



# Aggregate Facility Study SPP-2010-AGP1-AFS-7

10/28/2011

SPP Engineering, SPP Transmission Service Studies



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## Executive Summary

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Pursuant to Attachment Z1 of the Southwest Power Pool, Inc. (SPP) Open Access Transmission Tariff (OATT), 3212 MW of long-term transmission service requests have been studied in this Aggregate Facility Study (AFS). 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. A highly tangible benefit of studying transmission requests aggregately under the SPP OATT Attachment Z1 is the sharing of costs among Transmission Customers using the same facility. Facility upgrade costs are allocated on a prorated basis to all requests positively impacting any individual overloaded facility.

Attachment Z2 further provides for facility upgrade cost recovery by stating: “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 AFS determined that the total assigned facility upgrade Engineering and Construction (E&C) cost is \$24 Million. Additionally, an indeterminate amount of assigned E&C cost for third party facility upgrades are assignable to the customer.
- Total upgrade levelized revenue requirements for all transmission requests after consideration of potential base plan funding is \$400 Thousand.

To accommodate the requested SPP Transmission Service, third-party facilities must be upgraded when the third-party transmission provider determines that they are constrained. Third-party facilities 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 E&C cost estimates for required third-party facility upgrades are applicable.

SPP will tender a Letter of Intent on October 28, 2011. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), SPP must receive from the Customer by November 12, 2011, 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.

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## Introduction

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Important milestones and dates in SPP's Aggregate Transmission Study process:

- In 2005, the Federal Energy Regulatory Commission (FERC) accepted SPP's proposed Aggregate Transmission Study procedures in Docket ER05-109.
- In 2008, in Docket ER08-1379-000 SPP filed with FERC to pair open seasons closing during January 2010 with an effective date of August 9, 2008.
- In January 2010, in Docket ER10-659-000 SPP filed with FERC to extend its current practice of pairing open seasons through January 31, 2011, with an effective date of January 28, 2010.
- In March 2010, in Docket ER10-659-000 FERC issued a letter order accepting SPP's proposal to continue to pair open seasons through January 31, 2011, effective January 28, 2010.
- The 2010-AG1 open season commenced October 1, 2009 and closed January 31, 2010.
- The 2010-AG2 open season commenced February 1, 2010 and closed May 31, 2010.
- All requests for long-term transmission service with a signed study agreement received before February 1, 2010 for 2010-AG1 and June 1, 2010 for 2010-AG2 have been included in the first paired Aggregate Transmission Service Study (ATSS) of 2010.

Approximately 3212 MW of long-term Transmission Service was studied in this Aggregate Facility Study (AFS), and over \$24 million in transmission upgrades is proposed. The results of the AFS are detailed in Tables 1 through 6. Detailed results depict individual upgrade costs by study and potential base plan allowances determined by Attachments J and Z1. The [OATT](#) may be accessed at SPP's website by going to [SPP.org>Org Groups>Governing Documents](#).

To understand the extent to which Base Plan Upgrades may be applied to both Point-to-Point (PTP) 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.”

Network and PTP 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, PTP 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 because SPP, 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 deferral of expansion plan projects with different upgrades with the new required in service date as a result of this AFS.

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## Financial Analysis

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The AFS utilizes the allocated Customer's 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 accelerated, with no additional upgrades, to accommodate a new request for Transmission Service, 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 accelerated.

In the case of a Base Plan Upgrade being displaced or deferred by an earlier in service date for a requested upgrade, achievable base plan avoided revenue requirements shall be determined per Attachment J, Section VII.B methodology. A deferred Base Plan Upgrade is 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 is defined as the same Network Upgrade being displaced by a requested upgrade needed at an earlier date.

A 40-year service life assumption is utilized for Base Plan funded projects, unless another assumption is provided 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.

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## **Third-Party Facilities**

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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 E&C cost estimates for required third-party facility upgrades are applicable. 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 E&C 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 third party owner detailing the mitigation of the third 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 third party facilities for load that sinks outside the SPP footprint with the applicable Transmission Providers.

## Study Methodology

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### **Description**

The facility study 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 performed to ensure current SPP Criteria and NERC Reliability Standards requirements are fulfilled. SPP conforms to NERC Reliability Standards, which provide strict requirements related to voltage violations and thermal overloads during normal conditions and during a contingency. NERC Standards require all facilities to 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 Model Development Working Group (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 69 kV 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 (Ameren), and ENTR (Entergy) control areas. A 2 % TDF cutoff was applied to WAPA. 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.

### **Model Development**

SPP used five seasonal models to study the aggregate transfers of 3212 MW over a variety of requested service periods. The following SPP Transmission Expansion Plan 2010 Build 2 Cases were used to study the impact of the requested service on the transmission system:

- 2012 Summer Peak (12SP)
- 2012/13 Winter Peak (12WP)
- 2016 Summer Peak (16SP)
- 2016/17 Winter Peak (16WP)
- 2021 Summer Peak (21SP)

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 current modeling information. One group of requests was developed from the aggregate of 3212 MW to model the requested service. From the five seasonal models, two system scenarios were developed. Scenario 0 includes projected usage of transmission included in the SPP 2010 Series Cases. Scenario 5 includes all transmission not already included in the SPP 2010 Series Cases.

### **Transmission Request Modeling**

Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to Generation to Generation transfers. 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. 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.

### **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.

### **Curtailement and Redispatch Evaluation**

During any period in which SPP determines that a transmission constraint exists on and may impair Transmission System reliability, SPP will take whatever actions are reasonably necessary to maintain reliability. If SPP determines Transmission System reliability can be maintained by redispatching resources, it will evaluate the interim curtailement 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. Curtailement of existing confirmed service is evaluated to provide only interim service. Curtailement 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. Transmission Customers can request SPP to provide additional relief pairs beyond those determined. The potential relief pairs were not evaluated to determine impacts on limiting facilities in the SPP and first tier systems. The SPP Reliability Coordinator would call upon the redispatch requirements before implementing NERC TLR Level 5a.

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## Study Results

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### **Study Analysis Results**

Tables 1 through 6 contain the AFS steady-state analysis results. 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) and 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 the Customer but required for service to be confirmed, credits to be paid for previously assigned AFS or Generation Interconnection Network Upgrades, and any required third party upgrades.

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, 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 on meeting each of the conditions for classifying upgrades associated with designated resources as Base Plan Upgrades as defined in Section III.B of Attachment J. If the additional capacity of the new or changed Designated Resource exceeds the 125% resource to load forecast for the year of start of service, the requested resource is not eligible for base plan funding of required Network Upgrades and the full cost of the upgrades is assignable to the Customer.

If the request is for wind generation, the total requested capacity of wind generation plus existing wind generation capacity shall not exceed 20% of the customer's projected system peak responsibility in the first year the Designated Resource is planned to be used by the customer. If the five-year term and 125% resource to load criteria are met, (as well as the 20% wind resource to load criteria for wind generation requests) the requested capacity is multiplied by \$180,000 to determine the potential base plan funding allowable. The maximum potential base plan funding allowable may be less than the potential base plan funding allowable, due to the E&C cost allocated to the customer being lower than the potential amount allowable to the Customer. The Customer is responsible for any assigned upgrade costs in excess of potential base plan E&C funding allowable. Network Upgrades required for wind generation requests located in a zone other than the Customer POD shall be allocated as 67% base plan region-wide charge and 33% directly assigned to the Customer.

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

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

**Example A:**

E&C allocated for upgrades is \$74 million with revenue requirements of \$140 million and PTP base rate of \$101 million. Potential base plan funding is \$47 million, with the difference of \$27 million E&C assignable to the Customer. If the revenue requirements for the assignable portion is \$54 million and the PTP base rate is \$101 million, the Customer will pay the higher amount (so-called "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 \$86 million (\$140 million less \$54 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 amount of \$128 million revenue requirements to be paid back to the Transmission Owners, and the remaining revenue requirements of \$12 million (\$140 million less \$128 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 amount 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.

### **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.
- Total engineering and construction cost (E&C) is the upgrade solution cost as determined by the Transmission Owner.
- The Transmission Customer's allocation of the E&C cost is based on the request (1) having an impact of at least 3% on the limiting element, and (2) having a positive impact on the upgraded facility.
- Minimum ATC is the portion of the requested capacity that can be accommodated without 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.

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## Conclusion

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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 October 28, 2011. 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) by November 12, 2011, 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 E&C costs assigned to the Customer. This letter of credit is not required for those facilities that are fully base plan funded. The amount of the letter of credit will be adjusted down on an annual basis to reflect cost recovery based on revenue allocation. The Transmission Provider will issue notifications to construct Network Upgrades to the constructing Transmission Owner after filing of necessary service agreements at FERC.

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## Appendix A

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

#### BASE CASE SETTINGS:

- Solutions: Fixed slope decoupled Newton-Raphson solution (FDNS)
- Tap adjustment: Stepping
- Area Interchange Control: Tie lines and loads
- Var limits: Apply immediately
- Solution Options:
  - Phase shift adjustment
  - Flat start
  - Lock DC taps
  - Lock switched shunts

#### ACCC CASE SETTINGS:

- Solutions: AC contingency checking (ACCC)
- MW mismatch tolerance: 0.5
- System intact rating: Rate A
- Contingency case rating: Rate B
- Percent of rating: 100
- Output code: Summary
- Min flow change in overload report: 3mw
- Excl'd cases w/ no overloads from report: YES
- Exclude interfaces from report: NO
- Perform voltage limit check: YES
- Elements in available capacity table: 60000
- Cutoff threshold for available capacity table: 99999.0
- Min. contng. Case Vltg chng for report: 0.02
- Sorted output: None
- Newton Solution:
- Tap adjustment: Stepping
- Area interchange control: Tie lines and loads (Disabled for generator outages)
- Var limits: Apply immediately
- Solution options:
  - Phase shift adjustment
  - Flat start
  - Lock DC taps
  - Lock switched shunts

