



*Aggregate Facility Study
SPP-2007-AG2-AFS-5
For Transmission Service
Requested by
Aggregate Transmission Customers*

SPP Engineering, SPP Tariff Studies

SPP AGGREGATE FACILITY STUDY (SPP-2007-AG2-AFS-5)

June 5, 2008

Page 1 of 55

Table of Contents

- 1. Executive Summary 3
- 2. Introduction..... 4
 - A. Financial Analysis..... 7
 - B. Third Party Facilities..... 9
- 3. Study Methodology..... 10
 - A. Description..... 10
 - B. Model Development..... 11
 - C. Transmission Request Modeling..... 12
 - D. Transfer Analysis..... 13
 - E. Curtailment and Redispatch Evaluation..... 13
- 4. Study Results 14
 - A. Study Analysis Results 14
 - B. Study Definitions 17
- 5. Conclusion 18
- 6. Appendix A..... 19

1. Executive Summary

Pursuant to Attachment Z of the Southwest Power Pool Open Access Transmission Tariff (OATT), 797 MW of long-term transmission service requests have been restudied in this Aggregate Facility Study (AFS). The first phase of the AFS consisted of a revision of the impact study to reflect the withdrawal of requests for which an Aggregate Facility Study Agreement was not executed. The principal objective of the AFS is to identify system problems and potential modifications necessary to facilitate these transfers while maintaining or improving system reliability as well as summarizing the operating limits and determination of the financial characteristics associated with facility upgrades. Facility upgrade costs are allocated on a prorated basis to all requests positively impacting any individual overloaded facility. Further, Attachment Z provides for facility upgrade cost recovery by stating that “[a]ny charges paid by a customer in excess of the transmission access charges in compensation for the revenue requirements for allocated facility upgrade(s) shall be recovered by such customer from future transmission service revenues until the customer has been fully compensated.”

The total assigned facility upgrade Engineering and Construction (E &C) cost determined by the AFS is \$47 Million. Additionally an indeterminate amount of assigned E & C cost for 3rd party facility upgrades are assignable to the customer. The total upgrade levelized revenue requirement for all transmission requests is \$67 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 \$57 Million.

Third-party facilities must be upgraded when it is determined they are constrained in order to accommodate the requested Transmission Service. These include both first-tier neighboring

facilities outside SPP and Transmission Owner facilities within SPP that are not under the SPP OATT. In this AFS, third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are indeterminate.

The Transmission Provider will tender a Letter of Intent on June 5, 2008. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by June 20, 2008, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

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

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

2. Introduction

On January 21, 2005, the Federal Energy Regulatory Commission accepted Southwest Power Pool's proposed aggregate transmission study procedures in Docket ER05-109 to become effective February 1, 2005. In compliance with this Order, the second open season of 2007 commenced on June 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 third Aggregate Transmission Service Study (ATSS) of 2006.

Approximately 797 MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$47 Million in transmission upgrades being proposed. The results of the AFS are detailed in Tables 1 through 7. A highly tangible benefit of studying transmission requests aggregately under the SPP OATT Attachment Z is the sharing of costs among customers using the same facility. The detailed results show individual upgrade costs by study as well as potential base plan allowances as determined by Attachments J and Z. The following URL can be used to access the SPP OATT:

http://www.spp.org/Publications/SPP_Tariff.pdf). In order to understand the extent to which base plan upgrades may be applied to both point-to-point and network transmission services, it is necessary to highlight the definition of Designated Resource. Per Section 1.9a of the SPP OATT, a Designated Resource is “[a]ny designated generation resource owned, purchased or leased by a Transmission Customer to serve load in the SPP Region. Designated Resources do not include any resource, or any portion thereof, that is committed for sale to third parties or otherwise cannot be called upon to meet the Transmission Customer's load on a non-interruptible basis.” Therefore, not only network service, but also point-to-point service has potential for base plan funding if the conditions for classifying upgrades associated with designated resources as base plan upgrades as defined in Section III.B of Attachment J are met.

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

1. Transmission Customer’s commitment to the requested new or changed Designated Resource must have a duration of at least five years.
2. During the first year the Designated Resource is planned to be used by the Transmission Customer, the accredited capacity of the Transmission Customer’s existing Designated Resources plus the lesser of (a) the planned maximum net

dependable capacity applicable to the Transmission Customer or (b) the requested capacity; shall not exceed 125% of the Transmission Customer's projected system peak responsibility determined pursuant to SPP Criteria 2.

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

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

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

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

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

limited by transmission owner planned projects, expansion plan projects, or customer assigned upgrades.

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

A. Financial Analysis

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

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

facilities, and the carrying charges, excluding depreciation, associated with all removed usable facilities based on their respective book values.

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

Achievable Base Plan Avoided Revenue Requirements in the case of a Base Plan upgrade being displaced or deferred by an earlier in service date for a Requested Upgrade shall be determined per Attachment J, Section VII.B methodology. A deferred Base Plan upgrade being defined as a different requested network upgrade needed at an earlier date that negates the need for the initial base plan upgrade within the planning horizon. A displaced Base Plan upgrade being defined as the same network upgrade being displaced by a requested upgrade needed at an earlier date. Assumption of a 40 year service life is utilized for Base Plan funded projects unless provided otherwise by the Transmission Owner. A present worth analysis of revenue requirements on a common year basis between the Base Plan and Requested Upgrades was performed to determine avoided Base Plan revenue requirements due to the displacement or deferral of the Base Plan upgrade by the Requested Upgrade. The difference in present worth between the Base Plan and

Requested Upgrades is assigned to the transmission requests impacting this upgrade based on the displacement or deferral.

B. Third Party Facilities

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

All modeled facilities within the Transmission Provider system were monitored during the development of this Study as well as certain facilities in first-tier neighboring systems. Third-party facilities must be upgraded when it is determined that they are overloaded while accommodating the requested Transmission Service. An agreement between the Customer and 3rd Party Owner detailing the mitigation of the 3rd party impact must be provided to the Transmission Provider prior to tendering of a Transmission Service Agreement. These facilities also include those owned by members of the Transmission Provider who have not placed their facilities under the Transmission Provider's OATT. Upgrades on the Southwest Power Administration network requires prepayment of the upgrade cost prior to construction of the upgrade.

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

3. Study Methodology

A. Description

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

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

A 3 % transfer distribution factor (TDF) cutoff was applied to all SPP control area facilities. For first tier Non – SPP control area facilities, a 3 % TDF cutoff was applied to AECl, AMRN, and ENTR and a 2 % TDF cutoff was applied to MEC, NPPD, and OPPD. For voltage monitoring, a

0.02 per unit change in voltage must occur due to the transfer or modeling upgrades to be considered a valid limit to the transfer.

B. Model Development

SPP used eleven seasonal models to study the aggregate transfers of 1712 MW over a variety of requested service periods. The SPP MDWG 2007 Series Cases Update 2 2008 April (08AP), 2008 Spring Peak (08G), 2008 Summer Peak (08SP), 2008 Summer Shoulder (08SH), 2008 Fall Peak (08FA), 2008/09 Winter Peak (08WP), 2009 Summer Peak (09SP), 2009/10 Winter Peak (09WP), 2012 Summer Peak (12SP), 2012/13 Winter Peak (12WP), and 2017 Summer Peak (17SP) were used to study the impact of the requested service on the transmission system. The Spring Peak models apply to April and May, the Summer Peak models apply to June through September, the Fall Peak models apply to October and November, and the Winter Peak models apply to December through March.

The chosen base case models were modified to reflect the most current modeling information. Five groups of requests were developed from the aggregate of 797 MW in order to minimize counter flows among requested service. Each request was included in at least two of the four groups depending on the requested path. All requests were included in group five. From the twelve seasonal models, five system scenarios were developed. Scenario 1 includes SWPP OASIS transmission requests not already included in the SPP 2007 Series Cases flowing in a West to East direction with ERCOTN HVDC Tie South to North, ERCOTE HVDC Tie East to West, SPS exporting, and SPS importing from the Lamar HVDC Tie. Scenario 2 includes transmission requests not already included in the SPP 2007 Series Cases flowing in an East to West direction with ERCOTN HVDC tie North to South, ERCOTE HVDC tie East to West, SPS importing, and SPS exporting to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPP 2007 Series Cases flowing in a South to North direction with ERCOTN HVDC tie South to North, ERCOTE HVDC tie East to West, SPS exporting, and

SPS exporting to the Lamar HVDC Tie. Scenario 4 includes transmission requests not already included in the SPP 2007 Series Cases flowing in a North to South direction with ERCOTN HVDC tie North to South, ERCOTE HVDC tie East to West, SPS importing, and SPS importing from the Lamar HVDC tie. Scenario 5 include all transmission not already included in the SPP 2007 Series Cases with ERCOTN North to South, ERCOTE East to West, SPS importing and SPS exporting to the Lamar HVDC tie. The system scenarios were developed to minimize counter flows from previously confirmed, higher priority requests not included in the MDWG Base Case.

C. Transmission Request Modeling

Network Integration Transmission Service requests are modeled as Generation to Load transfers 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. Table 3 provides additional details for each request including all assigned facility upgrades required, allocated E &

C costs, allocated revenue requirements for upgrades, upgrades not assigned to customer but required for service to be confirmed, credits to be paid for previously assigned AFS facility upgrades, and any third party upgrades required. Table 4 lists all upgrade requirements with associated solutions needed to provide transmission service for the AFS, Minimum ATC per upgrade with season of impact, Earliest Date Upgrade is required (COD), Estimated Date of Upgrade Completion (EOC), and Estimated E & C cost. Table 5 lists identified Third-Party constrained facilities. Table 6 identifies potential redispatch pairs available to relieve the aggregate impacts on identified constraints to prevent deferral of start of service. Table 7 (if applicable) identifies deferred expansion plan projects that were replaced with requested upgrades at earlier dates.

The potential base plan funding allowable is contingent upon meeting each of the conditions for classifying upgrades associated with designated resources as base plan upgrades as defined in Section III.B of Attachment J. If the additional capacity of the new or changed designated resource exceeds the 125% resource to load forecast for the year of start of service, the requested resource is not eligible for base plan funding of required network upgrades and the full cost of the upgrades is assignable to the customer. If the 5 year term and 125% resource to load criteria are met, the lesser of the planned maximum net dependable capacity (NDC) or the requested capacity is multiplied by \$180,000 to determine the potential base plan funding allowable. When calculating Base Plan Funding amounts that include a wind farm, the amount used is 10% of the requested amount of service, or the NDC. The Maximum Potential Base Plan Funding Allowable may be less than the potential base plan funding allowable due to the E & C Cost allocated to the customer being lower than the potential amount allowable to the customer. The customer is responsible for any assigned upgrade costs in excess of Potential Base Plan Engineering and Construction Funding Allowable.

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

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

Example A:

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

Example B:

E & C allocated for upgrades is 74 million with revenue requirements of 140 million and PTP base rate of 101 million. Potential base plan funding is 10 million with the difference of 64 million E & C assignable to the customer. If the revenue requirements for this assignable portion is 128 million and the PTP base rate is 101 million the customer will pay the higher “OR”

pricing of 128 million revenue requirements to be paid back to the Transmission Owners and the remaining revenue requirements of (140-128) or 12 million will be paid by base plan funding.

Example C:

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

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

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

B. Study Definitions

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

Customer is determined by the least amount of allocated seasonal ATC within each year of a reservation period.

