



*Aggregate Facility Study
SPP-2007-AG2-AFS-9
For Transmission Service
Requested by
Aggregate Transmission Customers*

SPP Engineering, SPP Tariff Studies

SPP AGGREGATE FACILITY STUDY (SPP-2007-AG2-AFS-9)

March 6, 2009

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1. Executive Summary

Pursuant to Attachment Z1 of the Southwest Power Pool Open Access Transmission Tariff (OATT), 642 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 \$6 Million. Additionally \$252 Million of assigned E & C cost for 3rd party facility upgrades are assignable to the customer. The total upgrade levelized revenue requirement for all transmission requests is \$ 15 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 \$13 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 \$252 Million.

The Transmission Provider will tender a Letter of Intent on March 6, 2009. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by March 21, 2009, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

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

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

2. Introduction

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

Approximately 642 MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$6 Million in transmission upgrades being proposed. The results of the AFS are detailed in Tables 1 through 7. A highly tangible benefit of studying transmission requests aggregately under the SPP OATT Attachment Z1 is the sharing of costs among customers using the same facility. The detailed results show individual upgrade costs by study as well as potential base plan allowances as determined by Attachments J and Z1. The following URL can be used to access the SPP OATT: (http://www.spp.org/Publications/SPP_Tariff.pdf). In order to understand the extent to which base plan upgrades may be applied to both point-to-point and network transmission services, it is necessary to highlight the definition of Designated Resource. Per Section 1.9a of the SPP OATT, a Designated Resource is “[a]ny designated generation resource owned, purchased or leased by a Transmission Customer to serve load in the SPP Region. Designated Resources do not include any resource, or any portion thereof, that is committed for sale to third parties or otherwise cannot be called upon to meet the Transmission Customer's load on a non-interruptible basis.” Therefore, not only network service, but also point-to-point service has potential for base plan funding if the conditions for classifying upgrades associated with designated resources as base plan upgrades as defined in Section III.B of Attachment J are met.

Pursuant to Attachment J, Section III B of the SPP OATT, the Transmission Customer must provide SPP information necessary to verify that the new or changed Designated Resource meets the following conditions:

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

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

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

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

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

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

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

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

A. Financial Analysis

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

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

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

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

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

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

B. Third Party Facilities

For third-party facilities listed in Table 3 and Table 5, the Transmission Customer is responsible for funding the necessary upgrades of these facilities per Section 21.1 of the Transmission Provider's OATT. In this AFS, third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are \$252 Million. The Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in making arrangements for necessary engineering, permitting, and construction of the third-party facilities. Third-party facility upgrade engineering and construction cost estimates are not utilized to determine the present worth value of levelized revenue requirements for SPP system network upgrades.

All modeled facilities within the Transmission Provider system were monitored during the development of this Study as well as certain facilities in first-tier neighboring systems. Third-party facilities must be upgraded when it is determined that they are overloaded while accommodating the requested Transmission Service. An agreement between the Customer and 3rd Party Owner detailing the mitigation of the 3rd party impact must be provided to the Transmission Provider prior to tendering of a Transmission Service Agreement. These facilities

also include those owned by members of the Transmission Provider who have not placed their facilities under the Transmission Provider's OATT. Upgrades on the Southwest Power Administration network requires prepayment of the upgrade cost prior to construction of the upgrade.

Third-party facilities are evaluated for only those requests whose load sinks within the SPP footprint. The Customer must arrange for study of 3rd party facilities for load that sinks outside the SPP footprint with the applicable Transmission Providers.

3. Study Methodology

A. Description

The system impact analysis was conducted to determine the steady-state impact of the requested service on the SPP and first tier Non - SPP control area systems. The steady-state analysis was done to ensure current SPP Criteria and NERC Reliability Standards requirements are fulfilled. The Southwest Power Pool conforms to the NERC Reliability Standards, which provide the strictest requirements, related to voltage violations and thermal overloads during normal conditions and during a contingency. It requires that all facilities be within normal operating ratings for normal system conditions and within emergency ratings after a contingency. Normal operating ratings and emergency operating ratings monitored are Rate A and B in the SPP MDWG models, respectively. The upper bound and lower bound of the normal voltage range monitored is 110% and 90%. The upper bound and lower bound of the emergency voltage range monitored is 110% and 90%. Transmission Owner voltage monitoring criteria is used if more restrictive. The SPS Tuco 230 kV bus voltage is monitored at 92.5% due to pre-determined system stability limitations. The WERE Wolf Creek 345 kV bus voltage is monitored at 98.5% due to transmission operating procedure.

The contingency set includes all SPP control area branches and ties 69kV and above, first tier Non - SPP control area branches and ties 115 kV and above, any defined contingencies for these control areas, and generation unit outages for the control areas with SPP reserve share program redispatch. The monitor elements include all SPP control area branches, ties, and buses 69 kV and above, and all first tier Non – SPP control area branches and ties 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 eleven seasonal models to study the aggregate transfers of 642 MW over a variety of requested service periods. The SPP STEP 2008 Q4 Series Cases 2009 April (09AP), 2009 Spring Peak (09G), 2009 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 642 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

eleven 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 1st-Tier) and voltage threshold (0.02 change) were applied to determine the impacted facilities. The PSS/E options chosen to conduct the analysis can be found in Appendix A.

E. Curtailment and Redispatch Evaluation

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

Redispatch was evaluated to provide only interim service during the time frame prior to completion of any assigned network upgrades. Curtailment of existing confirmed service is evaluated to provide only interim service. Curtailment of existing confirmed service is only evaluated at the request of the transmission customer.

SPP determined potential relief pairs to relieve the incremental MW impact on limiting facilities as identified in Table 6. Using the selected cases where the limiting facilities were identified, potential incremental and decremental units were identified by determining the generation amount available for increasing and decreasing from the units generation amount, maximum generation amount, and minimum generation amount. If the incremental or decremental amount was greater than 1 MW, the unit was considered as a potential incremental or decremental unit. Generation shift factors were calculated for the potential incremental and decremental units using Managing and Utilizing System Transmission (MUST). Relief pairs from the generation shift factors for the incremental and decremental units with a greater than 3% TDF on the limiting constraint were determined from the incremental units with the lowest generation shift factors and decremental units with highest generation shift factors. If the aggregate redispatch amount for the potential relief pair was determined to be three times greater than the lower of the increment or decrement then the pair was determined not to be feasible and is not included. If transmission customer would like to see additional relief pairs beyond the relief pairs determined, the transmission customer can request SPP to provide the additional pairs. The potential relief pairs **were not** evaluated to determine impacts on limiting facilities in the SPP and 1st-Tier systems. The redispatch requirements would be called upon prior to implementing NERC TLR Level 5a.