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

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date without interim redispach	Deferred Stop Date without interim redispach	Start Date with interim redispach	Stop Date with interim redispach	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period
AEPM	AG2-2010-039	74240998	CSWS	CLEC	20	1/1/2011	1/1/2016	3/1/2012	3/1/2017	3/1/2012	3/1/2017	0	11SP
AEPM	AG2-2010-040	74241004	CSWS	CLEC	20	1/1/2012	1/1/2017	3/1/2012	3/1/2017	3/1/2012	3/1/2017	0	11WP
AEPM	AG2-2010-041	74241007	CSWS	CLEC	20	1/1/2013	1/1/2018	1/1/2013	1/1/2018	1/1/2013	1/1/2018	0	12WP
AEPM	AG2-2010-042	74241231	CSWS	CLEC	20	1/1/2014	1/1/2019	1/1/2014	1/1/2019	1/1/2014	1/1/2019	0	21SP
AEPM	AG2-2010-044	74241256	CSWS	EES	65	1/1/2015	1/1/2020	1/1/2015	1/1/2020	1/1/2015	1/1/2020	0	16SP
AEPM	AG2-2010-045	74241265	CSWS	CLEC	116	1/1/2015	1/1/2020	1/1/2015	1/1/2020	1/1/2015	1/1/2020	0	16SP
CRGL	AG2-2010-049	74242418	OKGE	EES	101	7/1/2012	7/1/2032	7/1/2012	7/1/2032	7/1/2012	7/1/2032	101	12SP
CRGL	AG2-2010-050	74242429	OKGE	EES	101	7/1/2012	7/1/2032	7/1/2012	7/1/2032	7/1/2012	7/1/2032	101	12SP
CRGL	AG2-2010-063	74242546	SECI	EES	101	7/1/2013	7/1/2033	1/1/2015	1/1/2035	7/1/2013	7/1/2033	0	16WP
CRGL	AG2-2010-064	74242552	SECI	EES	101	7/1/2013	7/1/2033	1/1/2015	1/1/2035	7/1/2013	7/1/2033	0	16WP
CRGL	AG2-2010-065	74242553	SECI	EES	101	7/1/2013	7/1/2033	1/1/2015	1/1/2035	7/1/2013	7/1/2033	0	16WP
ETEC	AG2-2010-080	74243005	CSWS	CSWS	20	1/1/2011	1/1/2015	6/1/2013	6/1/2017	3/1/2012	3/1/2016	0	12SP
INDP	AG2-2010-069	74238214	MPS	INDN	50	6/1/2014	6/1/2019	6/1/2014	6/1/2019	Note 3	Note 3	50	21SP
INDP	AG2-2010-070	74238221	MPS	INDN	25	6/1/2014	6/1/2019	6/1/2014	6/1/2019	Note 3	Note 3	25	21SP
INDP	AG2-2010-071	74238224	MPS	INDN	25	6/1/2014	6/1/2019	6/1/2014	6/1/2019	Note 3	Note 3	25	21SP
KBPU	AG2-2010-035	74231191	WR	KACY	7	6/1/2012	6/1/2042	6/1/2015	6/1/2045	6/1/2012	6/1/2042	0	12SP
KCPS	AG2-2010-047	74047521	KCPL	EES	82	12/1/2010	12/1/2015	3/1/2012	3/1/2017	3/1/2012	3/1/2017	0	12WP
KCPS	AG2-2010-048	74213582	KCPL	AMRN	100	12/1/2010	12/1/2015	6/1/2015	6/1/2020	3/1/2012	3/1/2017	0	12WP
KEPC	AG2-2010-072	74241278	WR	WR	25	6/1/2011	6/1/2041	3/1/2012	3/1/2042	3/1/2012	3/1/2042	0	16SP
KEPC	AG2-2010-073	74241308	WR	WR	7	6/1/2011	6/1/2041	3/1/2012	3/1/2042	3/1/2012	3/1/2042	0	16SP
KEPC	AG2-2010-074	74241329	WR	WR	14	6/1/2011	6/1/2041	3/1/2012	3/1/2042	3/1/2012	3/1/2042	0	16SP
KEPC	AG2-2010-075	74241346	WR	WR	22	6/1/2011	6/1/2041	3/1/2012	3/1/2042	3/1/2012	3/1/2042	0	16SP
KPP	AG2-2010-034	74234218	MPS	WR	40	6/1/2014	6/1/2024	6/1/2015	6/1/2025	6/1/2014	6/1/2024	0	16SP
LESM	AG2-2010-018	74224888	NPPD	LES	10	1/1/2011	1/1/2016	1/1/2013	1/1/2018	3/1/2012	3/1/2017	0	12SP
MEAN	AG1-2010-001	73825723	NPPD	NPPD	35	1/1/2011	1/1/2041	6/1/2015	6/1/2045	3/1/2012	3/1/2042	0	16WP
MEAN	AG2-2010-032	74224890	NPPD	NPPD	8	1/1/2011	1/1/2016	1/1/2013	1/1/2018	3/1/2012	3/1/2017	0	12SP
MOWR	AG2-2010-036	74241299	MPS	AECI	25	6/1/2014	6/1/2024	6/1/2014	6/1/2024	Note 3	Note 3	0	16SP
MOWR	AG2-2010-037	74241300	MPS	AECI	50	6/1/2014	6/1/2024	6/1/2014	6/1/2024	Note 3	Note 3	0	16SP
NPPM	AG2-2010-031	74224947	NPPD	NPPD	1	1/1/2011	1/1/2016	3/1/2012	3/1/2017	3/1/2012	3/1/2017	0	12SP
NTEC	AG2-2010-082	74243113	CSWS	CSWS	29	1/1/2011	1/1/2015	6/1/2014	6/1/2018	3/1/2012	3/1/2016	0	12SP
OGE	AG2-2010-025	74032254	OKGE	OKGE	198	12/1/2011	12/1/2036	6/1/2015	6/1/2040	3/1/2012	3/1/2037	0	12SP
OGE	AG2-2010-026	74032269	OKGE	OKGE	30	12/1/2011	12/1/2036	6/1/2015	6/1/2040	3/1/2012	3/1/2037	0	12SP
OMPA	AG2-2010-038	74241908	OKGE	OKGE	8	11/1/2011	11/1/2021	3/1/2012	3/1/2022	3/1/2012	3/1/2022	0	12SP
OMPA	AG2-2010-046	74242052	WR	OKGE	9	1/1/2012	1/1/2014	3/1/2012	3/1/2014	3/1/2012	3/1/2014	0	12SP

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

SPSM	AG1-2010-004	73746432	SPS	SPS	10	7/1/2011	7/1/2031	3/1/2012	3/1/2032	3/1/2012	3/1/2032	0	21SP
SPSM	AG1-2010-005	73746434	SPS	SPS	10	7/1/2011	7/1/2031	3/1/2012	3/1/2032	3/1/2012	3/1/2032	0	21SP
SPSM	AG1-2010-006	73746435	SPS	SPS	10	7/1/2011	7/1/2031	3/1/2012	3/1/2032	3/1/2012	3/1/2032	0	21SP
SPSM	AG1-2010-007	73746438	SPS	SPS	10	7/1/2011	7/1/2031	3/1/2012	3/1/2032	3/1/2012	3/1/2032	0	21SP
SPSM	AG1-2010-008	73746440	SPS	SPS	10	7/1/2011	7/1/2031	6/1/2015	6/1/2035	3/1/2012	3/1/2032	0	21SP
SPSM	AG2-2010-004	74117914	BLKW	SPS	50	12/1/2010	1/1/2013	Note 4	Note 4	3/1/2012	4/1/2014	11	12SP
SPSM	AG2-2010-005	74117894	BLKW	SPS	50	12/1/2010	3/1/2012	Note 4	Note 4	3/1/2012	6/1/2013	11	12SP
SPSM	AG2-2010-006	74117909	BLKW	SPS	50	12/1/2010	1/1/2013	Note 4	Note 4	3/1/2012	4/1/2014	11	12SP
SPSM	AG2-2010-013	74227430	CSWS	SPS	100	6/1/2014	6/1/2019	6/1/2015	6/1/2020	6/1/2014	6/1/2019	0	16SP
SPSM	AG2-2010-014	74227435	CSWS	SPS	100	6/1/2014	6/1/2019	6/1/2015	6/1/2020	6/1/2014	6/1/2019	0	16SP
SPSM	AG2-2010-015	74227483	SPS	SPS	161	1/1/2012	1/1/2027	6/1/2015	6/1/2030	3/1/2012	3/1/2027	0	12SP
SPSM	AG2-2010-016	74229345	SPS	SPS	205	6/1/2012	6/1/2032	6/1/2015	6/1/2035	6/1/2012	6/1/2032	0	12WSP
SPSM	AG2-2010-017	74229525	SPS	SPS	205	6/1/2013	6/1/2033	6/1/2015	6/1/2035	6/1/2013	6/1/2033	0	21SP
TEXL	AG2-2010-081	74243045	CSWS	CSWS	30	1/1/2011	1/1/2015	6/1/2013	6/1/2017	3/1/2012	3/1/2016	0	12SP
TVAM	AG2-2010-010	73877198	SECI	AECI	165	1/1/2012	1/1/2017	1/1/2015	1/1/2020	Note 3	Note 3	0	12SP
WFEC	AG2-2010-023	74227938	WFEC	WFEC	260	3/1/2017	3/1/2042	3/1/2017	3/1/2042	Note 3	Note 3	0	21SP
WRGS	AG1-2010-003	73822803	SECI	WR	200	9/1/2012	9/1/2022	1/1/2015	1/1/2025	9/1/2012	9/1/2022	0	21SP

**Note 1:** Start and Stop Dates with interim redispach are determined based on customers choosing option to pursue redispach to start service at Requested Start and Stop Dates or earliest date possible.

**Note 2:** Start dates with and without redispach are based on the assumed completion dates of previous Aggregate Transmission Service Studies currently being conducted. Actual start dates may differ from the potential start dates upon completion of the previous studies.