5. Conclusion

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

The Transmission Provider will tender a Letter of Intent on June 5, 2008. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by June 20, 2008, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

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

6. Appendix A

PSS/E CHOICES IN RUNNING LOAD FLOW PROGRAM AND ACCC

BASE CASES:

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

Tap adjustment – Stepping

Area interchange control – Tie lines and loads

Var limits – Apply immediately

Solution options - Phase shift adjustment

Flat start

Lock DC taps

Lock switched shunts

ACCC CASES:

Solutions – AC contingency checking (ACCC)

MW mismatch tolerance – 0.5

Contingency case rating – Rate B

Percent of rating – 100

Output code – Summary

Min flow change in overload report – 3mw

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

Exclude interfaces from report – NO

Perform voltage limit check – YES

Elements in available capacity table – 60000

Cutoff threshold for available capacity table – 99999.0

Min. contng. case Vltg chng for report – 0.02

Sorted output – None

Newton Solution:

Tap adjustment – Stepping

Area interchange control – Tie lines and loads

Var limits - Apply automatically

Solution options - Phase shift adjustment

Flat start

Lock DC taps

Lock switched shunts

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

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date without interim redispatch	Deferred Stop Date without interim redispatch	Start Date with interim redispatch	Stop Date with interim redispatch	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period
AEPM	AG2-2007-049	1283585	WFEC	CSWS	15	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2008	8/1/2013	0	08SP
AEPM	AG2-2007-051	1283682	WFEC	CSWS	152	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2008	8/1/2013	0	08SP
AEPM	AG2-2007-107	1286446	CSWS	CSWS	100	1/1/2009	1/1/2010	6/1/2011	6/1/2012	6/1/2010	6/1/2011	0	09SP
CWEP	AG2-2007-047	1283676	EES	SPA	12	6/1/2010	6/1/2040	6/1/2013	6/1/2043	6/1/2013	6/1/2043	0	12SP
KPCS	AG2-2007-109	1286498	KCPL	EES	82	1/1/2009	6/1/2010	6/1/2010	11/1/2011	1/1/2009	6/1/2010	0	09SP
KEPC	AG2-2007-028	1281648	WR	EDE	6	1/1/2008	1/1/2019	12/1/2009	12/1/2020	10/1/2009	10/1/2020	0	08SP
KPP	AG2-2007-072	1285893	WR	WR	8	11/1/2007	11/1/2017	10/1/2010	10/1/2020	8/1/2008	8/1/2018	0	08SP
MIDW	AG2-2007-012	1268955	WR	WR	5	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-013	1268959	WR	WR	1	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-014	1268965	WR	WR	1	6/1/2008	6/1/2013	6/1/2010	6/1/2015	8/1/2008	8/1/2013	0	08SP
MIDW	AG2-2007-034	1281706	WR	WR	25	3/1/2008	3/1/2027	10/1/2010	10/1/2029	8/1/2008	8/1/2027	0	09SP
MIDW	AG2-2007-069	1285864	WR	WR	4	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-069	1285865	WR	WR	3	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-069	1285866	WR	WR	2	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-069	1285867	WR	WR	1	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-070	1285869	WR	WR	2	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-071	1285872	WR	WR	2	6/1/2008	6/1/2013	6/1/2010	6/1/2015	8/1/2008	8/1/2013	0	08SP
MIDW	AG2-2007-071	1285873	WR	WR	2	6/1/2008	6/1/2013	6/1/2010	6/1/2015	8/1/2008	8/1/2013	0	08SP
MIDW	AG2-2007-078	1285946	WR	WR	3	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-078	1285947	WR	WR	2	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-078	1285948	WR	WR	1	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-079	1285949	WR	WR	2	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-079	1285950	WR	WR	1	6/1/2008	6/1/2013	6/1/2010	6/1/2015	10/1/2008	10/1/2013	0	08SP
MIDW	AG2-2007-080	1285951	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	8/1/2008	8/1/2013	0	08SP
MIDW	AG2-2007-080	1285952	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	8/1/2008	8/1/2013	0	08SP
MIDW	AG2-2007-080	1285953	WR	WR	1	6/1/2008	6/1/2013	10/1/2010	10/1/2015	8/1/2008	8/1/2013	0	08SP
SPRM	AG2-2007-110	1286502	WR	SPA	25	12/1/2008	12/1/2028	6/1/2010	6/1/2030	6/1/2010	6/1/2030	0	09SP
SPSM	AG2-2007-067	1280570	SPS	SPS	80	1/1/2009	1/1/2029	6/1/2012	6/1/2032	6/1/2012	6/1/2032	0	09SP
SPSM	AG2-2007-067	1280571	SPS	SPS	70	1/1/2009	1/1/2029	6/1/2012	6/1/2032	6/1/2012	6/1/2032	0	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	0	08SP
WRGS	AG2-2007-011D	1268638	KCPL	AMRN	20	6/1/2010	6/1/2015					0	12SP
WRGS	AG2-2007-017D	1278809	EES	SPA	20	3/1/2010	3/1/2040					0	12SP
WRGS	AG2-2007-018D	1278811	EES	SPA	20	3/1/2010	3/1/2040					0	12SP
WRGS	AG2-2007-019D	1278813	EES	SPA	7	3/1/2010	3/1/2040					0	12SP
WRGS	AG2-2007-092D	1286201	SECI	WR	99	3/1/2009	3/1/2019	6/1/2011	6/1/2021	3/1/2009	3/1/2019	0	09SP

797

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

Customer	Study Number	Reservation	Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	1Letter of Credit Amount Required	2Potential Base Plan Engineering and Construction Funding Allowable	Notes	4Additional Engineering and Construction Cost for 3rd Party Upgrades	3 Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITHOUT Potential Base Plan Funding Allocation	3 5 Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITH Potential Base Plan Funding Allocation	Point-to-Point Base Rate Over Reservation Period	4Total Cost of Reservation Assignable to Customer Contingent Upon Base Plan Funding
AEPM	AG2-2007-049	1283585	\$ 2,327,040	\$ 1,545,183	\$ 270,000		Indeterminate	\$ 3,838,531	\$ 3,393,157	\$ -	\$ 3,393,157
AEPM	AG2-2007-051	1283682	\$ 5,872,073	\$ -	\$ 2,736,000		Indeterminate	\$ 7,820,145	\$ 4,176,471	\$ -	\$ 4,176,471
AEPM	AG2-2007-107	1286446	\$ 3,848,885	\$ -	\$ -		Indeterminate	\$ 5,091,937	\$ 5,091,937	\$ -	\$ 5,091,937
CWEP	AG2-2007-047	1283676	\$ 100,000	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 3,888,000	\$ 3,888,000
KCPS	AG2-2007-109	1286498	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 1,254,600	\$ 1,254,600
KEPC	AG2-2007-028	1281648	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ -	Schedule 9 Charges
KPP	AG2-2007-072	1285893	\$ 497,394	\$ -	\$ 497,394		\$ -	\$ 1,048,601	\$ -	\$ -	Schedule 9 Charges
MIDW	AG2-2007-012	1268955	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ 547,800	\$ 547,800
MIDW	AG2-2007-013	1268959	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ 109,560	\$ 109,560
MIDW	AG2-2007-014	1268965	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ 109,560	\$ 109,560
MIDW	AG2-2007-034	1281706	\$ 78,733	\$ -	\$ 78,733		\$ -	\$ 181,526	\$ -	\$ -	Schedule 9 Charges
MIDW	AG2-2007-069	1285864	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ 438,240	\$ 438,240
MIDW	AG2-2007-069	1285865	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ 328,680	\$ 328,680
MIDW	AG2-2007-069	1285866	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ 219,120	\$ 219,120
MIDW	AG2-2007-069	1285867	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ 109,560	\$ 109,560
MIDW	AG2-2007-070	1285869	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ 219,120	\$ 219,120
MIDW	AG2-2007-071	1285872	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ 219,120	\$ 219,120
MIDW	AG2-2007-071	1285873	\$ -	\$ -	\$ -	6	\$ -	\$ -	\$ -	\$ 219,120	\$ 219,120
MIDW	AG2-2007-078	1285946	\$ 1,238	\$ 1,238	\$ -	6	\$ -	\$ 2,275	\$ 2,275	\$ 328,680	\$ 328,680
MIDW	AG2-2007-078	1285947	\$ 825	\$ 825	\$ -	6	\$ -	\$ 1,516	\$ 1,516	\$ 219,120	\$ 219,120
MIDW	AG2-2007-078	1285948	\$ 413	\$ 413	\$ -	6	\$ -	\$ 759	\$ 759	\$ 109,560	\$ 109,560
MIDW	AG2-2007-079	1285949	\$ 825	\$ 825	\$ -	6	\$ -	\$ 1,516	\$ 1,516	\$ 219,120	\$ 219,120
MIDW	AG2-2007-079	1285950	\$ 413	\$ 413	\$ -	6	\$ -	\$ 759	\$ 759	\$ 109,560	\$ 109,560
MIDW	AG2-2007-080	1285951	\$ 2,206	\$ 2,206	\$ -	6	\$ -	\$ 4,005	\$ 4,005	\$ 219,120	\$ 219,120
MIDW	AG2-2007-080	1285952	\$ 2,206	\$ 2,206	\$ -	6	\$ -	\$ 4,005	\$ 4,005	\$ 219,120	\$ 219,120
MIDW	AG2-2007-080	1285953	\$ 1,110	\$ 1,110	\$ -	6	\$ -	\$ 2,015	\$ 2,015	\$ 109,560	\$ 109,560
SPRM	AG2-2007-110	1286502	\$ 74,686	\$ -	\$ 74,686		Indeterminate	\$ 202,305	\$ -	\$ -	Schedule 9 Charges
SPSM	AG2-2007-067	1280570	\$ 705,292	\$ -	\$ -		\$ -	\$ 2,074,494	\$ 2,074,494	\$ -	\$ 2,074,494
SPSM	AG2-2007-067	1280571	\$ 617,131	\$ -	\$ -		\$ -	\$ 1,815,182	\$ 1,815,182	\$ -	\$ 1,815,182
WFEC	AG2-2007-016	1278401	\$ 2,952,002	\$ -	\$ 342,000		\$ -	\$ 8,592,655	\$ 7,597,165	\$ -	\$ 7,597,165
WRGS	AG2-2007-011D	1268638	\$ 5,869,450	\$ 5,869,450	\$ -		Indeterminate	\$ 6,997,064	\$ 6,997,064	\$ 1,080,000	\$ 6,997,064
WRGS	AG2-2007-017D	1278809	\$ 6,700,000	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 6,480,000	\$ 6,480,000
WRGS	AG2-2007-018D	1278811	\$ 1,165,527	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 6,480,000	\$ 6,480,000
WRGS	AG2-2007-019D	1278813	\$ 334,473	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 2,268,000	\$ 2,268,000
WRGS	AG2-2007-092D	1286201	\$ 15,949,950	\$ 10,836,961	\$ 1,782,000		\$ -	\$ 29,834,194	\$ 26,500,984	\$ -	\$ 26,500,984
Grand Total			\$ 47,101,872					\$ 67,513,485	\$ 57,663,306		

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
 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
 Note 3: Revenue Requirements (RR) are based upon deferred end dates if applicable. Deferred dates are based upon customer's choice to pursue redispatch. Achievable Base Plan Avoided RR in the case of a Base Plan
 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
 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
 Note 6: Base Plan Funding is indeterminate due to lack of information

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	\$ -	\$ 2,450,703	\$ 3,838,531
									\$ 270,000	\$ -	\$ 2,450,703	\$ 3,838,531

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1283585	ALVA - CHEROKEE SW 69KV CKT 1	12/1/2009	6/1/2010			\$ 43,335	\$ 200,000	\$ 73,212
	CLARENCE - MONTGOMERY 230KV CKT 1 CELE	6/1/2009	6/1/2009			\$ 123,663	\$ 2,200,000	\$ -
	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2011		Yes	\$ 579,042	\$ 10,300,000	\$ 771,140
	FT SUPPLY - WOODWARD 69KV CKT 1	6/1/2008	6/1/2011		Yes	\$ 1,704,663	\$ 4,500,000	\$ 2,994,179
	LAWTON EASTSIDE (LES 1) 138/69/13.8KV TRANSFORMER CKT 1	12/1/2012	12/1/2012			\$ -	\$ -	\$ -
	LAWTON EASTSIDE (LES 2) 138/69/13.8KV TRANSFORMER CKT 2	12/1/2012	12/1/2012			\$ -	\$ -	\$ -
Total						\$ 2,450,703	\$ 17,200,000	\$ 3,838,531