4. Study Results

A. Study Analysis Results

Tables 1 through 6 contain the steady-state analysis results of the AFS. Table 1 identifies the participating long-term transmission service requests included in the AFS. This table lists deferred start and stop dates both with and without redispatch (based on customer selection of redispatch if available), the minimum annual allocated ATC without upgrades and season of first impact. Table 2 identifies total E & C cost allocated to each Transmission Customer, letter of credit requirements, third party E & C cost assignments, potential base plan E & C funding (lower of allocated E & C or Attachment J Section III B criteria) , total revenue requirements for assigned upgrades without consideration of potential base plan funding, point-to-point base rate charge, total revenue requirements for assigned upgrades with consideration of potential base plan funding, and final total cost allocation to the Transmission Customer. In addition, Table 2 identifies SWPA upgrade costs which require prepayment in addition to other allocated costs. Table 3 provides additional details for each request including all assigned facility upgrades required, allocated E & C costs, allocated revenue requirements for upgrades, upgrades not assigned to customer but required for service to be confirmed, credits to be paid for previously assigned AFS or GI network upgrades, and any third party upgrades required. Table 4 lists all upgrade requirements with associated solutions needed to provide transmission service for the AFS, Minimum ATC per upgrade with season of impact, Earliest Date Upgrade is required (DUN), Estimated Date the upgrade will be completed and in service (EOC), and Estimated E & C cost. Table 5 lists identified Third-Party constrained facilities. Table 6 identifies potential redispatch pairs available to relieve the aggregate impacts on identified constraints to prevent deferral of start of service. Table 7 (if applicable) identifies deferred expansion plan projects that were replaced with requested upgrades at earlier dates.

The potential base plan funding allowable is contingent upon meeting each of the conditions for classifying upgrades associated with designated resources as base plan upgrades as defined in

Section III.B of Attachment J. If the additional capacity of the new or changed designated resource exceeds the 125% resource to load forecast for the year of start of service, the requested resource is not eligible for base plan funding of required network upgrades and the full cost of the upgrades is assignable to the customer. 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 March 6, 2009. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by March 21, 2009, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

The Transmission Provider must receive an unconditional and irrevocable letter of credit in the amount of the total allocated Engineering and Construction costs assigned to the Customer. This letter of credit is not required for those facilities that are base plan funded. This amount is for all assignable Network Upgrades less pre-payment requirements. The amount of the letter of credit will be adjusted down on an annual basis to reflect amortization of these costs. The Transmission Provider will issue notifications to construct 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 redispach	Deferred Stop Date without interim redispach	Start Date with interim redispach	Stop Date with interim redispach	Minimum Allocated ATC (MW) withing reservation period	Season of Minimum Allocated ATC within reservation period
AEPM	AG2-2007-049	1283585	WFEC	CSWS	15	6/1/2008	6/1/2013	6/1/2011	6/1/2016	7/1/2009	7/1/2014		08SP
AEPM	AG2-2007-051	1283682	WFEC	CSWS	152	6/1/2008	6/1/2013	6/1/2011	6/1/2016	7/1/2009	7/1/2014		08SP
AEPM	AG2-2007-107	1286446	CSWS	CSWS	100	1/1/2009	1/1/2010	6/1/2011	6/1/2012	7/1/2009	7/1/2010		09SP
CWEP	AG2-2007-047	1283676	EES	SPA	12	6/1/2010	6/1/2040	6/1/2010	6/1/2040	6/1/2010	6/1/2040		10SP
KPCS	AG2-2007-109	1286498	KCPL	EES	82	1/1/2009	6/1/2010	7/1/2009	12/1/2010	7/1/2009	12/1/2010		09SP
KEPC	AG2-2007-028	1281648	WR	EDE	6	1/1/2008	1/1/2019	6/1/2011	6/1/2022	7/1/2009	7/1/2020		08SP
KPP	AG2-2007-072	1285893	WR	WR	8	11/1/2007	11/1/2017	10/1/2011	10/1/2021	7/1/2009	7/1/2019		08SP
MIDW	AG2-2007-012	1268955	WR	WR	5	6/1/2008	6/1/2013	6/1/2013	6/1/2018	6/1/2013	6/1/2018		08SP
MIDW	AG2-2007-013	1268959	WR	WR	1	6/1/2008	6/1/2013	10/1/2010	10/1/2015	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-014	1268965	WR	WR	1	6/1/2008	6/1/2013	10/1/2010	10/1/2015	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-034	1281706	WR	WR	25	3/1/2008	3/1/2027	6/1/2013	6/1/2032	6/1/2013	6/1/2032		08SP
MIDW	AG2-2007-069	1285864	WR	WR	4	6/1/2008	6/1/2013	6/1/2013	6/1/2018	6/1/2013	6/1/2018		08SP
MIDW	AG2-2007-069	1285865	WR	WR	3	6/1/2008	6/1/2013	10/1/2010	10/1/2015	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-069	1285866	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-069	1285867	WR	WR	1	6/1/2008	6/1/2013	10/1/2010	10/1/2015	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-070	1285869	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-071	1285872	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-071	1285873	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-078	1285946	WR	WR	3	6/1/2008	6/1/2013	6/1/2011	6/1/2016	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-078	1285947	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-078	1285948	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-079	1285949	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	7/1/2009	7/1/2014		08SP
MIDW	AG2-2007-079	1285950	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	7/1/2009	7/1/2014		08SP
SPRM	AG2-2007-110	1286502	WR	SPA	25	12/1/2008	12/1/2028	6/1/2011	6/1/2031	7/1/2009	7/1/2029		09SP
WFEC	AG2-2007-016	1278401	WFEC	WFEC	19	12/15/2007	12/15/2032	6/1/2011	6/1/2036	6/1/2011	6/1/2036		08SP
WRGS	AG2-2007-011D	1268638	KCPL	AMRN	20	6/1/2010	6/1/2015	6/1/2010	6/1/2015	6/1/2010	6/1/2015		10SP
WRGS	AG2-2007-017D	1278809	EES	SPA	20	3/1/2010	3/1/2040	10/1/2010	10/1/2040	10/1/2010	10/1/2040		10SP
WRGS	AG2-2007-018D	1278811	EES	SPA	20	3/1/2010	3/1/2040	3/1/2010	3/1/2040	3/1/2010	3/1/2040		10SP
WRGS	AG2-2007-019D	1278813	EES	SPA	7	3/1/2010	3/1/2040	3/1/2010	3/1/2040	3/1/2010	3/1/2040		10SP
WRGS	AG2-2007-092D	1286201	SECI	WR	99	3/1/2009	3/1/2019	10/1/2011	10/1/2021	10/1/2011	10/1/2021		09SP

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Note 1: Disregard Redispatch shown in Table 6 for limitations identified earlier than the start date with redispach with the exception of limitations identified in the 2009 Summer Shoulder, and 2009 Fall Peak

Note 2: Start and Stop Dates with interim redispach are determined based on customers choosing option to pursue redispach to start service at Requested Start and Stop Dates or earliest date possible.