**Note 3:** Transmission customer did not select "remain in the study using interim redispach" option.

**Note 4:** Request is unable to be deferred due to fixed stop dates.

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

Customer	Study Number	Reservation	Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	<sup>1</sup> Letter of Credit Amount Required	<sup>2</sup> Potential Base Plan Engineering and Construction Funding Allowable	Notes	<sup>4</sup> Additional Engineering and Construction Cost for 3rd Party Upgrades	<sup>3,5</sup> Total Revenue Requirements for Assigned Upgrades Over Term of Reservation WITH Potential Base Plan Funding Allocation	Point-to-Point Base Rate Over Reservation Period	<sup>4</sup> Total Cost of Reservation Assignable to Customer Contingent Upon Base Plan Funding
AEPM	AG2-2010-039	74240998	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
AEPM	AG2-2010-040	74241004	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
AEPM	AG2-2010-041	74241007	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
AEPM	AG2-2010-042	74241231	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
AEPM	AG2-2010-044	74241256	\$ 937,077	\$ -	\$ 937,077		Indeterminate	\$ -	\$ -	Schedule 9 & 11 Charges
AEPM	AG2-2010-045	74241265	\$ 1,662,923	\$ -	\$ 1,662,923		Indeterminate	\$ -	\$ -	Schedule 9 & 11 Charges
CRGL	AG2-2010-049	74242418	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 28,603,200	\$ 28,603,200
CRGL	AG2-2010-050	74242429	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 28,603,200	\$ 28,603,200
CRGL	AG2-2010-063	74242546	\$ 23,728	\$ 23,728	\$ -		\$ -	\$ 83,119	\$ 28,603,200	\$ 28,603,200
CRGL	AG2-2010-064	74242552	\$ 23,728	\$ 23,728	\$ -		\$ -	\$ 83,119	\$ 28,603,200	\$ 28,603,200
CRGL	AG2-2010-065	74242553	\$ 23,728	\$ 23,728	\$ -		\$ -	\$ 83,119	\$ 28,603,200	\$ 28,603,200
ETEC	AG2-2010-080	74243005	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
INDP	AG2-2010-069	74238214	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 2,544,000	\$ 2,544,000
INDP	AG2-2010-070	74238221	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 1,272,000	\$ 1,272,000
INDP	AG2-2010-071	74238224	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 1,272,000	\$ 1,272,000
KBPU	AG2-2010-035	74231191	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 2,136,960	\$ 2,136,960
KCPS	AG2-2010-047	74047521	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 5,805,600	\$ 5,805,600
KCPS	AG2-2010-048	74213582	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 5,088,000	\$ 5,088,000
KEPC	AG2-2010-072	74241278	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KEPC	AG2-2010-073	74241308	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KEPC	AG2-2010-074	74241329	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KEPC	AG2-2010-075	74241346	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
KPP	AG2-2010-034	74234218	\$ 3,000,000	\$ -	\$ 3,000,000		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
LESM	AG2-2010-018	74224888	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
MEAN	AG1-2010-001	73825723	\$ 5,645,881	\$ -	\$ 5,645,881		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
MEAN	AG2-2010-032	74224890	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
MOWR	AG2-2010-036	74241299	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ 2,544,000	\$ 2,544,000
MOWR	AG2-2010-037	74241300	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ 5,088,000	\$ 5,088,000
NPPM	AG2-2010-031	74224947	\$ -	\$ -	\$ -		\$ -	\$ -	\$ 85,837	\$ 85,837
NTEC	AG2-2010-082	74243113	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
OGE	AG2-2010-025	74032254	\$ 1,677,587	\$ -	\$ 1,677,587		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
OGE	AG2-2010-026	74032269	\$ 254,180	\$ -	\$ 254,180		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
OMPA	AG2-2010-038	74241908	\$ 53,294	\$ -	\$ 53,294		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges
OMPA	AG2-2010-046	74242052	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	Schedule 9 & 11 Charges

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

SPSM	AG1-2010-004	73746432	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
SPSM	AG1-2010-005	73746434	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
SPSM	AG1-2010-006	73746435	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
SPSM	AG1-2010-007	73746438	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
SPSM	AG1-2010-008	73746440	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
SPSM	AG2-2010-004	74117914	\$	-	\$	-	\$	-	\$	-	\$	-	\$	2,255,000	\$ 2,255,000
SPSM	AG2-2010-005	74117894	\$	-	\$	-	\$	-	\$	-	\$	-	\$	1,353,000	\$ 1,353,000
SPSM	AG2-2010-006	74117909	\$	-	\$	-	\$	-	\$	-	\$	-	\$	2,255,000	\$ 2,255,000
SPSM	AG2-2010-013	74227430	\$	27,072	\$	-	\$	27,072	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
SPSM	AG2-2010-014	74227435	\$	27,072	\$	-	\$	27,072	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
SPSM	AG2-2010-015	74227483	\$	32,708	\$	-	\$	32,708	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
SPSM	AG2-2010-016	74229345	\$	206,574	\$	-	\$	206,574	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
SPSM	AG2-2010-017	74229525	\$	206,574	\$	-	\$	206,574	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
TEXL	AG2-2010-081	74243045	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
TVAM	AG2-2010-010	73877198	\$	42,590	\$	42,590	\$	-	\$	-	\$	97,667	\$	8,395,200	\$ 8,395,200
WFEC	AG2-2010-023	74227938	\$	9,785,984	\$	-	\$	9,785,984	\$	-	\$	-	\$	-	Schedule 9 & 11 Charges
WRGS	AG1-2010-003	73822803	\$	111,225	\$	36,704	\$	74,521	\$	-	\$	83,228	\$	-	\$ 83,228
<b>Grand Total</b>			\$	<b>23,741,925</b>	\$		\$	<b>23,591,447</b>	\$		\$	<b>430,252</b>	\$		

**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 required for upgrades assigned to PTP requests. The amount of the letter of credit will be adjusted down on an annual basis to reflect cost recovery based on revenue allocation. This letter of credit is not required for those facilities that are fully base plan funded. 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.

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

Customer Study Number  
 AEPM AG2-2010-039

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	74240998	CSWS	CLEC	20	1/1/2011	1/1/2016	3/1/2012	3/1/2017	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74240998	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74240998	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

\*Credits may be required for applicable generation interconnection network upgrades.

Assignment and cost allocation of Network Upgrades with a Date Upgrade Needed from 6/1/2013 and earlier than the respective reservation End of Term are included in mutually exclusive reservation 74241265.

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

Customer Study Number  
 AEPM AG2-2010-040

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	74241004	CSWS	CLEC	20	1/1/2012	1/1/2017	3/1/2012	3/1/2017	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241004	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241004	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

\*Credits may be required for applicable generation interconnection network upgrades.

Assignment and cost allocation of Network Upgrades with a Date Upgrade Needed from 6/1/2013 and earlier than the respective reservation End of Term are included in mutually exclusive reservation 74241265.

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

Customer Study Number  
 AEPM AG2-2010-041

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	74241007	CSWS	CLEC	20	1/1/2013	1/1/2018			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241007	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 AEPM AG2-2010-042

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	74241231	CSWS	CLEC	20	1/1/2014	1/1/2019			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241231	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

\*Credits may be required for applicable generation interconnection network upgrades.  
 Assignment and cost allocation of Network Upgrades with a Date Upgrade Needed from 6/1/2013 and earlier than the respective reservation End of Term are included in mutually exclusive reservation 74241265.

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

Customer Study Number  
 AEPM AG2-2010-044

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	74241256	CSWS	EES	65	1/1/2015	1/1/2020			\$ 937,077	\$ -	\$ 937,077	\$ 1,173,849
									\$ 937,077	\$ -	\$ 937,077	\$ 1,173,849

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241256	CEDARGROVE - SOUTH SHREVEPORT 138KV CKT 1	6/1/2017	6/1/2017			\$ 937,077	\$ 2,600,000	\$ 1,173,849
					Total	\$ 937,077	\$ 2,600,000	\$ 1,173,849

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241256	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	6/1/2015	6/1/2015		
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2013		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	APACHE CO SUB - PARADISE 138KV CKT 1	6/1/2010	6/1/2013		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 OKGE	1/1/2012	1/1/2012		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 WFEC	1/1/2012	1/1/2012		
	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2013	6/1/2013		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SAWYER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	SE TEXARKANA - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SUB 110 - ORONOJO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUGAR HILL - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
AEPM AG2-2010-045

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	74241265	CSWS	CLEC	116	1/1/2015	1/1/2020			\$ 1,662,923	\$ -	\$ 1,662,923	\$ 2,083,094
									\$ 1,662,923	\$ -	\$ 1,662,923	\$ 2,083,094

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241265	CEDARGROVE - SOUTH SHREVEPORT 138KV CKT 1	6/1/2017	6/1/2017			\$ 1,662,923	\$ 2,600,000	\$ 2,083,094
Total						\$ 1,662,923	\$ 2,600,000	\$ 2,083,094

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241265	ALTUS SW - NAVAJO 69KV CKT 1	6/1/2013	6/1/2013		
	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008		
	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	7/1/2012	7/1/2012		
	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	7/1/2012	7/1/2012		
	BANN - RED SPRINGS REC 138KV CKT 1	7/1/2012	7/1/2012		
	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	6/1/2015	6/1/2015		
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2013		
	DEARING 138KV Capacitor	6/1/2012	6/1/2012		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	APACHE CO SUB - PARADISE 138KV CKT 1	6/1/2010	6/1/2013		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 OKGE	1/1/2012	1/1/2012		
	GRACMNT4 138.00 - WASHITA 138KV CKT 2 WFEC	1/1/2012	1/1/2012		
	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2013	6/1/2013		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	HUGO POWER PLANT 345/138KV TRANSFORMER CKT 1	7/1/2012	7/1/2012		
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	OKAY - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SAWYER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		
	SE TEXARKANA - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	SUGAR HILL - TURK 138KV CKT 1	7/1/2012	7/1/2012		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	**Total E & C Cost
74241265	3GRENWD - HUMPHREY 115KV CKT 1 LAGN	6/1/2017	6/1/2017			61.43%	100.00%
	3GRENWD - TERREBONNE 115KV CKT 1 EES	1/1/2015	1/1/2015			61.52%	100.00%
	3GRENWD - TERREBONNE 115KV CKT 1 LAGN	1/1/2015	1/1/2015			61.52%	100.00%
	GRIMES - MT. ZION 138KV CKT 1	6/1/2017	6/1/2017			63.31%	100.00%
	LINE 558 TAP - MT. ZION 138KV CKT 1	6/1/2017	6/1/2017			63.31%	100.00%
Total						\$ -	\$ -

\*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

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

Customer Study Number  
CRGL AG2-2010-049

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CRGL	74242418	OKGE	EES	101	7/1/2012	7/1/2032			\$ -	\$ 28,603,200	\$ -	\$ -
									\$ -	\$ 28,603,200	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74242418	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74242418	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		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
CRGL AG2-2010-050

