1	Rebuild 2.3 miles of 666 ACSR with 1272 ACSR	6/1/2010	6/1/2011
EMDE	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 EMDE	Replace Jumpers to breaker #6950 at Blackhawk Jct.	6/1/2016	6/1/2016
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	6/1/2017	6/1/2017
EMDE	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	Replace Disconnect Switches and Leads on Breaker #6965 at Sub #64 and #6932 at Sub #145	6/1/2017	6/1/2017
EMDE	SUB 383 - MONETT - SUB 376 - MONETT CITY SOUTH 161/69/12.5KV TRANSFORMER CKT 1	Install new line from Sub #383 to new Sub MONETT 5. Install 3-wind transformer from 161 kV new bus to Monett city south 69kV	6/1/2018	6/1/2018
GRDA	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	Add a second 50 MVA Transformer at Afton Substation.	6/1/2009	6/1/2012
GRDA	CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	Replace existing transformer	6/1/2009	6/1/2009
GRDA	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	Replace existing transformer	6/1/2009	6/1/2009
GRDA	KERR - PENSACOLA 115KV CKT 1	Rebuild line to accommodate 795 ACSR.	6/1/2009	6/1/2012
GRDA	MAID - PRYOR FOUNDRY SOUTH 69KV CKT 1	Upgrade conductor size 795 ACSR	6/1/2014	6/1/2014
GRDA	MAID - REDDEN 69KV CKT 1	Upgrade conductor size 795 ACSR	6/1/2014	6/1/2014
GRDA	SALLISAW CAP BANK	Install cap bank	6/1/2009	6/1/2009
MIPU	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	Reconductor to Bundled Drake	6/1/2009	6/1/2013
MIPU	KC SOUTH TAP	Montrose - Loma Vista tapped at KC South	6/1/2009	6/1/2011
OKGE	BROWN - EXPLORER TAP 138KV CKT 1	Reconductor .27 miles of line to 795AS33.	6/1/2009	6/1/2011
OKGE	MCCELROY - STILLWATER 138KV CKT 1	Reconductor 1.91 of 477AS33 to 795AS33	6/1/2009	6/1/2009
WERE	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	Rebuild Circle - HEC GT 115 kV line.	6/1/2009	6/1/2009
WERE	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	Rebuild 5.49 mile line	6/1/2013	6/1/2013
WERE	Summit - NE Saline 115 kv	Build 6.5-mile Summit-Southgate 115 kV, 1192.5 kcmil ACSR Tear down Northview-South Gate 115 kv	6/1/2009	12/1/2009

**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	ASHDOWN WEST - CRAIG JUNCTION 138KV CKT 1	Rebuild 2.45 miles of 795 ACSR with 1590 ACSR	6/1/2013	6/1/2013
AEPW	BETHEL - BROKEN BOW 138KV CKT 1	Rebuild 9.19 miles of 3/0 Copperweld with 795 ACSR	6/1/2011	6/1/2011
AEPW	CARNEGIE - FORT COBB 138KV CKT 1	Reconductor 11.03 miles with 795 ACSR Carnegie -Fort Cobb	6/1/2018	6/1/2018
AEPW	CARNEGIE - HOBART JUNCTION 138KV CKT 1	Reconductor 26.15 miles with 795 ACSR from Carnegie-Hobart Junction	6/1/2018	6/1/2018
AEPW	DIANA - LONE STAR SOUTH 138KV CKT 1	Rebuild 11.78 miles of 2-336 ACSR with 1590 ACSR and replace Diana wavetrap & jumpers, Diana switch 10387, & reset CTs @ Lone Star South & Diana	12/1/2009	6/1/2012
AEPW	ESQUANDALE JCT - WALTERS 69KV CKT 1 AEPW	Replace switches at Walters and reset CTs	6/1/2011	6/1/2011
AEPW	FORT COBB - SOUTHWESTERN STATION 138KV CKT 1	Reconductor 3.34 miles with 795 ACSR South West Station - Fort Cobb	6/1/2018	6/1/2018
AEPW	LOCUST GROVE - LONE STAR 115KV CKT 1	Rebuild 2.15 miles of 266 ACSR with 795 ACSR	6/1/2014	6/1/2014
AEPW	PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1	Replace (3) 600 A switches with 1200 A switches replace and replace transformer 130/143 MVA autotransformer also replace 500 Cu 69 kv jumpers and raise CT	6/1/2015	6/1/2015
AEPW	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	Rebuild 5.82 miles with 1272 ACSR	6/1/2012	6/1/2012
AEPW	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	Rebuild 2.06 miles of 2-397 ACSR with 2156 ACSR. Replace wavetrap, switches, & jumpers @ AEP Siloam Springs.	12/1/2010	6/1/2011
EMDE	SUB 124 - AURORA H.T. - SUB 152 - MONETT H.T. 69KV CKT 1	Change CT Ratio on breaker #6936 at Aurora #124	6/1/2009	6/1/2010
EMDE	SUB 152 - MONETT H.T. - SUB 383 - MONETT 69KV CKT 1	Replace 4/0 Cu jumpers with 500 MCM Cu, new Rate: 54 / 65	6/1/2009	6/1/2010
EMDE	SUB 170 - NICHOLS ST. - SUB 80 - MARSHFIELD JCT. 69KV CKT 1	Reconductor line from Sub #80 to Sub #170 from 1/0 CU to 556 ACSR and replace Jumpers in Sub #80	6/1/2013	6/1/2013
GRDA	CPP TRANSF #2 - PRYOR FOUNDRY SOUTH 69KV CKT 1	Replace 600A switch with 1200A switch	6/1/2016	6/1/2016
KACP	IATAN - STRANGER CREEK 345KV CKT 2	Convert Iatan-Stranger Creek 161kV line to 345kV	6/1/2010	6/1/2011
KACP	REDEL - STILLWELL 161KV CKT 1	Reconductor line with 1192 ACS and upgrade terminal equipment for 2000 amps	6/1/2009	6/1/2011
MIDW	LYONS - WHEATLAND 115KV CKT 1 MIDW	Rebuild 98.5% ownership of 19.4 miles	6/1/2017	6/1/2017
MIDW	ST JOHN CAPACITOR	Install 10MVAR capacitors at St. John	6/1/2011	6/1/2011
MIPU	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	Upgrade to bundled 795 26/7 ACSR conductor	6/1/2009	6/1/2013
MIPU	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	Increase the normal/emergency ratings to 233/265 MVA by replacing wave traps	6/1/2010	6/1/2010
OKGE	3RDST - ARKOMA 161KV CKT 1	Replace 8-1200A switches & 2-wave traps.	6/1/2016	6/1/2016
SWPA	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 #1 SWPA	Replace wave trap, disconnect switches, current transformers, and breaker.	6/1/2009	6/1/2010