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

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

Customer	Study Number	Reservation	Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	¹ Letter of Credit Amount Required	² Potential Base Plan Engineering and Construction Funding Allowable	Notes	⁴ Additional Engineering and Construction Cost for 3rd Party Upgrades	³ Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITHOUT Potential Base Plan Funding Allocation	³⁵ Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITH Potential Base Plan Funding Allocation	Point-to-Point Base Rate Over Reservation Period	⁴ Total Cost of Reservation Assignable to Customer Contingent Upon Base Plan Funding
AEPM	AG2-2007-049	1283585	\$ 2,197,564	\$ 1,927,564	\$ 270,000		\$ -	\$ 4,250,656	\$ 3,728,406	\$ -	\$ 3,728,406
AEPM	AG2-2007-051	1283682	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
AEPM	AG2-2007-107	1286446	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
CWEP	AG2-2007-047	1283676	\$ -	\$ -	\$ -		\$ 315,388	\$ -	\$ -	\$ 3,888,000	\$ 3,888,000
KCPS	AG2-2007-109	1286498	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 1,254,600	\$ 1,254,600
KEPC	AG2-2007-028	1281648	\$ -	\$ -	\$ -		\$ 505,814	\$ -	\$ -	\$ -	Schedule 9 Charges
KPP	AG2-2007-072	1285893	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
MIDW	AG2-2007-012	1268955	\$ -	\$ -	\$ -	7	\$ 24,605,339	\$ -	\$ -	\$ 472,500	\$ 472,500
MIDW	AG2-2007-013	1268959	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 94,500	\$ 94,500
MIDW	AG2-2007-014	1268965	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 94,500	\$ 94,500
MIDW	AG2-2007-034	1281706	\$ -	\$ -	\$ -	7	\$ 195,710,595	\$ -	\$ -	\$ -	Schedule 9 Charges
MIDW	AG2-2007-069	1285864	\$ -	\$ -	\$ -	7	\$ 19,684,066	\$ -	\$ -	\$ 378,000	\$ 378,000
MIDW	AG2-2007-069	1285865	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 283,500	\$ 283,500
MIDW	AG2-2007-069	1285866	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 189,000	\$ 189,000
MIDW	AG2-2007-069	1285867	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 94,500	\$ 94,500
MIDW	AG2-2007-070	1285869	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 189,000	\$ 189,000
MIDW	AG2-2007-071	1285872	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 189,000	\$ 189,000
MIDW	AG2-2007-071	1285873	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 189,000	\$ 189,000
MIDW	AG2-2007-078	1285946	\$ 250,000	\$ -	\$ -		\$ -	\$ 318,517	\$ 318,517	\$ 283,500	\$ 318,517
MIDW	AG2-2007-078	1285947	\$ 166,667	\$ -	\$ -		\$ -	\$ 212,345	\$ 212,345	\$ 189,000	\$ 212,345
MIDW	AG2-2007-078	1285948	\$ 83,333	\$ -	\$ -		\$ -	\$ 106,172	\$ 106,172	\$ 94,500	\$ 106,172
MIDW	AG2-2007-079	1285949	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 189,000	\$ 189,000
MIDW	AG2-2007-079	1285950	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 94,500	\$ 94,500
SPRM	AG2-2007-110	1286502	\$ -	\$ -	\$ -		\$ 5,678,798	\$ -	\$ -	\$ -	Schedule 9 Charges
WFEC	AG2-2007-016	1278401	\$ 3,402,436	\$ -	\$ 342,000		\$ -	\$ 9,676,402	\$ 8,703,766	\$ -	\$ 8,703,766
WRGS	AG2-2007-011D	1268638	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 1,080,000	\$ 1,080,000
WRGS	AG2-2007-017D	1278809	\$ -	\$ -	\$ -		\$ 61,229	\$ -	\$ -	\$ 6,480,000	\$ 6,480,000
WRGS	AG2-2007-018D	1278811	\$ -	\$ -	\$ -	6	\$ 3,001,715	\$ -	\$ -	\$ 6,480,000	\$ 6,480,000
WRGS	AG2-2007-019D	1278813	\$ -	\$ -	\$ -		\$ 2,537,056	\$ -	\$ -	\$ 2,268,000	\$ 2,268,000
WRGS	AG2-2007-092D	1286201	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
Grand Total			\$ 6,100,000					\$ 14,564,093	\$ 13,069,208		

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

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

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

Note 3: Revenue Requirements (RR) are based upon deferred end dates if applicable. Deferred dates are based upon customer's choice to pursue redispach. 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 redispach 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: SWPA Upgrade Cost Prepayments are required in addition to Total Cost of Reservation.

Note 7: The Spearville-Knoll-Axtell 345kV Ckt 1 facility could be considered as a Balanced Portfolio project by the SPP BOD at their April 2009 meeting. If this line is approved, it will be considered a construction pending project and not assignable to 2007-AG2 customers.

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

Customer Study Number
 AEPM AG2-2007-049

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1283585	WFEC	CSWS	15	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ 270,000	\$ -	\$ 2,197,564	\$ 4,250,657
									\$ 270,000	\$ -	\$ 2,197,564	\$ 4,250,657

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1283585	BUFFALO - WEST 69KV CKT 1	7/1/2009	6/1/2011		Yes	\$ 18,330	\$ 150,000	\$ 35,455
	FARGO JCT - FT SUPPLY 69KV CKT 1	7/1/2009	6/1/2011		Yes	\$ 2,138,964	\$ 5,350,000	\$ 4,137,309
	FARGO JCT - WOODWARD 69KV CKT 1	7/1/2009	6/1/2011		Yes	\$ 40,270	\$ 100,000	\$ 77,893
Total						\$ 2,197,564	\$ 5,600,000	\$ 4,250,657

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
1283585	BUFFALO - FT SUPPLY 69KV CKT 1	6/1/2010	6/1/2011		
	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2010		Yes
	IODINE - MOORELAND 138KV CKT 1	7/1/2009	6/1/2010		Yes
	MOORELAND - MOREWOOD SW 138KV CKT 1	7/1/2009	6/1/2010		Yes
	Multi-Dover-Twin Lake, Crescent 138 kV	6/1/2014	6/1/2014		

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
1283585	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	6/1/2010	6/1/2011		Yes
	SILLOAM CITY - SILLOAM SPRINGS 161KV CKT 1	7/1/2009	6/1/2011		

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1283585	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	FT SUPPLY 138/69KV TRANSFORMER CKT 1	12/1/2006	6/1/2008		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

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

Customer Study Number
 AEPM AG2-2007-051

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1283682	WFEC	CSWS	152	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1283682	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
1283682	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2010		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1283682	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	6/1/2010	6/1/2011		Yes
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	7/1/2009	6/1/2011		

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1283682	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		