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CRGL	74242429	OKGE	EES	101	7/1/2012	7/1/2032			\$ -	\$ 28,603,200	\$ -	\$ -
									\$ -	\$ 28,603,200	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74242429	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74242429	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		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
CRGL AG2-2010-063

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CRGL	74242546	SECI	EES	101	7/1/2013	7/1/2033	1/1/2015	1/1/2035	\$ -	\$ 28,603,200	\$ 23,728	\$ 83,119
									\$ -	\$ 28,603,200	\$ 23,728	\$ 83,119

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74242546	HARPER - MILAN TAP 138KV CKT 1	10/1/2012	6/1/2013			\$ 23,728	\$ 225,000	\$ 83,119
Total						\$ 23,728	\$ 225,000	\$ 83,119

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74242546	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		Yes
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		Yes
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		Yes
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		Yes
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment 22 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74242546	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		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
CRGL AG2-2010-064

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CRGL	74242552	SECI	EES	101	7/1/2013	7/1/2033	1/1/2015	1/1/2035	\$ -	\$ 28,603,200	\$ 23,728	\$ 83,119
									\$ -	\$ 28,603,200	\$ 23,728	\$ 83,119

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74242552	HARPER - MILAN TAP 138KV CKT 1	10/1/2012	6/1/2013			\$ 23,728	\$ 225,000	\$ 83,119
					Total	\$ 23,728	\$ 225,000	\$ 83,119

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74242552	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		Yes
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		Yes
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		Yes
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		Yes
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment 22 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74242552	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		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
CRGL AG2-2010-065

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
CRGL	74242553	SECI	EES	101	7/1/2013	7/1/2033	1/1/2015	1/1/2035	\$ -	\$ 28,603,200	\$ 23,728	\$ 83,119
									\$ -	\$ 28,603,200	\$ 23,728	\$ 83,119

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74242553	HARPER - MILAN TAP 138KV CKT 1	10/1/2012	6/1/2013			\$ 23,728	\$ 225,000	\$ 83,119
Total						\$ 23,728	\$ 225,000	\$ 83,119

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74242553	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		Yes
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		Yes
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		Yes
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		Yes
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment 22 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74242553	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		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 ETEC AG2-2010-080

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
ETEC	74243005	CSWS	CSWS	20	1/1/2011	1/1/2015	6/1/2013	6/1/2017	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74243005	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74243005	DIANA - PERDUE 138KV CKT 1 #1	6/1/2012	6/1/2014		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74243005	TEXAS EASTMAN - WHITNEY 138KV CKT 1	6/1/2012	6/1/2013		Yes

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 INDP AG2-2010-069

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
INDP	74238214	MPS	INDN	50	6/1/2014	6/1/2019			\$ -	\$ 2,544,000	\$ -	\$ -
									\$ -	\$ 2,544,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74238214	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 INDP AG2-2010-070

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
INDP	74238221	MPS	INDN	25	6/1/2014	6/1/2019			\$ -	\$ 1,272,000	\$ -	\$ -
									\$ -	\$ 1,272,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74238221	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 INDP AG2-2010-071

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
INDP	74238224	MPS	INDN	25	6/1/2014	6/1/2019			\$ -	\$ 1,272,000	\$ -	\$ -
									\$ -	\$ 1,272,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74238224	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
KBPU AG2-2010-035

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KBPU	74231191	WR	KACY	7	6/1/2012	6/1/2042	6/1/2015	6/1/2045	\$ -	\$ 2,136,960	\$ -	\$ -
									\$ -	\$ 2,136,960	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74231191	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74231191	87th Street Interconnection	6/1/2012	6/1/2013		
	IATAN - NASHUA 345KV CKT 1	6/1/2012	6/1/2015		Yes

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 KCPS AG2-2010-047

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	74047521	KCPL	EES	82	12/1/2010	12/1/2015	3/1/2012	3/1/2017	\$ -	\$ 5,805,600	\$ -	\$ -
									\$ -	\$ 5,805,600	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74047521	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74047521	IATAN - NASHUA 345KV CKT 1	6/1/2012	6/1/2015		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74047521	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		
	MCNAB REC - TURK 115KV CKT 1	7/1/2012	7/1/2012		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 KCPS AG2-2010-048

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	74213582	KCPL	AMRN	100	12/1/2010	12/1/2015	6/1/2015	6/1/2020	\$ -	\$ 5,088,000	\$ -	\$ -
									\$ -	\$ 5,088,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74213582	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74213582	IATAN - NASHUA 345KV CKT 1	6/1/2012	6/1/2015		Yes

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 KEPC AG2-2010-072

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KEPC	74241278	WR	WR	25	6/1/2011	6/1/2041	3/1/2012	3/1/2042	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241278	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241278	FLETCHER - HOLCOMB 115KV CKT 1	6/1/2013	6/1/2013		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241278	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 KEPC AG2-2010-073

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KEPC	74241308	WR	WR	7	6/1/2011	6/1/2041	3/1/2012	3/1/2042	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241308	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241308	FLETCHER - HOLCOMB 115KV CKT 1	6/1/2013	6/1/2013		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241308	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
KEPC AG2-2010-074

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KEPC	74241329	WR	WR	14	6/1/2011	6/1/2041	3/1/2012	3/1/2042	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241329	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241329	FLETCHER - HOLCOMB 115KV CKT 1	6/1/2013	6/1/2013		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241329	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 KEPC AG2-2010-075

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KEPC	74241346	WR	WR	22	6/1/2011	6/1/2041	3/1/2012	3/1/2042	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241346	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241346	FLETCHER - HOLCOMB 115KV CKT 1	6/1/2013	6/1/2013		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241346	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
KPP AG2-2010-034

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KPP	74234218	MPS	WR	40	6/1/2014	6/1/2024	6/1/2015	6/1/2025	\$ 3,000,000	\$ -	\$ 3,000,000	\$ 6,302,950
									\$ 3,000,000	\$ -	\$ 3,000,000	\$ 6,302,950

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74234218	EL PASO - FARBER 138KV CKT 1	6/1/2014	6/1/2015		Yes	\$ 3,000,000	\$ 3,000,000	\$ 6,302,950
					Total	\$ 3,000,000	\$ 3,000,000	\$ 6,302,950

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74234218	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74234218	CRESWELL - OAK 69KV CKT 1	6/1/2014	6/1/2014	6/1/2013	

Planned Projects

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74234218	BELL - PECK 69KV CKT 1	6/1/2014	6/1/2014	12/1/2012	
	BELL - SUMNER COUNTY NO. 3 MILLER 69KV CKT 1	6/1/2014	6/1/2014		
	CITY OF WELLINGTON - SUMNER COUNTY NO. 3 MILLER 69KV CKT 1	6/1/2014	6/1/2014		
	CITY OF WELLINGTON - SUMNER COUNTY NO. 4 ROME 69KV CKT 1	6/1/2014	6/1/2014		
	CITY OF WINFIELD - TIMBER JUNCTION 69KV CKT 1	6/1/2014	6/1/2014	6/1/2011	
	CRESWELL - SUMNER COUNTY NO. 4 ROME 69KV CKT 1	6/1/2014	6/1/2014		
	RICHLAND - UDALL 69KV CKT 1	6/1/2014	6/1/2014	12/1/2011	
	TIMBER JUNCTION - UDALL 69KV CKT 1	6/1/2014	6/1/2014	12/1/2011	

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74234218	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	MEDICINE LODGE - SAWYER 115KV CKT 1	12/1/2009	6/1/2013		
	SAWYER - PRATT 115KV CKT 1	12/1/2009	6/1/2013		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
LESM AG2-2010-018

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
LESM	74224888	NPPD	LES	10	1/1/2011	1/1/2016	1/1/2013	1/1/2018	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74224888	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74224888	ALBION - PETERSBURG 115KV CKT 1	6/1/2012	1/1/2013		Yes
	NELIGH - PETERSBURG 115KV CKT 1	6/1/2012	1/1/2013		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74224888	ALBION - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 MEAN AG1-2010-001

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MEAN	73825723	NPPD	NPPD	35	1/1/2011	1/1/2041	6/1/2015	6/1/2045	\$ 5,645,881	\$ -	\$ 5,645,881	\$ 19,260,538
									\$ 5,645,881	\$ -	\$ 5,645,881	\$ 19,260,538

  

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
73825723	VICTORY HILL (VICTORYHL T1) 230/115/13.8KV TRANSFORMER CKT 1	12/1/2016	12/1/2016			\$ 5,645,881	\$ 5,645,881	\$ 19,260,538
					Total	\$ 5,645,881	\$ 5,645,881	\$ 19,260,538

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 MEAN AG2-2010-032

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MEAN	74224890	NPPD	NPPD	8	1/1/2011	1/1/2016	1/1/2013	1/1/2018	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74224890	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74224890	ALBION - PETERSBURG 115KV CKT 1	6/1/2012	1/1/2013		Yes
	NELIGH - PETERSBURG 115KV CKT 1	6/1/2012	1/1/2013		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74224890	ALBION - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2013		
	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2013	6/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
MOWR AG2-2010-036

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MOWR	74241299	MPS	AECI	25	6/1/2014	6/1/2024			\$ -	\$ 2,544,000	\$ -	\$ -
									\$ -	\$ 2,544,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241299	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
74241299	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014			33.33%	100.00%
Total						\$ -	\$ -

\*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
MOWR AG2-2010-037

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MOWR	74241300	MPS	AECI	50	6/1/2014	6/1/2024			\$ -	\$ 5,088,000	\$ -	\$ -
									\$ -	\$ 5,088,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241300	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

Third Party Limitations.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	*Allocated E & C Cost	*Total E & C Cost
74241300	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	6/1/2014	6/1/2014			66.67%	100.00%
Total						\$ -	\$ -

\*Estimated cost allocation as a percentage of total cost is shown for third-party limitations when costs have not yet been established by the third-party.  
\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
NPPM AG2-2010-031

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
NPPM	74224947	NPPD	NPPD	1	1/1/2011	1/1/2016	3/1/2012	3/1/2017	\$ -	\$ 85,837	\$ -	\$ -
									\$ -	\$ 85,837	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74224947	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74224947	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74224947	ALBION - PETERSBURG 115KV CKT 1	6/1/2012	1/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	6/1/2012	1/1/2013		

