

Aggregate Facility Study
SPP-2007-AG3-AFS-7
For Transmission Service
Requested by
Aggregate Transmission Customers

SPP Engineering, SPP Tariff Studies

SPP AGGREGATE FACILITY STUDY (SPP-2007-AG3-AFS-7)
April 8, 2009

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# 1. Executive Summary

Pursuant to Attachment Z1 of the Southwest Power Pool Open Access Transmission Tariff (OATT), 1391 MW of long-term transmission service requests have been restudied in this Aggregate Facility Study (AFS). The first phase of the AFS consisted of a revision of the impact study to reflect the withdrawal of requests for which an Aggregate Facility Study Agreement was not executed. The principal objective of the AFS is to identify system problems and potential modifications necessary to facilitate these transfers while maintaining or improving system reliability as well as summarizing the operating limits and determination of the financial characteristics associated with facility upgrades. Facility upgrade costs are allocated on a prorated basis to all requests positively impacting any individual overloaded facility. Further, Attachment Z2 provides for facility upgrade cost recovery by stating that "Transmission Customers paying Directly Assigned Upgrade Costs for Service Upgrades or that are in excess of the Safe Harbor Cost Limit for Network Upgrades associated with new or changed Designated Resources and Project Sponsors paying Directly Assigned Upgrade Costs for Sponsored Upgrades shall receive revenue credits in accordance with Attachment Z2. Generation Interconnection Customers paying for Network Upgrades shall receive credits for new transmission service using the facility as specified in Attachment Z1."

The total assigned facility upgrade Engineering and Construction (E &C) cost determined by the AFS is \$30 Million. Additionally an indeterminate amount of assigned E & C cost for 3<sup>rd</sup> party facility upgrades are assignable to the customer. The total upgrade levelized revenue requirement for all transmission requests is \$95 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 \$39 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 April 8th, 2009. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by April 23<sup>rd</sup>, 2009, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

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

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

#### 2. Introduction

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

Approximately 1391 MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$30 Million in transmission upgrades being proposed. The results of the AFS are detailed in Tables 1 through 7. A highly tangible benefit of studying transmission requests aggregately under the SPP OATT Attachment Z1 is the sharing of costs among customers using the same facility. The detailed results show individual upgrade costs by study as well as potential base plan allowances as determined by Attachments J and Z1. The following URL can be used to access the SPP OATT:

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

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

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

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

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

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

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

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

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

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

#### A. Financial Analysis

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

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

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

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

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

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

# **B.** Third Party Facilities

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

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

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

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

# 3. Study Methodology

#### A. Description

The system impact analysis was conducted to determine the steady-state impact of the requested service on the SPP and first tier Non - SPP control area systems. The steady-state analysis was done to ensure current SPP Criteria and NERC Reliability Standards requirements are fulfilled. The Southwest Power Pool conforms to the NERC Reliability Standards, which provide the strictest requirements, related to voltage violations and thermal overloads during normal conditions and during a contingency. It requires that all facilities be within normal operating ratings for normal system conditions and within emergency ratings after a contingency. Normal operating ratings and emergency operating ratings monitored are Rate A and B in the SPP MDWG models, respectively. The upper bound and lower bound of the normal voltage range monitored is 105% and 95%. The upper bound and lower bound of the emergency voltage range monitored is 105% and 90%. Transmission Owner voltage monitoring criteria is used if more restrictive. The SPS Tuco 230 kV bus voltage is monitored at 92.5% due to pre-determined system stability limitations. The WERE Wolf Creek 345 kV bus voltage is monitored at 103.5% and 98.5% due to transmission operating procedure.

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

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

#### **B.** Model Development

SPP used eleven seasonal models to study the aggregate transfers of 1391 MW over a variety of requested service periods. The SPP STEP 2008 Q4 Series Cases 2009 April (09AP), 2009 Spring Peak (09G), 2009 Summer Peak (09SP), 2009 Summer Shoulder (09SH), 2009 Fall Peak (09FA), 2009/10 Winter Peak (09WP), 2010 Summer Peak (10SP), 2010/11 Winter Peak (10WP), 2013 Summer Peak (13SP), 2013/14 Winter Peak (13WP), and 2018 Summer Peak (18SP) were used to study the impact of the requested service on the transmission system. The Spring Peak models apply to April and May, the Summer Peak models apply to June through September, the Fall Peak models apply to October and November, and the Winter Peak models apply to December through March.

The chosen base case models were modified to reflect the most current modeling information. Five groups of requests were developed from the aggregate of 1391 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

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eleven seasonal models, five system scenarios were developed. Scenario 1 includes SWPP OASIS transmission requests not already included in the SPP 2008 Series Cases flowing in a West to East direction with ERCOTN HVDC Tie South to North, ERCOTE HVDC Tie East to West, SPS exporting, and SPS importing from the Lamar HVDC Tie. Scenario 2 includes transmission requests not already included in the SPP 2008 Series Cases flowing in an East to West direction with ERCOTN HVDC tie North to South, ERCOTE HVDC tie East to West, SPS importing, and SPS exporting to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPP 2008 Series Cases flowing in a South to North direction with ERCOTN HVDC tie South to North, ERCOTE HVDC tie East to West, SPS exporting, and SPS exporting to the Lamar HVDC Tie. Scenario 4 includes transmission requests not already included in the SPP 2008 Series Cases flowing in a North to South direction with ERCOTN HVDC tie North to South, ERCOTE HVDC tie East to West, SPS importing, and SPS importing from the Lamar HVDC tie. Scenario 5 include all transmission not already included in the SPP 2008 Series Cases with ERCOTN North to South, ERCOTE East to West, SPS importing and SPS exporting to the Lamar HVDC tie. The system scenarios were developed to minimize counter flows from previously confirmed, higher priority requests not included in the MDWG Base Case.

#### C. <u>Transmission Request Modeling</u>

Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to Generation to Generation transfers. The Generation to Load modeling is accomplished by developing a pre-transfer case by redispatching the existing designated network resource(s) down by the new designated network resource request amount and scaling down the applicable network load by the same amount proportionally. The post-transfer case for comparison is developed by scaling the network load back to the forecasted amount and dispatching the new designated network resource being requested. Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to

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

# D. Transfer Analysis

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

### E. Curtailment and Redispatch Evaluation

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

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

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

#### 4. Study Results

# A. Study Analysis Results

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

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

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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

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

#### Example B:

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

#### Example C:

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

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

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

# **B.** Study Definitions

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

# 5. Conclusion

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

The Transmission Provider will tender a Letter of Intent on April 8th, 2009. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by April 23<sup>rd</sup>, 2009, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

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

# 6. Appendix A

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

BASE CASES:	
Solutions - Fixed slope decouple	d Newton-Raphson solution (FDNS)
Tap adjustment – Stepping	
Area interchange control – Tie li	nes and loads
Var limits – Apply immediately	
Solution options - $\underline{X}$ Phase shif	t adjustment
_ Flat start	
_ Lock DC t	aps
_ Lock swite	ched shunts
ACCC CASES:	
Solutions – AC contingency chec	cking (ACCC)
MW mismatch tolerance – 0.5	
Contingency case rating – Rate E	<b>3</b>
Percent of rating – 100	
Output code – Summary	
Min flow change in overload rep	
Excld cases w/ no overloads form	1
Exclude interfaces from report –	
Perform voltage limit check – YI	
Elements in available capacity ta	
Cutoff threshold for available cap	•
Min. contng. case Vltg chng for i	report – 0.02
Sorted output – None	
Newton Solution:	
Tap adjustment – Stepping	
Area interchange control – Tie li	nes and loads
Var limits - Apply automatically	
Solution options - $\underline{X}$ Phase shif	t adjustment
_ Flat start	
_ Lock DC t	-
_ Lock swite	ched shunts

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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) withing reservation period	Season of Minimum Allocated ATC within reservation period
AEPM	AG3-2007-015	1337138	CSWS	EES	22	1/1/2009	1/1/2010	10/1/2012	10/1/2013	8/1/2009	8/1/2010	0	09SP
AEPM	AG3-2007-054	1352732	CSWS	CSWS	100	1/1/2010	1/1/2011	6/1/2012	6/1/2013	1/1/2010	1/1/2011	C	10SP
AEPM	AG3-2007-063	1352923	CSWS	CSWS	50	1/1/2009	1/1/2011	10/1/2012	10/1/2014	8/1/2009	8/1/2011	C	09SP
AEPM	AG3-2007-065	1352934	CSWS	CSWS	54	6/1/2010	6/1/2015	10/1/2012	10/1/2017	6/1/2010	6/1/2015	C	10SP
CMLP	AG3-2007-047	1352193	GRDA	CSWS	197	6/1/2008	6/1/2042	6/1/2012	6/1/2046	8/1/2009	8/1/2043	C	08SP
EDE	AG3-2007-037	1350960	KCPL	EDE	5	11/1/2008	11/1/2018	6/1/2012	6/1/2022	6/1/2011	6/1/2021	C	09SP
EDE	AG3-2007-046	1352109	KCPL	EDE	5	1/1/2010	1/1/2030	6/1/2011	6/1/2031	6/1/2011	6/1/2031	C	10SP
GRDA	AG3-2007-034	1350396	OKGE	GRDA	150	6/1/2008	6/1/2013	6/1/2012	6/1/2017	6/1/2012	6/1/2017	C	08SP
KBPU	AG3-2007-017D	1339117	MPS	KACY	5	2/1/2008	2/1/2009	6/1/2011	6/1/2012	8/1/2009	8/1/2010		08SP
KCPS	AG3-2007-074	1353013	KCPL	KCPL	45	11/1/2008	11/1/2018	6/1/2011	6/1/2021	8/1/2009	8/1/2019		09SP
KEPC	AG3-2007-064	1352933	WR	KCPL	15	6/1/2008	6/1/2040	6/1/2013	6/1/2045	6/1/2011	6/1/2043	C	08SP
KEPC	AG3-2007-066	1352938	WR	WR	68	6/1/2008	6/1/2040	6/1/2013	6/1/2045	6/1/2013	6/1/2045		08SP
KMEA	AG3-2007-104	1355377	OPPD	KCPL	20	1/1/2009	1/1/2013	6/1/2013	6/1/2017	6/1/2013	6/1/2017		09SP
KPP	AG3-2007-040	1351224		WR	4	2/1/2008	2/1/2018	6/1/2013	6/1/2023	12/1/2010	12/1/2020		08SP
MIDW	AG3-2007-082	1353081	WR	WR	5	6/1/2008	6/1/2013	6/1/2013	6/1/2018	6/1/2013	6/1/2018		08SP
MIDW	AG3-2007-082	1353082	WR	WR	4	6/1/2008	6/1/2013	6/1/2013	6/1/2018	6/1/2013	6/1/2018		08SP
MIDW	AG3-2007-082	1353083		WR	3	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016		08SP
MIDW	AG3-2007-082	1353084		WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016		08SP
MIDW	AG3-2007-082	1353085		WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2011	6/1/2016		08SP
MIDW	AG3-2007-083	1353086	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2009	8/1/2014		08SP
MIDW	AG3-2007-083	1353088	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2009	8/1/2014		08SP
MIDW	AG3-2007-084	1353090		WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2009	8/1/2014		08SP
MIDW	AG3-2007-084	1353091		WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2009	8/1/2014		08SP
MIDW	AG3-2007-084	1353092	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2009	8/1/2014		08SP
MIDW	AG3-2007-086	1353097		WR	3	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2009	8/1/2014		08SP
MIDW	AG3-2007-086	1353098		WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2009	8/1/2014		08SP
MIDW	AG3-2007-086	1353099		WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2009	8/1/2014		08SP
MIDW	AG3-2007-087	1353102		WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2009	8/1/2014		08SP
MIDW	AG3-2007-087	1353103		WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	8/1/2009	8/1/2014		08SP
MIDW	AG3-2007-090	1353110		WR	25	3/1/2008	3/1/2027	6/1/2013	6/1/2032	6/1/2013	6/1/2032		08SP
MIDW	AG3-2007-091	1353111		WR	25	1/1/2009	1/1/2029	6/1/2013	6/1/2033	6/1/2013	6/1/2033		09SP
OMPA	AG3-2007-035	1350945		OKGE	23	5/1/2008	5/1/2017	6/1/2012	6/1/2021	8/1/2009	8/1/2018		08SP
SPSM	AG3-2007-080	1353054		KCPL	50	10/1/2008	6/1/2010	6/1/2011	2/1/2013	12/1/2010	8/1/2012		09SP
SPSM	AG3-2007-080	1353055		KCPL	50	10/1/2008	6/1/2010	6/1/2011	2/1/2013	12/1/2010	8/1/2012		09SP
SPSM	AG3-2007-081			KCPL	50	6/1/2010	1/1/2012	6/1/2011	1/1/2013	6/1/2010	1/1/2012		10SP
SPSM	AG3-2007-081	1353059		KCPL	50	6/1/2010	1/1/2012	6/1/2011	1/1/2013	6/1/2010	1/1/2012		10SP
WFEC	AG3-2007-043	1510704		WFEC	150	5/1/2009	5/1/2039	6/1/2011	6/1/2041	6/1/2011	6/1/2041		09SP
WRGS	AG3-2007-025	1346837		WR	96	11/1/2008	11/1/2018	6/1/2013	6/1/2023	12/1/2010	12/1/2020		09SP
WRGS	AG3-2007-026	1346842	SECI	WR	100 1391	12/31/2008	12/31/2018	6/1/2013	6/1/2023	8/1/2009	8/1/2019	0	09SP