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

Customer Study Number
 AEPM AG2-2007-107

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1286446	CSWS	CSWS	100	1/1/2009	1/1/2010	6/1/2011	6/1/2012	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1286446	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
1286446	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2010		Yes
	MOORELAND - MOREWOOD SW 138KV CKT 1	7/1/2009	6/1/2010		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1286446	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	6/1/2010	6/1/2011		Yes
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	7/1/2009	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
1286446	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	7/1/2009	6/1/2011		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	7/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	7/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	6/1/2010	6/1/2010		
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	7/1/2009	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
 CWEP AG2-2007-047

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
CWEP	1283676	EES	SPA	12	6/1/2010	6/1/2040			\$ -	\$ 3,888,000	\$ -	\$ -
									\$ -	\$ 3,888,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1283676	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
1283676	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	6/1/2010	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1283676	3RDST - ARKOMA 161KV CKT 1	6/1/2017	6/1/2017		
	ASHDOWN WEST - CRAIG JUNCTION 138KV CKT 1	6/1/2013	6/1/2013		
	CARTHAGE (CRG X1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	CARTHAGE (CRG X2) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA #1	6/1/2010	6/1/2010		
	Multi - Stateline - Joplin - Reinmiller conversion	6/1/2016	6/1/2016		

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1283676	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1278809	CALICO ROCK - NORFORK 161KV CKT 1	12/1/2010	12/1/2010		
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA #2	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
1283676	HUBEN 345/161KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ 315,388	\$ 6,500,000
Total						\$ 315,388	\$ 6,500,000

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

Customer Study Number
 KCPS AG2-2007-109

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	1286498	KCPL	EES	82	1/1/2009	6/1/2010	7/1/2009	12/1/2010	\$ -	\$ 1,254,600	\$ -	\$ -
									\$ -	\$ 1,254,600	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1286498	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1286498	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

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

Customer Study Number
KEPC AG2-2007-028

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KEPC	1281648	WR	EDE	6	1/1/2008	1/1/2019	6/1/2011	6/1/2022	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1281648	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
					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
1281648	BISMARCK JUNCTION SWITCHING STATION - FARMERS CONSUMER CO-OP 115KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	PLATTE CITY - SMITHVILLE 161KV CKT 1	12/1/2010	12/1/2010		
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	7/1/2009	11/1/2010	10/1/2010	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1281648	Multi - Stateline - Joplin - Reinmiller conversion	6/1/2016	6/1/2016		
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	7/1/2009	6/1/2011		Yes
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1281648	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	REDEL - STILWELL 161KV CKT 1	7/1/2009	6/1/2011	10/1/2010	

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1281648	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1281648	HUBEN 345/161KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ 505,814	\$ 6,500,000
						Total	\$ 505,814 \$ 6,500,000

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

Customer Study Number
KPP AG2-2007-072

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KPP	1285893	WR	WR	8	11/1/2007	11/1/2017	10/1/2011	10/1/2021	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285893	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
1285893	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2013	6/1/2013		
	CHISHOLM - RIPLEY 69KV CKT 1	7/1/2009	6/1/2012	10/1/2011	Yes
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	7/1/2009	6/1/2012	10/1/2011	Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	7/1/2009	6/1/2012	10/1/2011	Yes
	East Manhattan to McDowell 230 kv	7/1/2009	6/1/2011	10/1/2010	Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	Summit - NE Saline 115 kv	7/1/2009	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
1285893	AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2018	6/1/2018		
	AQUARIUS - LITCHFIELD 69KV CKT 1	6/1/2018	6/1/2018		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	7/1/2009	6/1/2011		Yes
	HUDSON JUNCTION - PITTSBURG 69KV CKT 1	6/1/2018	6/1/2018		
	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2013	6/1/2013		
	SEVENTEENTH () 138/69/11.295KV TRANSFORMER CKT 2	7/1/2009	6/1/2012	10/1/2010	Yes
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011	10/1/2010	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
1285893	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 Displacement	6/1/2010	6/1/2010		
	ROSE HILL (ROSEHLX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	7/1/2009	6/1/2011		Yes

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1285893	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 AG2-2007-012

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1268955	WR	WR	5	6/1/2008	6/1/2013	6/1/2013	6/1/2018	\$ -	\$ 472,500	\$ -	\$ -
									\$ -	\$ 472,500	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1268955	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
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
1268955	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	Knob Hill - Steele City 115 kV	7/1/2009	6/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	7/1/2009	11/1/2010	10/1/2010	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1268955	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2015	6/1/2015		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1268955	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	REDEL - STILWELL 161KV CKT 1	7/1/2009	6/1/2011	10/1/2010	

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1268955	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
1268955	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	7/1/2009	6/1/2013		No	\$ 24,605,339	\$ 240,000,000
Total						\$ 24,605,339	\$ 240,000,000

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

Customer Study Number
MIDW AG2-2007-013

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1268959	WR	WR	1	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 94,500	\$ -	\$ -
									\$ -	\$ 94,500	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1268959	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
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
1268959	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	Knob Hill - Steele City 115 kV	7/1/2009	6/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1268959	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2015	6/1/2015		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1268959	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1268959	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 AG2-2007-014

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1268965	WR	WR	1	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 94,500	\$ -	\$ -
									\$ -	\$ 94,500	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1268965	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
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
1268965	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	Knob Hill - Steele City 115 kV	7/1/2009	6/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1268965	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2015	6/1/2015		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1268965	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1268965	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 AG2-2007-034

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
MIDW	1281706	WR	WR	25	3/1/2008	3/1/2027	6/1/2013	6/1/2032	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1281706	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
1281706	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2013	6/1/2013		
	CHISHOLM - RIPLEY 69KV CKT 1	7/1/2009	6/1/2012	10/1/2011	Yes
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	7/1/2009	6/1/2012	10/1/2011	Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	7/1/2009	6/1/2012	10/1/2011	Yes
	East Manhattan to McDowell 230 kv	7/1/2009	6/1/2011	10/1/2010	Yes
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	6/1/2018	6/1/2018		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	6/1/2018	6/1/2018		
	HUNTSVILLE - ST. JOHN 115KV 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
1281706	AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2018	6/1/2018		
	AQUARIUS - LITCHFIELD 69KV CKT 1	6/1/2018	6/1/2018		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	7/1/2009	6/1/2011		Yes
	HUDSON JUNCTION - PITTSBURG 69KV CKT 1	6/1/2018	6/1/2018		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2013	6/1/2013		
	LYONS - WHEATLAND 115KV CKT 1 MIDW	6/1/2018	6/1/2018		
	LYONS - WHEATLAND 115KV CKT 1 WERE	6/1/2018	6/1/2018		
	SEVENTEENTH () 138/69/11.295KV TRANSFORMER CKT 2	7/1/2009	6/1/2012	10/1/2010	Yes
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011	10/1/2010	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
1281706	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	Yes
	ROSE HILL (ROSEHLX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	7/1/2009	6/1/2011		Yes