Credits may be required for the following Network Upgrades in accordance with Attachment 22 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74224947	ALBION - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		
	NELIGH - PETERSBURG 115KV CKT 1	1/1/2013	1/1/2013		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
NTEC AG2-2010-082

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
NTEC	74243113	CSWS	CSWS	29	1/1/2011	1/1/2015	6/1/2014	6/1/2018	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74243113	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74243113	DIANA - PERDUE 138KV CKT 1 #1	6/1/2012	6/1/2014		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74243113	SOUTHWEST SHREVEPORT - SPRINGRIDGE PAN-HARR REC 138KV CKT 1	6/1/2012	6/1/2013		
	TEXAS EASTMAN - WHITNEY 138KV CKT 1	6/1/2012	6/1/2013		Yes

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 OGE AG2-2010-025

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OGE	74032254	OKGE	OKGE	198	12/1/2011	12/1/2036	6/1/2015	6/1/2040	\$ 1,677,587	\$ -	\$ 1,677,587	\$ 6,086,420
									\$ 1,677,587	\$ -	\$ 1,677,587	\$ 6,086,420

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74032254	EL RENO - SERVICE PL EL RENO 69KV CKT 1	6/1/2017	6/1/2017			\$ 202,457	\$ -	\$ 202,457	\$ 250,000	\$ 641,016
	NORTHWEST 345/138/13.8KV TRANSFORMER CKT 3 Accelerated	6/1/2012	6/1/2015		Yes	\$ 1,475,130	\$ -	\$ 1,475,130	\$ 2,271,045	\$ 5,445,403
	<b>Total</b>					\$ 1,677,587	\$ -	\$ 1,677,587	\$ 2,521,045	\$ 6,086,420

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74032254	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		Yes
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		Yes
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74032254	CANTON - TALOGA 69KV CKT 1	6/1/2012	6/1/2013		Yes
	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1	6/1/2012	6/1/2013		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74032254	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 OGE AG2-2010-026

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OGE	74032269	OKGE	OKGE	30	12/1/2011	12/1/2036	6/1/2015	6/1/2040	\$ 254,180	\$ -	\$ 254,180	\$ 922,186
									\$ 254,180	\$ -	\$ 254,180	\$ 922,186

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74032269	EL RENO - SERVICE PL EL RENO 69KV CKT 1	6/1/2017	6/1/2017			\$ 30,675	\$ -	\$ 30,675	\$ 250,000	\$ 97,123
	NORTHWEST 345/138/13.8KV TRANSFORMER CKT 3 Accelerated	6/1/2012	6/1/2015		Yes	\$ 223,505	\$ -	\$ 223,505	\$ 2,271,045	\$ 825,063
					Total	\$ 254,180	\$ -	\$ 254,180	\$ 2,521,045	\$ 922,186

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74032269	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		Yes
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		Yes
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74032269	CANTON - TALOGA 69KV CKT 1	6/1/2012	6/1/2013		Yes
	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1	6/1/2012	6/1/2013		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74032269	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - IODINE 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 1	1/1/2010	1/1/2010		
	WOODWARD - WOODWARD EHV 138KV CKT 2	1/1/2010	1/1/2010		
	WOODWARD 345/138KV TRANSFORMER CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 OMPA AG2-2010-038

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OMPA	74241908	OKGE	OKGE	8	11/1/2011	11/1/2021	3/1/2012	3/1/2022	\$ 53,294	\$ -	\$ 53,294	\$ 113,166
									\$ 53,294	\$ -	\$ 53,294	\$ 113,166

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74241908	EL RENO - SERVICE PL EL RENO 69KV CKT 1	6/1/2017	6/1/2017			\$ 16,868	\$ 250,000	\$ 32,170
	NORTHWEST 345/138/13.8KV TRANSFORMER CKT 3 Accelerated	6/1/2012	6/1/2015			\$ 36,426	\$ 2,271,045	\$ 80,996
Total						\$ 53,294	\$ 2,521,045	\$ 113,166

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241908	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241908	OMGONTER 69.000 - OMNEASTT 69KV CKT 1	6/1/2017	6/1/2017		
	OMHUFFYT - OMMORANT 69KV CKT 1	6/1/2017	6/1/2017		
	OMHUFFYT - OMPA-PONCA CITY 69KV CKT 1	6/1/2017	6/1/2017		
	OMKAWS - OMPECANT 69KV CKT 1	6/1/2017	6/1/2017		
	OMMORANT - OSAGE 69KV CKT 1	6/1/2017	6/1/2017		
	OMNEASTT - OMNWESTT 69KV CKT 1	6/1/2017	6/1/2017		
	OMNWESTT - OMPA-PONCA CITY 69KV CKT 1	6/1/2017	6/1/2017		
	OMPECANT - OMWW 69.000 69KV CKT 1	6/1/2017	6/1/2017		
	OMWW 69.000 - OSAGE 69KV CKT 1	6/1/2017	6/1/2017		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74241908	BELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	CANTON - TALOGA 69KV CKT 1	6/1/2011	6/1/2013		
	CHERRY6 230.00 - Harrington Station East Bus 230KV CKT 1	6/1/2015	6/1/2015		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	FT SUPPLY 138/69KV TRANSFORMER CKT 1	12/1/2006	6/1/2008		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	7/1/2012	7/1/2012		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	7/1/2012	7/1/2012		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1	10/1/2010	6/1/2013		
	TATONGA - 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		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 OMPA AG2-2010-046

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OMPA	74242052	WR	OKGE	9	1/1/2012	1/1/2014	3/1/2012	3/1/2014	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74242052	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74242052	IATAN - NASHUA 345KV CKT 1	6/1/2012	6/1/2015		
	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG1-2010-004

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	73746432	SPS	SPS	10	7/1/2011	7/1/2031	3/1/2012	3/1/2032	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
73746432	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73746432	Line - Osage Station and Line Re-termination	6/1/2017	6/1/2017		
	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer      Study Number  
 SPSM          AG1-2010-005

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	73746434	SPS	SPS	10	7/1/2011	7/1/2031	3/1/2012	3/1/2032	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
73746434	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73746434	Line - Osage Station and Line Re-termination	6/1/2017	6/1/2017		
	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG1-2010-006

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	73746435	SPS	SPS	10	7/1/2011	7/1/2031	3/1/2012	3/1/2032	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
73746435	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73746435	Line - Osage Station and Line Re-termination	6/1/2017	6/1/2017		
	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		
	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1	6/1/2017	6/1/2017		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG1-2010-007

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	73746438	SPS	SPS	10	7/1/2011	7/1/2031	3/1/2012	3/1/2032	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
73746438	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73746438	Line - Osage Station and Line Re-termination	6/1/2017	6/1/2017		
	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		
	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1	6/1/2017	6/1/2017		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG1-2010-008

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	73746440	SPS	SPS	10	7/1/2011	7/1/2031	6/1/2015	6/1/2035	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
73746440	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73746440	Line - Osage Station and Line Re-termination	6/1/2017	6/1/2017		
	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		Yes
	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1	6/1/2017	6/1/2017		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG2-2010-004

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	74117914	BLKW	SPS	50	12/1/2010	1/1/2013	6/1/2015	7/1/2017	\$ -	\$ 2,255,000	\$ -	\$ -
									\$ -	\$ 2,255,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74117914	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74117914	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		Yes
	PLESANT HILL - ROOSEVELT 230KV CKT 1	6/1/2012	6/1/2013		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74117914	ALTUS SW - NAVAJO 69KV CKT 1	6/1/2013	6/1/2013		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	G03-05T 138.00 - PARADISE 138KV CKT 1	6/1/2010	6/1/2013		
	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 - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG2-2010-005

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	74117894	BLKW	SPS	50	12/1/2010	3/1/2012	6/1/2015	9/1/2016	\$ -	\$ 1,353,000	\$ -	\$ -
									\$ -	\$ 1,353,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74117894	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74117894	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		Yes
	PLESANT HILL - ROOSEVELT 230KV CKT 1	6/1/2012	6/1/2013		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74117894	G03-05T 138.00 - PARADISE 138KV CKT 1	6/1/2010	6/1/2013		
	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 - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG2-2010-006

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	74117909	BLKW	SPS	50	12/1/2010	1/1/2013	6/1/2015	7/1/2017	\$ -	\$ 2,255,000	\$ -	\$ -
									\$ -	\$ 2,255,000	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74117909	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74117909	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		Yes
	PLESANT HILL - ROOSEVELT 230KV CKT 1	6/1/2012	6/1/2013		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74117909	ALTUS SW - NAVAJO 69KV CKT 1	6/1/2013	6/1/2013		
	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	12/1/2009	6/1/2013		
	G03-05T 138.00 - PARADISE 138KV CKT 1	6/1/2010	6/1/2013		
	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 - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG2-2010-013

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	74227430	CSWS	SPS	100	6/1/2014	6/1/2019	6/1/2015	6/1/2020	\$ 27,072	\$ -	\$ 27,072	\$ 54,045
									\$ 27,072	\$ -	\$ 27,072	\$ 54,045

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74227430	Jones Station Bus#2 - LUBBOCK SOUTH INTERCHANGE 230KV CKT 2	6/1/2013	6/1/2013			\$ 27,072	\$ 500,000	\$ 54,045
Total						\$ 27,072	\$ 500,000	\$ 54,045

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74227430	Line - Comanche County - Medicine Lodge 345 kv dbl ckt	6/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kv dbl ckt OKGE	6/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kv dbl ckt SPS	6/1/2012	7/1/2014		
	Line - Medicine Lodge - Wichita 345 kv dbl ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Wichita 345 kv dbl ckt WERE	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbl Ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbl Ckt OKGE	6/1/2012	1/1/2015		
	Line - Osage Station and Line Re-termination	6/1/2017	6/1/2017		
	Line - Spearville - Comanche County 345 kv dbl ckt MKEC	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbl ckt SUNC	6/1/2012	1/1/2015		
	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		Yes
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74227430	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		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG2-2010-014

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	74227435	CSWS	SPS	100	6/1/2014	6/1/2019	6/1/2015	6/1/2020	\$ 27,072	\$ -	\$ 27,072	\$ 54,045
									\$ 27,072	\$ -	\$ 27,072	\$ 54,045