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

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

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

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

Customer Study Number Reservation AEPM AG3-2007-015 1337138  Customer for Revenue Revenue Revenue Requirements Required Allowable Requirements Required Requirements Required Requirements	Period	Customer Contingent Upon Base Plan Funding Schedule 9 Charges
AEPM AG3-2007-054 1352732 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		Schedule 9 Charges Schedule 9 Charges
AEPM AG3-2007-065 1352934 \$ - \$ - \$ - 6 Indeterminate \$ - \$ - \$		Schedule 9 Charges
CMLP AG3-2007-047 1352193 \$ 9,339,881 \$ - \$ 9,339,881 <b>9</b> \$ - \$ 44,174,600 \$ - \$		Schedule 9 Charges
EDE AG3-2007-047 1352193 \$ 9,539,661 \$ - \$ - \$ Indeterminate \$ - \$ - \$		Schedule 9 Charges
EDE AG3-2007-046 1352109 \$ - \$ - \$ - Indeterminate \$ - \$ - \$		Schedule 9 Charges
GRDA AG3-2007-034 1350396 \$ - \$ - \$ - \$ 2,000,000 \$ - \$ - \$		Schedule 9 Charges
KBPU AG3-2007-017D 1339117 \$ - \$ - \$ - \$ - \$ - \$		\$ 52,800
KCPS AG3-2007-074 1353013 \$ - \$ - \$ - \$ - \$ - \$	- ,	Schedule 9 Charges
KEPC AG3-2007-064 1352933 \$ - \$ - \$ - \$ - \$ - \$		Schedule 9 Charges
KEPC AG3-2007-066 1352938 \$ 468,657 \$ - \$ 468,657 <b>9</b> \$ - \$ 3,255,757 \$ - \$		Schedule 9 Charges
KMEA AG3-2007-104 1355377 \$ - \$ - \$ - \$ - \$ - \$		Schedule 9 Charges
KPP AG3-2007-040 1351224 \$ 60.805 \$ - \$ 60.805 \$ - \$ 169.094 \$ - \$		Schedule 9 Charges
MIDW AG3-2007-082 1353081 \$ 12,405 \$ 12,405 \$ - \$ 34,980 \$ 34,980 \$	719,700	\$ 719,700
MIDW AG3-2007-082 1353082 \$ 9,924 \$ - \$ - \$ - \$ 27,984 \$ 27,984 \$	575,760	\$ 575,760
MIDW AG3-2007-082 1353083 \$ 7,443 \$ - \$ - \$ - \$ 17,502 \$ 17,502 \$	431,820	\$ 431,820
MIDW AG3-2007-082 1353084 \$ 4,962 \$ - \$ - \$ - \$ 11,668 \$ 11,668 \$	287,880	\$ 287,880
MIDW AG3-2007-082 1353085 \$ 2,481 \$ - \$ - \$ 5,834 \$ 5,834 \$	143,940	\$ 143,940
MIDW   AG3-2007-083   1353086   \$ 4,616   \$ -   \$ -   \$ -   \$ 9,202   \$ 9,202   \$	143,940	\$ 143,940
MIDW AG3-2007-083 1353088 \$ 9,231 \$ - \$ - \$ - \$ 18,402 \$ 18,402 \$	287,880	\$ 287,880
MIDW AG3-2007-084 1353090 \$ 3,810 \$ - \$ - \$ - \$ 7,595 \$ 7,595 \$		\$ 143,940
MIDW AG3-2007-084 1353091 \$ 7,621 \$ - \$ - \$ 15,193 \$ 15,193 \$		\$ 287,880
MIDW AG3-2007-084 1353092 \$ 7,621 \$ - \$ - \$ 15,193 \$ 15,193 \$		\$ 287,880
MIDW AG3-2007-086 1353097 \$ 414,185 \$ - \$ - <b>7</b> \$ - \$ 645,824 \$ 645,824 \$		\$ 645,824
MIDW AG3-2007-086 1353098 \$ 276,124 \$ - \$ - <b>7</b> \$ - \$ 430,551 \$ 430,551 \$	- ,	\$ 430,551
MIDW AG3-2007-086 1353099 \$ 138,061 \$ - \$ - <b>7</b> \$ - \$ 215,274 \$ 215,274 \$	,	\$ 215,274
MIDW AG3-2007-087 1353102 \$ 109,457 \$ - \$ - <b>7</b> \$ - \$ 218,206 \$ 218,206 \$		\$ 287,880
MIDW AG3-2007-087 1353103 \$ 54,728 \$ - \$ - <b>7</b> \$ - \$ 109,102 \$ 109,102 \$	- ,	\$ 143,940
MIDW AG3-2007-090 1353110 \$ 362,269 \$ - \$ 362,269 \$ - \$ 1,604,528 \$ - \$		Schedule 9 Charges
MIDW AG3-2007-091 1353111 \$ 362,269 \$ - \$ 362,269 \$ - \$ 1,655,995 \$ - \$		Schedule 9 Charges
OMPA AG3-2007-035 1350945 \$ - \$ - \$ - \$ - \$ - \$		Schedule 9 Charges
SPSM AG3-2007-080 1353054 \$ - \$ - \$ - \$ - \$ - \$	,	\$ 880,000
SPSM AG3-2007-080 1353055 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		\$ 880,000
SPSM         AG3-2007-081         1353057         \$ 166,295         \$ 166,295         \$ -         \$ 295,708         \$ 295,70	,	\$ 836,000 \$ 836,000

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

			Engineering and Construction Cost of Upgrades Allocated to Customer for	<sup>1</sup> Letter of	<sup>2</sup> Potential Base Plan Engineering and Construction		<sup>4</sup> Additional Engineering and Construction Cost for 3rd	<sup>3</sup> Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITHOUT Potential Base	Revenue Requirements for Assigned Upgrades Over Term of Reservation WITH Potential Base	Point-to- Point Base Rate Over	<sup>4</sup> Total Cost of Reservation Assignable to Customer Contingent
				Credit Amount		Notes	Party	Plan Funding	Plan Funding	Reservation	
Customer	Study Number	Reservation	Requirements	Required	Allowable	å	Upgrades	Allocation	Allocation	Period	Funding
WFEC	AG3-2007-043	1510704	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Schedule 9 Charges
WRGS	AG3-2007-025	1346837	\$ 380,165	\$ -	\$ 380,165	8	\$ -	\$ 919,696	\$ -	\$ -	Schedule 9 Charges
WRGS	AG3-2007-026	1346842	\$ 17,158,681	\$ 14,821,773	\$ 1,800,000		\$ -	\$ 40,917,492	\$ 36,625,117	\$ -	\$ 36,625,117
Grand Total			\$ 29.527.986					\$ 95.071.088	\$ 38.999.043		

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

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

Note 3: Revenue Requirements (RR) are based upon deferred end dates if applicable. Deferred dates are based upon customer's choice to pursue redispatch. Achievable Base Plan Avoided RR in the case of a Base Plan upgrade being displaced or deferred by an earlier in service date for a Requested Upgrade shall be determined per Attachment J, Section VII.C methodology.

Assumption of a 40 year service life is utilized for Base Plan funded projects. A present worth analysis of RR on a common year basis between the Base Plan and Requested Upgrades was performed to determine avoided Base Plan RR due to the displacement or deferral of the Base Plan upgrade by the Requested Upgrade. The incremental increase in present worth of a Requested Upgrade on a common year basis as a Base Plan upgrade is assigned to the transmission requests impacting the upgrade based on the displacement or deferral. If the displacement analysis results in lower RR due to the shorter amortization period of the requested upgrade when compared to a base plan amortization period, then no direct assignment of the upgrade cost is made due to the displacement to an earlier start date.