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1281706	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLERGREN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	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
1281706	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	7/1/2009	6/1/2013		No	\$ 195,710,595	\$ 240,000,000
Total						\$ 195,710,595	\$ 240,000,000

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

Customer Study Number
MIDW AG2-2007-069

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	1285864	WR	WR	4	6/1/2008	6/1/2013	6/1/2013	6/1/2018	\$ -	\$ 378,000	\$ -	\$ -
MIDW	1285865	WR	WR	3	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 283,500	\$ -	\$ -
MIDW	1285866	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 189,000	\$ -	\$ -
MIDW	1285867	WR	WR	1	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 94,500	\$ -	\$ -
									\$ -	\$ 945,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285864	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
						Total	\$ -	\$ -
1285865	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
						Total	\$ -	\$ -
1285866	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
						Total	\$ -	\$ -
1285867	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
						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
1285864	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	Knob Hill - Steele City 115 kv	7/1/2009	6/1/2010	10/1/2009	
1285865	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	South Harper 161 kv cut-in to Stilwell-Archie JCT 161 kv line	7/1/2009	11/1/2010	10/1/2010	
	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
1285866	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	Knob Hill - Steele City 115 kv	7/1/2009	6/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	South Harper 161 kv cut-in to Stilwell-Archie JCT 161 kv line	7/1/2009	11/1/2010	10/1/2010	
	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
1285867	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	Knob Hill - Steele City 115 kv	7/1/2009	6/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
1285867	South Harper 161 kv cut-in to Stilwell-Archie JCT 161 kv line	7/1/2009	11/1/2010	10/1/2010	

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

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1285864	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2015	6/1/2015		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1285865	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2015	6/1/2015		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1285866	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2015	6/1/2015		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1285867	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2015	6/1/2015		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1285864	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	REDEL - STILWELL 161KV CKT 1	7/1/2009	6/1/2011	10/1/2010	
1285865	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	REDEL - STILWELL 161KV CKT 1	7/1/2009	6/1/2011	10/1/2010	
1285866	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	REDEL - STILWELL 161KV CKT 1	7/1/2009	6/1/2011	10/1/2010	
1285867	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	REDEL - STILWELL 161KV CKT 1	7/1/2009	6/1/2011	10/1/2010	

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1285864	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLERGREIN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	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		
1285865	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLERGREIN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
1285866	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		
	MULLERGREIN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
1285867	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLERGREIN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1285864	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	7/1/2009	6/1/2013		No	\$ 19,684,066	\$ 240,000,000
Total						\$ 19,684,066	\$ 240,000,000

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

Customer Study Number
MIDW AG2-2007-070

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1285869	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 189,000	\$ -	\$ -
									\$ -	\$ 189,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285869	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
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
1285869	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	Knob Hill - Steele City 115 kV	7/1/2009	6/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1285869	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2015	6/1/2015		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1285869	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1285869	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLERGRENN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	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 AG2-2007-071

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1285872	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 189,000	\$ -	\$ -
MIDW	1285873	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 189,000	\$ -	\$ -
									\$ -	\$ 378,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285872	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -
1285873	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
					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
1285872	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	Knob Hill - Steele City 115 kV	7/1/2009	6/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
1285873	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	Knob Hill - Steele City 115 kV	7/1/2009	6/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1285872	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2015	6/1/2015		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1285873	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2015	6/1/2015		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1285872	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
1285873	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1285872	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLEREGREN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	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		
1285873	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLEREGREN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	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 AG2-2007-078

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	1285946	WR	WR	3	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 283,500	\$ 250,000	\$ 318,517
MIDW	1285947	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 189,000	\$ 166,667	\$ 212,345
MIDW	1285948	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 94,500	\$ 83,333	\$ 106,172
									\$ -	\$ 567,000	\$ 500,000	\$ 637,035

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285946	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
	PAWNEE TO LARNED 115 KV	6/1/2009	6/1/2010		Yes	\$ 250,000	\$ 500,000	\$ 318,517
						\$ 250,000	\$ 500,000	\$ 318,517
1285947	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
	PAWNEE TO LARNED 115 KV	6/1/2009	6/1/2010		Yes	\$ 166,667	\$ 500,000	\$ 212,345
						\$ 166,667	\$ 500,000	\$ 212,345
1285948	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
	PAWNEE TO LARNED 115 KV	6/1/2009	6/1/2010		Yes	\$ 83,333	\$ 500,000	\$ 106,172
						\$ 83,333	\$ 500,000	\$ 106,172
					Total	\$ 83,333	\$ 500,000	\$ 106,172

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
1285946	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	Summit - NE Saine 115 kv	7/1/2009	12/1/2009		Yes
1285947	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	Summit - NE Saine 115 kv	7/1/2009	12/1/2009		Yes
1285948	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	Summit - NE Saine 115 kv	7/1/2009	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
1285946	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1285947	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1285948	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1285946	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	7/1/2009	6/1/2011		Yes
1285947	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	7/1/2009	6/1/2011		Yes
1285948	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	7/1/2009	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.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1285946	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLERGREY - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	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		
1285947	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLERGREY - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
1285948	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		
	MULLERGREY - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	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 AG2-2007-079

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1285949	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 189,000	\$ -	\$ -
MIDW	1285950	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 94,500	\$ -	\$ -
									\$ -	\$ 283,500	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285949	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
	Total					\$ -	\$ -	\$ -
1285950	JEWELL 3 - SMITH CENTER 115KV CKT 1	7/1/2009	10/1/2009			\$ -	\$ -	\$ -
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	7/1/2009	12/1/2009		Yes	\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
	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
1285949	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	Summit - NE Saline 115 kv	7/1/2009	12/1/2009		Yes
1285950	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	6/1/2010	12/1/2010	10/1/2010	
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	6/1/2010	12/1/2011	10/1/2010	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2010	6/1/2009	
	KELLY - SOUTH SENECA 115KV CKT 1	7/1/2009	12/1/2010	10/1/2009	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	Summit - NE Saline 115 kv	7/1/2009	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
1285949	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1285950	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1285949	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	7/1/2009	6/1/2011		Yes
1285950	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	7/1/2009	6/1/2011		Yes

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1285949	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLERGREIN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	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		
1285950	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MULLERGREIN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	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
 SPRM AG2-2007-110

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPRM	1286502	WR	SPA	25	12/1/2008	12/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1286502	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
1286502	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2013	6/1/2013		
	SPRINGFIELD (SPF X1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2016		
	Summit - NE Saline 115 kV	7/1/2009	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
1286502	BROOKLINE - JUNCTION 161KV CKT 1	6/1/2017	6/1/2017		
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	7/1/2009	6/1/2011		Yes

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1286502	MULLERGREY - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	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
1286502	HUBEN 345/161KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ 5,678,798	\$ 6,500,000
Total						\$ 5,678,798	\$ 6,500,000