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74227435	Jones Station Bus#2 - LUBBOCK SOUTH INTERCHANGE 230KV CKT 2	6/1/2013	6/1/2013			\$ 27,072	\$ 500,000	\$ 54,045
Total						\$ 27,072	\$ 500,000	\$ 54,045

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74227435	Line - Comanche County - Medicine Lodge 345 kv dbl ckt	6/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kv dbl ckt OKGE	6/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kv dbl ckt SPS	6/1/2012	7/1/2014		Yes
	Line - Medicine Lodge - Wichita 345 kv dbl ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Wichita 345 kv dbl ckt WERE	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbl Ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbl Ckt OKGE	6/1/2012	1/1/2015		Yes
	Line - Osage Station and Line Re-termination	6/1/2017	6/1/2017		
	Line - Spearville - Comanche County 345 kv dbl ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbl ckt SUNC	6/1/2012	1/1/2015		Yes
	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		Yes
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		Yes
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		Yes
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74227435	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		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG2-2010-015

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	74227483	SPS	SPS	161	1/1/2012	1/1/2027	6/1/2015	6/1/2030	\$ 32,708	-	\$ 32,708	\$ 77,309
									\$ 32,708	-	\$ 32,708	\$ 77,309

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74227483	Jones Station Bus#2 - LUBBOCK SOUTH INTERCHANGE 230KV CKT 2	6/1/2013	6/1/2013			\$ 32,708	\$ -	\$ 32,708	\$ 500,000	\$ 77,309
	Total					\$ 32,708	\$ -	\$ 32,708	\$ 500,000	\$ 77,309

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74227483	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		Yes
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		Yes
	Line - Osage Station and Line Re-termination	6/1/2017	6/1/2017		
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		Yes
	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		Yes
	PLESANT HILL - ROOSEVELT 230KV CKT 1	6/1/2012	6/1/2013		Yes
	SWISHER COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2016	6/1/2016		
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		Yes
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		Yes
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74227483	CHAVES COUNTY INTERCHANGE - SAMSON SUB 115KV CKT 1	6/1/2021	6/1/2021		
	CHAVES COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 2	6/1/2020	6/1/2020		
	DEAF SMITH COUNTY INTERCHANGE (GE M101353) 230/115/13.2KV TRANSFORMER CKT 1	6/1/2012	6/1/2013		Yes

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG2-2010-016

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	74229345	SPS	SPS	205	6/1/2012	6/1/2032	6/1/2015	6/1/2035	\$ 206,574	\$ -	\$ 206,574	\$ 581,287
									\$ 206,574	\$ -	\$ 206,574	\$ 581,287

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74229345	Jones Station Bus#2 - LUBBOCK SOUTH INTERCHANGE 230KV CKT 2	6/1/2013	6/1/2013			\$ 206,574	\$ 500,000	\$ 581,287
Total						\$ 206,574	\$ 500,000	\$ 581,287

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74229345	Line - Comanche County - Medicine Lodge 345 kv dbl ckt	6/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kv dbl ckt OKGE	6/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kv dbl ckt SPS	6/1/2012	7/1/2014		Yes
	Line - Medicine Lodge - Wichita 345 kv dbl ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Wichita 345 kv dbl ckt WERE	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbl Ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbl Ckt OKGE	6/1/2012	1/1/2015		Yes
	Line - Osage Station and Line Re-termination	6/1/2017	6/1/2017		
	Line - Spearville - Comanche County 345 kv dbl ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbl ckt SUNC	6/1/2012	1/1/2015		Yes
	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		Yes
	PLESANT HILL - ROOSEVELT 230KV CKT 1	6/1/2012	6/1/2013		Yes
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		Yes
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		Yes
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74229345	CHAVES COUNTY INTERCHANGE - SAMSON SUB 115KV CKT 1	6/1/2021	6/1/2021		
	CHAVES COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 2	6/1/2020	6/1/2020		
	GRASSLAND INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2017	6/1/2017		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
SPSM AG2-2010-017

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	74229525	SPS	SPS	205	6/1/2013	6/1/2033	6/1/2015	6/1/2035	\$ 206,574	\$ -	\$ 206,574	\$ 630,294
									\$ 206,574	\$ -	\$ 206,574	\$ 630,294

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74229525	Jones Station Bus#2 - LUBBOCK SOUTH INTERCHANGE 230KV CKT 2	6/1/2013	6/1/2013			\$ 206,574	\$ 500,000	\$ 630,294
Total						\$ 206,574	\$ 500,000	\$ 630,294

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74229525	Line - Comanche County - Medicine Lodge 345 kv dbl ckt	6/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kv dbl ckt OKGE	6/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kv dbl ckt SPS	6/1/2012	7/1/2014		
	Line - Medicine Lodge - Wichita 345 kv dbl ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Wichita 345 kv dbl ckt WERE	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbl Ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbl Ckt OKGE	6/1/2012	1/1/2015		
	Line - Osage Station and Line Re-termination	6/1/2017	6/1/2017		
	Line - Spearville - Comanche County 345 kv dbl ckt MKEC	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbl ckt SUNC	6/1/2012	1/1/2015		
	NEWHART INTERCHANGE PROJECT	6/1/2012	6/1/2015		Yes
	PLESANT HILL - ROOSEVELT 230KV CKT 1	6/1/2012	6/1/2013		Yes
	TUCCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		
	TUCCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74229525	CHAVES COUNTY INTERCHANGE - SAMSON SUB 115KV CKT 1	6/1/2021	6/1/2021		
	CHAVES COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 2	6/1/2020	6/1/2020		
	GRASSLAND INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2017	6/1/2017		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
 TEXTL AG2-2010-081

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
TEXTL	74243045	CSWS	CSWS	30	1/1/2011	1/1/2015	6/1/2013	6/1/2017	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74243045	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74243045	DIANA - PERDUE 138KV CKT 1 #1	6/1/2012	6/1/2014		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74243045	SOUTHWEST SHREVEPORT - SPRINGRIDGE PAN-HARR REC 138KV CKT 1	6/1/2012	6/1/2013		Yes
	TEXAS EASTMAN - WHITNEY 138KV CKT 1	6/1/2012	6/1/2013		Yes

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
TVAM AG2-2010-010

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
TVAM	73877198	SECI	AECI	165	1/1/2012	1/1/2017	1/1/2015	1/1/2020	\$ -	\$ 8,395,200	\$ 42,590	\$ 97,667
									\$ -	\$ 8,395,200	\$ 42,590	\$ 97,667

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
73877198	HARPER - MILAN TAP 138KV CKT 1	10/1/2012	6/1/2013			\$ 42,590	\$ 225,000	\$ 97,667
Total						\$ 42,590	\$ 225,000	\$ 97,667

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73877198	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73877198	CLIFTON - GREENLEAF 115KV CKT 1	6/1/2012	6/1/2013		
	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2012	6/1/2013		
	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	6/1/2012	6/1/2013		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73877198	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		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
WFEC AG2-2010-023

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WFEC	74227938	WFEC	WFEC	260	3/1/2017	3/1/2042			\$ 9,785,984	\$ -	\$ 9,785,984	\$ 29,461,379
									\$ 9,785,984	\$ -	\$ 9,785,984	\$ 29,461,379

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
74227938	ELK CITY - RED HILLS WIND 138KV CKT 1	6/1/2017	6/1/2017			\$ 9,000,000	\$ 9,000,000	\$ 25,065,030
	KNOBHILL 69 KV CAPACITOR BANK	6/1/2017	6/1/2017			\$ 250,000	\$ 250,000	\$ 1,268,897
	NORTHWEST 345/138/13.8KV TRANSFORMER CKT 3 Accelerated	6/1/2012	6/1/2015			\$ 535,984	\$ 2,271,045	\$ 3,127,453
	<b>Total</b>					\$ 9,785,984	\$ 11,521,045	\$ 29,461,379

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74227938	MOORELAND - WOODWARD EHV 345KV CKT 1	3/1/2017	3/1/2017		
	MOORELAND 345/138KV TRANSFORMER CKT 1	3/1/2017	3/1/2017		
	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1	6/1/2012	6/1/2013		

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
74227938	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 - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - 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		

\*Credits may be required for applicable generation interconnection network upgrades.

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

Customer Study Number  
WRGS AG1-2010-003

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	73822803	SECI	WR	200	9/1/2012	9/1/2022	1/1/2015	1/1/2025	\$ 74,521	\$ -	\$ 111,225	\$ 252,207
									\$ 74,521	\$ -	\$ 111,225	\$ 252,207

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available	Base Plan Funding for Wind	Directly Assigned for Wind	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
73822803	HARPER - MILAN TAP 138KV CKT 1	10/1/2012	6/1/2013		Yes	\$ 74,521	\$ 36,704	\$ 111,225	\$ 225,000	\$ 252,207
					Total	\$ 74,521	\$ 36,704	\$ 111,225	\$ 225,000	\$ 252,207

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73822803	Line - Comanche County - Medicine Lodge 345 kv dbi ckt	6/1/2012	1/1/2015		Yes
	Line - Hitchland - Woodward 345 kv dbi ckt OKGE	6/1/2012	7/1/2014		Yes
	Line - Hitchland - Woodward 345 kv dbi ckt SPS	6/1/2012	7/1/2014		Yes
	Line - Medicine Lodge - Wichita 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Wichita 345 kv dbi ckt WERE	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Medicine Lodge - Woodward 345 kv dbi Ckt OKGE	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbi ckt MKEC	6/1/2012	1/1/2015		Yes
	Line - Spearville - Comanche County 345 kv dbi ckt SUNC	6/1/2012	1/1/2015		Yes
	TUCO - WOODWARD 345 KV CKT 1 OKGE	6/1/2012	6/1/2014		Yes
	TUCO - WOODWARD 345 KV CKT 1 SPS	6/1/2012	6/1/2014		Yes
	XFR - Medicine Lodge 345/138 kv	6/1/2012	1/1/2015		Yes

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73822803	AUBURN ROAD (AUBRN77X) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2017	6/1/2017		

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

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73822803	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2012	6/1/2013		Yes

Credits may be required for the following Network Upgrades in accordance with Attachment Z2 of the SPP OATT.