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

WERE	ABILENE ENERGY CENTER 115KV - TC-HOPE	Build 22.7 mile 115 kV Line from new Hope Substation to TC-Hope	6/1/2011	6/1/2011
WERE	AQUARIUS - HUDSON JUNCTION 69KV CKT 1	Rebuild 0.72 miles	6/1/2018	6/1/2018
WERE	AQUARIUS - LITCHFIELD 69KV CKT 1	Rebuild 5.54 miles	6/1/2018	6/1/2018
WERE	AUBURN ROAD (AUBRN7X) 230/115/13.8KV TRANSFORMER CKT 2	Add second Auburn 230-115 kV transformer.	6/1/2009	6/1/2011
WERE	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV CKT 1	Rebuild Line	6/1/2009	6/1/2011
WERE	CHISHOLM - RIPLEY 69KV CKT 1	Tear down and rebuild 2.40 Chisholm - Ripley 69 kV with 1192.5 ACSR	6/1/2010	6/1/2011
WERE	CHISHOLM (CHISLM1X) 138/69/13.2KV TRANSFORMER CKT 2	Install Chisholm 138-69 xfmr #2	6/1/2010	6/1/2011
WERE	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	Upgrade JEC - E.Manhattan 230 kV line to 100 deg C operation by raising structures	6/1/2009	6/1/2011
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	6/1/2009	6/1/2011
WERE	FORT JUNCTION SWITCHING STATION - WEST JUNCTION CITY JUNCTION 115KV CKT 1	Build new Ft Jct. - W. Jct City line that follows the path of the JEC - Summit 345kV. Remove old double circuit and WJCTYE - WJCTCTY 115 kV	6/1/2010	6/1/2011
WERE	GILL ENERGY CENTER WEST - WACO 138KV CKT 1	Tear down and rebuild Gill - Waco with bundled 1192.5 ACSR conductor	6/1/2010	6/1/2011
WERE	HOPE 230/115 KV	Tap the Morris - Summit 230kV line and add a new substation "Hope"; Add a 230kV/115kV transformer and Build 3.5 mile 115 kV line to TC-Hope	6/1/2011	6/1/2011
WERE	HUDSON JUNCTION - PITTSBURG 69KV CKT 1	Rebuild 1.41 miles	6/1/2018	6/1/2018
WERE	KELLY - SOUTH SENECA 115KV CKT 1	Rebuild 10.28 mile line with 1192.5 kcmil ACSR and replace CTs.	4/1/2009	6/1/2010
WERE	Knob Hill - Steele City 115 kV	Building a new 115 kV tie with NPPD from Greenleaf to Clay Center	4/1/2009	6/1/2010
WERE	LYONS - WHEATLAND 115KV CKT 1 WERE	Rebuild 1.5% ownership of 19.4 miles	6/1/2017	6/1/2017
WERE	RICHLAND - UDALL 69KV CKT 1	Tear down / Rebuild 8.48-mile Richland-Udall 69 kV line using 954 kcmil ACSR	12/1/2013	12/1/2013
WERE	SEVENTEENTH () 138/69/11.295KV TRANSFORMER CKT 2	Install second 17th St. 138-69 kV transformer	6/1/2010	6/1/2011
WERE	SHAWNEE HEIGHTS - TECUMSEH HILL 115KV CKT 1	Rebuild 5.2 miles	6/1/2018	6/1/2018
WERE	STRANGER CREEK - NW LEAVENWORTH 115KV	Rebuild 11.62-mile Jarbalo-NW Leavenworth 115 kV line and tap in & out of Stranger 115 kV	6/1/2010	6/1/2011
WFEC	ELECTRA SW 69KV CAP BANK	Add 6 Mvar capacitor at Electra 69 kV bus for a total of 18 MVAR at this location	6/1/2014	6/1/2014
WFEC	ESQUANDALE JCT - WALTERS 69KV CKT 1 WFEC	Upgrade Walters to Essaquandale Jct 336.4 to 795ACSR	6/1/2010	6/1/2011
WFEC	MOORELAND - MOREWOOD SW 138KV CKT 1	Upgrade CT's at Mooreland (Morewood Branch) to 800A.	1/1/2010	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 wavetraps & jumpers @ Bann. Replace breaker 3300 @ Bann.	6/1/2008	6/1/2008
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Valliant 345 KV line terminal	7/1/2012	7/1/2012
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	NOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	Replace bus tie with 100MVA transformer	6/1/2006	6/1/2008
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 345/138 kV Auto, and 19 miles 345 KV	6/1/2009	7/1/2012