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

Customer Study Number
WFEC AG2-2007-016

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	1278401	WFEC	WFEC	19	12/15/2007	12/15/2032	6/1/2011	6/1/2036	\$ 342,000	\$ -	\$ 3,402,436	\$ 9,676,402
									\$ 342,000	\$ -	\$ 3,402,436	\$ 9,676,402

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1278401	BUFFALO - WEST 69KV CKT 1	7/1/2009	6/1/2011			\$ 131,670	\$ 150,000	\$ 374,465
	FARGO JCT - FT SUPPLY 69KV CKT 1	7/1/2009	6/1/2011			\$ 3,211,036	\$ 5,350,000	\$ 9,132,067
	FARGO JCT - WOODWARD 69KV CKT 1	7/1/2009	6/1/2011			\$ 59,730	\$ 100,000	\$ 169,870
Total						\$ 3,402,436	\$ 5,600,000	\$ 9,676,402

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
1278401	IODINE - MOORELAND 138KV CKT 1	7/1/2009	6/1/2010		
	MOORELAND - MOREWOOD SW 138KV CKT 1	7/1/2009	6/1/2010		
	Multi-Dover-Twin Lake Cresnet 138 kV	6/1/2014	6/1/2014		
	Norman Area Voltage Conversion	6/1/2010	6/1/2010		

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1278401	FT SUPPLY 138/69KV TRANSFORMER CKT 1	12/1/2006	6/1/2008		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

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

Customer Study Number
 WRGS AG2-2007-011D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1268638	KCPL	AMRN	20	6/1/2010	6/1/2015			\$ -	\$ 1,080,000	\$ -	\$ -
									\$ -	\$ 1,080,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1268638	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1268638	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	MULLERGREY - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer Study Number
WRGS AG2-2007-017D

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
WRGS	1278809	EES	SPA	20	3/1/2010	3/1/2040	10/1/2010	10/1/2040	\$ -	\$ 6,480,000	\$ -	\$ -
									\$ -	\$ 6,480,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1278809	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
1278809	ASHERVILLE - IDALIA 161KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	ASHERVILLE - POPLAR BLUFF 161KV CKT 1	6/1/2011	6/1/2011		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1278809	CALICO ROCK - NORFORK 161KV CKT 1	12/1/2010	12/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1278809	NEW MADRID - NEW MADRID 161KV CKT 1	6/1/2017	6/1/2017			\$ 61,229	\$ 600,000
Total						\$ 61,229	\$ 600,000

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

Customer Study Number
 WRGS AG2-2007-018D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1278811	EES	SPA	20	3/1/2010	3/1/2040			\$ -	\$ 6,480,000	\$ -	\$ -
									\$ -	\$ 6,480,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1278811	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 Start Date	Redispatch Available
1278811	HERGETT - JONESBORO 161KV CKT 1	6/1/2013	6/1/2013		
	MALDEN - NEW MADRID 69KV CKT 1	6/1/2013	6/1/2013		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1278811	MALDEN - PIGGOTT 69KV CKT 1	6/1/2016	6/1/2016			\$ 2,000,000	\$ 2,000,000
	NEW MADRID - NEW MADRID 161KV CKT 1	6/1/2017	6/1/2017			\$ 316,193	\$ 600,000
	NEW MADRID (NMA X1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2018	6/1/2018			\$ 342,769	\$ 1,500,000
	NEW MADRID (NMA X2) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ 342,753	\$ 1,500,000
Total						\$ 3,001,715	\$ 5,600,000

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

Customer Study Number
 WRGS AG2-2007-019D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1278813	EES	SPA	7	3/1/2010	3/1/2040			\$ -	\$ 2,268,000	\$ -	\$ -
									\$ -	\$ 2,268,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1278813	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 Start Date	Redispatch Available
1278813	HERGETT - JONESBORO 161KV CKT 1	6/1/2013	6/1/2013		
	MALDEN - NEW MADRID 69KV CKT 1	6/1/2013	6/1/2013		

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1278813	NEW MADRID - NEW MADRID 161KV CKT 1	6/1/2017	6/1/2017			\$ 222,578	\$ 600,000
	NEW MADRID (NMA X1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2018	6/1/2018			\$ 1,157,231	\$ 1,500,000
	NEW MADRID (NMA X2) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ 1,157,247	\$ 1,500,000
Total						\$ 2,537,056	\$ 3,600,000

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

Customer Study Number
 WRGS AG2-2007-092D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1286201	SECI	WR	99	3/1/2009	3/1/2019	10/1/2011	10/1/2021	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1286201	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
1286201	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2013	6/1/2013		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	7/1/2009	6/1/2012	10/1/2011	
	EAST MANHATTAN - NW MANHATTAN 230/115KV	7/1/2009	6/1/2012	10/1/2011	
	East Manhattan to Mcdowell 230 kv	7/1/2009	6/1/2011	10/1/2010	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1286201	AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2018	6/1/2018		
	AQUARIUS - LITCHFIELD 69KV CKT 1	6/1/2018	6/1/2018		
	BPUJ - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	7/1/2009	6/1/2011		
	GILL ENERGY CENTER WEST - WACO 138KV CKT 1	6/1/2010	6/1/2012	10/1/2011	
	HUDSON JUNCTION - PITTSBURG 69KV CKT 1	6/1/2018	6/1/2018		
	KINSLEY 115KV Capacitor	6/1/2011	6/1/2011		
	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2013	6/1/2013		
	SEVENTEENTH (I) 138/69/11.295KV TRANSFORMER CKT 2	7/1/2009	6/1/2012	10/1/2010	
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011	10/1/2010	

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

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1286201	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 Displacement	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011	10/1/2010	
	ROSE HILL (ROSEHLX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	7/1/2009	6/1/2011		

Credits may be required for the following network upgrades.

Reservation	Upgrade Name	DUN	EOC	Earliest Service Date	Redispatch Available
1286201	MULLERGRENN - SPEARVILLE 230KV CKT 1	12/31/2009	12/31/2009		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
MIDW	PAWNEE TO LARNED 115 KV	Build 2 mile 115 kV line from MIDW Pawnee 115 kV to Larned	6/1/2009	6/1/2010	\$ 500,000
MKEC	JEWELL 3 - SMITH CENTER 115KV CKT 1	Interim Redispach from 7/1/09-10/1/09	7/1/2009	10/1/2009	\$ -
MKEC	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	Interim Redispach from 7/1/09-12/1/09	7/1/2009	12/1/2009	\$ -
WFEC	BUFFALO - WEST 69KV CKT 1	Upgrade terminal equipment at Buffalo to 600A	7/1/2009	6/1/2011	\$ 150,000
WFEC	FARGO JCT - FT SUPPLY 69KV CKT 1	upgrade line between Ft supply Switchyard and Woodward Switchyard (through Fargo Jct) to 795ACSR	7/1/2009	6/1/2011	\$ 5,350,000
WFEC	FARGO JCT - WOODWARD 69KV CKT 1	upgrade the terminal equipment at Woodward to 1200A	7/1/2009	6/1/2011	\$ 100,000