Reservation	Upgrade Name	DUN	EOC	Earliest Start Date	Redispatch Available
73822803	FLATRDG3 138.00 - HARPER 138KV CKT 1	12/1/2009	6/1/2013		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
	NORTHWEST - TATONGA 345KV CKT 1	1/1/2010	1/1/2010		
	TATONGA - WOODWARD 345KV CKT 1	1/1/2010	1/1/2010		

\*Credits may be required for applicable generation interconnection network upgrades.

**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	CEDARGROVE - SOUTH SHREVEPORT 138KV CKT 1	Rebuild 2.3 miles of 954 ACSR with 1590 ACSR. Replace breaker, switches & jumpers @ S. Shreveport. Replace Cedar Grove switch.	6/1/2017	6/1/2017	\$ 2,600,000
MKEC	HARPER - MILAN TAP 138KV CKT 1	Replace Wave Trap at Harper Substation	10/1/2012	6/1/2013	\$ 225,000
NPPD	VICTORY HILL (VICTORYHL T1) 230/115/13.8KV TRANSFORMER CKT 1	Replace 187MVA Victory Hill transformer with 336MVA Victory Hill transformer	12/1/2016	12/1/2016	\$ 5,645,881
OKGE	EL RENO - SERVICE PL EL RENO 69KV CKT 1	Replace 400 amp CT in El Reno sub with 800 amp	6/1/2017	6/1/2017	\$ 250,000
OKGE	KNOBHILL 69 KV CAPACITOR BANK	Install 15 MVAR cap bank at Knobhill 69 kv Sub	6/1/2017	6/1/2017	\$ 250,000
OKGE	NORTHWEST 345/138/13.8KV TRANSFORMER CKT 3 Accelerated	Install third 345/138 kv Bus Tie in Northwest Sub	6/1/2012	6/1/2015	\$ 2,271,045
SPS	Jones Station Bus#2 - LUBBOCK SOUTH INTERCHANGE 230KV CKT 2	Upgrade Line trap at both Jones Bus # 2and Lubbock South Interchange	6/1/2013	6/1/2013	\$ 500,000
WERE	EL PASO - FARBER 138KV CKT 1	Tear down / Rebuild 3.1 miles with dual 477 ACSR	6/1/2014	6/1/2015	\$ 3,000,000
WFEC	ELK CITY - RED HILLS WIND 138KV CKT 1	Upgrade Elk City to RHWIND4 TO 1113	6/1/2017	6/1/2017	\$ 9,000,000

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	SOUTHWEST SHREVEPORT - SPRINGRIDGE PAN-HARR REC 138KV CKT 1	Rebuild 7.11 miles of 397.5 ACSR with 1272 ACSR	6/1/2012	6/1/2013
AEPW	TEXAS EASTMAN - WHITNEY 138KV CKT 1	Rebuild 2.49 miles with 1590 ACSR. Replace wavetramp & jumpers @ Whitney. Replace metering CT @ Texas Eastman	6/1/2012	6/1/2013
MKEC	CLIFTON - GREENLEAF 115KV CKT 1	Rebuild 14.4 miles	6/1/2012	6/1/2013
MKEC	FLATRDG3 138.00 - HARPER 138KV CKT 1	Rebuild 24.15 mile line	12/1/2012	6/1/2013
MKEC	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	Rebuild 43.5% Ownership of 20.9 miles	6/1/2012	6/1/2013
NPPD	ALBION - PETERSBURG 115KV CKT 1	Replace Breaker Switch 1106-D and jumpers at Albion. Replace main bus at Petersburg. Upgrade and replace transmission structures on 115 kv lineto facilitate 100 degrees Centigrade line operation.	6/1/2012	1/1/2013
NPPD	NELIGH - PETERSBURG 115KV CKT 1	Replace Breaker 1106, jumpers, and 115 kv Switch 1106-D2 at Neligh. Replace main bus at Petersburg. Upgrade and replace transmission structures on 115 kv lineto facilitate 100 degrees Centigrade line operation.	6/1/2012	1/1/2013
WERE	CRESWELL - OAK 69KV CKT 1	Replace jumpers and bus, and reset CTs and relaying. Rebuild substations.	6/1/2014	6/1/2014
WFEC	CANTON - TALOGA 69KV CKT 1	UPGRADE CANTON TO TALOGA TO 336.4	6/1/2012	6/1/2013
WFEC	MOORELAND - WOODWARD EHV 345KV CKT 1	Build 345kv line from Mooreland to Woodward	3/1/2017	3/1/2017
WFEC	MOORELAND 345/138KV TRANSFORMER CKT 1	Install 345/138 kv Transformer at Mooreland	3/1/2017	3/1/2017
WFEC	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1	Auto XFMR 56 to 112MVA	6/1/2012	6/1/2013

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
WERE	BELL - PECK 69KV CKT 1	Tear down / Rebuild 8.23 mile Bell-Peck 69 kv line with 1192 ACSR and replace CT	6/1/2014	6/1/2014
WERE	BELL - SUMNER COUNTY NO. 3 MILLER 69KV CKT 1	Tear down / Rebuild 7.3-miles with 954 ACSR	6/1/2014	6/1/2014
WERE	CITY OF WELLINGTON - SUMNER COUNTY NO. 3 MILLER 69KV CKT 1	Tear down / Rebuild 2.1-miles with 954 ACSR	6/1/2014	6/1/2014
WERE	CITY OF WELLINGTON - SUMNER COUNTY NO. 4 ROME 69KV CKT 1	Tear down / Rebuild 9.1-miles with 954 ACSR	6/1/2014	6/1/2014
WERE	CITY OF WINFIELD - TIMBER JUNCTION 69KV CKT 1	Tear down / Rebuild 14.63-mile Timber Tap-Winfield 69 kv line, 954 ACSR	6/1/2014	6/1/2014
WERE	CRESWELL - SUMNER COUNTY NO. 4 ROME 69KV CKT 1	Tear down / Rebuild 9.4-miles with 954 ACSR	6/1/2014	6/1/2014
WERE	RICHLAND - UDALL 69KV CKT 1	Tear down / Rebuild 8.48-mile Richland-Udall 69 kv line using 954 kcmil ACSR	6/1/2014	6/1/2014
WERE	TIMBER JUNCTION - UDALL 69KV CKT 1	Tear down / Rebuild Udall-Timber Jct 69 kv using 954 kcmil ACSR	6/1/2014	6/1/2014

**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)
KACP	IATAN - NASHUA 345KV CKT 1	Tap Nashua 345kv bus in Hawthorn - St. Joseph 345 kv line. Build new 345 kv line from Iatan to Nashua. Add Nashua 345/161 kv	6/1/2012	6/1/2015
MKEC	Line - Comanche County - Medicine Lodge 345 kv dbl ckt	Build a new 55 mile double circuit 345 kv line	6/1/2012	1/1/2015
MKEC	Line - Medicine Lodge - Wichita 345 kv dbl ckt MKEC	Build a new 35 mile double circuit 345 kv line with at least 3000 A capacity from the new Medicine Lodge 345 kv substation to the WR interception from the Wichita substation.	6/1/2012	1/1/2015
MKEC	Line - Medicine Lodge - Woodward 345 kv dbl Ckt MKEC	Build a new 28.6 mile dbl ckt 345 kv line with at least 3000 A capacity from the Medicine Lodge sub to the KS/OK state border towards the Woodward District EHV sub. Install the necessary breakers and terminal equipment at the Medicine Lodge sub.	6/1/2012	1/1/2015
MKEC	Line - Spearville - Comanche County 345 kv dbl ckt MKEC	Build a new 27.5 mile double circuit 345 kv line	6/1/2012	1/1/2015
MKEC	XFR - Medicine Lodge 345/138 kv	Install a 400 MVA 345/138 kv transformer at the new 345 kv Medicine Lodge substation.	6/1/2012	1/1/2015
OKGE	Line - Hitchland - Woodward 345 kv dbl ckt OKGE	Build a new 60.5 mile double circuit 345 kv line	6/1/2012	7/1/2014
OKGE	Line - Medicine Lodge - Woodward 345 kv dbl Ckt OKGE	Build a new 79 mile dbl ckt 345 kv line with at least 3000 A capacity from the Woodward District EHV sub to the KS/OK state border towards the Medicine Lodge sub. Upgrade the Woodward District EHV sub with the necessary breakers and terminal equipment.	6/1/2012	1/1/2015
OKGE	TUCO - WOODWARD 345 kv CKT 1 OKGE	Build new 345 kv line from Woodward EHV to TUCO	6/1/2012	6/1/2014
SPS	Line - Hitchland - Woodward 345 kv dbl ckt SPS	Build a new 60.5 mile double circuit 345 kv line	6/1/2012	7/1/2014
SPS	Line - Osage Station and Line Re-termination	Osage station & line reterminations with a new 2 mile 115 kv line from Randall Co	6/1/2017	6/1/2017
SPS	NEWHART INTERCHANGE PROJECT	Tap the Potter Interchange - Plant X Station 230 kv line for new Newhart Substation and install 230/115 kv 150/173 MVA transformer. New 15 mile Lampton Interchange - Hart Industrial Substation 115 kv line. New 19 mile Swisher County Interchange - Newhart	6/1/2012	6/1/2015
SPS	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1	Reconductor from Sanger switch to OXY PERMIAN SUB	6/1/2017	6/1/2017
SPS	PLEASANT HILL - ROOSEVELT 230KV CKT 1	Build new Pleasant Hill - Roosevelt County 230 kv line.	6/1/2012	6/1/2013
SPS	SWISHER COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	Upgrade the Swisher County 230/115 kv Tf.	6/1/2016	6/1/2016
SPS	TUCO - WOODWARD 345 kv CKT 1 SPS	Build new 345 kv line from Woodward EHV to TUCO	6/1/2012	6/1/2014
SUNC	FLETCHER - HOLCOMB 115KV CKT 1	Rebuild 11.1 miles of the 18.3 mile Fletcher - Holcomb 115 kv line with 954 ACSR Cardinal	6/1/2013	6/1/2013
SUNC	Line - Spearville - Comanche County 345 kv dbl ckt SUNC	Build a new 27.5 mile double circuit 345 kv line with at least 3000 A capacity from the Spearville substation to the MKEC interception point from the new Comanche County substation.	6/1/2012	1/1/2015
WERE	87th Street Interconnection	Add new substation by tapping Stranger-Craig 345kv, add 560MVA three winding transformer, new substation tapping 95th & Waverly-Monticello 115kv, tear down and rebuild existing line as new double circuit.	6/1/2012	6/1/2013
WERE	Line - Medicine Lodge - Wichita 345 kv dbl ckt WERE	Build a new 35 mile double circuit 345 kv line	6/1/2012	1/1/2015