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1283585	412SUB - KANSAS TAP 161KV CKT 1	6/1/2009	6/1/2010		
	ALVA - KNOBHILL 69KV CKT 1	6/1/2010	6/1/2010		
	ARSENAL HILL (ARSHILL1) 138/69/12.47KV TRANSFORMER CKT 1	6/1/2014	6/1/2014		
	ARSENAL HILL (ARSHILL2) 138/69/14.5KV TRANSFORMER CKT 2	6/1/2014	6/1/2014		
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2010	6/1/2010		
	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	6/1/2015	6/1/2015		
	FLINT CREEK - EAST CENTERTON 161KV CKT 1	6/1/2015	6/1/2015		
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2011	6/1/2011		
	MOORELAND - MOREWOOD SW 138KV CKT 1	8/1/2008	6/1/2011		Yes
	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2015	6/1/2015		
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009		
	Wallace Lake - Port Robson - RedPoint 138 kv	6/1/2010	6/1/2010		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1283585	FT SUPPLY 138/69KV TRANSFORMER CKT 1	12/1/2006	6/1/2008		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	6/1/2011	6/1/2011		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	6/1/2011	6/1/2011		
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1283585	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1	8/1/2008	6/1/2009		Yes
	LINWOOD - MCWILLIE STREET 138KV CKT 1	8/1/2008	6/1/2008		
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1	8/1/2008	6/1/2009		Yes
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 2	8/1/2008	6/1/2009		Yes

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1283585	3ALPINE# 115.00 - 3AMITY * 115.00 115KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	3ALPINE# 115.00 - 3BISMAR 115KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	3BISMAR - 3HSEHVW 115KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	4TAMINA 138.00 - TAMINA 138KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	8WELLS 500.00 - WEBRE 500KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	8WELLS 500.00 500/230KV TRANSFORMER CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	CHINA - SABINE 230KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	CLARENCE - MONTGOMERY 230KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	HARTBURG - INLAND-ORANGE 230KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	OAK RIDGE - TAMINA 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number
 AEPM 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	\$ 2,736,000	-	\$ 7,052,469	\$ 7,820,145
									\$ 2,736,000	\$ -	\$ 7,052,469	\$ 7,820,145

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1283682	CLARENCE - MONTGOMERY 230KV CKT 1 CELE	6/1/2009	6/1/2009			\$ 1,180,396	\$ 2,200,000	\$ -
	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2011		Yes	\$ 5,872,073	\$ 10,300,000	\$ 7,820,145
Total						\$ 7,052,469	\$ 12,500,000	\$ 7,820,145

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1283682	412SUB - KANSAS TAP 161KV CKT 1	6/1/2009	6/1/2010		
	ANADARKO - CYRIL 69KV CKT 1	8/1/2008	6/1/2011		Yes
	ARSENAL HILL (ARSHILL1) 138/69/12.47KV TRANSFORMER CKT 1	6/1/2014	6/1/2014		
	ARSENAL HILL (ARSHILL2) 138/69/14.5KV TRANSFORMER CKT 2	6/1/2014	6/1/2014		
	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	6/1/2015	6/1/2015		
	CYRIL - MEDICINE PARK JCT 69KV CKT 1	6/1/2012	6/1/2012		
	FLETCHER - MEDICINE PARK JCT 69KV CKT 1	6/1/2012	6/1/2012		
	FLINT CREEK - EAST CENTERTON 161KV CKT 1	6/1/2015	6/1/2015		
	HAMMETT - MEEKER 138kv CKT 1	6/1/2012	6/1/2012		
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2011	6/1/2011		
	RUSH SPRINGS CAPACITOR	6/1/2013	6/1/2013		
	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2015	6/1/2015		
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009		
	Wallace Lake - Port Robson - RedPoint 138 kv	6/1/2010	6/1/2010		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1283682	HUGO POWER PLANT - VALLIANT 345 KV AEPW	6/1/2011	6/1/2011		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	6/1/2011	6/1/2011		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1283682	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1	8/1/2008	6/1/2009		Yes
	LINWOOD - MCWILLIE STREET 138KV CKT 1	8/1/2008	6/1/2008		
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1	8/1/2008	6/1/2009		Yes
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 2	8/1/2008	6/1/2009		Yes

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1283682	4TAMINA 138.00 - TAMINA 138KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	8WELLS 500.00 - WEBRE 500KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	8WELLS 500.00 500/230KV TRANSFORMER CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	CHINA - SABINE 230KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	CLARENCE - MONTGOMERY 230KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	HARTBURG - INLAND-ORANGE 230KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	OAK RIDGE - TAMINA 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number
 AEPM 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	\$ -	\$ -	\$ 4,744,827	\$ 5,091,937
									\$ -	\$ -	\$ 4,744,827	\$ 5,091,937

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1286446	CLARENCE - MONTGOMERY 230KV CKT 1 CELE	6/1/2009	6/1/2009			\$ 895,942	\$ 2,200,000	\$ -
	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2011		Yes	\$ 3,848,885	\$ 10,300,000	\$ 5,091,937
Total						\$ 4,744,827	\$ 12,500,000	\$ 5,091,937

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1286446	412SUB - KANSAS TAP 161KV CKT 1	6/1/2009	6/1/2010		
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2010	6/1/2010		
	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	1/1/2009	6/1/2010		Yes
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 OKGE	6/1/2011	6/1/2011		
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 WFEC	6/1/2011	6/1/2011		
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2011	6/1/2011		
	MARIETTA SWITCH CAPACITOR	8/1/2008	6/1/2010		No
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009		
	Wallace Lake - Port Robson - RedPoint 138 kV	6/1/2010	6/1/2010		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1286446	HUGO POWER PLANT - VALLIANT 345 KV AEPW	6/1/2011	6/1/2011		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	6/1/2011	6/1/2011		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1286446	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2011		Yes
	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1	8/1/2008	6/1/2009		
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	6/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2011		Yes
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1	8/1/2008	6/1/2009		Yes
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 2	8/1/2008	6/1/2009		Yes

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1286446	3ALPINE# 115.00 - 3AMITY * 115.00 115KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	3ALPINE# 115.00 - 3BISMAR 115KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	3BISMAR 115.00 - 3HSEHVW 115KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	4KSPRGS 138.00 - CHAMPAGNE 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4KSPRGS 138.00 - LINE 642 TAP 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	4TAMINA 138.00 - TAMINA 138KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	CHINA - SABINE 230KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	CLARENCE - MONTGOMERY 230KV CKT 1 ENTR	6/1/2009	6/1/2009			\$ -	\$ -
	HARTBURG - INLAND-ORANGE 230KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
	OAK RIDGE - TAMINA 138KV CKT 1	6/1/2009	6/1/2009			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number
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	6/1/2013	6/1/2043	\$ -	\$ 3,888,000	\$ 100,000	\$ -
									\$ -	\$ 3,888,000	\$ 100,000	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
1283676	5CALCR - NORFORK 161KV CKT 1 SWPA	6/1/2012	6/1/2012			\$ 100,000	\$ 100,000	\$ -	
						Total	\$ 100,000	\$ 100,000	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1283676	3RDST - ARKOMA 161KV CKT 1	6/1/2017	6/1/2017		
	ARKOMA - FT SMITHW 161KV CKT 1	6/1/2010	6/1/2012		
	BULL SHOALS - BULL SHOALS 161KV CKT 1	6/1/2010	6/1/2012		
	CARTHAGE (CRG X1) 161/69/13.8KV TRANSFORMER CKT 1 SWPA	6/1/2010	6/1/2010		
	CLARKSVILLE - DARDANELLE 161KV CKT 1	6/1/2010	6/1/2011		
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	6/1/2010	6/1/2012		
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 OKGE	6/1/2010	6/1/2012		
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	6/1/2010	6/1/2012		
	JONES - JONESBORO 161KV CKT 1 SWPA	6/1/2016	6/1/2016		
	JOPLIN 59 - SUB 439 - STATELINE 161KV CKT 1	6/1/2012	6/1/2013		
	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST. 161/69KV TRANSFORMER CKT 1	6/1/2012	6/1/2013		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1283676	SUB 110 - OROGOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1283676	BATTLEFIELD - SOUTHWEST DISPOSAL 161KV CKT 1	6/1/2014	6/1/2014		
	SOUTHWEST - SOUTHWEST DISPOSAL 161KV CKT 1	6/1/2014	6/1/2009		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1283676	5ST_JOE 161.00 - EVERTON 161KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -	
	CARTHAGE (CRG X2) 161/69/13.8KV TRANSFORMER CKT 1 AECI	6/1/2010	6/1/2010	6/1/2010		\$ -	\$ -	
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	6/1/2010	6/1/2012	6/1/2012		\$ -	\$ -	
	EVERTON - HARRISON-EAST 161KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -	
	HUBEN (HUBEN) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2015	6/1/2015			\$ -	\$ -	
	MIAMI - MIAMI EAST NEO 69KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -	
	MT VERNON - SUB 446 - CHESAPEAKE 69KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -	
	NEOSHO - NEOSHO AECI 69KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -	
	SENECA - WALKERVILLE TAP 69KV CKT 1	6/1/2017	6/1/2017			\$ -	\$ -	
	SUB 184 - NEOSHO SOUTH JCT. (NEOSHO) 161/69/13.2KV TRANSFORMER CKT 1	6/1/2013	6/1/2013			\$ -	\$ -	
						Total	\$ -	\$ -

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	6/1/2010	11/1/2011	\$ -	\$ 1,254,600	\$ -	\$ -
									\$ -	\$ 1,254,600	\$ -	\$ -

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

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1286498	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1 #2	8/1/2008	6/1/2010		Yes
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1286498	HUGO POWER PLANT - VALLIANT 345 KV AEPW	6/1/2011	6/1/2011		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	6/1/2011	6/1/2011		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1286498	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		

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	12/1/2009	12/1/2020	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1281648	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1281648	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2012	6/1/2012		
	AUBURN ROAD (AUBRN7X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
	BISMARCK JUNCTION SWITCHING STATION - FARMERS CONSUMER CO-OP 115KV CKT 1	6/1/2015	6/1/2015		
	BISMARCK JUNCTION SWITCHING STATION - MIDLAND JUNCTION 115KV CKT 1	6/1/2015	6/1/2015		
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2016	6/1/2016		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1 #2	8/1/2008	6/1/2010		No
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	JOPLIN 59 - SUB 439 - STATELINE 161KV CKT 1	6/1/2012	6/1/2013		
	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST. 161/69KV TRANSFORMER CKT 1	6/1/2012	6/1/2013		
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saine 115 kV	8/1/2008	6/1/2010		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1281648	BATTLEFIELD - SOUTHWEST DISPOSAL 161KV CKT 1	6/1/2014	6/1/2014		
	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to McDowell 230 kV Displacement	6/1/2011	6/1/2011		
	OXFORD 138KV Capacitor Displacement	8/1/2008	6/1/2010	10/1/2009	No
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	SOUTHWEST - SOUTHWEST DISPOSAL 161KV CKT 1	6/1/2014	6/1/2009		
	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1 Displacement	12/1/2008	4/1/2009		No
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1281648	5ST_JOE 161.00 - EVERTON 161KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	HUBEN (HUBEN) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2015	6/1/2015			\$ -	\$ -
Total						\$ -	\$ -

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	10/1/2010	10/1/2020	\$ 497,394	\$ -	\$ 497,394	\$ 1,048,601
									\$ 497,394	\$ -	\$ 497,394	\$ 1,048,601