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

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

Note 6: 2010 Maximum new resources capped at 10,693MW

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

Note 8: Per Transmission Discretion Log on OASIS

Note 9: Waiver approved to fully Base Plan Fund upgrades

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

Customer	Reservation				Start Date	Requested Stop Date	Redispatch	Date Without Redispatch	Plan Funding Allowable	Point-to-Point		Total Revenue Requirements
AEPM	1337138	CSWS	EES	22	1/1/2009	1/1/2010	10/1/2012	10/1/2013	\$ -	\$ -	\$	\$ -
									\$ -	\$ -	\$ -	s -

				Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1337138	BETHEL - BROKEN BOW 138KV CKT 1	6/1/2010	10/1/2010		Yes	\$ -	\$ -	\$
	BETHEL - NASHOBA 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$ -	\$
	CLAYTON - NASHOBA 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$ -	\$
	CLAYTON - SARDIS 138KV CKT 1	6/1/2010			Yes	\$ -	\$	\$
	NORTHWEST TEXARKANA - PATTERSON 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$ -	\$
					Total	\$ -	\$ -	\$

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1337138	SALLISAW CAP BANK	6/1/2013	6/1/2013		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1337138	ASHDOWN WEST - CRAIG JUNCTION 138KV CKT 1	6/1/2013	6/1/2013		
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	6/1/2013	6/1/2013		
	SOUTH NASHVILLE 138KV CAP BANK	6/1/2013	6/1/2013		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1337138	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	8/1/2009	6/1/2011		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	12/1/2009	6/1/2011		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	12/1/2009	6/1/2011		Yes
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	12/1/2009	6/1/2011		Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1337138	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

Third Party Limitations.

				Earliest			
				Service Start	Redispatch	Allocated E & C	Total E & C
Reservation	Upgrade Name	DUN	EOC	Date	Available	Cost	Cost
1337138	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	8/1/2009	6/1/2011			\$ -	\$ -
	COCODRIE 230/138KV TRANSFORMER CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
				Total		\$ -	\$ -

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

Customer	Reservation	POR	POD					Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
AEPM	1352732	CSWS	CSWS	100	1/1/2010	1/1/2011	6/1/2012	6/1/2013	\$ -	\$ -	\$	\$ -
									\$ -	\$ -	\$ -	\$ -

			Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
135273	2 None				\$ -	\$ -	\$
				Total	\$ .	\$	\$

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352732	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2012		Yes
	RIVERSIDE STATION - TULSA POWER STATION 138KV 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.

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

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

Customer	Reservation		POD		Start Date	Requested Stop Date	Redispatch	Date Without Redispatch	Plan Funding Allowable	Point-to-Point		Total Revenue Requirements
AEPM	1352923	CSWS	CSWS	50	1/1/2009	1/1/2011	10/1/2012	10/1/2014	\$ -	\$ -	\$ -	\$
									¢.	r.	¢.	r.

				Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1352923	BETHEL - BROKEN BOW 138KV CKT 1	6/1/2010	10/1/2010		Yes	\$ -	\$ -	\$
	BETHEL - NASHOBA 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$ -	\$
	CLAYTON - NASHOBA 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$ -	\$
	CLAYTON - SARDIS 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$ -	\$
	NORTHWEST TEXARKANA - PATTERSON 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$ -	\$
	TEXAS EASTMAN - WHITNEY 138KV CKT 1	8/1/2009	10/1/2012		Yes	\$ -	\$ -	\$
				Total		\$ -	\$ -	\$

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

Reservation Upgrade Name DUN EOC Service Date Available

1352923 SALLISAW CAP BANK 6/1/2013 6/1/2013 6/1/2013

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352923	ASHDOWN WEST - CRAIG JUNCTION 138KV CKT 1	6/1/2013	6/1/2013		
	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2012		Yes
	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	6/1/2011	6/1/2011		

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

Customer	Reservation	POR				Requested		Date Without	Plan Funding	Point-to-Point		Total Revenue
AEPM	1352934		CSWS	Amount E4	6/1/2010					e Case Rate	¢	e
AEPIVI	1552954	CSWS	CSWS	34	6/1/2010	0/1/2013	10/1/2012	10/1/2017			. ·	3 -
									\$ -	\$ -	\$ -	\$ -

				Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1352934	BETHEL - BROKEN BOW 138KV CKT 1	6/1/2010	10/1/2010		Yes	\$ -	\$ -	\$
	BETHEL - NASHOBA 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$ -	\$
	CLAYTON - NASHOBA 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$	\$
	CLAYTON - SARDIS 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$ -	\$
	NORTHWEST TEXARKANA - PATTERSON 138KV CKT 1	6/1/2010	10/1/2012		Yes	\$ -	\$ -	\$
					Total	\$ -	\$ -	\$

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352934	ARSENAL HILL - NORTH MARKET 69KV CKT 1	6/1/2010	6/1/2011		Yes
	SALLISAW CAP BANK	6/1/2013	6/1/2013		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352934	3RDST - ARKOMA 161KV CKT 1	6/1/2016	6/1/2016		
	ASHDOWN WEST - CRAIG JUNCTION 138KV CKT 1	6/1/2013	6/1/2013		
	DIANA - LONE STAR SOUTH 138KV CKT 1	12/1/2009	6/1/2012		Yes
	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	6/1/2011	6/1/2011		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352934	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALUANT 345 KV WEEC	7/1/2012	7/1/2012		

Third Party Limitations.

				Earliest Service Start	Redispatch	Allocated E & C	Total E & C
Reservation	Upgrade Name	DUN	EOC	Date	Available	Cost	Cost
1352934	COCODRIE 230/138KV TRANSFORMER CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	OZARK - VAN BUREN 161KV CKT 1	6/1/2010	6/1/2011			\$ -	\$ -
				Total		¢	6

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

Customer	Reservation	POR	POD			Requested		Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
CMLP	1352193	GRDA	CSWS	197	6/1/2008	6/1/2042	6/1/2012	6/1/2046	\$ 9,339,881	\$ -	\$ 9,339,881	\$ 44,174,600
									\$ 9,339,881	\$ -	\$ 9,339,881	\$ 44,174,600

				Earliest	Redispatch	Alloc	cated E & C			Tota	al Revenue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost		Tota	al E & C Cost	Red	uirements
1352193	AFTON - FAIRLAND EDE TAP 69KV CKT 1	8/1/2009	10/1/2009			\$	-	\$	-	\$	-
	ALTOONA EAST - NOEDESHA JUNCTION 69KV CKT 1	6/1/2013	6/1/2013			\$	1,024,670	\$	1,080,000	\$	4,986,662
	COFFEYVILLE FARMLAND - SOUTH COFFEYVILLE CITY 138KV CKT 1	6/1/2013	6/1/2013			\$	2,200,000	\$	2,200,000	\$	10,080,270
	COFFEYVILLE TAP - SOUTH COFFEYVILLE CITY 138KV CKT 1	6/1/2011	6/1/2012		Yes	\$	6,000,000	\$	6,000,000	\$	28,514,774
	DEARING 138KV Capacitor Displacement	6/1/2011	6/1/2011			\$	115,211	\$	124,924	\$	592,894
				Total		\$	9,339,881	\$	9,404,924	\$	44,174,600

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352193	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	8/1/2009	6/1/2012		Yes
	LOCUST GROVE - LONE STAR 115KV CKT 1	6/1/2014	6/1/2014		
	Multi - Stateline - Joplin - Reinmiller conversion	6/1/2017	6/1/2017		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352193	PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	6/1/2013	6/1/2013		
	Sumner County to Timber Junction 138/69 kV	12/1/2010	6/1/2011		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352193	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	8/1/2009	6/1/2011		Yes
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	8/1/2009	6/1/2012		Yes
	TIMBER ICT 139 kV Capacitor	12/1/2010	6/1/2011		

								Earliest	Redispatch
Reservation	Upgrade Name					DUN	EOC	Service Date	Available
1352193	SUB 110 - ORONOGO	ICT SUB 16	7 - RIVERTO	N 161	IKV CKT 1	6/1/201	1 6/1/2011		

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

Customer	Reservation	POR	POD		Start Date	Requested Stop Date	Redispatch	Date Without Redispatch	Plan Funding Allowable	Point-to-Point	Total Revenue Requirements
EDE	1350960	KCPL	EDE	5	11/1/2008	11/1/2018	6/1/2012	6/1/2022	\$	\$ -	\$ \$ -

			Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation Upgrade Name	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1350960 AFTON - FAIRLAND EDE TAP 69KV CKT 1	8/1/2009	10/1/2009			\$ -	\$ -	\$ -
				Total	\$ -	\$ -	\$ -

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1350960	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	8/1/2009	6/1/2012		Yes
	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 EMDE	6/1/2015	6/1/2015	6/1/2012	
	Multi - Stateline - Joplin - Reinmiller conversion	6/1/2017	6/1/2017		
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	12/1/2010		
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		Yes
	SUB 124 - AURORA H.T SUB 152 - MONETT H.T. 69KV CKT 1	8/1/2009	8/1/2009	6/1/2009	
	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	6/1/2017	6/1/2017		
	SUB 170 - NICHOLS ST SUB 80 - SEDALIA 69KV CKT 1	6/1/2010	6/1/2012		
	SUB 376 - MONETT CITY SOUTH 161/69/12.5KV TRANSFORMER CKT 1	6/1/2017	6/1/2017	6/1/2015	
	SUB 383 - MONETT - SUB 376 - MONETT CITY SOUTH 161KV CKT 1	6/1/2017	6/1/2017	6/1/2015	

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

				Earliest	Redispatch
Reservati	n Upgrade Name	DUN	EOC	Service Date	Available
135	0960 ADRIAN 161kV 20MVAR	8/1/2009	6/1/2011		No
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	6/1/2013	6/1/2013		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
135096	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

Third Party Limitations

Trillu Farty Lim	itations.						
				Earliest			
				Service Start	Redispatch	Allocated E & C	Total E & C
Reservation	Upgrade Name	DUN	EOC	Date	Available	Cost	Cost
1350960	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	8/1/2009	6/1/2011			\$ -	\$ -
	HUBEN 345/161KV TRANSFORMER CKT 1	6/1/2013	6/1/2013			\$ 3,250,000	\$ 6,500,000
				Total		\$ 3.250.000	\$ 6.500,000

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

Customer		POR	POD			Requested		Date Without Redispatch	Plan Funding Allowable	Point-to-Point		Total Revenue Requirements
EDE	1352109	KCPL	EDE	5	1/1/2010	1/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

			Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1352109	None				\$ -	\$ -	\$
				Total	\$ -	\$ -	\$

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352109	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 EMDE	6/1/2015	6/1/2015	6/1/2012	
	Multi - Stateline - Joplin - Reinmiller conversion	6/1/2017	6/1/2017		
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	12/1/2010		
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		Yes
	SUB 124 - AURORA H.T SUB 152 - MONETT H.T. 69KV CKT 1	8/1/2009	8/1/2009	6/1/2009	
	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	6/1/2017	6/1/2017		
	SUB 170 - NICHOLS ST SUB 80 - SEDALIA 69KV CKT 1	6/1/2010	6/1/2012		
	SUB 376 - MONETT CITY SOUTH 161/69/12.5KV TRANSFORMER CKT 1	6/1/2017	6/1/2017	6/1/2015	
	SUB 383 - MONETT - SUB 376 - MONETT CITY SOUTH 161KV CKT 1	6/1/2017	6/1/2017	6/1/2015	

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352109	ADRIAN 161kV 20MVAR	8/1/2009	6/1/2011		No
	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	6/1/2013	6/1/2013		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352109	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

Third Party Limitations.