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	Rebuild 8.37 miles of 795 ACSR with 1590 ACSR & reset relays @ BSE	7/1/2009	6/1/2011
AEPW	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	Tie Line, Reconductor 1.09 miles of 795 ACSR with 1590 ACSR.	7/1/2009	6/1/2010
AEPW	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	Rebuild 13.11 miles of 795 ACSR with 1590 ACSR.	7/1/2009	6/1/2011
KACP	REDEL - STILWELL 161KV CKT 1	Reconductor line with 1192 ACSS and upgrade terminal equipment for 2000 amps	7/1/2009	6/1/2011
SWPA	CALICO ROCK - NORFORK 161KV CKT 1	Replace buswork within bay and change metering CT ratio, replace wavetraps.	12/1/2010	12/1/2010
SWPA	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA #2	Replace the bus within the bay for the Russellville line.	6/1/2010	6/1/2010
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	Tie Line, Rebuild 3.93 miles of 795 ACSR with 1590 ACSR.	7/1/2009	6/1/2010
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	Replace Terminal Equipment.	6/1/2010	6/1/2010
WERE	EVANS ENERGY CENTER SOUTH - LAKERIDGE 138KV CKT 1 Displacement	Replace Disconnect Switches, Wavetraps, Breaker, Jumpers	6/1/2010	6/1/2010
WERE	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	Replace bus and Jumpers at NE Parsons 138 kV substation	6/1/2010	6/1/2011
WERE	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	Add third 345-138 kV transformer at Rose Hill	7/1/2009	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	DIANA - LONE STAR SOUTH 138KV CKT 1	Replace switches and reset CT	12/1/2009	6/1/2010
MIDW	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 MIDW	Tear down and rebuild 73.4% Ownership 28.79 mile HEC-Huntsville 115 kV line and replace CT, wavetraps and relays.	6/1/2018	6/1/2018
MIDW	HUNTSVILLE - ST_JOHN 115KV CKT 1	Rebuild 26.5 miles Huntsville - St. John 115 kV line and replace CT, wavetraps, breakers, and relays.	6/1/2018	6/1/2018
MIPU	PLATTE CITY - SMITHVILLE 161KV CKT 1	Replace wavetraps between Platte City and Smithville.	12/1/2010	12/1/2010
MIPU	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	To tap Stilwell-Archie JCT 161 kV line into South Harper 161 kV sub and make it two new 161 kV sections: Stilwell-South Harper and Archie JCT- South Harper .	7/1/2009	11/1/2010
SWPA	ASHERVILLE - IDALIA 161KV CKT 1	Reconductor line	6/1/2010	6/1/2011
SWPA	ASHERVILLE - POPLAR BLUFF 161KV CKT 1	Replace disconnect switches, replace some structures and resag line	6/1/2011	6/1/2011
SWPA	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	Replace buswork in Bull Shoals switchyard	6/1/2010	6/1/2011
SWPA	MALDEN - NEW MADRID 69KV CKT 1	Reconductor line, replace disconnect switches	6/1/2013	6/1/2013
SWPA	SPRINGFIELD (SPF X1) 161/69/13.8KV TRANSFORMER CKT 1	Replace Springfield x1mr #1 three winding transformer with 70 MVA auto transformer.	6/1/2016	6/1/2016
WERE	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	Tear down and rebuild 2.72 mile Tecumseh Hill-27th & Croco 115 kV line as a single circuit.	6/1/2010	12/1/2010
WERE	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV CKT 1	Tear down and rebuild 3.43 mile 27th & Croco-41ST & CALIFORNIA 115 kV line as a single circuit.	6/1/2010	12/1/2011
WERE	AUBURN ROAD (AUBRN7X) 230/115/13.8KV TRANSFORMER CKT 2	Add second Auburn 230-115 kV transformer.	6/1/2013	6/1/2013
WERE	BISMARCK JUNCTION SWITCHING STATION - FARMERS CONSUMER CO-OP 115KV CKT 1	Rebuild 2.9 mi 115 kV line Bismark to COOP	6/1/2010	6/1/2011
WERE	CHISHOLM - RIPLEY 69KV CKT 1	Tear down and rebuild 2.40 miles using single 1192.5 ACSR operated at 69 kV.	7/1/2009	6/1/2012
WERE	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	Rebuild Circle - HEC GT 115 kV line.	6/1/2010	6/1/2010
WERE	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	Uprate JEC- E.Manhattan 230 kV line to 100 deg C operation by raising structures	7/1/2009	6/1/2012
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	7/1/2009	6/1/2012
WERE	East Manhattan to Mcdowell 230 kV	The East Manhattan-Mcdowell 115 kV is built as a 230 kV line, but is operated at 115 kV. Substation work will have to be performed in order to convert this line.	7/1/2009	6/1/2011
WERE	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1 WERE	Tear down and rebuild 26.6% Ownership 28.79 mile HEC-Huntsville 115 kV line and replace CT, wavetraps and relays.	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.	7/1/2009	12/1/2010
WERE	Knob Hill - Steele City 115 kV	New 115 kV Line from Knob Hill to Kansas/Nebraska state line.	7/1/2009	6/1/2010
WERE	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	Rebuild 5.49 miles	7/1/2009	6/1/2012
WERE	Summit - NE Saline 115 kV	Build 6.5-mile Summit-Southgate 115 kV, 1192.5 kcmil ACSR	7/1/2009	12/1/2009
WFEC	BUFFALO - FT SUPPLY 69KV CKT 1	Tear down Northview-South Gate 115 kV	6/1/2010	6/1/2011
WFEC	IODINE - MOORELAND 138KV CKT 1	Upgrade CTs at Buffalo Southwest (Fort Supply Branch)	7/1/2009	6/1/2010
WFEC	MOORELAND - MOREWOOD SW 138KV CKT 1	Upgrade CTs at Mooreland (Iodine Branch) to 1200A.	7/1/2009	6/1/2010
WFEC	Multi-Dover-Twin Lake_Cresent 138 kV	Convert 69 kV to 138 kV and install terminal equipment at Dover SW; Instal 7 miles of new 138 kV fro WFEC Twin Lakes to OGE Cresent substation	6/1/2014	6/1/2014
WFEC	Norman Area Voltage Conversion	Convert Canadian - OU - Cole - Criner to 138 KV and Canadian-Goldsby-OU-W Norman-Acme-Franklin	6/1/2010	6/1/2010