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285893	CHISHOLM - EVANS ENERGY CENTER NORTH 138KV CKT 1	6/1/2017	6/1/2017			\$ 43,496	\$ 410,000	\$ 76,548
	STRANGER CREEK - NW LEAVENWORTH 115KV	10/1/2009	10/1/2009			\$ 453,898	\$ 4,000,000	\$ 972,053
Total						\$ 497,394	\$ 4,410,000	\$ 1,048,601

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285893	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING ST.	8/1/2008	6/1/2011	10/1/2010	Yes
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285893	ARKANSAS CITY - PARIS 69KV CKT 1 #1 Displacement	6/1/2016	6/1/2009		
	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2009	6/1/2010		
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2009	6/1/2010		
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	6/1/2009	6/1/2010		
	CRESWELL - OAK 69KV CKT 1 #1 Displacement	6/1/2014	6/1/2009		
	CRESWELL - OAK 69KV CKT 1 #2 Displacement	6/1/2014	6/1/2009		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2017	6/1/2009		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

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	6/1/2010	6/1/2015	\$ -	\$ 547,800	\$ -	\$ -
									\$ -	\$ 547,800	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1268955	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1268955	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	REDEL - STILWELL 161KV CKT 1	8/1/2008	6/1/2011		No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1268955	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kv Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANH3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to McDowell 230 kv Displacement	6/1/2011	6/1/2011		
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		No
	PHILLIPSBURG - RHOADES 115 kV	8/1/2008	6/1/2009	10/1/2008	No
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

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	6/1/2010	6/1/2015	\$ -	\$ 109,560	\$ -	\$ -
									\$ -	\$ 109,560	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1268959	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1268959	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	No
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1268959	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kV Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

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	6/1/2010	6/1/2015	\$ -	\$ 109,560	\$ -	\$ -
									\$ -	\$ 109,560	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1268965	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1268965	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1268965	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kV Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

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	10/1/2010	10/1/2029	\$ 78,733	\$ -	\$ 78,733	\$ 181,526
									\$ 78,733	\$ -	\$ 78,733	\$ 181,526

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1281706	CHISHOLM - EVANS ENERGY CENTER NORTH 138KV CKT 1	6/1/2017	6/1/2017			\$ 78,733	\$ 410,000	\$ 181,526
	Total					\$ 78,733	\$ 410,000	\$ 181,526

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1281706	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING ST.	8/1/2008	6/1/2011	10/1/2010	Yes
	COWSKIN - WESTLINK 69KV	6/1/2010	6/1/2010		
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	HOOVER SOUTH - TYLER 69KV	6/1/2010	6/1/2010		
	LYONS - WHEATLAND 115KV CKT 1	6/1/2017	6/1/2017		
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		Yes
	TYLER - WESTLINK 69KV	6/1/2010	6/1/2010		
	WEST MCPHERSON - WHEATLAND 115KV CKT 1	8/1/2008	6/1/2010	10/1/2009	Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1281706	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		

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	6/1/2008	6/1/2010	6/1/2015	\$ -	\$ 438,240	\$ -	\$ -
MIDW	1285865	WR	WR	3	6/1/2008	6/1/2008	6/1/2010	6/1/2015	\$ -	\$ 328,680	\$ -	\$ -
MIDW	1285866	WR	WR	2	6/1/2008	6/1/2008	6/1/2010	6/1/2015	\$ -	\$ 219,120	\$ -	\$ -
MIDW	1285867	WR	WR	1	6/1/2008	6/1/2008	6/1/2010	6/1/2015	\$ -	\$ 109,560	\$ -	\$ -
									\$ -	\$ 1,095,600	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285864	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -
1285865	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -
1285866	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -
1285867	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285864	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69,000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	REDEL - STILWELL 161KV CKT 1	8/1/2008	6/1/2011		No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13_8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		
1285865	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69,000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	REDEL - STILWELL 161KV CKT 1	8/1/2008	6/1/2011		No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13_8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		

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

1285866	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	FARMER'S CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	REDEL - STILWELL 161KV CKT 1	8/1/2008	6/1/2011		No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kv	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13_8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		
1285867	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	FARMER'S CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	REDEL - STILWELL 161KV CKT 1	8/1/2008	6/1/2011		No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kv	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13_8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285864	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kv Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kv Displacement	6/1/2011	6/1/2011		
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		No
	PHILLIPSBURG - RHOADES 115 kv	8/1/2008	6/1/2009	10/1/2008	No
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes
1285865	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kv Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kv Displacement	6/1/2011	6/1/2011		
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		No
	PHILLIPSBURG - RHOADES 115 kv	8/1/2008	6/1/2009	10/1/2008	No
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes
1285866	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kv Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kv Displacement	6/1/2011	6/1/2011		
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		No
	PHILLIPSBURG - RHOADES 115 kv	8/1/2008	6/1/2009	10/1/2008	No
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes
1285867	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kv Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kv Displacement	6/1/2011	6/1/2011		
	MARTIN CITY - REDEL 161KV CKT 1	6/1/2009	6/1/2011		No
	PHILLIPSBURG - RHOADES 115 kv	8/1/2008	6/1/2009	10/1/2008	No
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

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

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	6/1/2010	6/1/2015	\$ -	\$ 219,120	\$ -	\$ -
									\$ -	\$ 219,120	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285869	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285869	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	No
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285869	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kV Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

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	6/1/2010	6/1/2015	\$ -	\$ 219,120	\$ -	\$ -
MIDW	1285873	WR	WR	2	6/1/2008	6/1/2013	6/1/2010	6/1/2015	\$ -	\$ 219,120	\$ -	\$ -
									\$ -	\$ 438,240	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285872	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -
1285873	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285872	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	FARMER'S CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kv	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		
1285873	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	FARMER'S CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kv	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285872	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115KV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANH3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Medowell 230 kv Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes
1285873	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115KV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANH3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Medowell 230 kv Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

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	6/1/2010	6/1/2015	\$ -	\$ 328,680	\$ 1,238	\$ 2,275
MIDW	1285947	WR	WR	2	6/1/2008	6/1/2013	6/1/2010	6/1/2015	\$ -	\$ 219,120	\$ 825	\$ 1,516
MIDW	1285948	WR	WR	1	6/1/2008	6/1/2013	6/1/2010	6/1/2015	\$ -	\$ 109,560	\$ 413	\$ 759
									\$ -	\$ 657,360	\$ 2,476	\$ 4,550

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
1285946	STRANGER CREEK - NW LEAVENWORTH 115KV	10/1/2009	10/1/2009			\$ 1,238	\$ 4,000,000	\$ 2,275	
						Total	\$ 1,238	\$ 4,000,000	\$ 2,275
1285947	STRANGER CREEK - NW LEAVENWORTH 115KV	10/1/2009	10/1/2009			\$ 825	\$ 4,000,000	\$ 1,516	
						Total	\$ 825	\$ 4,000,000	\$ 1,516
1285948	STRANGER CREEK - NW LEAVENWORTH 115KV	10/1/2009	10/1/2009			\$ 413	\$ 4,000,000	\$ 759	
						Total	\$ 413	\$ 4,000,000	\$ 759

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285946	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2008	6/1/2010		No
	COWSKIN - WESTLINK 69KV	6/1/2010	6/1/2010		
	FARMER'S CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	6/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	6/1/2008	6/1/2009	10/1/2008	No
	HOOVER SOUTH - TYLER 69KV	6/1/2010	6/1/2010		
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2010		Yes
	PRAATT 138KV Capacitor	6/1/2008	6/1/2009	10/1/2008	No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	10/1/2009		
	Summit - NE Saline 115 KV	6/1/2008	6/1/2010		Yes
	TYLER - WESTLINK 69KV	6/1/2010	6/1/2010		
	WEST GARDNER (WGARD 11) 345-161-13_8KV TRANSFORMER CKT 11	6/1/2008	6/1/2008		
1285947	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2008	6/1/2010		No
	COWSKIN - WESTLINK 69KV	6/1/2010	6/1/2010		
	FARMER'S CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	6/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	6/1/2008	6/1/2009	10/1/2008	No
	HOOVER SOUTH - TYLER 69KV	6/1/2010	6/1/2010		
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2010		Yes
	PRAATT 138KV Capacitor	6/1/2008	6/1/2009	10/1/2008	No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	10/1/2009		
	Summit - NE Saline 115 KV	6/1/2008	6/1/2010		Yes
	TYLER - WESTLINK 69KV	6/1/2010	6/1/2010		
	WEST GARDNER (WGARD 11) 345-161-13_8KV TRANSFORMER CKT 11	6/1/2008	6/1/2008		

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

1285948	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010		No
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010		No
	COWSKIN - WESTLINK 69KV	6/1/2010	6/1/2010		
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	No
	HOOVER SOUTH - TYLER 69KV	6/1/2010	6/1/2010		
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		Yes
	TYLER - WESTLINK 69KV	6/1/2010	6/1/2010		
	WEST GARDNER (WGARD 11) 345-161-13_8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285946	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kV Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes
1285947	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kV Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes
1285948	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kV Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

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	6/1/2010	6/1/2015	\$ -	\$ 219,120	\$ 825	\$ 1,516
MIDW	1285950	WR	WR	1	6/1/2008	6/1/2013	6/1/2010	6/1/2015	\$ -	\$ 109,560	\$ 413	\$ 759
									\$ -	\$ 328,680	\$ 1,238	\$ 2,275

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285949	STRANGER CREEK - NW LEAVENWORTH 115KV	10/1/2009	10/1/2009			\$ 825	\$ 4,000,000	\$ 1,516
					Total	\$ 825	\$ 4,000,000	\$ 1,516
1285950	STRANGER CREEK - NW LEAVENWORTH 115KV	10/1/2009	10/1/2009			\$ 413	\$ 4,000,000	\$ 759
					Total	\$ 413	\$ 4,000,000	\$ 759

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285949	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010	No	
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010	No	
	COWSKIN - WESTLINK 69KV	6/1/2010	6/1/2010		
	FARMER'S CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	No
	HOOVER SOUTH - TYLER 69KV	6/1/2010	6/1/2010		
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010	Yes	
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kv	8/1/2008	6/1/2010	Yes	
	TYLER - WESTLINK 69KV	6/1/2010	6/1/2010		
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		
1285950	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	8/1/2008	6/1/2010	No	
	CLAY CENTER - GREENLEAF 115KV CKT 1	8/1/2008	6/1/2010	No	
	COWSKIN - WESTLINK 69KV	6/1/2010	6/1/2010		
	FARMER'S CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	No
	HOOVER SOUTH - TYLER 69KV	6/1/2010	6/1/2010		
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010	Yes	
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	No
	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	6/1/2011	6/1/2011		
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kv	8/1/2008	6/1/2010	Yes	
	TYLER - WESTLINK 69KV	6/1/2010	6/1/2010		
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		

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

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285949	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kV Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes
1285950	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kV Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

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

Customer Study Number
 MIDW AG2-2007-080

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1285951	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 219,120	\$ 2,206	\$ 4,006
MIDW	1285952	WR	WR	2	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 219,120	\$ 2,206	\$ 4,006
MIDW	1285953	WR	WR	1	6/1/2008	6/1/2013	10/1/2010	10/1/2015	\$ -	\$ 109,560	\$ 1,110	\$ 2,015
									\$ -	\$ 547,800	\$ 5,522	\$ 10,027

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1285951	STRANGER CREEK - NW LEAVENWORTH 115KV	10/1/2009	10/1/2009			\$ 2,206	\$ 4,000,000	\$ 4,006
					Total	\$ 2,206	\$ 4,000,000	\$ 4,006
1285952	STRANGER CREEK - NW LEAVENWORTH 115KV	10/1/2009	10/1/2009			\$ 2,206	\$ 4,000,000	\$ 4,006
					Total	\$ 2,206	\$ 4,000,000	\$ 4,006
1285953	STRANGER CREEK - NW LEAVENWORTH 115KV	10/1/2009	10/1/2009			\$ 1,110	\$ 4,000,000	\$ 2,015
					Total	\$ 1,110	\$ 4,000,000	\$ 2,015