Trillu Farty Lin	illations.						
				Earliest			
				Service Start	Redispatch	Allocated E & 0	Total E & C
Reservation	Upgrade Name	DUN	EOC	Date	Available	Cost	Cost
1352109	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	8/1/2009	6/1/2011			\$ -	\$ -
	HUBEN 345/161KV TRANSFORMER CKT 1	6/1/2013	6/1/2013			\$ 3,250,000	\$ 6,500,000
				Total		\$ 3,250,000	\$ 6.500,000

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

Customer	Reservation	POR	POD		Start Date	Requested Stop Date	Redispatch	Date Without Redispatch	Plan Funding Allowable	Point-to-Point		Total Revenue Requirements
GRDA	1350396	OKGE	GRDA	150	6/1/2008	6/1/2013	6/1/2012	6/1/2017	\$ -	\$ -	\$ -	\$ -
									•	•	•	٥

			Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation Upgrade Name	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1350396 ARCADIA (ARCADIA3) 345/138/13.8KV TRANSFORMER CKT 1 #2	8/1/2009	10/1/2009		Yes	\$ -	\$ -	\$ -
				Total	\$ -	\$	٠ .

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1350396	CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	8/1/2009	6/1/2011		Yes
	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	8/1/2009	6/1/2011		Yes
	MAID - PRYOR FOUNDRY SOUTH 69KV CKT 1	6/1/2014	6/1/2014		
	MAID - REDDEN 69KV CKT 1	6/1/2014	6/1/2014		
	SALLISAW CAP BANK	6/1/2013	6/1/2013		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1350396	3RDST - ARKOMA 161KV CKT 1	6/1/2016	6/1/2016		
	5 TRIBES - HANCOCK 161KV CKT 1	6/1/2017	6/1/2017		
	5 TRIBES - PECAN CREEK 161KV CKT 1	6/1/2017	6/1/2017		
	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017		
	ARCADIA (ARCADIA3) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017		
	CPP TRANSF #2 - CPP TRANSF #3 69KV CKT 1	6/1/2018	6/1/2018		
	CPP TRANSF #2 - PRYOR FOUNDRY SOUTH 69KV CKT 1	6/1/2016	6/1/2016		
	MAID (MAIAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	6/1/2018	6/1/2018		
	MAID (MAIAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	6/1/2018	6/1/2018		
	MCELROY - STILLWATER 138KV CKT 1	8/1/2009	6/1/2012		Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1350396	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		

Third Party Limitations.

				Earliest			
				Service Start	Redispatch	Allocated E & C	Total E & C
Reservation	Upgrade Name	DUN	EOC	Date	Available	Cost	Cost
1350396	4LUTHER 138.00 138/69KV TRANSFORMER CKT 1	8/1/2009	6/1/2012		No	\$ 2,000,000	\$ 2,000,000
				Total		\$ 2,000,000	\$ 2,000,000

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

**Customer** Study Number KBPU AG3-2007-017D

Customer	Reservation	POR	POD			Requested	Date Without	Date Without		Point-to-Point		Total Revenue Requirements
KBPU	1339117	MPS	KACY	5	2/1/2008	2/1/2009	6/1/2011	6/1/2012	\$ -	\$ 52,800	\$ -	\$ -

			Earliest	Redispatch	Allocated E & C		Total Revenue
	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1339117 None					\$ -	\$ -	\$ -
				Total	\$ -	\$ -	\$ -

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
133911	Loma Vista - Montrose 161kV Tap into K.C. South	8/1/2009	11/1/2010		Yes
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009	10/1/2010		Yes
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		Yes

	ı				Earliest	Redispatch
	Reservation	Upgrade Name	DUN	EOC	Service Date	Available
ſ	1330117	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

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

Customer		POR	POD			Requested Stop Date	Redispatch	Date Without Redispatch	Plan Funding Allowable	Point-to-Point		Total Revenue Requirements
KCPS	1353013	KCPL	KCPL	45	11/1/2008	11/1/2018	6/1/2011	6/1/2021	\$ -	\$ -	\$	\$ -
									\$ -	\$ -	\$ -	S -

			Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation Upgrade Name	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1353013 None					\$ -	\$ -	\$ -
				Total	\$ -	\$ -	\$ -

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353013	Loma Vista - Montrose 161kV Tap into K.C. South	8/1/2009	11/1/2010		Yes
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	12/1/2010		
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009	10/1/2010		Yes
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		Yes

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

ſ					Earliest	Redispatch
	Reservation	Upgrade Name		EOC	Service Date	Available
ſ	1353013	REDEL - STILWELL 161KV CKT 1	8/1/2009	6/1/2011		Yes

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353013	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	WICHITA - RENO 345KV	6/1/2000	6/1/2000		

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

Customer		POR	POD			Requested Stop Date		Date Without Redispatch	Plan Funding Allowable	Point-to-Point		Total Revenue Requirements
KEPC	1352933	WR	KCPL	15	6/1/2008	6/1/2040	6/1/2013	6/1/2045	\$ -	\$ -	\$	\$ -
									\$ -	\$ -	\$ -	\$ -

			Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation Upgrade Name	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1352933 None					\$ -	\$ -	\$ -
				Total	\$ -	\$ -	\$ -

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352933	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	8/1/2009	6/1/2013		Yes
	BISMARK JUNCTION SWITCHING STATION - FARMERS CONSUMER CO-OP 115KV CKT 1	6/1/2018	6/1/2018	6/1/2011	
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Loma Vista - Montrose 161kV Tap into K.C. South	8/1/2009	11/1/2010		Yes
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	12/1/2010		
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009	10/1/2010		Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352933	Sumner County to Timber Junction 138/69 kV	12/1/2010	6/1/2011		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352933	REDEL - STILWELL 161KV CKT 1	8/1/2009	6/1/2011		Yes
	TIMBER JCT 138 kV Capacitor	12/1/2010	6/1/2011		No

				Earnest	Redispatori
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352933	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer	Reservation	POR	POD			Requested		Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
KEPC	1352938	WR	WR	68	6/1/2008	6/1/2040	6/1/2013	6/1/2045	\$ 468,657	\$ -	\$ 468,657	\$ 3,255,756
									\$ 468,657	\$ -	\$ 468,657	\$ 3,255,756

				Earliest	Redispatch	Allocat	ted E & C			Total	Revenue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost		Tota	I E & C Cost	Requ	irements
1352938	MEDICINE LODGE - PRATT 115KV CKT 1	8/1/2009	6/1/2011		Yes	\$	72,813	\$	6,497,822	\$	505,831
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	395,844	\$	3,825,000	\$	2,749,925
					Total	\$	468 657	\$	10.322.822	\$	3 255 756

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352938	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	8/1/2009	6/1/2013		Yes
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		No
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	PRATT - ST JOHN 115KV CKT 1	6/1/2017	6/1/2017	6/1/2015	

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352938	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	8/1/2009	6/1/2013		No
	Sumner County to Timber Junction 138/69 kV	12/1/2010	6/1/2011		No
	TECLIMSEH ENERGY CENTER - TECLIMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352	38 ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes
	TIMBER JCT 138 kV Capacitor	12/1/2010	6/1/2011		No

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1352938	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

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

Customer	Reservation	POR	POD			Requested Stop Date	Redispatch	Date Without Redispatch	Plan Funding	Point-to-Point		Total Revenue Requirements
KMEA	1355377	OPPD	KCPL	20	1/1/2009	1/1/2013	6/1/2013	6/1/2017	\$ -	\$ -	\$ -	\$

				Earliest	Redispatch	Allocated E & C		Total Revenue	-
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements	
1355377	None					\$ -	\$ -	\$	7
					Total	\$ -	\$ -	S	╗.

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

					Earliest	Redispatch
ı	Reservation	Upgrade Name	DUN	EOC	Service Date	Available
	1355377	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1355377	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	8/1/2009	6/1/2013		No

					Earliest	Redispatch
Re	servation	Upgrade Name	DUN	EOC	Service Date	Available
	1355377	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
		WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer Study Number AG3-2007-040

Customer	Reservation	POR	POD			Requested		Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
KPP	1351224	WR	WR	4	2/1/2008	2/1/2018	6/1/2013	6/1/2023	\$ 60,805	\$ -	\$ 60,805	\$ 169,093
									\$ 60,805	\$ -	\$ 60,805	\$ 169,093

				Earliest	Redispatch	Allocat	ed E & C			Total Re	venue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost		Tota	I E & C Cost	Requirer	nents
1351224	ALTOONA EAST - NOEDESHA JUNCTION 69KV CKT 1	6/1/2013	6/1/2013			\$	55,330	\$	1,080,000	\$ 1	154,659
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	8/1/2009	6/1/2011		Yes	\$	5,468	\$	2,011,826	\$	14,417
	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$	7	\$	131	\$	17
				Total		\$	60.805	\$	3.091.957	\$ 1	169.093

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1351224	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	8/1/2009	6/1/2013		Yes
	CHISHOLM - RIPLEY 69KV CKT 1	8/1/2009	6/1/2010	10/1/2009	Yes
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	8/1/2009	6/1/2012		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		Yes
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		No
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		No
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		Yes
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1351224	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	8/1/2009	6/1/2012		Yes
	SEVENTEENTH () 138/69/11.295KV TRANSFORMER CKT 2	8/1/2009	6/1/2012	10/1/2011	Yes

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

ı					Earliest	Redispatch
١	Reservation	Upgrade Name	DUN	EOC	Service Date	Available
ſ	1351224	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1351224	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

		POR	POD			Requested		Date Without Redispatch	Plan Funding Allowable	Point-to-Point		Total Revenue Requirements
MIDW	1353081	WR	WR	5	6/1/2008	6/1/2013	6/1/2013	6/1/2018	\$ -	\$ 719,700	\$ 12,405	\$ 34,980
MIDW	1353082	WR	WR	4	6/1/2008	6/1/2013	6/1/2013	6/1/2018	\$ -	\$ 575,760	\$ 9,924	\$ 27,984
MIDW	1353083	WR	WR	3	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 431,820	\$ 7,443	\$ 17,502
MIDW	1353084	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 287,880	\$ 4,962	\$ 11,668
MIDW	1353085	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 143,940	\$ 2,481	\$ 5,834
									\$ -	\$ 2,159,100	\$ 37,215	\$ 97,968

				Earliest	Redispatch	Allocated E & C		Total Revenue
	Upgrade Name	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1353081	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$ 12,405	\$ 3,825,000	\$ 34,980
					Total	\$ 12,405	\$ 3,825,000	\$ 34,980
1353082	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$ 9,924	\$ 3,825,000	\$ 27,984
					Total	\$ 9,924		
1353083	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$ 7,443	\$ 3,825,000	\$ 17,502
					Total	\$ 7,443	\$ 3,825,000	\$ 17,502
1353084	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$ 4,962	\$ 3,825,000	\$ 11,668
					Total	\$ 4,962		
1353085	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$ 2,481	\$ 3,825,000	\$ 5,834
					Total	\$ 2,481	\$ 3,825,000	\$ 5,834