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

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	ASHDOWN WEST - CRAIG JUNCTION 138KV CKT 1	Rebuild 2.45 miles of 795 ACSR with 1590 ACSR and reset relays	6/1/2013	6/1/2013
AEPW	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	Rebuild 5.82 miles with 1272 ACSR. Replace TPS wavetraps & jumpers. Reset TPS CTs	6/1/2010	6/1/2011
AEPW	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	Rebuild 2.06 miles of 2-397 ACSR with 2156 ACSR. Replace breaker, wavetraps, switches, & jumpers @ AEP Siloam Springs.	7/1/2009	6/1/2011
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 between	6/1/2016	6/1/2016
MIDW	KINSLEY 115KV Capacitor	Install 10MVAR capacitors at Kinsley 115 kV	6/1/2011	6/1/2011
MIDW	LYONS - WHEATLAND 115KV CKT 1 MIDW	Rebuild 98.5% ownership of 19.4 miles	6/1/2018	6/1/2018
OKGE	3RDST - ARKOMA 161KV CKT 1	Replace 8-1200A switches & 2-wave traps.	6/1/2017	6/1/2017
SPRM	BROOKLINE - JUNCTION 161KV CKT 1	Reconductor 1192 AAC with 1158.4 ACSS/TW 3.4 miles	6/1/2017	6/1/2017
SWPA	CARTHAGE (CRG X1) 161/69/13.8KV TRANSFORMER CKT 1	Replace transformer 1 with larger unit -125 MVA	6/1/2013	6/1/2013
SWPA	CARTHAGE (CRG X2) 161/69/13.8KV TRANSFORMER CKT 1	Replace transformer 2 with larger unit -125 MVA	6/1/2013	6/1/2013
SWPA	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA #1	Replace wave trap, disconnect switches, current transformers, and breaker.	6/1/2010	6/1/2010
SWPA	HERGETT - JONESBORO 161KV CKT 1	Increase the CT ratio to 1200/5. This would involve changing taps on the CT, adjusting the scaling on a panel meter, and changing relay settings.	6/1/2013	6/1/2013
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	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV CKT 1	Rebuild Line	7/1/2009	6/1/2011
WERE	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	Rebuild 5.56-mile line, 954 ACSR	6/1/2015	6/1/2015
WERE	GILL ENERGY CENTER WEST - WACO 138KV CKT 1	Tear down and rebuild Gill - Waco with bundled 1192.5 ACSR conductor	6/1/2010	6/1/2012
WERE	HUDSON JUNCTION - PITTSBURG 69KV CKT 1	Rebuild 1.41 miles	6/1/2018	6/1/2018
WERE	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1	Replace 69 kV disconnect switches at Aquarius.	6/1/2013	6/1/2013
WERE	LYONS - WHEATLAND 115KV CKT 1 WERE	Rebuild 1.5% ownership of 19.4 miles	6/1/2018	6/1/2018
WERE	SEVENTEENTH (I) 138/69/11.295KV TRANSFORMER CKT 2	Install second 17th St. 138-69 kV transformer	7/1/2009	6/1/2012
WERE	STRANGER CREEK - NW LEAVENWORTH 115KV	Rebuild 11.62-mile Jarbalo-NW Leavenworth 115 kV line and tap in & out of Stranger 115 kV	6/1/2010	6/1/2011
WERE	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	Upgrade 0.24 mile TEC-Tecumseh Hill 115 kV line to 100 degree operation.	6/1/2013	6/1/2013

Previously Assigned Aggregate Study Upgrades requiring credits for Network Upgrades.

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	BANN - RED SPRINGS REC 138KV CKT 1	Replace 138 kV breakers 3300 & 3310	7/1/2012	7/1/2012
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Valliant 345 kV line terminal	7/1/2012	7/1/2012
EMDE	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	Reconductor Oronogo 59467 to Riverton 59469 with Bundled 556 ACSR	6/1/2011	6/1/2011
KACP	LACYGNE - WEST GARDNER 345KV CKT 1	KCPL Sponsored Project to Reconductor Line to be In-Service by 6/1/2006	6/1/2006	6/1/2006
OKGE	KNOBHILL (KNOBHILL4) 138/69/13.2KV TRANSFORMER CKT 1	Replace bus tie with 100MVA transformer	6/1/2006	6/1/2006
OKGE	NORTHWEST - WOODWARD 345KV CKT 1	Build 120 miles of 345 kV	1/1/2010	1/1/2010
OKGE	WOODWARD - WOODWARD EHV 138KV CKT 1	Build .5 miles of 138 kV and install terminal equipment	1/1/2010	1/1/2010
OKGE	WOODWARD - WOODWARD EHV 138KV CKT 2	Build .5 miles of 138 kV and install terminal equipment	1/1/2010	1/1/2010
OKGE	WOODWARD 345/138KV TRANSFORMER CKT 1	Install 345/138 kV XF	1/1/2010	1/1/2010
WERE	RENO 345/115KV CKT 1	New stepdown transformer at a new substation in Reno County east northeast of Hutchinson	6/1/2009	6/1/2009
WERE	RENO 345/115KV CKT 2	Install 2nd stepdown transformer at Reno County substation east northeast of Hutchinson	6/1/2010	6/1/2010
WERE	SUMMIT - RENO 345KV	Install new 50.55-mile 345 kV line from Reno county to Summit; 31 miles of 115 kV line between Circle and S Philips would be rebuilt as double circuit with the 345 kV line to minimize ROW impacts; Substation work required at Summit for new 345 kV terminal	6/1/2010	6/1/2010
WERE	WICHITA - RENO 345KV	40 mile 345 kV transmission line from existing Wichita 345 kV substation to a new 345-115 kV substation in Reno County east northeast of Hutchinson (Wichita to Reno)	6/1/2009	6/1/2009
WFEC	FT SUPPLY 138/69KV TRANSFORMER CKT 1	Install 2nd 70 MVA auto at Ft Supply	12/1/2006	6/1/2008
WFEC	HUGO POWER PLANT - VALLIANT 345 KV WFEC	New 19 miles 345 KV	7/1/2012	7/1/2012
WFEC	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	New 345/138 kv Auto	7/1/2012	7/1/2012

Table 5 - Third Party Facility Constraints

Transmission Owner	UpgradeName	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AECI	HUBEN 345/161KV TRANSFORMER CKT 1	Install a second Huben 345/161kV transforme	6/1/2017	6/1/2017	\$ 6,500,000
AECI	NEW MADRID - NEW MADRID 161KV CKT 1	5.4 mile line designed for 75-C. Uprate to 100-C	6/1/2017	6/1/2017	\$ 600,000
NPPD	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	Build a new 345kV line from Spearville - Knoll - Axte	7/1/2009	6/1/2013	\$ 240,000,000
SWPA	MALDEN - PIGGOTT 69KV CKT 1	Reconductor line, replace disconnect switche	6/1/2016	6/1/2016	\$ 2,000,000
SWPA	NEW MADRID (NMA X1) 161/69/13.8KV TRANSFORMER CKT 1	Replace transformer	6/1/2018	6/1/2018	\$ 1,500,000
SWPA	NEW MADRID (NMA X2) 161/69/13.8KV TRANSFORMER CKT 1	Replace transformer	6/1/2017	6/1/2017	\$ 1,500,000