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285951	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	BISMARCK JUNCTION SWITCHING STATION - FARMERS CONSUMER CO-OP 115KV CKT 1	6/1/2015	6/1/2015		
	BISMARCK JUNCTION SWITCHING STATION - MIDLAND JUNCTION 115KV CKT 1	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	8/1/2008	6/1/2011	10/1/2010	Yes
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	FORT JUNCTION SWITCHING STATION - MCDOWELL CREEK SWITCHING STATION 115KV	8/1/2008	6/1/2010		Yes
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRAATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kv	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		
	WEST MCPHERSON - WHEATLAND 115KV CKT 1	8/1/2008	6/1/2010	10/1/2009	Yes
1285952	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	BISMARCK JUNCTION SWITCHING STATION - FARMERS CONSUMER CO-OP 115KV CKT 1	6/1/2015	6/1/2015		
	BISMARCK JUNCTION SWITCHING STATION - MIDLAND JUNCTION 115KV CKT 1	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	8/1/2008	6/1/2011	10/1/2010	Yes
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	FORT JUNCTION SWITCHING STATION - MCDOWELL CREEK SWITCHING STATION 115KV	8/1/2008	6/1/2010		Yes
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRAATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kv	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		
	WEST MCPHERSON - WHEATLAND 115KV CKT 1	8/1/2008	6/1/2010	10/1/2009	Yes
1285953	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2011	6/1/2011		
	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	BISMARCK JUNCTION SWITCHING STATION - FARMERS CONSUMER CO-OP 115KV CKT 1	6/1/2015	6/1/2015		
	BISMARCK JUNCTION SWITCHING STATION - MIDLAND JUNCTION 115KV CKT 1	6/1/2015	6/1/2015		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	8/1/2008	6/1/2011	10/1/2010	Yes
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV	6/1/2011	6/1/2011		
	FORT JUNCTION SWITCHING STATION - MCDOWELL CREEK SWITCHING STATION 115KV	8/1/2008	6/1/2010		Yes
	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	8/1/2008	6/1/2009	10/1/2008	Yes
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	8/1/2008	6/1/2010		Yes
	PRAATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	Summit - NE Saline 115 kv	8/1/2008	6/1/2010		Yes
	WEST GARDNER (WGARD 11) 345-161-13 8KV TRANSFORMER CKT 11	8/1/2008	6/1/2008		
	WEST MCPHERSON - WHEATLAND 115KV CKT 1	8/1/2008	6/1/2010	10/1/2009	Yes

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

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1285951	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kv Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kv Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
1285952	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes
	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kv Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kv Displacement	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes
1285953	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes
	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kv Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kv Displacement	6/1/2011	6/1/2011		
RENO - SUMMIT 345KV	8/1/2008	12/1/2009		Yes	
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		
	WICHITA - RENO 345KV	8/1/2008	12/1/2008		Yes

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	6/1/2010	6/1/2030	\$ 74,686	\$ -	\$ 74,686	\$ 202,305
									\$ 74,686	\$ -	\$ 74,686	\$ 202,305

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1286502	CHISHOLM - EVANS ENERGY CENTER NORTH 138KV CKT 1	6/1/2017	6/1/2017			\$ 74,686	\$ 410,000	\$ 202,305
Total						\$ 74,686	\$ 410,000	\$ 202,305

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1286502	412SUB - KANSAS TAP 161KV CKT 1	6/1/2009	6/1/2010		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1 #2	8/1/2008	6/1/2010		
	JAMES RIVER - TWIN OAKS 69KV CKT 1	6/1/2016	6/1/2016		
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2011	6/1/2011		
	KICKAPOO - SUNSET 69KV CKT 1	6/1/2015	6/1/2015		
	NEERGARD - NORTON 69KV CKT 1	6/1/2009	6/1/2010		
	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2015	6/1/2015		
	SPRINGFIELD (SPF X1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2012	6/1/2012		
	SPRINGFIELD (SPF X2) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2012	6/1/2012		
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		
	SUB 124 - AURORA H.T. - SUB 383 - MONETT 161KV CKT 1	6/1/2017	6/1/2017		
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1286502	BATTLEFIELD - SOUTHWEST DISPOSAL 161KV CKT 1	6/1/2014	6/1/2014		
	BROOKLINE - JUNCTION 161KV CKT 1	6/1/2017	6/1/2017		
	SOUTHWEST - SOUTHWEST DISPOSAL 161KV CKT 1	6/1/2014	6/1/2009		
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1286502	5ST_JOE 161.00 - EVERTON 161KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	EVERTON - HARRISON-EAST 161KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	FRANKS - FT WOOD 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	HUBEN (HUBEN) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2015	6/1/2015			\$ -	\$ -
Total						\$ -	\$ -

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

Customer Study Number
SPSM AG2-2007-067

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	1280570	SPS	SPS	80	1/1/2009	1/1/2029	6/1/2012	6/1/2032	\$ -	\$ -	\$ 8,028,733	\$ 2,074,494
SPSM	1280571	SPS	SPS	70	1/1/2009	1/1/2029	6/1/2012	6/1/2032	\$ -	\$ -	\$ 7,025,142	\$ 1,815,182
									\$ -	\$ -	\$ 15,053,875	\$ 3,889,676

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1280570	Hart Interchange 230/115 kV Displacemen	6/1/2015	6/1/2015			\$ 8,028,733	\$ 15,053,875	\$ 2,074,494
					Total	\$ 8,028,733	\$ 15,053,875	\$ 2,074,494
1280571	Hart Interchange 230/115 kV Displacemen	6/1/2015	6/1/2015			\$ 7,025,142	\$ 15,053,875	\$ 1,815,182
					Total	\$ 7,025,142	\$ 15,053,875	\$ 1,815,182

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1280570	CARLSBAD INTERCHANGE 115/69KV TRANSFORMER CKT 1	6/1/2012	6/1/2012		
	CARLSBAD INTERCHANGE 115/69KV TRANSFORMER CKT 2	6/1/2012	6/1/2012		
	DEAF SMITH COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 3	6/1/2016	6/1/2016		
	Hitchland Interchange Project	6/1/2011	6/1/2012		
	NICHOLS STATION - WHITAKER SUB 115KV CKT 1	6/1/2010	6/1/2010		
	SEMINOLE INTERCHANGE	6/1/2009	6/1/2011		
	Sherman - Dalhart 115 kV	6/1/2011	6/1/2012		
	Stateline Project	6/1/2011	6/2/2011		
	TERRY COUNTY INTERCHANGE - WOLFFORTH INTERCHANGE 115KV CKT 1	6/1/2012	6/1/2012		
	Texas Co-Hitchland-Sherman Tap 115 kV	6/1/2011	6/1/2012		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1 Displacement	6/1/2016	6/1/2016		
1280571	CARLSBAD INTERCHANGE 115/69KV TRANSFORMER CKT 1	6/1/2012	6/1/2012		
	CARLSBAD INTERCHANGE 115/69KV TRANSFORMER CKT 2	6/1/2012	6/1/2012		
	DEAF SMITH COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 3	6/1/2016	6/1/2016		
	Hitchland Interchange Project	6/1/2011	6/1/2012		
	NICHOLS STATION - WHITAKER SUB 115KV CKT 1	6/1/2010	6/1/2010		
	SEMINOLE INTERCHANGE	6/1/2009	6/1/2011		
	Sherman - Dalhart 115 kV	6/1/2011	6/1/2012		
	Stateline Project	6/1/2011	6/2/2011		
	TERRY COUNTY INTERCHANGE - WOLFFORTH INTERCHANGE 115KV CKT 1	6/1/2012	6/1/2012		
	Texas Co-Hitchland-Sherman Tap 115 kV	6/1/2011	6/1/2012		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1 Displacement	6/1/2016	6/1/2016		

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	\$ -	\$ 2,952,002	\$ 8,592,654
									\$ 342,000	\$ -	\$ 2,952,002	\$ 8,592,654

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1278401	ALVA - CHEROKEE SW 69KV CKT 1	12/1/2009	6/1/2010			\$ 156,665	\$ 200,000	\$ 439,574
	FT SUPPLY - WOODWARD 69KV CKT 1	6/1/2008	6/1/2011			\$ 2,795,337	\$ 4,500,000	\$ 8,153,080
Total						\$ 2,952,002	\$ 4,700,000	\$ 8,592,654

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1278401	ACME - WEST NORMAN 69KV CKT 1	8/1/2008	6/1/2009		
	ANADARKO - CYRIL 69KV CKT 1	8/1/2008	6/1/2011		
	BROWN - EXPLORER TAP 138KV CKT 1	6/1/2011	6/1/2011		
	BROWN - RUSSETT 138KV CKT 1 SWPA	6/1/2016	6/1/2016		
	BROWN - RUSSETT 138KV CKT 1 WFEC	6/1/2016	6/1/2016		
	BROWN TAP - EXPLORER TAP 138KV CKT 1	6/1/2011	6/1/2011		
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2010	6/1/2010		
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 OKGE	6/1/2011	6/1/2011		
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 WFEC	6/1/2011	6/1/2011		
	FRANKLIN SW 138/69KV TRANSFORMER CKT 1	6/1/2010	6/1/2010		
	GLASSES - RUSSETT 138KV CKT 1	6/1/2010	6/1/2011		
	HAMMETT - MEEKER 138KV CKT 1	6/1/2012	6/1/2012		
	KINGFISHER SWITCH CAPACITOR	8/1/2008	6/1/2010		
	MARIETTA SWITCH CAPACITOR	8/1/2008	6/1/2010		
	MOORELAND - MOREWOOD SW 138KV CKT 1	8/1/2008	6/1/2011		
	PHAROAH - WELEETKA 138KV CKT 1 SWPA	6/1/2012	6/1/2012		
	PHAROAH - WELEETKA 138KV CKT 1 WFEC	6/1/2012	6/1/2012		
	RUSH SPRINGS CAPACITOR	6/1/2013	6/1/2013		
	RUSSETT - RUSSETT 138KV CKT 1 OKGE	6/1/2013	6/1/2013		
	RUSSETT - RUSSETT 138KV CKT 1 WFEC	6/1/2013	6/1/2013		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1278401	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	6/1/2006	4/1/2008		
	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	6/1/2006	4/1/2008		

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	\$ 6,135,000	\$ 6,997,064
									\$ -	\$ 1,080,000	\$ 6,135,000	\$ 6,997,064

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1268638	GRANDVIEW EAST - SAMPSON 161KV CKT 1 # 1 Displacement	6/1/2011	6/1/2011			\$ 180,000	\$ 180,000	\$ 66,820
	GRANDVIEW EAST - SAMPSON 161KV CKT 1 # 2	6/1/2013	6/1/2013			\$ 3,225,000	\$ 3,225,000	\$ 3,832,821
	LONGVIEW - SAMPSON 161KV CKT 1 # 1 Displacement	6/1/2011	6/1/2011			\$ 180,000	\$ 180,000	\$ 66,820
	LONGVIEW - SAMPSON 161KV CKT 1 # 2	6/1/2013	6/1/2013			\$ 2,550,000	\$ 2,550,000	\$ 3,030,603
	Total					\$ 6,135,000	\$ 6,135,000	\$ 6,997,064

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1268638	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1 #2	8/1/2008	6/1/2010		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1268638	BOONE (BOONE) 161/69/13.2KV TRANSFORMER CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	MOBERLY TAP - THOMAS HILL 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	THOMAS HILL - YATES 69KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	Total					\$ -	\$ -