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

					Redispatch
	Upgrade Name		EOC		Available
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010			Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009			
	East Manhattan to Mcdowell 230 kV	8/1/2009			
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009			Yes
	Knob Hill - Steele City 115 kV	8/1/2009			Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013			
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009			Yes
	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010			Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009			
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009	10/1/2010		Yes
1353083	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009	10/1/2010		Yes
1353084	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009	10/1/2010		Yes
1353085	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009			Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	İ
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009			Yes

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

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	8/1/2009			No
	Sumner County to Timber Junction 138/69 kV	12/1/2010	6/1/2011		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013			
	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	8/1/2009			No
	Sumner County to Timber Junction 138/69 kV	12/1/2010			No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013			
	Sumner County to Timber Junction 138/69 kV	12/1/2010			No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013			
	Sumner County to Timber Junction 138/69 kV	12/1/2010			No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013			
	Sumner County to Timber Junction 138/69 kV	12/1/2010	6/1/2011		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353081	TIMBER JCT 138 kV Capacitor	12/1/2010	6/1/2011		No
1353082	TIMBER JCT 138 kV Capacitor	12/1/2010	6/1/2011		No
1353083	TIMBER JCT 138 kV Capacitor	12/1/2010	6/1/2011		No
	TIMBER JCT 138 kV Capacitor	12/1/2010	6/1/2011		No
1353085	TIMBER JCT 138 kV Capacitor	12/1/2010	6/1/2011		No

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353081	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353082	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353083	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353084	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353085	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

<sup>\*34.5</sup> kV System Impacts and Upgrades have yet to be determined by Midwest Energy

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

Customer	Reservation	POR	POD					Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
MIDW	1353086	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 143,940	\$ 4,616	\$ 9,202
MIDW	1353088	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 287,880	\$ 9,231	\$ 18,402
									\$ -	\$ 431.820	\$ 13.847	\$ 27.604

				Earliest	Redispatch	Allocated	J&B			Total Revenu	ue
	Upgrade Name	DUN	EOC	Service Date	Available	Cost		Total E	& C Cost	Requirement	ts
1353086	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	4,616	\$	3,825,000	\$ 9,2	202
				Total		\$	4,616	\$	3,825,000	\$ 9,2	202
1353088	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	9,231	\$	3,825,000	\$ 18,4	402
					Total	\$	9 231	\$	3 825 000	\$ 184	402

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

	The requested service is contangent apon completion of the following appraises. Cost is not assignable to				Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353086	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes
1353088	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353086	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1353088	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353086	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353088	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

<sup>\*34.5</sup> kV System Impacts and Upgrades have yet to be determined by Midwest Energy

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

Customer	Reservation	POR	POD			Requested	Deferred Start Date Without Redispatch	Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
MIDW	1353090	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 143,940	\$ 3,810	\$ 7,595
MIDW	1353091	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 287,880	\$ 7,621	\$ 15,193
MIDW	1353092	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 287,880	\$ 7,621	\$ 15,193
									\$ -	\$ 719,700	\$ 19,052	\$ 37,981

				Earliest	Redispatch	Allocated	JE&C			Total Rev	venue
		DUN	EOC	Service Date	Available	Cost		Tota	I E & C Cost	Requiren	nents
1353090	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	3,810	\$	3,825,000	\$	7,595
				Total		\$	3,810	\$	3,825,000	\$	7,595
1353091	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	7,621	\$	3,825,000	\$	15,193
					Total	\$	7,621	\$	3,825,000	\$	15,193
1353092	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	7,621	\$	3,825,000	\$	15,193
					Total	\$	7,621	\$	3,825,000	\$	15,193

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353090	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes
1353091	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes
1353092	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes

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

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

					Earliest	Redispatch
- 1	Reservation	Upgrade Name	DUN	EOC	Service Date	Available
	1353090	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
ſ	1353091	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
	1353092	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353090	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010			
	SUMMIT - RENO 345KV	6/1/2010			
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353091	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353092	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
*0.4 F I-1/ C					

<sup>\*34.5</sup> kV System Impacts and Upgrades have yet to be determined by Midwest Energy

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

Customer		POR	POD			Requested		Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
MIDW	1353097	WR	WR	3	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 431,820	\$ 414,185	\$ 645,824
MIDW	1353098	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 287,880	\$ 276,124	
MIDW	1353099	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 143,940	\$ 138,061	\$ 215,274
									\$ -	\$ 863,640	\$ 828,370	\$ 1,291,650

				Earliest	Redispatch	Alloca	ted E & C			Total I	Revenue
eservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost		Tota	I E & C Cost	Requi	rements
1353097	MEDICINE LODGE - PRATT 115KV CKT 1	8/1/2009	6/1/2011		Yes	\$	135,337	\$	6,497,822	\$	269,798
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	28,848	\$	3,825,000	\$	57,509
	PAWNEE TO LARNED 115 KV	6/1/2009	6/1/2010		Yes	\$	250,000	\$	500,000	\$	318,517
				Total		\$	414,185	\$	10,822,822	\$	645,824
1353098	MEDICINE LODGE - PRATT 115KV CKT 1	8/1/2009	6/1/2011		Yes	\$	90,225	\$	6,497,822	\$	179,866
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	19,232	\$	3,825,000	\$	38,340
	PAWNEE TO LARNED 115 KV	6/1/2009	6/1/2010		Yes	\$	166,667	\$	500,000	\$	212,345
					Total	\$	276,124	\$	10,822,822	\$	430,551
1353099	MEDICINE LODGE - PRATT 115KV CKT 1	8/1/2009	6/1/2011		Yes	\$	45,112	\$	6,497,822	\$	89,932
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	9,616	\$	3,825,000	\$	19,170
	PAWNEE TO LARNED 115 KV	6/1/2009	6/1/2010		Yes	\$	83,333	\$	500,000	\$	106,172
					Total	\$	138,061	\$	10,822,822	\$	215.274

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

				Earliest	Redispatch
	Upgrade Name		EOC	Service Date	Available
1353097	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	KINSLEY 115KV Capacitor	12/1/2009	6/1/2011		
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes
1353098	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	KINSLEY 115KV Capacitor	12/1/2009	6/1/2011		
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes
1353099	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	KINSLEY 115KV Capacitor	12/1/2009	6/1/2011		
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353097	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1353098	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1353099	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		

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.

					Earliest	Redispatch
F	Reservation	Upgrade Name	DUN	EOC	Service Date	Available
	1353097	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes
Π	1353098	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes
	1353099	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes

				Earliest	Redispatch
		DUN	EOC	Service Date	Available
1353097	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353098	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006			
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353099	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer	Reservation	POR	POD					Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
MIDW	1353102	WR	WR	2	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 287,880	\$ 109,457	
MIDW	1353103	WR	WR	1	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ 143,940	\$ 54,728	\$ 109,102
									\$ -	\$ 431.820	\$ 164.185	\$ 327.308

				Earliest	Redispatch	Alloca	ted E & C			Total	Revenue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost		Tota	al E & C Cost	Requ	irements
1353102	MEDICINE LODGE - PRATT 115KV CKT 1	8/1/2009	6/1/2011		Yes	\$	90,225	\$	6,497,822	\$	179,866
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	19,232	\$	3,825,000	\$	38,340
				Total		\$	109,457	\$	10,322,822	\$	218,206
1353103	MEDICINE LODGE - PRATT 115KV CKT 1	8/1/2009	6/1/2011		Yes	\$	45,112	\$	6,497,822	\$	89,932
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	9,616	\$	3,825,000	\$	19,170
					Total	\$	54,728	\$	10,322,822	\$	109,102

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353102	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	KINSLEY 115KV Capacitor	12/1/2009	6/1/2011		
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes
1353103	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	6/1/2010	6/1/2011		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	KINSLEY 115KV Capacitor	12/1/2009	6/1/2011		
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	6/1/2013	6/1/2013	6/1/2012	
	Summit - NE Saline 115 kV	8/1/2000	12/1/2000		Vac

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353102	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		
1353103	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2013	6/1/2013		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353102	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes
1353103	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353102	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353103	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

<sup>\*34.5</sup> kV System Impacts and Upgrades have yet to be determined by Midwest Energy

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

Customer	Reservation	POR	POD			Requested	Date Without		Point-to-Point		Total Revenue
MIDW	1353110	WD	WR	25	3/1/2008		6/1/2032			\$ 362,269	
		•				•	•	\$ 362,269	\$ -	\$ 362,269	\$ 1,604,529

			Earliest	Redispatch	Alloca	ted E & C			Total	Revenue
Upgrade Name	DUN	EOC	Service Date	Available	Cost		Total I	E & C Cost	Requi	irements
DEARING 138KV Capacitor Displacement	6/1/2011	6/1/2011			\$	915	\$	124,924	\$	4,247
FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	8/1/2009			Yes	\$	30,761		2,011,826		140,229
FLATRDG3 138.00 - HARPER 138KV CKT 1	8/1/2009			Yes	\$	57,192	\$	6,035,477	\$	260,719
HARPER - MILAN TAP 138KV CKT 1	10/1/2009			Yes	\$	168,750	\$	337,500	\$	769,275
HUDSON JUNCTION - PITTSBURG 69KV CKT 1	6/1/2017	6/1/2017			\$	54,424	\$	634,500	\$	191,466
LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$	11	\$	131	\$	42
MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	50,216	\$	3,825,000	\$	238,551
				Total	\$	362,269	\$ 1	12,969,358	\$	1,604,529

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353110	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	8/1/2009	6/1/2013		Yes
	CHISHOLM - RIPLEY 69KV CKT 1	8/1/2009	6/1/2010	10/1/2009	Yes
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	KINSLEY 115KV Capacitor	12/1/2009	6/1/2011		
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		
	Summit - NF Saline 115 kV	8/1/2009	12/1/2009		Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
13531	0 AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2018	6/1/2018		
	AQUARIUS - LITCHFIELD 69KV CKT 1	6/1/2018	6/1/2018		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	8/1/2009	6/1/2012		Yes
	LYONS - WHEATLAND 115KV CKT 1 MIDW	6/1/2017	6/1/2017		
	LYONS - WHEATLAND 115KV CKT 1 WERE	6/1/2017	6/1/2017		
	SEVENTEENTH () 138/69/11.295KV TRANSFORMER CKT 2	8/1/2009	6/1/2012	10/1/2011	Yes
	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	8/1/2009	6/1/2013		No

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353110	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011		Yes
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes

				Earliest	Redispatch
Reservation	on Upgrade Name	DUN	EOC	Service Date	Available
1350	33110 RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer	Reservation	POR	POD			Requested	Date Without		Point-to-Point		Total Revenue
MIDW	1353111	WD	WR	25	1/1/2009		6/1/2033			\$ 362,269	
L					1			\$ 362,269	\$ -	\$ 362,269	\$ 1,655,996