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

Reliability Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.				
Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	DIANA - PERDUE 138KV CKT 1 #1	Replace Breakers 9310 & 10080 & five switches @ Perdue. Replace switch 12798 @ Diana	6/1/2012	6/1/2014
OMPA	OMGONTER 69.000 - OMNEASTT 69KV CKT 1	Breaker CT	6/1/2017	6/1/2017
OMPA	OMHUFFYT - OMMORANT 69KV CKT 1	Breaker CT	6/1/2017	6/1/2017
OMPA	OMHUFFYT - OMPA-PONCA CITY 69KV CKT 1	Breaker CT	6/1/2017	6/1/2017
OMPA	OMKAWA - OMEPCANT 69KV CKT 1	Breaker CT	6/1/2017	6/1/2017
OMPA	OMMORANT - OSAGE 69KV CKT 1	Breaker CT	6/1/2017	6/1/2017
OMPA	OMNEASTT - OMMWESTT 69KV CKT 1	Breaker CT	6/1/2017	6/1/2017
OMPA	OMNWESTT - OMPA-PONCA CITY 69KV CKT 1	Breaker CT	6/1/2017	6/1/2017
OMPA	OMPECANT - OMMW 69.000 69KV CKT 1	Breaker CT	6/1/2017	6/1/2017
OMPA	OMW 69.000 - OSAGE 69KV CKT 1	Breaker CT	6/1/2017	6/1/2017
SPS	CHAVES COUNTY INTERCHANGE - SAMSON SUB 115KV CKT 1	Reconductor 7.78 miles of Chaves - Sampson 115 kv	6/1/2021	6/1/2021
SPS	CHAVES COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 2	Replace existing 149/171 MVA Chaves 230/115 kv transformer with 250 MVA transformer.	6/1/2020	6/1/2020
SPS	DEAF SMITH COUNTY INTERCHANGE (GE M101353) 230/115/13.2KV TRANSFORMER CKT 1	Upgrade 230/115 kv transformer to match transformer #1.	6/1/2012	6/1/2013
SPS	GRASSLAND INTERCHANGE 230/115KV TRANSFORMER CKT 1	Upgrade the Grassland 230/115 kv transformer to 150/165 MVA.	6/1/2017	6/1/2017
WERE	AUBURN ROAD (AUBRN77K) 230/115/13.8KV TRANSFORMER CKT 1	Replace 308MVA Auburn transformer with 400MVA Ogallala transformer	6/1/2017	6/1/2017

**Network Upgrades requiring credits per Attachment 22 of the SPP OATT.**

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
AEPW	ALUMAX TAP - BANN 138KV CKT 1	Replace six (6) 138 kv switches, five at Bann & one at Alumax Tap. Rebuild 0.67 miles of 1024 ACAR with 2156 ACSR. Replace wvetrap & jumpers @ Bann. Replace breaker 3300 @ Bann.	6/1/2008	6/1/2008
AEPW	ASHDOWN REC (MILLWOOD) - OKAY 138KV CKT 1	Reconductor and convert line to 138 kv and replace switches at Ashdown REC	7/1/2012	7/1/2012
AEPW	ASHDOWN REC (MILLWOOD) - PATTERSON 138KV CKT 1	Reconductor Line & Convert Line to 138 kv and convert Patterson station to breaker-and-a-half configuration	7/1/2012	7/1/2012
AEPW	BANN - RED SPRINGS REC 138KV CKT 1	Replace 138 kv breakers 3300 & 3310	7/1/2012	7/1/2012
AEPW	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	Reconductor 1.9 miles with ACCC. Replace wave trap jumpers at Riverside.	6/1/2009	6/1/2009
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Valliant 345 kv line terminal	7/1/2012	7/1/2012
AEPW	MCNAB REC - TURK 115KV CKT 1	Build a new two mile, 138 kv, 1590 ACSR line section (operated at 115 kv) from Turk Substation to the existing Okay- Hope 115 kv line to form a Turk - Hope 115 kv line.	7/1/2012	7/1/2012
AEPW	OKAY - TURK 138KV CKT 1	Build two mile, 138 kv, 1590ACSR line section from Turk Sub to existing Okay-Hope 115 kv line and rebuild twelve miles of 115 kv line to Okay Sub to 138 kv, 1590 ACSR, to form a Turk-Okay 138 kv line	7/1/2012	7/1/2012
AEPW	SE TEXARKANA - TURK 138KV CKT 1	Build new Turk-SE Texarkana 138 kv line and add SE Texarkana 138 kv terminal.	7/1/2012	7/1/2012
AEPW	SUGAR HILL - TURK 138KV CKT 1	Build new Turk-Sugar Hill 138 kv line and add Sugar Hill 138 kv terminal.	7/1/2012	7/1/2012
EMDE	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	Reconductor Oronogo 59467 to Riverton 59469 with Bundled 556 ACSR	6/1/2011	6/1/2011
KACP	LACYGNE - WEST GARDNER 345KV CKT 1	KCPL Sponsored Project to Reconductor Line to be In-Service by 6/1/2006	6/1/2006	6/1/2006
MKEC	CLIFTON - GREENLEAF 115KV CKT 1	Rebuild 14.4 miles	6/1/2011	6/1/2013
MKEC	FLATRDG3 138.00 - MEDICINE LODGE 138KV CKT 1	Rebuild 8.05 mile line	12/1/2009	6/1/2013
MKEC	FLATRDG3 138.00 - HARPER 138KV CKT 1	Rebuild 24.15 mile line	12/1/2009	6/1/2013
MKEC	GREENLEAF - KNOB HILL 115KV CKT 1 MKEC	Rebuild 43.5% Ownership of 20.9 miles	6/1/2013	6/1/2013
MKEC	MEDICINE LODGE - SAWYER 115KV CKT 1	Rebuild line	12/1/2009	6/1/2013
MKEC	SAWYER - PRATT 115KV CKT 1	Rebuild line	12/1/2009	6/1/2013
NPPD	ALBION - PETERSBURG 115KV CKT 1	Replace Breaker Switch 1106-D and jumpers at Albion. Replace main bus at Petersburg. Upgrade and replace transmission structures on 115 kv lineto facilitate 100 degrees Centigrade line operation.	1/1/2013	1/1/2013
NPPD	NELIGH - PETERSBURG 115KV CKT 1	Replace Breaker 1106, jumpers, and 115 kv Switch 1106-D2 at Neligh. Replace main bus at Petersburg. Upgrade and replace transmission structures on 115 kv lineto facilitate 100 degrees Centigrade line operation.	1/1/2013	1/1/2013
OKGE	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	Reconductor .92miles of line with Drake ACCC/TW.	6/1/2009	6/1/2009
OKGE	GRACMNT4 138.00 - WASHITA 138KV CKT 2 OKGE	Build 138KV Terminal.	1/1/2012	1/1/2012
OKGE	KNOBHILL (KNOBHILA) 138/69/13.2KV TRANSFORMER CKT 1	Replace bus tie with 100MVA transformer	6/1/2006	6/1/2008
OKGE	NORTHWEST - TATONGA 345KV CKT 1	Build 345 kv line	1/1/2010	1/1/2010
OKGE	TATONGA - WOODWARD 345KV CKT 1	Build 345 kv line	1/1/2010	1/1/2010
OKGE	WOODWARD - IODINE 138KV CKT 1	Tap Iodine to Woodward 138 kv line	1/1/2010	1/1/2010
OKGE	WOODWARD - WOODWARD EHV 138KV CKT 1	Build .5 miles of 138 kv and install terminal equipment	1/1/2010	1/1/2010
OKGE	WOODWARD - WOODWARD EHV 138KV CKT 2	Build .5 miles of 138 kv and install terminal equipment	1/1/2010	1/1/2010
OKGE	WOODWARD 345/138KV TRANSFORMER CKT 1	Install 345/138 kv XF	1/1/2010	1/1/2010
SPS	CHERRYV 230.00 - Harrington Station East Bus 230KV CKT 1	Replace wvetrap at Harrington East	6/1/2015	6/1/2015
WERE	DEARING 138KV Capacitor	Dearing 138 kv 20 MVAR Capacitor Addition	6/1/2012	6/1/2012
WFEC	ALTUS SW - NAVAIO 69KV CKT 1	Upgrade Terminal Equipment at Altus SW, 300-600A, new rating conductor 53/65MVA	6/1/2013	6/1/2013
WFEC	CANTON - TALOGA 69KV CKT 1	UPGRADE CANTON TO TALOGA TO 336.4	6/1/2011	6/1/2013
WFEC	APACHE CO SUB - PARADISE 138KV CKT 1	Upgrade Paradise to G03-05T to 1113	6/1/2010	6/1/2013
WFEC	GRACMNT4 138.00 - WASHITA 138KV CKT 2 WFEC	Build approximately 6 miles of 138kv.	1/1/2012	1/1/2012
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
WFEC	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1	Auto XFMR 56 to 112MVA	10/1/2010	6/1/2013

**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
AMMO	7OVERTON 345.00 () 345/161/13.8KV TRANSFORMER CKT 1	Indeterminate	6/1/2014	6/1/2014	Indeterminate
EES	3GRENWD - TERREBONNE 115KV CKT 1 EES	Indeterminate	1/1/2015	1/1/2015	Indeterminate
EES	GRIMES - MT. ZION 138KV CKT 1	Indeterminate	6/1/2017	6/1/2017	Indeterminate
EES	LINE 558 TAP - MT. ZION 138KV CKT 1	Indeterminate	6/1/2017	6/1/2017	Indeterminate
LAGN	3GRENWD - HUMPHREY 115KV CKT 1 LAGN	Indeterminate	6/1/2017	6/1/2017	Indeterminate
LAGN	3GRENWD - TERREBONNE 115KV CKT 1 LAGN	Indeterminate	1/1/2015	1/1/2015	Indeterminate