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

Customer Study Number
 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			\$ -	\$ 6,480,000	\$ 9,700,000	\$ -
									\$ -	\$ 6,480,000	\$ 9,700,000	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1278809	5ASHRVL - IDALIA 161KV CKT 1	6/1/2011	6/1/2011			\$ 3,400,000	\$ 3,400,000	\$ -
	5ASHRVL - POPLAR BLUFF 161KV CKT 1	6/1/2012	6/1/2012			\$ 1,800,000	\$ 1,800,000	\$ -
	5TRUM-W# - HERGETT 161KV CKT 1 SWPA	6/1/2014	6/1/2014			\$ -	\$ -	\$ -
	POPLAR BLUFF (PBL X1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 1,500,000	\$ 1,500,000	\$ -
	POPLAR BLUFF (PBL X2) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 1,500,000	\$ 1,500,000	\$ -
	POPLAR BLUFF (PBL X3) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 1,500,000	\$ 1,500,000	\$ -
	Total					\$ 9,700,000	\$ 9,700,000	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1278809	JONES - JONESBORO 161KV CKT 1 SWPA	6/1/2016	6/1/2016		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1278809	CAPE GIR 161.00 - JOPPA SR 161.00 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	Total					\$ -	\$ -

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

Customer Study Number
 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	\$ 1,165,527	\$ -
									\$ -	\$ 6,480,000	\$ 1,165,527	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1278811	STRUM-W# - HERGETT 161KV CKT 1 SWPA	6/1/2014	6/1/2014			\$ -	\$ -	\$ -
	KENNETT (KEN X1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ 1,165,527	\$ 1,500,000	\$ -
	Total					\$ 1,165,527	\$ 1,500,000	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1278811	JONES - JONESBORO 161KV CKT 1 SWPA	6/1/2016	6/1/2016		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1278811	CAPE GIR 161.00 - JOPPA SR 161.00 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	Total					\$ -	\$ -

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

Customer Study Number
 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	\$ 334,473	\$ -
									\$ -	\$ 2,268,000	\$ 334,473	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1278813	STRUM-W# - HERGETT 161KV CKT 1 SWPA	6/1/2014	6/1/2014			\$ -	\$ -	\$ -
	KENNETT (KEN X1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017			\$ 334,473	\$ 1,500,000	\$ -
	Total					\$ 334,473	\$ 1,500,000	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1278813	JONES - JONESBORO 161KV CKT 1 SWPA	6/1/2016	6/1/2016		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1278813	CAPE GIR 161.00 - JOPPA SR 161.00 161KV CKT 1	6/1/2012	6/1/2012			\$ -	\$ -
	IDALIA 161/69KV TRANSFORMER CKT 1	6/1/2015	6/1/2015			\$ -	\$ -
	IDALIA 161/69KV TRANSFORMER CKT 2	6/1/2015	6/1/2015			\$ -	\$ -
	Total					\$ -	\$ -

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	6/1/2011	6/1/2021	\$ 1,782,000	-	\$ 15,949,950	\$ 29,834,193
									\$ 1,782,000	\$ -	\$ 15,949,950	\$ 29,834,193

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1286201	CHISHOLM - EVANS ENERGY CENTER NORTH 138KV CKT 1	6/1/2017	6/1/2017			\$ 213,084	\$ 410,000	\$ 391,169
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2012	6/1/2012			\$ 8,500,000	\$ 8,500,000	\$ 16,742,686
	SEWARD - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016			\$ 3,700,000	\$ 3,700,000	\$ 4,799,446
	STRANGER CREEK - NW LEAVENWORTH 115KV	10/1/2009	10/1/2009			\$ 3,536,866	\$ 4,000,000	\$ 7,900,892
Total						\$ 15,949,950	\$ 16,610,000	\$ 29,834,193

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1286201	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	AUBURN ROAD (AUBRN7X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING ST	8/1/2008	6/1/2011	10/1/2010	Yes
	COWSKIN - WESTLINK 69KV	6/1/2010	6/1/2010		
	FORT JUNCTION SWITCHING STATION - MCDOWELL CREEK SWITCHING STATION 1	8/1/2008	6/1/2010		Yes
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2016	6/1/2016		
	HARPER 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	HOLCOMB - PLYMELL 115KV CKT 1	6/1/2009	6/1/2011		Yes
	HOOVER SOUTH - TYLER 69KV	6/1/2010	6/1/2010		
	PIONEER TAP - PLYMELL 115KV CKT 1	6/1/2009	6/1/2011		Yes
	PRATT 138KV Capacitor	8/1/2008	6/1/2009	10/1/2008	
	STRANGER CREEK TRANSFORMER CKT 2	8/1/2008	10/1/2009		Yes
	Summit - NE Saline 115 kV	8/1/2008	6/1/2010		Yes
	TYLER - WESTLINK 69KV	6/1/2010	6/1/2010		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Date	Redispatch Available
1286201	CIRCLE - RENO COUNTY 115KV CKT 2	6/1/2009	6/1/2009		
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2009	6/1/2010		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	6/1/2009	6/1/2010		Yes
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	6/1/2011	6/1/2011		
	East Manhattan - SW Manhattan 115kV Displacement	6/1/2011	6/1/2011		
	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	6/1/2011	6/1/2011		
	East Manhattan to Mcdowell 230 kV Displacement	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	8/1/2008	10/1/2009		No

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AEPW	DIANA - LONE STAR SOUTH 138KV CKT 1	Rebuild 11.78 miles of 2-336 ACSR with 1590 ACSR and replace Diana wavetraps & jumpers, Diana switch 10387, & reset CTs @ Lone Star South	12/1/2009	6/1/2011	\$ 10,300,000
AEPW	LAWTON EASTSIDE (LES 1) 138/69/13.8KV TRANSFORMER CKT 1	Using IEEE Guide for Loading of Mineral-Oil Immersed Power Transformers (C57.91-2000) Re-rate the autos.	12/1/2012	12/1/2012	\$ -
AEPW	LAWTON EASTSIDE (LES 2) 138/69/13.8KV TRANSFORMER CKT 2	Using IEEE Guide for Loading of Mineral-Oil Immersed Power Transformers (C57.91-2000) Re-rate the autos.	12/1/2012	12/1/2012	\$ -
CELE	CLARENCE - MONTGOMERY 230KV CKT 1 CELE	Bundle Clarence to Montgomery 230 kv	6/1/2009	6/1/2009	\$ 2,200,000
KACP	IATAN - STRANGER CREEK 345KV CKT 2	Convert Iatan-Stranger Creek 161kV line to 345kV	6/1/2012	6/1/2012	\$ 8,500,000
MIPU	GRANDVIEW EAST - SAMPSON 161KV CKT 1 # 1 Displacement	replace wavetraps	6/1/2011	6/1/2011	\$ 180,000
MIPU	GRANDVIEW EAST - SAMPSON 161KV CKT 1 # 2	Reconductor	6/1/2013	6/1/2013	\$ 3,225,000
MIPU	LONGVIEW - SAMPSON 161KV CKT 1 # 1 Displacement	replace wavetraps	6/1/2011	6/1/2011	\$ 180,000
MIPU	LONGVIEW - SAMPSON 161KV CKT 1 # 2	Reconductor	6/1/2013	6/1/2013	\$ 2,550,000
SPS	Hart Interchange 230/115 kV Displacement	New 230/115 kV Hart Interchange tapping the Potter to Plant X 230 kV line with new 115 kV 397 ACSR ckt to Kress Int, 3-brkr 230 kV ring, 150 MVA auto, 115 kV terminal	6/1/2015	6/1/2015	\$ 15,053,875
SWPA	5ASHRVL - IDALIA 161KV CKT 1	Reconductor line with ACCC conductor	6/1/2011	6/1/2011	\$ 3,400,000
SWPA	5ASHRVL - POPLAR BLUFF 161KV CKT 1	Reconductor line with ACCC conductor	6/1/2012	6/1/2012	\$ 1,800,000
SWPA	SCALCR - NORFORK 161KV CKT 1 SWPA	Replace buswork within bay and change metering CT ratio, replace wavetraps. Energy must also reconductor their line to increase the rating.	6/1/2012	6/1/2012	\$ 100,000
SWPA	STRUMW# - HERGETT 161KV CKT 1 SWPA	Indeterminate	6/1/2014	6/1/2014	\$ -
SWPA	KENNETT (KEN X1) 161/69/13.8KV TRANSFORMER CKT 1	Replace transformer	6/1/2017	6/1/2017	\$ 1,500,000
SWPA	POPLAR BLUFF (PBL X2) 161/69/13.8KV TRANSFORMER CKT 1	Replace Poplar Bluff X1m 2	6/1/2011	6/1/2011	\$ 1,500,000
WEPL	SEWARD - ST JOHN 115KV CKT 1	Rebuild Seward - St John 115kV Line	6/1/2016	6/1/2016	\$ 3,700,000
WERE	CHISHOLM - EVANS ENERGY CENTER NORTH 138KV CKT 1	Replace breaker, disconnect switches and wave traps at Evans and Chisholm.	6/1/2017	6/1/2017	\$ 410,000
WERE	STRANGER CREEK - NW LEAVENWORTH 115KV	Rebuild 11.62-mile Jarbalo-NW Leavenworth 115 kV line and tap in & out of Stranger 115 kV	10/1/2009	10/1/2009	\$ 4,000,000
WFEC	ALVA - CHEROKEE SW 69KV CKT 1	Change CT ratio	12/1/2009	6/1/2010	\$ 200,000
WFEC	FT SUPPLY - WOODWARD 69KV CKT 1	Reconductor 18.0 miles from 336 to 795 ACSR	6/1/2008	6/1/2011	\$ 4,500,000

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	Rebuild 8.37 miles of 795 ACSR with 1590 ACSR & reset relays @ BSE	6/1/2008	6/1/2011
AEPW	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1	Rebuild 7.66 miles of 3/0 CW GU with 795 ACSR	9/1/2008	6/1/2009
AEPW	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	Tie Line, Reconductor 1.09 miles of 795 ACSR with 1590 ACSR.	6/1/2009	6/1/2010
AEPW	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	Rebuild 13.11 miles of 795 ACSR with 1590 ACSR.	6/1/2009	6/1/2011
AEPW	LINWOOD - MCWILLIE STREET 138KV CKT 1	Rebuild 2.09 miles of 666 ACSR with 1272 ACSR	8/1/2008	6/1/2008
AEPW	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1	Using IEEE Guide for Loading of Mineral-Oil Immersed Power Transformers (C57.91-2000) Re-rate the autos. Replace .two 138 kv breakers and five 138 kv switches. Reset relays and CTs	8/1/2008	6/1/2009
AEPW	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 2	Replace Auto, two 138 kv breakers and five 138 kv switches. Reset relays and CTs	8/1/2008	6/1/2009
EMDE	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1 Displacement	Change CT setting on Breaker #6973 at Baxter #271	12/1/2008	4/1/2009
KACP	MARTIN CITY - REDEL 161KV CKT 1	reconductor 1192 acss upgrade terminal equip 2000 amp	6/1/2009	6/1/2011
SPRM	BATTLEFIELD - SOUTHWEST DISPOSAL 161KV CKT 1	Reconductor 161kV Line 1192 MCM AAC to 954 kcmil ACSS/TW 2.71 miles and upgrade terminal equipment.	6/1/2014	6/1/2014
SPRM	BROOKLINE - JUNCTION 161KV CKT 1	Reconductor 1192 AAC with 1158.4 ACSS/TW	6/1/2017	6/1/2017
SPRM	SOUTHWEST - SOUTHWEST DISPOSAL 161KV CKT 1	Reconductor 161kV Line 1192 MCM AAC to 954 kcmil ACSS/TW 0.67 miles and upgrade terminal equipment.	6/1/2014	6/1/2009
WEPL	PHILLIPSBURG - RHOADES 115 kV	Install 35 miles 115 kV from Phillipsburgsubstation to Rhoades	8/1/2008	6/1/2009
WERE	ARKANSAS CITY - PARIS 69KV CKT 1 #1 Displacement	Replace Disconnect Switches and Bus Jumpers at Paris and Ark City 69 kv substations	6/1/2016	6/1/2009
WERE	CIRCLE - RENO COUNTY 115KV CKT 2	Rebuild 6.25-miles	6/1/2009	6/1/2009
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	Tie Line, Rebuild 3.93 miles of 795 ACSR with 1590 ACSR.	6/1/2009	6/1/2010
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	Replace Terminal Equipment.	6/1/2009	6/1/2010
WERE	CRESWELL - OAK 69KV CKT 1 #1 Displacement	Replace jumpers and bus, and reset CTs and relaying. Rebuild substations.	6/1/2014	6/1/2009
WERE	CRESWELL - OAK 69KV CKT 1 #2 Displacement	Rebuild 5.82 miles	6/1/2014	6/1/2009
WERE	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1 Displacement	Rebuild 27 miles 345kV construction operated as 230kV	6/1/2011	6/1/2011
WERE	East Manhattan - SW Manhattan 115kV Displacement	Build new 115kV line from East Manhattan to new SW Manhattan substation	6/1/2011	6/1/2011
WERE	EAST MANHATTAN (EMANHT3X) 230/115/18.0KV TRANSFORMER CKT 2 Displacement	Add second parallel 230-115kV transformer at E Manhattan	6/1/2011	6/1/2011
WERE	East Manhattan to McDowell 230 kV Displacement	The East Manhattan-McDowell 115 kV is built as a 230 kV line, but is operated at 115 kV. Substation work will have to be performed in order to convert this line.	6/1/2011	6/1/2011
WERE	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	Replace bus and Jumpers at NE Parsons 138 kv substation	6/1/2017	6/1/2009
WERE	OXFORD 138KV Capacitor Displacement	Install 30 MVAR Capacitor Bank at Oxford 138 kv	8/1/2008	6/1/2010
WERE	RENO - SUMMIT 345KV	Install new 50.55-mile 345 kV line from Reno county to Summit: 31 miles of 115 kV line between Circle and S Philips would be rebuilt as double circuit with the 345 kV line to minimize ROW impacts; Substation work required at Summit for new 345 kV terminal	8/1/2008	12/1/2009
WERE	TECUMSEH ENERGY CENTER - MIDLAND 115KV CKT 1 Displacement	Convert 161 kV Line to 115 kV Operation	8/1/2008	10/1/2009
WERE	WICHITA - RENO 345KV	Build 345kV from Wichita to Reno Co	8/1/2008	12/1/2008