•				Earliest	Redispatch	Alloca	ted E & C			Total	Revenue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost		Tota	I E & C Cost	Requ	irements
1353111	DEARING 138KV Capacitor Displacement	6/1/2011	6/1/2011			\$	915	\$	124,924	\$	4,369
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	8/1/2009	6/1/2011		Yes	\$	30,761	\$	2,011,826	\$	144,796
	FLATRDG3 138.00 - HARPER 138KV CKT 1	8/1/2009	6/1/2011		Yes	\$	57,192	\$	6,035,477	\$	269,209
	HARPER - MILAN TAP 138KV CKT 1	10/1/2009	6/1/2011		Yes	\$	168,750	\$	337,500	\$	794,325
	HUDSON JUNCTION - PITTSBURG 69KV CKT 1	6/1/2017	6/1/2017			\$	54,424	\$	634,500	\$	196,935
	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$	11	\$	131	\$	43
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	50,216	\$	3,825,000	\$	246,319
					Total	\$	362,269	\$	12.969.358	\$	1.655.996

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353111	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	8/1/2009	6/1/2013		Yes
	CHISHOLM - RIPLEY 69KV CKT 1	8/1/2009	6/1/2010	10/1/2009	Yes
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	KINSLEY 115KV Capacitor	12/1/2009	6/1/2011		
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		Yes
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		
	Summit - NE Saline 115 kV	8/1/2009	12/1/2009		Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353111	AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2018	6/1/2018		
	AQUARIUS - LITCHFIELD 69KV CKT 1	6/1/2018	6/1/2018		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	8/1/2009	6/1/2012		Yes
	LYONS - WHEATLAND 115KV CKT 1 MIDW	6/1/2017	6/1/2017		
	LYONS - WHEATLAND 115KV CKT 1 WERE	6/1/2017	6/1/2017		
	SEVENTEENTH () 138/69/11.295KV TRANSFORMER CKT 2	8/1/2009	6/1/2012	10/1/2011	Yes
	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1	8/1/2009	6/1/2013		No

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353111	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011		Yes
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353111	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer	Reservation		POD			Requested	Redispatch	Date Without Redispatch	Plan Funding Allowable	Point-to-Point		Total Revenue Requirements
OMPA	1350945	OKGE	OKGE	23	5/1/2008	5/1/2017	6/1/2012	6/1/2021	\$	\$ -	\$ -	\$ -
									e	e	¢	é

			Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1350	45 None				\$ -	\$ -	\$
				Total	\$ .	\$	\$

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1350945	MCELROY - STILLWATER 138KV CKT 1	8/1/2009	6/1/2012		Yes
	Sumper County to Timber Junction 138/69 kV	12/1/2010	6/1/2011		

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1350945	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes
	TIMBER JCT 138 kV Capacitor	12/1/2010	6/1/2011		

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1350945	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		

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

Customer	Reservation	POR	POD			Requested		Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
SPSM	1353054		KCPL	50	10/1/2008	6/1/2010	6/1/2011			\$ 880,000		\$ -
SPSM	1353055	WPEK	KCPL	50	10/1/2008	6/1/2010	6/1/2011	2/1/2013	\$ -	\$ 880,000	\$ -	\$ -
									\$ -	\$ 1.760.000	\$ -	\$ -

				Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
1353054	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -
1353055	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353054	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		No
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		No
	Loma Vista - Montrose 161kV Tap into K.C. South	8/1/2009	11/1/2010		Yes
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009	10/1/2010		Yes
1353055	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		No
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		No
	Loma Vista - Montrose 161kV Tap into K.C. South	8/1/2009	11/1/2010		Yes
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009	10/1/2010		Yes

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353054	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353055	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer	Reservation	POR	POD			Requested		Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
SPSM	1353057	WPEK	KCPL	50	6/1/2010	1/1/2012	6/1/2011	1/1/2013	\$ -	\$ 836,000	\$ 166,295	
SPSM	1353059	WPEK	KCPL	50	6/1/2010	1/1/2012	6/1/2011	1/1/2013	\$ -	\$ 836,000	\$ 166,295	\$ 295,708
									\$ -	\$ 1,672,000	\$ 332 590	\$ 591,416

				Earliest	Redispatch	Allocat	ed E & C			Total Reve	enue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost		Tota	I E & C Cost	Requireme	ents
1353057	FLATRDG3 138.00 - HARPER 138KV CKT 1	8/1/2009	6/1/2011		Yes	\$	166,295	\$	6,035,477	\$ 29	95,708
				Total		\$	166,295	\$	6,035,477	\$ 29	95,708
1353059	FLATRDG3 138.00 - HARPER 138KV CKT 1	8/1/2009	6/1/2011		Yes	\$	166,295	\$	6,035,477	\$ 29	95,708
					Total	¢	166 205	6	6.025.477	¢ 20	25 709

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353057	KINSLEY 115KV Capacitor	12/1/2009	6/1/2011		
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		
	Loma Vista - Montrose 161kV Tap into K.C. South	8/1/2009	11/1/2010		Yes
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	12/1/2010		
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009	10/1/2010		Yes
1353059	KINSLEY 115KV Capacitor	12/1/2009	6/1/2011		
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		
	Loma Vista - Montrose 161kV Tap into K.C. South	8/1/2009	11/1/2010		Yes
	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	6/1/2010	12/1/2010		
	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	8/1/2009	10/1/2010		Yes

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

 Reservation
 Upgrade Name
 DUN
 ECC
 Earliest Service Date Available
 Redispatch Available

 1353057 REDEL - STILWELL 161KV CKT 1
 8/1/2009
 6/1/2011
 Yes

 1353058 REDEL - STILWELL 161KV CKT 1
 8/1/2009
 6/1/2011
 Yes

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1353057	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		
1353059	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer	Reservation	POR	POD			Requested		Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
WFEC	1510704	WFEC	WFEC	150	5/1/2009	5/1/2039	6/1/2011	6/1/2041	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	S -

			Earliest	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	EOC	Service Date	Available	Cost	Total E & C Cost	Requirements
151070	None				\$ -	\$ -	\$
				Total	\$ .	\$	\$

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1510704	CARNEGIE - FORT COBB 138KV CKT 1	6/1/2017	6/1/2017		
	CARNEGIE - HOBART JUNCTION 138KV CKT 1	6/1/2017	6/1/2017		
	ELECTRA SW 69KV CAP BANK	6/1/2018	6/1/2018	6/1/2014	
	ESQUANDALE JCT - WALTERS 69KV CKT 1 AEPW	6/1/2010	6/1/2011		
	ESQUANDALE JCT - WALTERS 69KV CKT 1 WFEC	6/1/2010	6/1/2011		
	FORT CORB - SOUTHWESTERN STATION 138KV CKT 1	6/1/2017	6/1/2017		

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1510704	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		
	NORTHWEST - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

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

Customer	Reservation	POR	POD	Requested Amount		Requested		Date Without	Plan Funding	Point-to-Point		Total Revenue Requirements
WRGS	1346837	SECI	WR	96	11/1/2008	11/1/2018	6/1/2013	6/1/2023	\$ 380,165	\$ -	\$ 380,166	\$ 919,696
									\$ 380,165	\$ -	\$ 380,166	\$ 919,696

				Earliest	Redispatch	Alloca	ited E & C			Total	Revenue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cost		Tota	al E & C Cost	Requi	irements
1346837	DEARING 138KV Capacitor Displacement	6/1/2011	6/1/2011			\$	3,578	\$	124,924	\$	10,575
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	8/1/2009	6/1/2011		Yes	\$	1,677	\$	2,011,826	\$	4,422
	FLATRDG3 138.00 - HARPER 138KV CKT 1	8/1/2009	6/1/2011		Yes	\$	163,880	\$	6,035,477	\$	432,091
	HUDSON JUNCTION - PITTSBURG 69KV CKT 1	6/1/2017				\$	210,988	\$	634,500		472,505
	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacemen	6/1/2013	6/1/2013			\$	43	\$	131	\$	103
				Total		\$	380,166	\$	8,806,858	\$	919,696

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1346837	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	8/1/2009	6/1/2013		Yes
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	8/1/2009	6/1/2012		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		Yes
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		Yes
	KELLY - SOUTH SENECA 115KV CKT 1	8/1/2009	12/1/2010		Yes
	Knob Hill - Steele City 115 kV	8/1/2009	6/1/2010		No
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1346837	AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2018	6/1/2018		
	AQUARIUS - LITCHFIELD 69KV CKT 1	6/1/2018	6/1/2018		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	8/1/2009	6/1/2012		Yes
	GILL ENERGY CENTER WEST - WACO 138KV CKT 1	6/1/2010	6/1/2012	10/1/2011	Yes
	SEVENTEENTH () 138/69/11.295KV TRANSFORMER CKT 2	8/1/2009	6/1/2012	10/1/2011	Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
134683	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2010	6/1/2011		Yes
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	8/1/2009	6/1/2011		Yes

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
134683	7 RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Customer	Reservation	POR	POD			Requested		Date Without		Point-to-Point		Total Revenue Requirements
WRGS	1346842	SECI	WR	100	12/31/2008	12/31/2018	6/1/2013	6/1/2023	\$ 1,800,000	\$ -	\$ 17,158,681	\$ 40,917,493
									\$ 1,800,000	\$ -	\$ 17,158,681	\$ 40,917,493

				Earliest	Redispatch	Allo	cated E & C			Tota	al Revenue
Reservation	Upgrade Name	DUN	EOC	Service Date	Available	Cos	st	Tota	al E & C Cost	Red	quirements
1346842	DEARING 138KV Capacitor Displacement	6/1/2011	6/1/2011			\$	4,306	\$	124,924	\$	11,553
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	8/1/2009	6/1/2011		Yes	\$	1,943,157	\$	2,011,826	\$	4,544,179
	FLATRDG3 138.00 - HARPER 138KV CKT 1	8/1/2009	6/1/2011		Yes	\$	5,424,624	\$	6,035,477	\$	12,685,779
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 Displacement	6/1/2012	6/1/2012			\$	280,803	\$	280,803	\$	637,852
	HUDSON JUNCTION - PITTSBURG 69KV CKT 1	6/1/2017	6/1/2017			\$	314,664	\$	634,500	\$	639,730
	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacement	6/1/2013	6/1/2013			\$	59	\$	131	\$	131
	MEDICINE LODGE - PRATT 115KV CKT 1	8/1/2009	6/1/2011		Yes	\$	6,018,998	\$	6,497,822	\$	14,668,060
	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	12/1/2009	6/1/2011	4/1/2011	Yes	\$	3,172,070	\$	3,825,000	\$	7,730,209
				Total		\$	17.158.681	\$	19.410.483	\$	40.917.493

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
13468	2 AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	8/1/2009	6/1/2013		Yes
	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	8/1/2009	6/1/2012		Yes
	EAST MANHATTAN - NW MANHATTAN 230/115KV	8/1/2009	6/1/2012		Yes
	East Manhattan to Mcdowell 230 kV	8/1/2009	6/1/2011		Yes
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2010	6/1/2011		Yes

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

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1346842	AQUARIUS - HUDSON JUNCTION 69KV CKT 1	6/1/2018	6/1/2018		
	AQUARIUS - LITCHFIELD 69KV CKT 1	6/1/2018	6/1/2018		
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON SWITCHING STATION 115KV	8/1/2009	6/1/2012		Yes
	GILL ENERGY CENTER WEST - WACO 138KV CKT 1	6/1/2010	6/1/2012	10/1/2011	Yes