**Table 5 - Third Party Facility Constraints**

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AECI	4LUTHER 138.00 138/69KV TRANSFORMER CKT 1	replace transformer	6/1/2009	6/1/2009	\$2,000,000.00
AECI	HUBEN 345/161KV TRANSFORMER CKT 1	Install a second Huben 345/161kV transformer	6/1/2012	6/1/2012	\$6,500,000.00
AMMO	5ELDON 161.00 - BARNETT 161KV CKT 1	Indeterminate	4/1/2009	4/1/2009	Indeterminate
AMMO	5ELDON 161.00 161/138KV TRANSFORMER CKT 1	Indeterminate	4/1/2009	4/1/2009	Indeterminate
AMMO	7PALMYRA 345.00 345/161KV TRANSFORMER CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
CELE	COCODRIE 230/138KV TRANSFORMER CKT 1	Indeterminate	6/1/2010	6/1/2010	Indeterminate
CELE	PONT DES MOUTON - WELLS 230KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
CELE	SOUTHWEST BAYOU RAPIDES - TWIN BRIDGES 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	3GRENWD - HUMPHREY 115KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	3GRENWD - TERREBONNE 115KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	4JUDICE - MEAUX BULK 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	4JUDICE - SCOTT 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	4KSPRGS - LINE 642 TAP 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	4NCROWL - SCOTT 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	4SEMERE - SCOTT 138KV CKT 1	Indeterminate	4/1/2009	4/1/2009	Indeterminate
ENTR	ADAMS CREEK - BOGALUSA 230KV CKT 2	Indeterminate	4/1/2009	4/1/2009	Indeterminate
ENTR	ARKANSAS NUCLEAR ONE - RUSSELLVILLE NORTH 161KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	CECELIA - DOC BONIN 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	CECELIA - MORIL 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	COLONIAL ACADEMY - RICHARD 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	DARDANELLE - DARDANELLE 161KV CKT 1	Indeterminate	6/1/2010	6/1/2010	Indeterminate
ENTR	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 ENTR	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	DOC BONIN - SCOTT 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	EVERTON - HARRISON-EAST 161KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	GIBSON - HUMPHREY 115KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	GIBSON - RAMOS 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	HARRISON-EAST - SUMMIT 161KV CKT 1	Indeterminate	6/1/2010	6/1/2010	Indeterminate
ENTR	HILLTOP - ST JOE 161KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	INDEPENDENCE - LS POWER OSCEOLA UNIT 500KV CKT 1	Indeterminate	6/1/2012	6/1/2012	Indeterminate
ENTR	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	LIVONIA BULK - WILBERT 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	RICHARD - SCOTT 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
ENTR	WELLS 500/230KV TRANSFORMER CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
Lafa	ACADIANA MALL - DOC BONIN 230KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
Lafa	ACADIANA MALL - FLANDERS 230KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
Lafa	DOC BONIN - LABBE 230KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
Lafa	DOC BONIN 230/138KV TRANSFORMER CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
Lafa	LABBE - PONT DES MOUTON 230KV CKT 1	Indeterminate	6/1/2009	6/1/2009	Indeterminate
OPPD	S963 8 69.000 - W BROCK8 69.000 69KV CKT 1	Indeterminate	6/1/2013	6/1/2013	Indeterminate
TBD	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	Build a new 345KV line from Spearville - Knoll - Axtell	6/1/2017	6/1/2017	\$240,000,000.00