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

Expansion Plan Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.				
Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	ARSENAL HILL (ARSHILL1) 138/69/12.47KV TRANSFORMER CKT 1	used the IEEE Guide for Loading of Mineral-Oil Immersed Power Transformers (C57.91-2000) to re-rate the Arsenal Hill autos above their nameplate value.	6/1/2014	6/1/2014
AEPW	ARSENAL HILL (ARSHILL2) 138/69/14.5KV TRANSFORMER CKT 2	used the IEEE Guide for Loading of Mineral-Oil Immersed Power Transformers (C57.91-2000) to re-rate the Arsenal Hill autos above their nameplate value.	6/1/2014	6/1/2014
AEPW	CHAMBER SPRINGS - FARMINGTON AECC 161KV CKT 1	Rebuild / reconductor 10.24 miles of line with 2156 ACSR.	6/1/2015	6/1/2015
AEPW	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	Rebuild 17.96 miles of 250 Copperweld with 1272 ACSR.	6/1/2010	6/1/2012
AEPW	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	Replace Okmulgee CTs	1/1/2009	6/1/2010
AEPW	FLINT CREEK - EAST CENTERTON 161KV CKT 1	Reconductor Flint Creek-East Centerton 161 kV with 2156 conductor	6/1/2015	6/1/2015
AEPW	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	Rebuild 2.29 miles of 2-397.5 ACSR with 2-795 ACSR. Double Circuit the line and add terminal @ SW Shreveport to eliminate three terminal line.	6/1/2009	6/1/2009
AEPW	Wallace Lake - Port Robson - RedPoint 138 kV	Convert Red Point - Haughton-McDade to 138 kV, 1590 ACSR (includes McDade station conversion)	6/1/2010	6/1/2010
EMDE	JOPLIN 59 - SUB 439 - STATELINE 161KV CKT 1	Install new line from Sub #439 to new Sub Joplin 59.	6/1/2012	6/1/2013
EMDE	JOPLIN 59 - SUB 59 - JOPLIN 26TH ST. 161/69KV TRANSFORMER CKT 1	Install 3-wind transformer from 161 kV Joplin 59 bus to Sub #59 Joplin 26th St.	6/1/2012	6/1/2013
EMDE	SUB 124 - AURORA H.T. - SUB 383 - MONETT 161KV CKT 1	Change CT Ratio at Sub #383 on Breaker #16186 for 268 MVA Rate B	6/1/2017	6/1/2017
GRDA	412SUB - KANSAS TAP 161KV CKT 1	Reconductor 9.7 miles with 1590MCM ACSR.	6/1/2009	6/1/2010
GRDA	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	Replace 50 MVA Transformer with 84 MVA unit.	6/1/2012	6/1/2012
GRDA	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	Rebuild line to 1590 ACSR	6/1/2011	6/1/2011
GRDA	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	Rebuild line to 1590 ACSR	6/1/2015	6/1/2015
KACP	REDEL - STILWELL 161KV CKT 1	Reconductor line with 1192 ACSS and upgrade terminal equipment for 2000 amps	8/1/2008	6/1/2011
KACP	WEST GARDNER (WGARD 11) 345-161-13. 8KV TRANSFORMER CKT 11	Replace 400/440 Mva Tx with 600/660 Mva Tx	8/1/2008	6/1/2008
MIPU	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1 #2	Reconductor to Bundled Drake	8/1/2008	6/1/2010
OKGE	3RDST - ARKOMA 161KV CKT 1	Replace 8-1200A switches & 2-wave traps.	6/1/2017	6/1/2017
OKGE	ALVA - KNOBHILL 69KV CKT 1	Replace bus differential relaying and increase CTR to 600A.	6/1/2010	6/1/2010
OKGE	ARKOMA - FT SMITHW 161KV CKT 1	Replace 1200A terminal equipment at Arkoma to 2000A and rebuild 4.47 miles of line to 1590ASS2.	6/1/2010	6/1/2012
OKGE	BROWN - EXPLORER TAP 138KV CKT 1	Reconductor .09 miles to 795AS33 and increase CTR to 1200A.	6/1/2011	6/1/2011
OKGE	BROWN TAP - EXPLORER TAP 138KV CKT 1	Reconductor .27 miles of line to 795AS33.	6/1/2011	6/1/2011
OKGE	CANADIAN - CEDAR LANE 138KV CKT 1	Replace 800A trap at Cedar Lane	6/1/2010	6/1/2010
OKGE	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 OKGE	Rebuild 17.96 miles of 250 Copperweld with 1272 ACSR.	6/1/2010	6/1/2012
OKGE	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 OKGE	Reconductor 1.27 miles of line to 1590ASS2. WFEC will have to provide upgrade solution also for their Franklin (WFEC).	6/1/2011	6/1/2011
OKGE	GLASSES - RUSSETT 138KV CKT 1	Rebuild 8.38 miles of 138kV line with 795AS33, replace line relays, increase trap	6/1/2010	6/1/2011
OKGE	RUSSETT - RUSSETT 138KV CKT 1 OKGE	Replace trap and increase CTR. Pending verification of relays.	6/1/2013	6/1/2013
SPRM	JAMES RIVER - TWIN OAKS 69KV CKT 1	Reconductor JAMES RIVER - TWIN OAKS 69KV CKT 1 636 ACSR with 762.8 ACSS/TW.	6/1/2016	6/1/2016
SPRM	KICKAPOO - SUNSET 69KV CKT 1	Reconductor KICKAPOO - SUNSET 69KV CKT 1 636 ACSR with 762.8 ACSS/TW.	6/1/2015	6/1/2015
SPRM	NEERGARD - NORTON 69KV CKT 1	Transfer load & Reconductor 636 ACSR with 477 ACSS/TW	6/1/2009	6/1/2010
SPS	CARLSBAD INTERCHANGE 115/69KV TRANSFORMER CKT 1	Upgrade 115/69 kV transformer (84/96 MVA)	6/1/2012	6/1/2012
SPS	CARLSBAD INTERCHANGE 115/69KV TRANSFORMER CKT 2	Upgrade 115/69 kV transformer (84/96 MVA)	6/1/2012	6/1/2012
SPS	DEAF SMITH COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 3	Add third 230/115 kV auto (150/175.2 MVA)	6/1/2016	6/1/2016
SPS	Hitchland Interchange Project	New 345/230/115 kV Substation on Potter to Finney 345 kV line near the Texas Oklahoma border with new 230 kV lines to Moore County Interchange, Pringle with 115 kV tap of Spearman to Texas Co 115 kV line	6/1/2011	6/1/2012
SPS	NICHOLS STATION - WHITAKER SUB 115KV CKT 1	Replace Terminal Equipment	6/1/2010	6/1/2010
SPS	SEMINOLE INTERCHANGE	Build New 230 kV line from Mustang to Seminole to Hobbs with 2 230/115 kV at Seminole with two 115 kV lines to Amerada Hess and 115 kV lines to Doss, Gaines, and Denver South	6/1/2009	6/1/2011
SPS	Sherman - Dalhart 115 kV	Build new 115 kV line from Sherman to Dalhart with 2 230/115 kV at Seminole with two 115 kV lines to Amerada Hess and 115 kV lines to Doss, Gaines, and Denver South	6/1/2011	6/1/2012
SPS	Stateline Project	Tap Elk City - Grapevine. New line from Stateline Tap to Graves Co. New 115/69x138 at Graves Co.	6/1/2011	6/2/2011
SPS	TERRY COUNTY INTERCHANGE - WOLFFORTH INTERCHANGE 115KV CKT 1	Upgrade jumper at Terry Co. to a higher rating. Replace 4/0 with 397.5 ACSR cable	6/1/2012	6/1/2012
SPS	Texas Co-Hitchland-Sherman Tap 115 kV	Route Sherman Tap to Texas Co in/out of New Hitchland Interchange	6/1/2011	6/1/2012
SPS	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1 Displacement	Install 345/115 kV Transformer at Tuco	6/1/2016	6/1/2016
SUNC	HOLCOMB - PLYMELL 115KV CKT 1	Rebuild Holcomb to Plymell	6/1/2009	6/1/2011
SUNC	PIIONEER TAP - PLYMELL 115KV CKT 1	Rebuild Plymell to Pioneer Tap	6/1/2009	6/1/2011
SWPA	BROWN - RUSSETT 138KV CKT 1 SWPA	Upgrade Terminal Equipment at Brown- Switches/Wavetraps	6/1/2016	6/1/2016
SWPA	BULL SHOALS - BULL SHOALS 161KV CKT 1	Replace buswork in Bull Shoals switchyard.	6/1/2010	6/1/2012
SWPA	CARTHAGE (CRG X1) 161/69/13.8KV TRANSFORMER CKT 1 SWPA	Replace transformer	6/1/2010	6/1/2010
SWPA	CLARKSVILLE - DARDANELLE 161KV CKT 1	Reconductor Clarksville-Dardanelle line	6/1/2010	6/1/2011
SWPA	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1 SWPA	Replace wave trap, disconnect switches, current transformers, and breaker. Replace bus.	6/1/2010	6/1/2012
SWPA	JONES - JONESBORO 161KV CKT 1 SWPA	Indeterminate	6/1/2016	6/1/2016
SWPA	PHAROAH - WEELETKA 138KV CKT 1 SWPA	Tie Line. Replace metering CTs at Weleetka.	6/1/2012	6/1/2012
SWPA	SPRINGFIELD (SPF X1) 161/69/13.8KV TRANSFORMER CKT 1	Replace Springfield Xfmr 3	6/1/2012	6/1/2012
SWPA	SPRINGFIELD (SPF X2) 161/69/13.8KV TRANSFORMER CKT 1	Replace Springfield Xfmr 3	6/1/2012	6/1/2012
WEPL	CLAY CENTER - GREENLEAF 115KV CKT 1	Building a new 115 kV tie with Westar from Greenleaf to Clay Center	8/1/2008	6/1/2010
WEPL	HARPER 138KV Capacitor	Install 1 - 20 MVar capacitor bank	8/1/2008	6/1/2009
WEPL	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	Upgrade to 100MVA transformer	8/1/2008	6/1/2010
WEPL	PRATT 138KV Capacitor	Install 1 - 20 MVar capacitor bank	8/1/2008	6/1/2009