				Earliest	Redispatch
Reservation	Upgrade Name	DUN	EOC	Service Date	Available
1346842	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	RENO 345/115KV CKT 1	6/1/2009	6/1/2009		
	RENO 345/115KV CKT 2	6/1/2010	6/1/2010		
	SUMMIT - RENO 345KV	6/1/2010	6/1/2010		
	WICHITA - RENO 345KV	6/1/2009	6/1/2009		

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AEPW	BETHEL - BROKEN BOW 138KV CKT 1	Interim redispatch	6/1/2010	10/1/2010	\$ -
AEPW	BETHEL - NASHOBA 138KV CKT 1	Interim redispatch	6/1/2010	10/1/2012	\$ -
AEPW	CLAYTON - NASHOBA 138KV CKT 1	Interim redispatch	6/1/2010	10/1/2012	\$ -
AEPW	CLAYTON - SARDIS 138KV CKT 1	Interim redispatch	6/1/2010	10/1/2012	\$ -
AEPW	COFFEYVILLE FARMLAND - SOUTH COFFEYVILLE CITY 138KV CKT 1	Rebuild 2.20 miles of 795 ACSR with 1590 ACSR.	6/1/2013	6/1/2013	\$ 2,200,000
AEPW	COFFEYVILLE TAP - SOUTH COFFEYVILLE CITY 138KV CKT 1	Rebuild 6 miles of 556 ACSR with 1590 ACSR. Replace 138 kV line switch at S. Coffeyville Tap.	6/1/2011	6/1/2012	\$ 6,000,000
AEPW	NORTHWEST TEXARKANA - PATTERSON 138KV CKT 1	Interim redispatch	6/1/2010	10/1/2012	\$ -
AEPW	TEXAS EASTMAN - WHITNEY 138KV CKT 1	Interim redispatch	8/1/2009	10/1/2012	\$ -
GRDA	AFTON - FAIRLAND EDE TAP 69KV CKT 1	Interim redispatch	8/1/2009	10/1/2009	\$ -
MIDW	PAWNEE TO LARNED 115 KV	Build 2 mile 115 kV line from MIDW Pawnee 115 kV to Larned	6/1/2009	6/1/2010	\$ 500,000
MKEC	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	Rebuild 8.05 mile line	8/1/2009	6/1/2011	\$ 2,011,826
MKEC	FLATRDG3 138.00 - HARPER 138KV CKT 1	Rebuild 24.15 mile line	8/1/2009	6/1/2011	\$ 6,035,477
MKEC	HARPER - MILAN TAP 138KV CKT 1	Replace Terminal Equipment	10/1/2009	6/1/2011	\$ 337,500
MKEC	MEDICINE LODGE - PRATT 115KV CKT 1	Rebuild 26 mile line	8/1/2009	6/1/2011	\$ 6,497,822
MKEC	MEDICINE LODGE 138/115KV TRANSFORMER CKT 1	Upgrade to 100/147/170MVA transformer	12/1/2009	6/1/2011	\$ 3,825,000
OKGE	ARCADIA (ARCADIA3) 345/138/13.8KV TRANSFORMER CKT 1 #2	Interim redispatch	8/1/2009	10/1/2009	\$ -
WERE	ALTOONA EAST - NOEDESHA JUNCTION 69KV CKT 1	Rebuild 2.4 miles	6/1/2013	6/1/2013	\$ 1,080,000
WERE	DEARING 138KV Capacitor Displacement	Dearing 138 kV 20 MVAR Capacitor Addition	6/1/2011	6/1/2011	\$ 124,924
WERE	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 Displacement	Rebuild 5.56-mile line, 954 ACSR	6/1/2012	6/1/2012	\$ 280,803
WERE	HUDSON JUNCTION - PITTSBURG 69KV CKT 1	Rebuild 1.41 miles	6/1/2017	6/1/2017	\$ 634,500
WERE	LITCHFIELD - AQUARIUS - HUDSON JUNCTION 69KV CKT 1 Displacement	Replace 69 kV disconnect switches at Aquarius.	6/1/2013	6/1/2013	\$ 131

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

Transmission Owner	Upgrade Solution		Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
		Rebuild 8.37 miles of 795 ACSR with 1590 ACSR & reset relays @		
AEPW	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	BSE	8/1/2009	6/1/2011
AEPW	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	Tie Line, Reconductor 1.09 miles of 795 ACSR with 1590 ACSR.	12/1/2009	6/1/2011
AEPW	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	Rebuild 13.11 miles of 795 ACSR with 1590 ACSR.	8/1/2009	6/1/2012
		Reconductor line with 1192 ACSS and upgrade terminal equipment		
	REDEL - STILWELL 161KV CKT 1	for 2000 amps	8/1/2009	6/1/2011
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	Tie Line, Rebuild 3.93 miles of 795 ACSR with 1590 ACSR.	12/1/2009	6/1/2011
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE #2	Replace Disconnect Switches, Wavetrap, Breaker, Jumpers	12/1/2009	6/1/2011
WERE	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	Replace bus and Jumpers at NE Parsons 138 kV substation	6/1/2010	6/1/2011
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement		8/1/2009	6/1/2011
WERE	TIMBER JCT 138 kV Capacitor	Install 30 MVAR Cap bank at new Timber Junction 138kV	12/1/2010	6/1/2011

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	ARSENAL HILL - NORTH MARKET 69KV CKT 1	Rebuild 2.3 miles of 666 ACSR with 1272 ACSR	6/1/2010	6/1/2011
AEPW	LOCUST GROVE - LONE STAR 115KV CKT 1	Rebuild 2.15 miles of 266 ACSR with 795 ACSR	6/1/2014	6/1/2014
EMDE	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1 EMDE	Replace Jumpers to breaker #6950 at Blackhawk Jct.	6/1/2015	6/1/2015
		Tear down the Riverton to Joplin 59 69 kV line, rebuilding the line to 161 kV from Stateline to outside Joplin 59 sub. Tear down and rebuild Joplin 59 to Gateway to Pillsbury to Reinmiller, converting those 69 kV		
EMDE	Multi - Stateline - Joplin - Reinmiller conversion	lines to 161 kV. Tap the 161 kV line betwe	6/1/2017	6/1/2017
EMDE	SUB 124 - AURORA H.T SUB 152 - MONETT H.T. 69KV CKT 1	Change CT Ratio on breaker #6936 at Aurora #124	8/1/2009	8/1/2009
EMDE	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	Replace Disconnect Switches and Leads on Breaker #6965 at Sub #64 and #6932 at Sub #145	6/1/2017	6/1/2017
EMDE	SUB 170 - NICHOLS ST SUB 80 - SEDALIA 69KV CKT 1	Reconductor line from Sub #80 to Sub #170 from 1/0 CU to 556 ACSR and replace Jumpers in Sub #80	6/1/2010	6/1/2012
EMDE	SUB 376 - MONETT CITY SOUTH 161/69/12.5KV TRANSFORMER CKT 1	Install 3-wind transformer from 161 kV new Sub MONETT 5 to Monett city south 69kV	6/1/2017	6/1/2017
EMDE	SUB 383 - MONETT - SUB 376 - MONETT CITY SOUTH 161KV CKT 1	Install new line from Sub #383 to new Sub MONETT 5	6/1/2017	6/1/2017
GRDA	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	Add a second 50 MVA Transformer at Afton Substation.	8/1/2009	6/1/2012
GRDA	CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	Replace existing transformer	8/1/2009	6/1/2011
GRDA	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	Replace existing transformer	8/1/2009	6/1/2011
GRDA	MAID - PRYOR FOUNDRY SOUTH 69KV CKT 1	Upgrade conductor size 795 ACSR	6/1/2014	6/1/2014
GRDA	MAID - REDDEN 69KV CKT 1	Upgrade conductor size 795 ACSR	6/1/2014	6/1/2014
GRDA	SALLISAW CAP BANK	Install cap bank	6/1/2013	6/1/2013
MIDW	KINSLEY 115KV Capacitor	Install 10MVAR capacitors at Kinsley 115 kV	12/1/2009	6/1/2011
MIPU	Loma Vista - Montrose 161kV Tap into K.C. South	To tap the Montrose-LomaVista 161 kV Line into KC South 161 kV sub.	8/1/2009	11/1/2010
MIPU	PLATTE CITY - SMITHVILLE 161KV CKT 1 #1	Increase the normal/emergency ratings to 233/265 MVA by replacing wave trapes	6/1/2010	12/1/2010
MIPU	South Harper 161 kV cut-in to Stilwell-Archie JCT 161 kV line	To tap Stilwell-Archie JCT 161 kV line into South Harper 161 kV sub and make it two new 161 kV sections: Stilwell-South Harper and Archie JCT- South Harper.	8/1/2009	10/1/2010
MKEC	PRATT - ST JOHN 115KV CKT 1	Rebuild and reconductor the St. John - Pratt 115 kV line	6/1/2017	6/1/2017

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

WERE	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 2	Add second Auburn 230-115 kV transformer.	8/1/2009	6/1/2013
	BISMARK JUNCTION SWITCHING STATION - FARMERS CONSUMER CO-OP			
WERE	115KV CKT 1	Rebuild 2.9 mi 115 kV line Bismark to COOP	6/1/2018	6/1/2018
		Tear down and rebuild 2.40 Chisholm - Ripley 69 kV with 1192.5		
WERE	CHISHOLM - RIPLEY 69KV CKT 1	ACSR	8/1/2009	6/1/2010
WERE	CIRCLE - HUTCHINSON GAS TURBINE STATION 115KV CKT 1	Rebuild Circle - HEC GT 115 kV line.	6/1/2010	6/1/2011
		Uprate JEC- E.Manhattan 230 kV line to 100 deg C operation by		
WERE	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	raising structures	8/1/2009	6/1/2012
		Tap the Concordia - East Manhattan 230kV line and add a new		
		substation"NW Manhattan"; Add a 230kV/115kV transformer and tap		
WERE	EAST MANHATTAN - NW MANHATTAN 230/115KV	the KSU - Wildcat 115kV line into NW Manhattan	8/1/2009	6/1/2012
		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		
WERE	East Manhattan to Mcdowell 230 kV	to convert this line.	8/1/2009	6/1/2011
WERE	KELLY - SOUTH SENECA 115KV CKT 1	Rebuild 10.28 mile line with 1192.5 kcmil ACSR and replace CTs.	8/1/2009	12/1/2010
WERE	Knob Hill - Steele City 115 kV	Building a new 115 kV tie with NPPD from Greenleaf to Clay Center	8/1/2009	6/1/2010
WERE	LAWRENCE HILL - MOCKINGBIRD HILL SWITCHING STATION 115KV CKT 1	Rebuild 5.49 mile line	6/1/2013	6/1/2013
		Rebuild 11.62-mile Jarbalo-NW Leavenworth 115 kV line and tap in &		
WERE	STRANGER CREEK - NW LEAVENWORTH 115KV	out of Stranger 115 kV	6/1/2010	6/1/2011
		Build 6.5-mile Summit-Southgate 115 kV, 1192.5 kcmil ACSR Tear		
WERE	Summit - NE Saline 115 kV	down Northview-South Gate 115 kV	8/1/2009	12/1/2009