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

WERE	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	Rebuild 7.61 miles from 95th & Waverly-Captain Junction 115 kv line.	6/1/2011	6/1/2011
WERE	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	Tear down / Rebuild 3.53-mile section of line, 566.5 kcmil ACSR	6/1/2009	6/1/2009
WERE	AUBURN ROAD (AUBRN7X) 230/115/13.8KV TRANSFORMER CKT 2	Add second Auburn 230-115 kv transformer.	6/1/2016	6/1/2016
WERE	BISMARCK JUNCTION SWITCHING STATION - FARMERS CONSUMER CO-OP 115KV CKT 1	Rebuild 5.2 miles 115 kv line from BISMARCK3 to COOP3	6/1/2015	6/1/2015
WERE	BISMARCK JUNCTION SWITCHING STATION - MIDLAND JUNCTION 115KV CKT 1	Rebuild 5.2 miles 115 kv line from BISMARCK3 to MIDLAND3	6/1/2015	6/1/2015
WERE	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV CKT 1	Rebuild Line	9/1/2008	6/1/2011
WERE	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	Reset terminal equipment	9/1/2008	6/1/2010
WERE	COWSKIN - WESTLINK 69KV	Rebuild 2.11 miles	6/1/2010	6/1/2010
WERE	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	Rebuild 1.53-mile Co-op-Wakarusa 115 kv line.	6/1/2011	6/1/2011
WERE	FORT JUNCTION SWITCHING STATION - MCDOWELL CREEK SWITCHING STATION 115KV CKT 1 & 2	Rebuild 11-mile McDowell-Ft Junction 115 kv 1&2 with one 2x1192.5 kcmil ACSR circuit	8/1/2008	6/1/2010
WERE	GILL ENERGY CENTER EAST - GILLJCT2 69.000 69KV CKT 1	Tear down / Rebuild 3.69-mile Gill-Gill Junction-Oatville 69 kv line using 1192.5 kcmil ACSR	8/1/2008	6/1/2009
WERE	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	Replace wave trap	6/1/2016	6/1/2016
WERE	HOOVER SOUTH - TYLER 69KV	Rebuild 1.94 miles	6/1/2010	6/1/2010
WERE	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	Rebuild 5.49 miles	6/1/2013	6/1/2013
WERE	LYONS - WHEATLAND 115KV CKT 1	Rebuild 19.4 miles	6/1/2017	6/1/2017
WERE	SANDHILL ARK VALLEY CO-OP D.P. JUNCTION - TOWER 33 115 KV CKT 1	Rebuild 4.1 miles and operate line closed	6/1/2011	6/1/2011
WERE	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	Rebuild 4.09 mile SW Lawrence-Wakarusa 115 kv line	6/1/2013	6/1/2013
WERE	STRANGER CREEK TRANSFORMER CKT 2	Install second Stranger Creek 345-115 transformer	8/1/2008	10/1/2009
WERE	Summit - NE Saline 115 kv	Tear down / Rebuild 7.23-mile Summit-Northview 115 kv, 1192.5 kcmil ACSR		
WERE	TYLER - WESTLINK 69KV	Build 6.5-mile Summit-Southgate 115 kv, 1192.5 kcmil ACSR		
WERE	WEST MCPHERSON - WHEATLAND 115KV CKT 1	Tear down Northview-South Gate 115 kv	8/1/2008	6/1/2010
WERE	WEST MCPHERSON - WHEATLAND 115KV CKT 1	Rebuild 2.66 miles and operate line normally closed	6/1/2010	6/1/2010
WERE	WEST MCPHERSON - WHEATLAND 115KV CKT 1	Tear down and rebuild 7.88 mile West McPherson-Wheatland 115 kv line.	8/1/2008	6/1/2010
WFEC	ACME - WEST NORMAN 69KV CKT 1	Reconductor 4 miles from 4/0 to 795 ACSR	8/1/2008	6/1/2009
WFEC	ANADARKO - CYRIL 69KV CKT 1	UPGRADE TO 795 ACSR FROM ANADARKO SW TO CYRIL , Anadarko-Cyril 12.9	8/1/2008	6/1/2011
WFEC	BROWN - RUSSETT 138KV CKT 1 WFEC	Upgrade Terminal Equipment	6/1/2016	6/1/2016
WFEC	CYRIL - MEDICINE PARK JCT 69KV CKT 1	UPGRADE TO 795 ACSR FROM Cyril-MedPark 3.1 miles	6/1/2012	6/1/2012
WFEC	FLETCHER - MEDICINE PARK JCT 69KV CKT 1	UPGRADE TO 795 ACSR MedPark-Fletcher 4.1 miles	6/1/2012	6/1/2012
WFEC	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 WFEC	Replace switches and wavetrap at Franklin Switch to 2000A	6/1/2011	6/1/2011
WFEC	FRANKLIN SW 138/69KV TRANSFORMER CKT 1	Replace 70 MVA Auto with 112 MVA autotransformer (100 MVA base Rating), Upgrade 138 and 69 KV buswork and switches.	6/1/2010	6/1/2010
WFEC	HAMMETT - MEEKER 138KV CKT 1	Install 10 miles of 138 kv from MEEKER sub to Hammett Sub and install termal equipment	6/1/2012	6/1/2012
WFEC	KINGFISHER SWITCH CAPACITOR	12MVAR Cap bank at Kingfisher SW	9/1/2008	6/1/2010
WFEC	MARIETTA SWITCH CAPACITOR	25 MVAR at Marietta Switch	9/1/2008	6/1/2010
WFEC	MOORELAND - MOREWOOD SW 138KV CKT 1	Upgrade of 1 mile portion of line from 336.4 to 795 ACSR	8/1/2008	6/1/2011
WFEC	PHARDAH - WELEETKA 138KV CKT 1 WFEC	Upgrade of 1 mile portion of line from 336.4 to 795 ACSR	6/1/2012	6/1/2012
WFEC	RUSH SPRINGS CAPACITOR	Install switched cap	6/1/2013	6/1/2013
WFEC	RUSSETT - RUSSETT 138KV CKT 1 WFEC	Upgrade Terminal Equip CTs at Russett	6/1/2013	6/1/2013

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Valliant 345 KV line terminal	5/1/2010	5/1/2010
EMDE	SUB 110 - ORONOJO JCT. - SUB 167 - RIVERTON 161KV CKT 1	Reconductor Oronogo 59467 to Riverton 59469 with Bundled 556 ACSR	6/1/2011	6/1/2011
OKGE	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	OGF would rebuild .18 miles of 267AS33 with 795AS33. This would raise OGEs summer and winter Rate B to 287MVA. The limit will still be at WFECs Mooreland at 390A & 600A.	6/1/2006	4/1/2008
OKGE	KNOBHILL (KNOBHILL4) 138/69/13.2KV TRANSFORMER CKT 1	Replace bus tie with 100MVA transformer	6/1/2006	6/1/2008
WFEC	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	Upgrade terminal equipment FPL Sw & Mooreland	6/1/2006	4/1/2008
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 345/138 kv Auto, and 19 miles 345 KV	5/1/2010	5/1/2010

Table 5 - Third Party Facility Constraints

Transmission Owner	UpgradeName	Solution	Earliest Data Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AECI	BOONE (BOONE) 161/69/13.2KV TRANSFORMER CKT 1	Indeterminate	6/1/2012	6/1/2012	\$ -
AECI	CARTHAGE (CRG X2) 161/69/13.8KV TRANSFORMER CKT 1 AECI	Indeterminate	6/1/2010	6/1/2010	\$ -
AECI	FRANKS - FT WOOD 161KV CKT 1	Indeterminate	6/1/2012	6/1/2012	\$ -
AECI	HUBEN (HUBEN) 345/161/13.8KV TRANSFORMER CKT 1	Indeterminate	6/1/2015	6/1/2015	\$ -
AECI	IDALIA 161/69KV TRANSFORMER CKT 1	Move in mobile 161/69 kV transformer	6/1/2015	6/1/2015	\$ -
AECI	IDALIA 161/69KV TRANSFORMER CKT 2	Move in mobile 161/69 kV transformer	6/1/2015	6/1/2015	\$ -
AECI	MIAMI - MIAMI EAST NEO 69KV CKT 1	Indeterminate	6/1/2010	6/1/2010	\$ -
AECI	MOBERLY TAP - THOMAS HILL 161KV CKT 1	Indeterminate	6/1/2012	6/1/2012	\$ -
AECI	MT VERNON - SUB 446 - CHESAPEAKE 69KV CKT 1	Indeterminate	6/1/2012	6/1/2012	\$ -
AECI	NEOSHO - NEOSHO AECI 69KV CKT 1	Indeterminate	6/1/2012	6/1/2012	\$ -
AECI	SENECA - WALKERVILLE TAP 69KV CKT 1	Indeterminate	6/1/2017	6/1/2017	\$ -
AECI	SUB 184 - NEOSHO SOUTH JCT. (NEOSHO) 161/69/13.2KV TRANSFORMER CKT 1	Indeterminate	6/1/2013	6/1/2013	\$ -
AECI	THOMAS HILL - YATES 69KV CKT 1	Indeterminate	6/1/2012	6/1/2012	\$ -
AMRN	CAPE GIR 161.00 - JOPPA SR 161.00 161KV CKT 1	Indeterminate	6/1/2012	6/1/2012	\$ -
ENTR	3ALPINE# 115.00 - 3AMITY * 115.00 115KV CKT 1	Indeterminate	6/1/2008	6/1/2008	\$ -
ENTR	3ALPINE# 115.00 - 3BISMRK 115KV CKT 1	Indeterminate	6/1/2008	6/1/2008	\$ -
ENTR	3BISMRK - 3HSEHVW 115KV CKT 1	Indeterminate	6/1/2008	6/1/2008	\$ -
ENTR	4KSPRGS 138.00 - CHAMPAGNE 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	\$ -
ENTR	4KSPRGS 138.00 - LINE 642 TAP 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	\$ -
ENTR	4TAMINA 138.00 - TAMINA 138KV CKT 1	Indeterminate	6/1/2008	6/1/2008	\$ -
ENTR	8WELLS 500.00 - WEBRE 500KV CKT 1	Indeterminate	6/1/2008	6/1/2008	\$ -
ENTR	8WELLS 500.00 500/230KV TRANSFORMER CKT 1	Indeterminate	6/1/2008	6/1/2008	\$ -
ENTR	CHINA - SABINE 230KV CKT 1	Indeterminate	6/1/2008	6/1/2008	\$ -
ENTR	CLARENCE - MONTGOMERY 230KV CKT 1 ENTR	Indeterminate	6/1/2009	6/1/2009	\$ -
ENTR	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	Rebuild 17.96 miles of 250 Copperweld with 1272 ACSR.	6/1/2010	6/1/2012	\$ -
ENTR	EVERTON - HARRISON-EAST 161KV CKT 1	Indeterminate	6/1/2008	6/1/2008	\$ -
ENTR	HARTBURG - INLAND-ORANGE 230KV CKT 1	Indeterminate	6/1/2008	6/1/2008	\$ -
ENTR	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	\$ -
ENTR	LIVONIA BULK - WILBERT 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	\$ -
ENTR	OAK RIDGE - TAMINA 138KV CKT 1	Indeterminate	6/1/2009	6/1/2009	\$ -