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	ASHDOWN WEST - CRAIG JUNCTION 138KV CKT 1	Rebuild 2.45 miles of 795 ACSR with 1590 ACSR	6/1/2013	6/1/2013
AEPW	CARNEGIE - FORT COBB 138KV CKT 1	Reconductor 11.03 miles with 795 ACSR Carnegie -Fort Cobb	6/1/2017	6/1/2017
		Reconductor 26.15 miles with 795 ACSR from Carnegie-Hobart		
AEPW	CARNEGIE - HOBART JUNCTION 138KV CKT 1	Junction	6/1/2017	6/1/2017
		Rebuild 11.78 miles of 2-336 ACSR with 1590 ACSR and replace		
		Diana wavetrap & jumpers, Diana switch 10387, & reset CTs @ Lone		
AEPW	DIANA - LONE STAR SOUTH 138KV CKT 1	Star South & Diana	12/1/2009	6/1/2012
AEPW	ESQUANDALE JCT - WALTERS 69KV CKT 1 AEPW	Replace switches at Walters and reset CTs	6/1/2010	6/1/2011
		Reconductor 3.34 miles with 795 ACSR South West Station - Fort		
AEPW	FORT COBB - SOUTHWESTERN STATION 138KV CKT 1	Cobb	6/1/2017	6/1/2017
		Replace (3) 600 A switches with 1200 A switches replace and replace		
		transformer 130/143 MVA autotransformer also replace 500 Cu 69 kV		
AEPW	PRYOR JUNCTION (PRY-JCT1) 115/69/13.8KV TRANSFORMER CKT 1	jumpers and raise CT	6/1/2015	6/1/2015
AEPW	RIVERSIDE STATION - TULSA POWER STATION 138KV CKT 1	Rebuild 5.82 miles with 1272 ACSR	6/1/2011	6/1/2011
		Rebuild 2.06 miles of 2-397 ACSR with 2156 ACSR. Replace	0	
AEPW	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	wavetrap, switches, & jumpers @ AEP Siloam Springs.	6/1/2013	6/1/2013
AEPW	SOUTH NASHVILLE 138KV CAP BANK	Install 6 MVAR cap for a total of 12 Mvar at South Nashville	6/1/2013	6/1/2013
GRDA	CPP TRANSF #2 - CPP TRANSF #3 69KV CKT 1	Indeterminate	6/1/2018	6/1/2018
GRDA	CPP TRANSF #2 - PRYOR FOUNDRY SOUTH 69KV CKT 1	Replace 600A switch with 1200A switch	6/1/2016	6/1/2016
GRDA	MAID (MAIAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	Indeterminate	6/1/2018	6/1/2018
GRDA	MAID (MAIAUTO2) 161/69/13.8KV TRANSFORMER CKT 2	Indeterminate	6/1/2018	6/1/2018
MIDW	LYONS - WHEATLAND 115KV CKT 1 MIDW	Rebuild 98.5% ownership of 19.4 miles	6/1/2017	6/1/2017
MIPU	ADRIAN 161kV 20MVAR	adding a 20 Mvar capacitor bank at Adrian	8/1/2009	6/1/2011
NPPD	SPEARVILLE - KNOLL - AXTELL 345KV CKT 1*	Build a new 345kV line from Spearville - Knoll - Axtell	8/1/2009	6/1/2013
OKGE	3RDST - ARKOMA 161KV CKT 1	Replace 8-1200A switches & 2-wave traps.	6/1/2016	6/1/2016
OKGE	5 TRIBES - HANCOCK 161KV CKT 1	Replace 800A Wave Trap, increase Relay CTR to 1200-5A.	6/1/2017	6/1/2017
ONGE	5 TRIBES - HANCOCK INTRY CRT I	Reconductor 4.07 miles of line to 1590AS52 and replace 2-wave	0/1/2017	0/1/2017
OVOE	E TRIPEO DEGAN OREEK AGAIOLOKT A	traps, 1-161kV breaker, 3-switches @ Five Tribes & 5-switches,	0/4/0047	0/4/0047
OKGE	5 TRIBES - PECAN CREEK 161KV CKT 1	relaying @ Pecan Creek.	6/1/2017	6/1/2017
01/05	ADOADIA (ADOADIAS) SAF(ASS(ASSIGNATION) SECONDO SIGNATION SAF	Add 3rd 345/138KV Auto and convert the 345kV and 138kV to a	0/4/0047	0/4/0047
OKGE	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1	breaker and a half configuration.	6/1/2017	6/1/2017
		Add 3rd 345/138KV Auto and convert the 345kV and 138kV to a		
OKGE	ARCADIA (ARCADIA3) 345/138/13.8KV TRANSFORMER CKT 1	breaker and a half configuration.	6/1/2017	6/1/2017
OKGE	MCELROY - STILLWATER 138KV CKT 1	Reconductor 1.91 of 477AS33 to 795AS33	8/1/2009	6/1/2012
WERE	AQUARIUS - HUDSON JUNCTION 69KV CKT 1	Rebuild 0.72 miles	6/1/2018	6/1/2018
WERE	AQUARIUS - LITCHFIELD 69KV CKT 1	Rebuild 5.54 miles	6/1/2018	6/1/2018
	BPU - CITY OF MCPHERSON JOHNS-MANVILLE - EAST MCPHERSON			
WERE	SWITCHING STATION 115KV CKT 1	Rebuild Line	8/1/2009	6/1/2012
		Tear down and rebuild Gill - Waco with bundled 1192.5 ACSR		
WERE	GILL ENERGY CENTER WEST - WACO 138KV CKT 1	conductor	6/1/2010	6/1/2012
WERE	LYONS - WHEATLAND 115KV CKT 1 WERE	Rebuild 1.5% ownership of 19.4 miles	6/1/2017	6/1/2017
WERE	SEVENTEENTH () 138/69/11.295KV TRANSFORMER CKT 2	Install second 17th St. 138-69 kV transformer	8/1/2009	6/1/2012
		Tap Belle Plaine-Oxford 138 kV line, build a 3-breaker ring bus		
		switching station, build 12-mile 138 kV line from Sumner County 138	1	
		kV to Timber Junction 138 kV, and Install Timber Junction. 138-69 kV		
WERE	Sumner County to Timber Junction 138/69 kV	100 MVA transformer with LTC.	12/1/2010	6/1/2011
		Uprate TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV		
		CKT 1 to 100-degree C operation and uprate terminal equipment		
WERE	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	(236/250)	6/1/2013	6/1/2013
		Add 6 Mvar capacitor at Electra 69 kV bus for a total of 18 MVAR at		
WFEC	ELECTRA SW 69KV CAP BANK	this location	6/1/2018	6/1/2018
WFEC	ESQUANDALE JCT - WALTERS 69KV CKT 1 WFEC	Upgrade Walters to Essaquandale Jct 336.4 to 795ACSR	6/1/2010	6/1/2011

<sup>\*</sup>The Spearville-Knoll-Axtell 345kV Ckt 1 facility will be considered as a Balanced Portfolio project by the SPP BOD at their April 2009 meeting. If this line is approved, it will be considered a construction pending project and not assignable to 2007-AG3 customers.

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

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
		Replace six (6) 138 kV switches, five at Bann & one at Alumax Tap.		
		Rebuild 0.67 miles of 1024 ACAR with 2156 ACSR. Replace wavetrap		
AEPW	ALUMAX TAP - BANN 138KV CKT 1	& jumpers @ Bann. Replace breaker 3300 @ Bann.	6/1/2008	6/1/2008
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Vallient 345 KV line terminal	7/1/2012	7/1/2012
EMDE	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	Reconductor Oronogo 59467 to Riverton 59469 with Bundled 556 ACSR	6/1/2011	6/1/2011
KACP	LACYGNE - WEST GARDNER 345KV CKT 1	KCPL Sponsored Project to Reconductor Line to be In-Service by 6/1/2006	6/1/2006	6/1/2006
OKGE	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	Replace bus tie with 100MVA transformer	6/1/2006	6/1/2008
OKGE	NORTHWEST - WOODWARD 345KV CKT 1	Build 120 miles of 345 kV	1/1/2010	1/1/2010
OKGE	WOODWARD - WOODWARD EHV 138KV CKT 1	Build .5 miles of 138 kV and install terminal equipment	1/1/2010	1/1/2010
OKGE	WOODWARD - WOODWARD EHV 138KV CKT 2	Build .5 miles of 138 kV and install terminal equipment	1/1/2010	1/1/2010
OKGE	WOODWARD 345/138KV TRANSFORMER CKT 1	Install 345/138 kV XF	1/1/2010	1/1/2010
WERE	RENO 345/115KV CKT 1	New stepdown transformer at a new substation in Reno County east northeast of Hutchinson	6/1/2009	6/1/2009
WERE	RENO 345/115KV CKT 2	Install 2nd stepdown transformer at Reno County substation east northeast of Hutchinson	6/1/2010	6/1/2010
WERE	SUMMIT - RENO 345KV	Install new 50.55-mile 345 kV line from Reno county to Summit; 31 miles of 115 kV line between Circle and S Philips would be rebuilt as double circuit with the 345 kV line to minimize ROW impacts; Substation work required at Summit for new 345 kV terminal	6/1/2010	6/1/2010
WERE	WICHITA - RENO 345KV	40 mile 345 kV transmission line from existing Wichita 345 kV substation to a new 345-115 kV substation in Reno County east northeast of Hutchinson (Wichita to Reno)	6/1/2009	6/1/2009
WFEC	HUGO POWER PLANT - VALLIANT 345 KV WFEC	New 19 miles 345 KV	7/1/2012	7/1/2012
WFEC	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	New 345/138 kv Auto	7/1/2012	7/1/2012

Table 5 - Third Party Facility Constraints

Transmission Owner	UpgradeName	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AECI	4LUTHER 138.00 138/69KV TRANSFORMER CKT 1	replace transformer	8/1/2009	6/1/2012	\$2,000,000.00
AECI	HUBEN 345/161KV TRANSFORMER CKT 1	Install a second Huben 345/161kV transformer	6/1/2013	6/1/2013	\$6,500,000.00
CELE	COCODRIE 230/138KV TRANSFORMER CKT 1	Indeterminate	6/1/2010	6/1/2010	Indeterminate
		Replace bus at Bull Shoals. That should increase rating to 223			
SWPA	BULL SHOALS - BULL SHOALS HES 161KV CKT 1	MVA.	8/1/2009	6/1/2011	Indeterminate
SWPA	OZARK - VAN BUREN 161KV CKT 1	Replace terminal equipment	6/1/2010	6/1/2011	Indeterminate